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**Surveillance for Certain Health Behaviors  
Among Selected Local Areas — United States,  
Behavioral Risk Factor Surveillance System, 2002**

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## Surveillance for Certain Health Behaviors Among Selected Local Areas — United States, Behavioral Risk Factor Surveillance System, 2002

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### Abstract

**Problem:** Monitoring risk behaviors for chronic diseases and participation in preventive practices are important for developing effective health education and intervention programs to prevent morbidity and mortality. Therefore, continual monitoring of these behaviors and practices at the state, city, and county levels can assist public health programs in evaluating and monitoring progress toward improving their community's health.

**Reporting Period Covered:** Data collected in 2002 are presented for states, selected metropolitan, and micropolitan statistical areas (MMSA), and their counties.

**Description of the System:** The Behavioral Risk Factor Surveillance System (BRFSS) is an on-going, state-based, telephone survey of the civilian, noninstitutionalized population aged  $\geq 18$  years. All 50 states, the District of Columbia (DC), Guam, the Virgin Islands, and the Commonwealth of Puerto Rico participated in BRFSS during 2002. Metropolitan and MMSA and their counties with  $\geq 500$  respondents or a minimum sample size of 19 per weighting class were included in the analyses for a total of 98 MMSA and 146 counties.

**Results:** Prevalence of high-risk behaviors for chronic diseases, awareness of certain medical conditions, and use of preventive health-care services varied substantially by state, county, and MMSA. Obesity ranged from 27.6% in West Virginia, 29.4% in Charleston, West Virginia, and 32.0% in Florence County, South Carolina, to 16.5% in Colorado, 12.8% in Bethesda-Frederick-Gaithersburg, Maryland, and 11.8% in Washington County, Rhode Island. No leisure-time physical activity ranged from 33.6% in Tennessee, 36.8% in Miami-Miami Beach-Kendall, Florida, and 36.8% in Miami-Dade County, Florida to 15.0% in Washington, 13.8% in Seattle-Bellevue-Everett Washington, and 11.4% in King County, Washington. Cigarette smoking ranged from 32.6% in Kentucky, 32.8% in Youngstown-Warren-Boardman, Ohio-Pennsylvania, and 31.1% in Jefferson County, Kentucky to 16.4% in California, 13.8% in Ogden-Clearfield, Utah, and 10.9% in Davis County, Utah. Binge drinking ranged from 24.9% in Wisconsin, 26.1% in Fargo, North Dakota-Minnesota, and 25.1% Cass County, North Dakota, to 7.9% in Kentucky, 8.2% in Greensboro-High Point, North Carolina, and 6.6% in Henderson County, North Carolina. At risk for heavy drinking ranged from 8.7% in Arizona, 9.5% in Lebanon, New Hampshire-Vermont, and 11.3% in Richland County, South Carolina, to 2.8% in Utah, 1.9% in Ogden-Clearfield, Utah, and 1.7% in King County, New York. Adults who were told they had diabetes ranged from 10.2% in West Virginia, 11.1% in Charleston, West Virginia, and 11.1% in Richland, South Carolina, to 3.5% in Alaska, 2.7% in Anchorage, Alaska, and 2.4% in Weber County, Utah. Percentage of adults aged  $\geq 50$  years who were ever screened for colorectal cancer ranged from 64.8% in Minnesota, 67.9% in Minneapolis-St. Paul-Bloomington Minnesota-Wisconsin, and 73.6% in Ramsey County, Minnesota, to 39.2% in Hawaii, 30.7% in Kahului-Wailuku, Hawaii, and 30.7% in Maui County, Hawaii. Persons aged  $\geq 65$  years who had received pneumococcal vaccine ranged from 72.5% in North Dakota, 74.8% in Minneapolis-St. Paul-Bloomington, Minnesota-Wisconsin, and 73.1% in Milwaukee County, Wisconsin, to 47.9% in DC, 47.5% in New York-Wayne-White Plains, New York, New Jersey, and 47.9% in DC County, DC. Older adults who had received influenza vaccine ranged from 76.6% in Minnesota, 80.0% in Minneapolis-St. Paul-Bloomington, Minnesota-Wisconsin, and 76.3% in Middlesex County, Massachusetts, to 57.0% in Florida, 55.8% in Houston-Baytown-Sugar Land, Texas, and 56.2% in Cook County, Illinois.

**Interpretation:** BRFSS data indicate substantial variation in high-risk behaviors, participation in preventive health-care services, and screening among U.S. adults at states and selected local areas, indicating a need for continued efforts to evaluate public health programs or policies designed to reduce morbidity and mortality.

**Public Health Actions:** Data from BRFSS are useful in developing and guiding public health programs and policies. Therefore, states, selected MMSA, and their counties can use BRFSS data as a tool to prevent premature morbidity and mortality among adult population and to assess progress toward national health objectives. The data indicate a continued need to develop and implement health promotion programs for targeting specific behaviors and practices and serve as a baseline for future surveillance at the local level in the United States.

## Introduction

Reducing the impact of and increasing screening for diseases are among the goals of Healthy People 2010 (1). Certain behaviors (e.g., no participation in physical activity, smoking cigarettes, and excessive alcohol consumption) contribute to chronic diseases in the United States. Morbidity and mortality can be reduced by participation in healthy behaviors and by timely use of preventive health-care services (2–6).

The Behavioral Risk Factor Surveillance System (BRFSS) is an ongoing, state-based surveillance system and a key source for information on health-risk behavior, preventive health practices, and access to health care. BRFSS has been a unique source of risk behavior data since 1984. The growth in BRFSS sample size facilitates calculation of selected metropolitan and micropolitan statistical areas (MMSA) and county estimates. The report provides 2002 prevalence estimates for selected risk factors by geographic location that allow comparisons at the state and local level and assesses progress toward national goals.

The reliability and validity of measures of BRFSS and new challenges facing this increasingly complex system have been previously described (7,8). Prevalence estimates of risk factors for chronic diseases, awareness of certain medical conditions that place persons at risk for developing diseases, screening practices, and vaccination coverage are provided for 2002 to examine disease-related behaviors and practices at the state, selected MMSA, and their county levels.

## Methods

BRFSS is a cross-sectional telephone survey conducted by the state health departments with assistance from CDC. BRFSS uses a multistage design based on random-digit-dialing methods to select a representative sample from each state's noninstitutionalized civilian population aged  $\geq 18$  years ( $n = 247,964$ ). The BRFSS questionnaire consists primarily of questions about personal behaviors that increase risk for one or more of the 10 leading causes of death in the United

States. This report includes data from states, selected MMSA, and their counties in the 50 states and the District of Columbia (DC) with a sample size of  $\geq 500$  respondents or 19 per weighting class, a total of 98 MMSA and 146 counties. Statistics for selected cities and counties were reported as not available if the denominator was  $< 50$  or the confidence interval half width was  $> 10$ . Statistics for certain women's health concerns also were not reported because of limited cell sizes.

## Questionnaire

The 2002 BRFSS questionnaire included core questions related to health status, health-care access, exercise, eating of fruit and vegetables, asthma, diabetes, oral health, vaccination, tobacco use, alcohol consumption, seat belt use, family planning, use of firearms, women's health, prostate cancer screening, colorectal cancer screening, and human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS). In addition, states selected some of the following optional modules: diabetes (48 states), arthritis (30), childhood asthma (25), tobacco indicators (25), healthy days (22), quality of life (21), adult asthma history (19), physical activity (19), weight control (15), cholesterol awareness (14), hypertension awareness (12), health-care coverage (10), heart attack and stroke (10), cardiovascular disease (eight), and effects of the September 11 attack (two). Measures used in this report include cigarette smoking; alcohol use; patterns for chronic and binge drinking; participation in leisure-time physical activity; risk for being overweight; diabetes; colorectal cancer screening; two types of vaccinations for persons aged  $\geq 65$  years; and, for women, measures of mammography and Papanicolaou (PAP) smears.

## Data Collection and Processing

BRFSS data are collected monthly during the interviewing period in each state. Data are sent to CDC after the monthly interviewing cycle ends, where they are checked for reliability. A computer-assisted telephone interviewing (CATI) system was used in 54 states and territories in 2002.

## Data Weighting and Analysis

CDC edits and aggregates the monthly data files to create a yearly sample for each state. That file is weighted to the respondent's probability of being selected and the age-, race- and sex-specific population from the 2002 census for each state. These weights are used to calculate the state prevalence estimates. Starting in 2000, the final state-level weights were adjusted to reflect the adult population for each metropolitan area, producing metropolitan-level weights. The metropolitan-level weight is used to generate metropolitan estimates. To adjust the final state-level weights, the state-level poststratification adjustment factor was first removed from the BRFSS weighting formula, leaving the true design weight. Respondents located in metropolitan areas were then assigned to weighting classes. Within each metropolitan area, weighting classes were based on either age/sex cross-classification totals or age/sex/race cross-classification totals, depending on whether the state the metropolitan area is located in an area that uses race in their original state-level poststratification. A minimum sample size of 19 was used for each weighting class, and weighting classes were collapsed if sample sizes were <19. Within each weighting class, a single adjustment factor was applied to all respondents that forced the sum of the design weights to equal the metropolitan population total for that weighting class. For each respondent, the new metropolitan-level weight is the product of the design weight and the metropolitan-level post-stratification adjustment factor.

Metropolitan areas were defined by the Bureau of the Census as metropolitan statistical areas (MSAs). For this report, MSA is referred to as MMSA. The largest MSAs are known as consolidated metropolitan statistical areas (CMSAs). A CMSA is an area in the United States that is recognized as an MSA, has a population >1 million persons, and can be separated into component areas. These component areas are referred to as the primary metropolitan statistical areas (PMSAs). Metropolitan areas are defined by a collection of towns and cities for the New England states instead of by counties. Therefore, the Census Bureau has defined New England County metropolitan areas (NECMAs) in New England as an alternative to MSAs. NECMAs, PMSAs, and MSAs are included in the list of candidate analysis areas. The list was restricted to NECMAs, PMSAs, and MSAs with  $\geq 500$  respondents in the BRFSS data. This minimized the amount of weight class collapsing. Respondents located in rural counties or metropolitan areas with <300 respondents were not included in the reweighting.

SAS<sup>®</sup> and SUDAAN<sup>®</sup> were used in the analyses to account for the complex sampling design and calculate the standard errors and 95% confidence intervals (9,10). In 2002, the number of interviews completed ranged from 805 in Guam to 12,759 in Pennsylvania, and the response rates ranged from

42.2% in New Jersey to 82.6% in Minnesota based on Council of American Survey and Research Organizations guidelines and from 66.4% in New Jersey to 99.8% in Minnesota for cooperation rate. BRFSS has good data quality, and when BRFSS data are compared with census data, BRFSS data have a minimal bias. Bias estimates in 2000 were lower compared with BRFSS data collected in 1995, when the response rates were higher (7). In addition, when BRFSS data are compared with other surveys, these data are reliable and valid (8).

## Results

The findings in this report indicate that none of the states met the Healthy People 2010 (1) objective for obesity among adults aged  $\geq 20$  years (15%) and binge drinking (6%). For the other indicators, certain states have met the objective, and others are at or above the target level. BRFSS data indicate a greater variation among cities and counties compared with states. Certain cities and counties have met the 2010 objectives (Table 1).

## Risk Factors for Chronic Diseases

### Overweight and Obesity

Self-reported weight and height were used to calculate body mass index (BMI) (weight [kg]/height [m<sup>2</sup>]). Participants were classified as obese if their BMI was  $\geq 30$ . Overweight was classified as BMI  $\geq 25$ . In 2002, prevalence of overweight adults ranged from 63.7% (95% CI = 61.7–65.7) in West Virginia to 52.7% (95% CI = 50.0–55.4) in DC (median: 58.9%) (Table 2).

The prevalence of overweight for selected MMSA ranged from 66.4% (95% CI = 62.1–70.6) in Memphis, Tennessee/Mississippi/Arkansas to 50.1% (95% CI = 45.9–54.3) in Bethesda-Frederick-Gaithersburg, Maryland (median: 57.5%) (Table 3) and for counties from 67.2% (95% CI = 61.4–73.0) in Darlington County, South Carolina, to 46.5% (95% CI = 38.7–54.3) in Orange County, North Carolina (median: 56.9%) (Table 4).

The prevalence of adults aged  $\geq 20$  years who were obese (BMI of  $\geq 30$ ) varied by state and ranged from 27.6% (95% CI = 25.8–29.4) in West Virginia to 16.5% (95% CI = 15.0–17.9) in Colorado (median: 22.2%) (Table 5). For all selected MMSA, obesity prevalence ranged from 29.4% (95% CI = 25.0–33.9) in Charleston, West Virginia, to 12.8% (95% CI = 10.2–15.4) in Bethesda/Frederick/Gaithersburg, Maryland (median: 21.0%) (Table 6) and for counties from 32.0% (95% CI = 25.9–38.1) in Florence County, South Carolina, to 11.8% (95% CI = 8.6–15.0) in Washington County, Rhode Island (median: 20.5%) (Table 7).

## No Leisure-Time Physical Activity

Leisure-time physical activity was measured by the extent of respondent's participation in exercise (e.g., running, calisthenics, golf, gardening, or walking) during the preceding month. The prevalence estimate is presented for those respondents who did not participate in leisure-time activity. In 2002, the prevalence of no participation in leisure-time physical activity ranged from 33.6% (95% CI = 31.6–35.6) in Tennessee to 15% (95% CI = 13.6–16.4) in Washington (median: 24.4%) (Table 8). For all selected MMSA, prevalence of no participation in leisure-time physical activity ranged from 36.8% (95% CI = 32.3–41.2) in Miami-Miami Beach-Kendal, Florida, to 13.8% (95% CI = 11.8–15.7) in Seattle-Bellevue-Everett, Washington (median: 23.0%) (Table 9) and for counties from 36.8% (95% CI = 32.3–41.2) in Miami-Dade County, Florida, to 11.4% (95% CI = 9.3–13.4) King County, Washington (median: 22.5%) (Table 10).

## Cigarette Smoking

Respondents were asked about former and current smoking behaviors. Respondents who had smoked  $\geq 100$  cigarettes in their lifetime and now smoked were classified as current smokers. In 2002, the prevalence of adults who were current cigarette smokers ranged from 32.6% (95% CI = 30.8–34.4) in Kentucky to 16.4% (95% CI = 15.0–17.8) in California (median: 23.1) (Table 11). For all selected MMSA, the prevalence of current cigarette smokers ranged from 32.8% (95% CI = 25.6–40.0) in Youngstown-Warren-Boardman, Ohio-Pennsylvania to 13.8% (95% CI = 10.5–17.1) in Ogden-Clearfield, Utah (median: 22.7%) (Table 12), and for counties the prevalence range from 31.1% (95% CI = 24.3–37.8) in Jefferson County, Kentucky, to 10.9% (95% CI = 6.7–15.1) in Davis County, Utah (median: 22.3%) (Table 13).

## Binge Drinking

Respondents were asked about the consumption of alcoholic beverages during the preceding 30 days. Binge drinking was defined as having  $\geq 5$  drinks on at least one occasion during the preceding month. In 2002, the percentages for adults who reported binge drinking ranged from 24.9% (95% CI = 23.3–26.5) in Wisconsin to 7.9% (95% CI = 6.5–9.3) in Kentucky (median: 16.1%) (Table 14). The prevalence for binge drinking for selected MMSA ranged from 26.1% (95% CI = 21.0–31.2) for Fargo, North Dakota-Minnesota, to 8.2% (95% CI = 5.1–11.3) in Greensboro-Highpoint, North Carolina (median: 16.0%) (Table 15) and for counties from 25.1% (95% CI = 20.6–29.7) for Cass County, North Dakota, to 6.6% (95% CI = 3.6–9.6) for Henderson County, North Carolina (median: 16.1%) (Table 16).

## Heavy Drinking

At risk for heavy drinking was defined as an average of  $>2$  drinks/day during the preceding month for men and an average of  $>1$  drink/day during the preceding month for women. In 2002, the percentages for adults who were at risk for heavy drinking ranged from 8.7% (95% CI = 6.7–10.7) in Arizona to 2.8% (95% CI = 2.2–3.4) in Utah (median: 5.9%) (Table 17). The prevalence of heavy drinking in selected MMSA range from 9.5% (95% CI = 6.7–12.3) in Lebanon, New Hampshire-Vermont, to 1.9% (95% CI = 0.6–3.2) in Ogden-Clearfield, Utah (median: 5.8%) (Table 18), and for counties the prevalence ranged from 11.3% (95% CI = 5.9–16.7) in Richland County, South Carolina, to 1.7% (95% CI = 0.4–2.9) in King County, New York (median: 5.8%) (Table 19).

## Awareness of Certain Medical Conditions

### Diabetes

Diabetes was defined as a positive response to the question, "Have you ever been told by a doctor that you have diabetes." Specific classification of diabetes (e.g., type 1 or type 2) was not assessed. In 2002, the percentage of persons told they had diabetes ranged from 10.2% (95% CI = 9.0–11.4) in West Virginia to 3.5% (95% CI = 2.7–4.3) in Alaska (median: 6.8%) (Table 20). The prevalence for selected MMSA ranged from 11.1% (95% CI = 8.1–14.1) in Charleston, West Virginia, to 2.7% (95% CI = 1.4–4.0) in Anchorage, Alaska (median: 6.2%) (Table 21), and for counties the prevalence ranged from 11.1% (95% CI = 6.7–15.5) in Richland County, South Carolina to 2.4% (95% CI = 0.8–4.0) in Weber County, Utah (median: 6.0%) (Table 22).

### Colorectal Cancer Screening

Respondents aged  $\geq 50$  years were asked if they had ever had a sigmoidoscopy or colonoscopy examination. The percentage who ever had one of these examinations varied from 64.8% (95% CI = 62.4–67.2) in Minnesota to 39.2% (95% CI = 36.7–41.7) in Hawaii (median: 48.1%) (Table 23). For the selected MMSA, the prevalence ranged from 67.9% (95% CI = 64.7–71.1) in Minneapolis-St. Paul-Bloomington, Minnesota-Wisconsin, to 30.7% (95% CI = 26.1–35.3) in Kahului-Wailuku, Hawaii (median: 50.3%) (Table 24), and by county, the prevalence ranged from 73.6% (95% CI = 66.9–80.4) in Ramsey County, Minnesota, to 30.7% (95% CI = 26.1–35.3) in Maui County, Hawaii (median: 51.3%) (Table 25).

Another measure of colorectal cancer screening is the fecal occult blood test. Respondents aged  $\geq 50$  years were asked if they have used a home kit to test for blood in the stool during the preceding 2 years. In 2002, the percentage who responded yes ranged from 33.4% (95% CI = 30.3–36.5) in Maine to 12.2% (95% CI = 10.0–14.4) in Utah (median: 20.9%) (Table 26). For the selected MMSA, the range was from 44.2% (95% CI = 35.2–53.3) in Winston-Salem, North Carolina, to 8.8% (95% CI = 4.2–13.4) in Ogden-Clearfield, Utah (median: 23.5) (Table 27) and for the counties, the prevalence of those who had the test ranged from 44.2% (95% CI = 36.6–51.8) in Forsyth County, North Carolina, to 7.9% (95% CI = 2.6–13.2) in Weber County, Utah (median: 24.7%) (Table 28).

## Vaccination

### Influenza Vaccination

The percentage of influenza vaccination coverage among respondents aged  $\geq 65$  years during the preceding 12 months ranged from 76.6% (95% CI = 73.7–79.5) in Minnesota to 57% (95% CI = 54.3–59.7) in Florida (median: 68.5%) (Table 29). The prevalence for selected MMSA ranged from 80.0% (95% CI = 76.0–84.0) in Minneapolis-St. Paul-Bloomington, Minnesota-Wisconsin, to 55.8% (95% CI = 46.0–65.6) in Houston-Baytown-Sugar Land, Texas (median: 69.9%) (Table 30) and for counties the prevalence of influenza vaccination coverage ranged from 76.3% (95% CI = 70.5–82.2) in Middlesex County, Massachusetts, to 56.2% (95% CI = 49.5–63.0) in Cook county, Illinois (median: 70.5%) (Table 31).

### Pneumococcal Vaccination

In 2002, the percentage of pneumococcal vaccine coverage among respondents aged  $\geq 65$  years ranged from 72.5% (95% CI = 68.6–76.4) in North Dakota to 47.9% (95% CI = 42.0–53.8) in DC (median: 63.0%) (Table 32). The prevalence for selected MMSA ranged from 74.8% (95% CI = 70.3–79.3) in Minneapolis-St. Paul-Bloomington, Minnesota-Wisconsin to 47.5% (95% CI = 41.3–53.6) in New York-Wayne-White Plains, New York-New Jersey (median: 63.4%) (Table 33), and for counties, the prevalence of pneumococcal vaccine coverage ranged from 73.1% (95% CI = 64.9–81.3) in Milwaukee County, Wisconsin, to 47.9% (95% CI = 41.9–53.9) in DC (median: 63.2%) (Table 34).

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## Women's Health Concerns

### Cervical Cancer Screening

In 2002, the percentage of women aged  $\geq 18$  years with an intact cervix who had ever had a Pap smear ranged from 97.6% (95% CI = 96.4–98.8) in Delaware to 89.7% (95% CI = 87.2–92.2) in Utah (Table 35). For selected MMSA, the prevalence of women aged  $\geq 18$  years who had ever had a Pap smear ranged from 95.5% (95% CI = 93.7–97.4) in Washington-Arlington-Alexandria, DC-Virginia-Maryland-West Virginia to 89.1% (95% CI = 86.5–91.6) in New York-Wayne-White Plains, New York-New Jersey (median: 94.4%) (Table 36) and for counties from 94.5% (95% CI = 93.0–95.9) in Honolulu County, Hawaii, to 93.3% (95% CI = 91.3–95.3) in Providence County, Rhode Island (median: 3.9%) (Table 37).

### Breast Cancer Screening

In 2002, the percentage of women aged  $\geq 40$  years who had had a mammogram in their lifetime ranged from 94.1% (95% CI = 92.7–95.5) in Rhode Island to 84.8% in New Mexico (median: 88.9%) (Table 38). The prevalence for selected MMSA ranged from 94.4% (95% CI = 93.2–95.5) in Providence-New Bedford-Fall River, Rhode Island-Massachusetts, to 83.5% (95% CI = 79.0–88.0) in Kahului-Wailuku, Hawaii (median: 90%) (Table 39). For selected counties, the percentage of women who had a mammogram ranged from 93.3% (95% CI = 91.5–95.1) in Providence County, Rhode Island, to 83.5% (95% CI = 79.0–88.0) in Maui County, Hawaii (median: 88.0%) (Table 40).

The percentage of women aged  $\geq 40$  years who had a mammogram during the preceding 2 years ranged from 85.4% (95% CI = 83.4–87.4) in Rhode Island to 67.0% (95% CI = 64.6–69.4) in Idaho (Table 41). The prevalence for selected MMSA ranged from 85.8% (95% CI = 84.0–87.6) in Providence-New Bedford-Fall River, Rhode Island-Massachusetts, to 65.4% (95% CI = 59.9–70.8) in Kahului-Wailuku, Hawaii (median: 76.9%) (Table 42) and for selected counties from 87.1% (95% CI = 83.3–91.0) in Bristol County, Massachusetts, to 64.1% (95% CI = 56.0–72.1) in Canyon County, Idaho (median: 77.1%) (Table 43).

The percentage of women aged  $\geq 40$  years who had ever had a clinical breast examination ranged from 96.5% (95% CI = 95.5–97.5) in Minnesota to 87.3% (95% CI = 85.3–89.3) in Tennessee (Table 44). The prevalence for selected MMSA ranged from 93.6% (95% CI = 90.8–96.5) in Washington-Arlington-Alexandria, DC-Virginia-West Virginia, to 85.7% (95% CI = 82.5–88.9) in New York-Wayne-White Plains, New York-New Jersey (median: 92.8) (Table 45), and for selected counties the prevalence ranged from 93.1% (95% CI = 91.3–95.0) in

Honolulu County, Hawaii, to 88.4% (95% CI = 80.8–95.9) in Armstrong County, Pennsylvania (median: 89.4%) (Table 46).

## Discussion

The findings in this report document variations in the prevalence of key health risk behaviors and preventive screening practices among U.S. adults at the state and local level. This is the first time that BRFSS data at the local level were available to generate state and local level estimates. BRFSS local estimates can be used by public health officials to better plan and direct their prevention efforts and to support targeted program implementation and evaluation. In addition, these data can be used by policymakers at states and local levels to assess their own needs and progress toward their own goals.

The data in this report demonstrate variations in the prevalence of selected chronic disease-related behaviors and preventive practices among states, selected MMSA, and their counties. Variation among states, MMSA, and their counties might reflect differences in the composition of the populations, availability of health services, socioeconomic factors, state laws or local ordinances, and reimbursement for preventive screening.

Obesity and overweight increase the risks for morbidity from hypertension, diabetes, coronary heart disease, stroke, arthritis, and different cancers among other conditions (5). BRFSS data indicate that obesity and overweight continue to be problems in the United States and that no state had met the Healthy People 2010 objective of reducing obesity to 15%. As a result, programs are needed to prevent and control overweight and obesity at the state, city, and county levels.

Lack of physical activity is another behavior that increases the risk for chronic diseases. The prevalence of no leisure-time physical activity varies at state, selected MMSA, and their county levels. Therefore, to increase physical activity, communities should develop comprehensive programs that include activities suitable for their local context and new population characteristics (4).

Cigarette smoking also causes substantial morbidity and mortality in the United States (2). Despite local tobacco-control programs and the decline in cigarette smoking during 1991–2001, the prevalence of cigarette smoking continues to be high in certain states, selected MMSA, and their counties. Therefore, continued comprehensive smoking cessation efforts are needed (11). Binge drinking leads to serious health consequences, and excessive alcohol use is associated with health conditions such as liver diseases, hypertension, heart disease, stroke, and motor vehicle accidents (3). In 2002, more adults reported binge drinking than being at risk for chronic



drinking. BRFSS data indicate a need to develop special targeted interventions to prevent alcohol-related health consequences at both the individual and community level (3).

Colon cancer is the second leading cause of cancer deaths in the United States. In 2003, an estimated 147,500 new cases of colon cancer will be diagnosed in the United States, and 57,100 persons will die of the disease (12). Early detection of colon cancer might result in initiation of treatment in the early stages of the disease (13). Two tests used to screen for colorectal cancer are the sigmoidoscopy or colonoscopy and use of a home administered fecal occult blood test (FOTB).

Pneumonia and influenza are important causes of morbidity and mortality among the elderly. In 2002, none of the states, MMSA, or counties met the Healthy People 2010 objective of 90% vaccination coverage against these illnesses for persons aged  $\geq 65$  years.

BRFSS addresses multiple screening practices for women's health. Pap smears and mammograms are conducted routinely to screen women for cervical and breast cancers. In 2002, an estimated 13,000 new cases of cervical cancer will be diagnosed, and 4,100 women will die. In addition, an estimated 203,500 new cases of invasive breast cancer will be diagnosed, and 40,000 women will die of the disease (12). Early detection and treatment can lead to decreases in associated morbidity and mortality from these two conditions. The findings in this report indicate that, in 2002, a high proportion of women aged  $\geq 18$  years reported ever having had a Pap smear test during the preceding 3 years (median 95%). In addition, breast cancer screening for women aged  $\geq 40$  years was high (median 76%).

The findings in this report are subject to at least two limitations. First, BRFSS is a telephone-based survey and misses that segment of the population without telephones. Second, data are self-reported and, for certain behaviors, prevalence estimates might be underestimated. Despite these limitations, BRFSS is a cost-effective and timely telephone survey at the state and local levels.

The reliability and validity of BRFSS data has been assessed and tested through comparison with data from a similar survey (8). Despite the challenges to the BRFSS system, which include the needs of numerous programs that use BRFSS data and adopting new methods of data collection in response to changing telecommunication technology, the growth in BRFSS sample size facilitates production of selected metropolitan/

micropolitan areas risk trends. BRFSS data helps guide health promotion activities at the state and local level.

Variations in the prevalence of selected health behaviors were observed when local areas were compared with their surrounding areas and with the rest of the state. This variation reflects differences in the composition of the populations, availability of health services, and socioeconomic factors. Although certain states, cities, and counties have achieved progress toward the 2010 national health objectives, others remain below the targets. Therefore, data collected by BRFSS will enable local health department to plan their activities better, allocate their limited resources, and plan and direct their prevention efforts.

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**TABLE 1. Assessment of the national health objectives\* for 2010† using Behavioral Risk Factors Surveillance System (BRFSS) data for selected indicators**

Objective No.	Objective	Year 2010 target	Range for states	Range for cities <sup>§</sup>	Range for counties <sup>¶</sup>
19.2	Reduce the proportion of adults (aged $\geq 20$ years) who are obese	15%	16.5%–27.6%	12.8%–29.4%	11.8%–32.0%
22.1	Reduce the proportion of adults (aged $\geq 18$ years) who engage in no leisure-time physical activity	20%	15.0%–33.6%	13.8%–36.8%	11.4%–36.8%
27.1a	Reduce cigarette smoking by adults (aged $\geq 18$ years)	12%	16.4%–32.6%	13.8%–32.8%	10.9%–31.1%
26.11c	Reduce the proportion of adults (aged $\geq 18$ years) who engage in binge drinking during the preceding month	6%	7.9%–24.9%	8.2%–26.1%	6.6%–25.1%
3.12b	Increase the proportion of adults (aged $\geq 50$ years) who have ever received a sigmoidoscopy**	50%	39.2%–64.8%	30.7%–67.9%	30.7%–73.6%
3.12a	Increase the proportion of adults (aged $\geq 50$ years) who have received a fecal occult blood test during the preceding 2 years	50%	12.2%–33.4%	8.8%–44.2%	7.9%–44.2%
14.29a	Increase the proportion of adults (aged $\geq 65$ years) who are vaccinated annually against influenza	90%	57.0%–76.6%	55.8%–80.0%	56.2%–76.3%
14.29b	Increase the proportion of adults (aged $\geq 65$ years) who are vaccinated annually against pneumococcal disease.	90%	47.9%–72.5%	47.5%–74.8%	47.9%–73.1%
3.11a	Increase the proportion of women (aged $\geq 18$ years) who have ever received a Papanicolaou test	97%	89.7%–97.6%	89.1%–95.5%	93.3%–94.5%
3.13	Increase the proportion of women (aged $\geq 40$ years) who have received a mammogram within the preceding 2 years	70%	67.0%–85.4%	65.4%–85.8%	64.1%–87.1%

\* U.S. Department of Health and Human Services. Healthy people 2010: national health promotion and disease prevention objectives—full report with commentary. Washington, DC: U.S. Department of Health and Human Services, 2000.

† Certain objectives may differ slightly from BRFSS definitions.

§ Selected metropolitan statistical areas from the 50 states collecting BRFSS data.

¶ Selected counties from the 50 states collecting BRFSS data.

\*\* The BRFSS question asks whether a respondent had sigmoidoscopy or colonoscopy.

**TABLE 2. Estimated prevalence of persons who are overweight\* — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	2,986	62.7	1.1	(60.5–64.9)
Alaska	2,608	61.1	1.5	(58.2–64.0)
Arizona	3,112	56.2	1.4	(53.5–58.9)
Arkansas	3,753	60.9	0.9	(59.1–62.7)
California	4,084	56.7	1.0	(54.7–58.7)
Colorado	3,909	53.5	0.9	(51.7–55.3)
Connecticut	5,183	55.0	0.9	(53.2–56.8)
Delaware	3,809	58.6	1.2	(56.2–61.0)
District of Columbia	2,286	52.7	1.4	(50.0–55.4)
Florida	5,825	57.0	0.8	(55.4–58.6)
Georgia	4,845	58.9	0.9	(57.1–60.7)
Hawaii	5,819	53.1	0.9	(51.3–54.9)
Idaho	4,823	57.3	0.9	(55.5–59.1)
Illinois	4,962	59.3	0.8	(57.7–60.9)
Indiana	5,526	61.3	0.8	(59.7–62.9)
Iowa	3,508	61.2	1.0	(59.2–63.2)
Kansas	4,366	60.2	0.9	(58.4–62.0)
Kentucky	6,679	62.5	1.0	(60.5–64.5)
Louisiana	4,777	61.1	0.8	(59.5–62.7)
Maine	2,311	58.6	1.2	(56.2–61.0)
Maryland	4,188	57.9	1.0	(55.9–59.9)
Massachusetts	6,945	54.6	0.8	(53.0–56.2)
Michigan	5,736	62.2	0.8	(60.6–63.8)
Minnesota	4,380	58.9	0.9	(57.1–60.7)
Mississippi	3,887	63.1	1.0	(61.1–65.1)
Missouri	4,546	60.2	1.0	(58.2–62.2)
Montana	3,842	56.6	1.1	(54.4–58.8)
Nebraska	4,139	60.2	0.9	(58.4–62.0)
Nevada	2,987	58.9	1.3	(56.4–61.4)
New Hampshire	4,765	56.3	0.8	(54.7–57.9)
New Jersey	5,769	56.3	1.4	(53.6–59.0)
New Mexico	4,488	56.4	0.9	(54.6–58.2)
New York	4,248	57.3	0.9	(55.5–59.1)
North Carolina	6,308	59.0	1.0	(57.0–61.0)
North Dakota	2,862	61.6	1.1	(59.4–63.8)
Ohio	3,848	58.7	1.0	(56.7–60.7)
Oklahoma	6,461	58.7	0.8	(57.1–60.3)
Oregon	2,936	57.2	1.1	(55.0–59.4)
Pennsylvania	12,877	59.6	0.6	(58.4–60.8)
Rhode Island	3,605	56.1	1.0	(54.1–58.1)
South Carolina	4,319	61.4	1.0	(59.4–63.4)
South Dakota	4,574	60.6	0.9	(58.8–62.4)
Tennessee	3,073	61.3	1.0	(59.3–63.3)
Texas	5,734	62.8	0.8	(61.2–64.4)
Utah	3,955	53.6	1.1	(51.4–55.8)
Vermont	4,050	54.5	0.9	(52.7–56.3)
Virginia	4,173	58.8	1.1	(56.6–61.0)
Washington	4,674	58.9	0.9	(57.1–60.7)
West Virginia	3,212	63.7	1.0	(61.7–65.7)
Wisconsin	4,156	57.9	0.9	(56.1–59.7)
Wyoming	3,442	55.9	1.0	(53.9–57.9)
Guam	809	61.4	2.0	(57.5–65.3)
Puerto Rico	3,941	61.6	1.0	(59.6–63.6)
Virgin Islands	2,187	63.5	1.3	(61.0–66.0)

**Summary:** Number of participants = 54; median: 58.9; range: 52.7–63.7.

\* Body mass index  $\geq 25.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

**TABLE 3. Estimated prevalence of persons who are overweight\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	504	57.7	2.7	(52.4–62.9)
Albuquerque, NM	1,258	54.3	1.7	(51.0–57.6)
Anchorage, AK	497	60.9	2.6	(55.8–65.9)
Asheville, NC	773	57.2	2.4	(52.5–61.8)
Atlanta-Sandy Springs-Marietta, GA	1,805	55.7	1.5	(52.9–58.6)
Baltimore-Towson, MD	1,587	58.1	1.5	(55.2–61.0)
Baton Rouge, LA	707	58.0	2.2	(53.7–62.3)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	852	50.1	2.2	(45.9–54.3)
Birmingham-Hoover, AL	783	62.0	2.1	(58.0–66.1)
Boise City-Nampa, ID	1,153	56.2	1.8	(52.7–59.7)
Boston-Quincy, MA Metropolitan Division	1,850	51.2	1.5	(48.3–54.1)
Bridgeport-Stamford-Norwalk, CT	957	52.2	1.9	(48.5–55.8)
Burlington-South Burlington, VT	1,171	50.8	1.7	(47.5–54.2)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,354	51.8	1.6	(48.6–55.0)
Chambersburg, PA	1,250	62.3	2.1	(58.1–66.5)
Charleston, WV	554	63.6	2.3	(59.1–68.0)
Cheyenne, WY	549	58.6	2.4	(54.0–63.2)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,573	58.3	1.2	(56.0–60.6)
Cincinnati-Middletown, OH-KY-IN	817	58.2	2.8	(52.8–63.6)
Columbia, SC	492	64.3	2.5	(59.3–69.2)
Concord, NH	565	57.5	2.4	(52.8–62.2)
Dallas-Plano-Irving, TX Metropolitan Division	824	63.6	2.0	(59.6–67.5)
Dayton, OH	563	55.1	3.1	(49.1–61.2)
Denver-Aurora, CO	1,809	54.5	1.4	(51.8–57.2)
Des Moines, IA	601	57.8	2.3	(53.2–62.3)
Detroit-Livonia-Dearborn, MI Metropolitan Division	678	64.6	2.2	(60.3–69.0)
Dover, DE	1,238	60.0	1.9	(56.4–63.7)
Durham, NC	595	53.6	4.6	(44.7–62.5)
Edison, NJ Metropolitan Division	1,969	58.0	2.1	(53.8–62.2)
Essex County, MA Metropolitan Division	724	56.8	2.3	(52.2–61.3)
Fargo, ND-MN	545	57.8	3.1	(51.8–63.8)
Florence, SC	838	64.3	2.1	(60.2–68.4)
Greensboro-High Point, NC	820	57.1	2.5	(52.2–62.1)
Hartford-West Hartford-East Hartford, CT	1,937	57.5	1.4	(54.8–60.3)
Hilo, HI	1,337	55.2	1.6	(52.1–58.4)
Honolulu, HI	2,724	52.5	1.1	(50.3–54.7)
Houston-Baytown-Sugar Land, TX	1,085	61.7	1.8	(58.2–65.1)
Huntington-Ashland, WV-KY-OH	552	62.0	3.1	(56.0–67.9)
Indianapolis, IN	1,225	62.2	1.6	(59.0–65.3)
Jackson, MS	665	61.2	2.3	(56.8–65.6)
Jacksonville, FL	546	58.6	2.6	(53.5–63.7)
Kahului-Wailuku, HI	1,179	53.4	1.8	(50.0–56.8)
Kansas City, MO-KS	1,801	59.4	1.5	(56.4–62.3)
Kapaa, HI	579	56.9	2.4	(52.2–61.6)
Lancaster, PA	1,177	59.7	1.6	(56.5–62.8)
Las Vegas-Paradise, NV	997	59.5	1.8	(56.0–63.0)
Lebanon, NH-VT	995	54.8	1.9	(51.0–58.6)
Lincoln, NE	621	57.6	2.7	(52.2–62.9)
Little Rock-North Little Rock, AR	853	59.7	2.0	(55.9–63.6)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	956	56.8	2.0	(53.0–60.7)
Louisville, KY-IN	860	64.2	2.3	(59.8–68.6)
Manchester-Nashua, NH	1,328	57.4	1.6	(54.4–60.5)
Memphis, TN-MS-AR	792	66.4	2.2	(62.1–70.6)
Miami-Miami Beach-Kendall, FL Metropolitan Division	675	57.2	2.3	(52.7–61.8)
Milwaukee-Waukesha-West Allis, WI	1,360	55.5	1.9	(51.8–59.2)
Minneapolis-St. Paul-Bloomington, MN-WI	2,488	57.4	1.2	(55.2–59.7)
Nashville-Davidson-Murfreesboro, TN	691	57.0	2.2	(52.6–61.3)
Newark-Union, NJ-PA Metropolitan Division	1,281	58.2	2.7	(53.0–63.4)
New Haven-Milford, CT	935	52.8	2.0	(48.9–56.6)
New Orleans-Metairie-Kenner, LA	1,233	57.1	1.7	(53.8–60.5)

**TABLE 3. (Continued) Estimated prevalence of persons who are overweight\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,394	54.0	1.4	(51.3–56.6)
Norwich-New London, CT	484	60.1	2.5	(55.2–65.0)
Ogden-Clearfield, UT	517	54.9	2.5	(50.0–59.8)
Oklahoma City, OK	1,851	57.2	1.4	(54.5–60.0)
Omaha-Council Bluffs, NE-IA	1,612	60.4	1.5	(57.5–63.3)
Orlando, FL	531	53.4	2.5	(48.6–58.3)
Philadelphia, PA Metropolitan Division	3,061	56.7	1.2	(54.3–59.0)
Phoenix-Mesa-Scottsdale, AZ	1,004	57.2	2.0	(53.2–61.2)
Pittsburgh, PA	2,997	61.2	1.3	(58.7–63.8)
Portland-South Portland, ME	791	54.8	2.0	(50.9–58.7)
Portland-Vancouver-Beaverton, OR-WA	1,504	56.8	1.6	(53.8–59.8)
Providence-New Bedford-Fall River, RI-MA	4,311	57.3	1.0	(55.4–59.2)
Rapid City, SD	541	55.3	2.7	(50.1–60.6)
Reno-Sparks, NV	1,004	55.9	1.8	(52.4–59.5)
Richmond, VA	629	63.4	2.3	(59.0–67.8)
Rockingham County-Strafford County, NH Metropolitan Division	1,423	54.4	1.5	(51.4–57.3)
St. Louis, MO-IL	979	60.1	1.8	(56.5–63.7)
Salt Lake City, UT	1,511	53.6	1.7	(50.2–56.9)
Seaford, DE	1,306	63.4	1.5	(60.4–66.3)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,775	53.2	1.5	(50.4–56.1)
Sioux Falls, SD	1,054	60.7	1.7	(57.3–64.1)
Springfield, MA	907	57.3	2.2	(53.1–61.6)
Suffolk County-Nassau County, NY Metropolitan Division	550	59.6	2.4	(54.9–64.3)
Tacoma, WA Metropolitan Division	485	61.5	2.7	(56.1–66.8)
Tampa-St. Petersburg-Clearwater, FL	822	55.7	2.1	(51.6–59.8)
Toledo, OH	516	63.4	3.1	(57.3–69.6)
Topeka, KS	487	65.1	2.4	(60.4–69.8)
Tucson, AZ	701	50.8	2.3	(46.3–55.3)
Tulsa, OK	1,507	56.7	1.6	(53.6–59.7)
Virginia Beach-Norfolk-Newport News, VA-NC	888	59.0	2.2	(54.8–63.3)
Warren-Farmington Hills-Troy, MI Metropolitan Division	895	57.4	1.9	(53.7–61.1)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	3,813	54.6	2.0	(50.6–58.5)
Wichita, KS	816	59.4	2.0	(55.4–63.3)
Willimantic, CT	486	59.8	2.8	(54.4–65.2)
Wilmington, DE-MD-NJ Metropolitan Division	1,397	57.5	1.8	(54.0–61.0)
Winston-Salem, NC	486	62.3	3.0	(56.4–68.1)
Worcester, MA	1,002	58.3	2.0	(54.3–62.2)
Youngstown-Warren-Boardman, OH-PA	610	64.0	3.4	(57.2–70.7)

**Summary:** Number of participants = 98; median: 57.5; mean: 58.0; range: 50.1–66.4.

\* Body mass index  $\geq 25.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

**TABLE 4. Estimated prevalence of persons who are overweight\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	467	59.1	2.7	(53.8–64.3)
Anchorage Municipality, Alaska	407	58.8	2.9	(53.1–64.5)
Maricopa County, Arizona	836	56.9	2.2	(52.7–61.1)
Pima County, Arizona	701	50.8	2.3	(46.3–55.3)
Pulaski County, Arkansas	511	62.4	2.4	(57.6–67.2)
Los Angeles County, California	956	56.8	2.0	(53.0–60.7)
Adams County, Colorado	296	60.1	3.4	(53.6–66.7)
Arapahoe County, Colorado	428	57.9	2.7	(52.6–63.1)
Denver County, Colorado	438	52.0	2.8	(46.5–57.5)
Jefferson County, Colorado	453	49.1	2.9	(43.5–54.7)
Fairfield County, Connecticut	957	52.2	1.9	(48.5–55.8)
Hartford County, Connecticut	1,020	59.3	1.8	(55.7–62.8)
Middlesex County, Connecticut	438	53.5	2.7	(48.2–58.7)
Tolland County, Connecticut	479	55.0	2.9	(49.4–60.6)
New Haven County, Connecticut	935	52.8	2.0	(48.9–56.6)
New London County, Connecticut	484	60.1	2.5	(55.2–65.0)
Windham County, Connecticut	486	59.8	2.8	(54.4–65.2)
Kent County, Delaware	1,238	60.0	1.9	(56.4–63.7)
Sussex County, Delaware	1,306	63.4	1.5	(60.4–66.3)
New Castle County, Delaware	1,265	56.7	1.7	(53.3–60.1)
District of Columbia	2,286	52.8	1.4	(49.9–55.6)
Duval County, Florida	342	56.9	3.3	(50.5–63.4)
Miami-Dade County, Florida	675	57.2	2.3	(52.7–61.8)
Orange County, Florida	284	51.2	3.4	(44.5–57.9)
Hillsborough County, Florida	295	52.2	3.7	(45.1–59.4)
Pinellas County, Florida	342	57.1	3.1	(51.1–63.1)
Cobb County, Georgia	241	48.9	3.7	(41.6–56.2)
DeKalb County, Georgia	240	51.7	4.3	(43.3–60.1)
Fulton County, Georgia	267	55.9	3.6	(48.8–62.9)
Hawaii County, Hawaii	1,337	55.2	1.6	(52.1–58.4)
Honolulu County, Hawaii	2,724	52.5	1.1	(50.3–54.7)
Maui County, Hawaii	1,179	53.4	1.8	(50.0–56.8)
Kauai County, Hawaii	579	56.9	2.4	(49.5–58.6)
Canyon County, Idaho	432	59.0	2.8	(53.6–64.4)
Cook County, Illinois	1,708	59.6	1.4	(56.7–62.4)
DuPage County, Illinois	332	54.1	3.1	(48.0–60.2)
Marion County, Indiana	612	64.1	2.2	(59.7–68.5)
Polk County, Iowa	436	56.3	2.7	(51.0–61.6)
Shawnee County, Kansas	385	64.9	2.7	(59.7–70.1)
Sedgwick County, Kansas	627	59.0	2.2	(54.7–63.3)
Jefferson County, Kentucky	384	64.2	3.3	(57.7–70.6)
East Baton Rouge Parish, Louisiana	381	54.5	3.0	(48.6–60.3)
Jefferson Parish, Louisiana	362	56.3	3.0	(50.4–62.2)
Orleans Parish, Louisiana	470	58.3	2.6	(53.2–63.4)
St. Tammany Parish, Louisiana	229	50.1	4.3	(41.6–58.5)
Cumberland County, Maine	461	49.7	2.7	(44.5–54.9)
York County, Maine	274	62.2	3.3	(55.7–68.6)
Anne Arundel County, Maryland	339	60.0	3.0	(54.1–66.0)
Baltimore County, Maryland	477	55.5	2.6	(50.4–60.5)
Baltimore city, Maryland	313	61.1	3.4	(54.3–67.8)
Frederick County, Maryland	265	61.3	3.6	(54.4–68.3)
Montgomery County, Maryland	587	47.1	2.5	(42.2–52.0)
Norfolk County, Massachusetts	493	48.9	2.6	(43.8–53.9)
Plymouth County, Massachusetts	380	56.7	2.9	(51.1–62.3)
Suffolk County, Massachusetts	977	49.6	2.2	(45.4–53.9)
Middlesex County, Massachusetts	1,354	51.8	1.6	(48.6–55.0)
Essex County, Massachusetts	724	56.8	2.3	(52.2–61.3)
Hampden County, Massachusetts	677	59.9	2.6	(54.8–65.0)
Worcester County, Massachusetts	1,002	58.3	2.0	(54.3–62.2)
Wayne County, Michigan	678	64.6	2.2	(60.3–69.0)

**TABLE 4. (Continued) Estimated prevalence of persons who are overweight\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Macomb County, Michigan	272	57.1	3.4	(50.4–63.7)
Oakland County, Michigan	459	55.4	2.7	(50.2–60.6)
Anoka County, Minnesota	244	61.2	3.6	(54.2–68.1)
Dakota County, Minnesota	313	62.6	3.1	(56.6–68.6)
Hennepin County, Minnesota	967	54.5	1.8	(50.9–58.1)
Ramsey County, Minnesota	401	55.7	2.8	(50.1–61.2)
Hinds County, Mississippi	328	63.6	3.1	(57.5–69.7)
Jackson County, Missouri	393	59.4	2.8	(53.9–64.9)
Johnson County, Kansas	706	54.2	2.1	(50.2–58.3)
St. Louis County, Missouri	327	57.7	3.1	(51.6–63.7)
Lancaster County, Nebraska	581	57.6	2.8	(52.1–63.0)
Douglas County, Nebraska	965	56.8	1.9	(53.1–60.5)
Sarpy County, Nebraska	271	63.0	3.4	(56.3–69.6)
Clark County, Nevada	997	59.5	1.8	(56.0–63.0)
Washoe County, Nevada	993	56.2	1.8	(52.6–59.7)
Merrimack County, New Hampshire	565	57.5	2.4	(52.8–62.2)
Grafton County, New Hampshire	367	56.2	3.1	(50.2–62.2)
Orange County, Vermont	234	59.2	3.6	(52.2–66.2)
Windsor County, Vermont	394	52.9	2.8	(47.3–58.4)
Hillsborough County, New Hampshire	1,328	57.4	1.6	(54.4–60.5)
Rockingham County, New Hampshire	994	53.4	1.8	(49.9–56.9)
Strafford County, New Hampshire	429	56.9	2.8	(51.3–62.4)
Monmouth County, New Jersey	239	N/A <sup>†</sup>	N/A	N/A
Somerset County, New Jersey	493	54.8	3.7	(47.6–61.9)
Essex County, New Jersey	406	53.4	4.8	(44.0–62.8)
Morris County, New Jersey	450	58.4	4.4	(49.8–67.0)
Bernalillo County, New Mexico	839	52.4	2.0	(48.5–56.4)
Sandoval County, New Mexico	223	57.9	4.0	(50.1–65.7)
Bergen County, New Jersey	1,189	52.8	2.6	(47.7–57.9)
Kings County, New York	394	61.0	3.0	(55.1–67.0)
Queens County, New York	293	52.5	3.4	(45.8–59.3)
Suffolk County, New York	309	64.4	3.1	(58.4–70.4)
Buncombe County, North Carolina	390	57.7	3.0	(51.8–63.5)
Henderson County, North Carolina	317	54.8	3.8	(47.5–62.2)
Orange County, North Carolina	420	46.5	4.0	(38.7–54.3)
Guilford County, North Carolina	391	55.3	3.1	(49.2–61.4)
Randolph County, North Carolina	399	56.8	3.4	(50.2–63.4)
Forsyth County, North Carolina	443	60.4	2.7	(55.2–65.6)
Cass County, North Dakota	499	60.7	2.5	(55.7–65.6)
Summit County, Ohio	459	55.5	2.6	(50.4–60.6)
Montgomery County, Ohio	479	58.3	2.6	(53.1–63.4)
Lucas County, Ohio	462	63.8	2.5	(58.9–68.8)
Mahoning County, Ohio	473	53.7	3.0	(47.8–59.7)
Cleveland County, Oklahoma	307	50.0	3.5	(43.2–56.8)
Oklahoma County, Oklahoma	1,068	57.2	1.8	(53.6–60.7)
Tulsa County, Oklahoma	963	55.7	2.1	(51.7–59.7)
Clackamas County, Oregon	274	60.2	3.4	(53.6–66.8)
Clark County, Washington	272	63.7	3.7	(56.5–70.9)
Multnomah County, Oregon	520	53.2	2.6	(48.0–58.3)
Washington County, Oregon	335	54.8	3.2	(48.5–61.1)
Franklin County, Pennsylvania	1,250	62.3	2.1	(58.1–66.5)
Lancaster County, Pennsylvania	1,177	59.7	1.6	(56.5–62.8)
Bucks County, Pennsylvania	351	60.4	2.9	(54.7–66.1)
Chester County, Pennsylvania	1,197	53.9	1.8	(50.5–57.4)
Delaware County, Pennsylvania	332	53.4	3.3	(47.0–59.8)
Montgomery County, Pennsylvania	496	53.7	2.6	(48.7–58.8)
Philadelphia County, Pennsylvania	685	58.7	2.2	(54.3–63.1)
Allegheny County, Pennsylvania	911	59.3	1.9	(55.6–63.1)
Armstrong County, Pennsylvania	1,291	66.0	3.1	(59.9–72.1)
Westmoreland County, Pennsylvania	282	66.7	3.1	(60.6–72.7)



**TABLE 4. (Continued) Estimated prevalence of persons who are overweight\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Bristol County, Massachusetts	706	60.2	2.3	(55.7–64.7)
Kent County, Rhode Island	522	58.2	2.4	(53.5–62.9)
Providence County, Rhode Island	2,196	56.9	1.3	(54.5–59.4)
Washington County, Rhode Island	443	53.4	2.7	(48.1–58.7)
Richland County, South Carolina	238	64.0	3.7	(56.7–71.3)
Darlington County, South Carolina	308	67.2	2.9	(61.4–73.0)
Florence County, South Carolina	530	64.3	2.7	(59.0–69.7)
Pennington County, South Dakota	416	54.0	3.1	(48.0–60.0)
Minnehaha County, South Dakota	798	60.9	2.0	(56.9–64.8)
Shelby County, Tennessee	458	67.2	2.6	(62.2–72.2)
Davidson County, Tennessee	297	54.8	3.3	(48.3–61.4)
Dallas County, Texas	502	65.6	2.6	(60.5–70.7)
Harris County, Texas	733	59.8	2.2	(55.5–64.1)
Davis County, Utah	251	54.0	3.5	(47.1–60.9)
Weber County, Utah	258	56.0	3.5	(49.1–62.9)
Salt Lake County, Utah	1,002	53.6	1.8	(50.0–57.2)
Tooele County, Utah	257	60.9	3.6	(53.9–68.0)
Chittenden County, Vermont	839	47.9	2.0	(43.9–51.9)
Franklin County, Vermont	281	59.1	3.2	(52.8–65.4)
King County, Washington	1,322	52.0	1.7	(48.7–55.3)
Snohomish County, Washington	453	56.0	2.9	(50.2–61.7)
Pierce County, Washington	485	61.5	2.7	(56.1–66.8)
Kanawha County, West Virginia	363	60.4	2.9	(54.7–66.0)
Milwaukee County, Wisconsin	1,064	56.4	2.3	(52.0–60.9)
Laramie County, Wyoming	549	58.6	2.4	(54.0–63.2)

**Summary:** Number of participants = 145; median: 56.9; mean: 57.2; range: 46.5–67.2.

\* Body mass index  $\geq 25.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

† Estimate not available (N/A) if the unweighted sample size for the denominator is <50 or the confidence interval half width is >10.

**TABLE 5. Estimated prevalence of persons who are obese\* — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	2,986	25.7	1.0	(23.7–27.7)
Alaska	2,608	23.4	1.3	(20.9–25.9)
Arizona	3,112	19.6	1.1	(17.4–21.8)
Arkansas	3,753	23.7	0.8	(22.1–25.3)
California	4,084	19.2	0.8	(17.6–20.8)
Colorado	3,909	16.5	0.7	(15.1–17.9)
Connecticut	5,183	18.0	0.7	(16.6–19.4)
Delaware	3,809	22.4	1.0	(20.4–24.4)
District of Columbia	2,286	20.7	1.3	(18.2–23.2)
Florida	5,825	19.4	0.6	(18.2–20.6)
Georgia	4,845	23.5	0.8	(21.9–25.1)
Hawaii	5,819	17.1	0.7	(15.7–18.5)
Idaho	4,823	20.2	0.7	(18.8–21.6)
Illinois	4,962	21.9	0.7	(20.5–23.3)
Indiana	5,526	24.1	0.7	(22.7–25.5)
Iowa	3,508	22.9	0.8	(21.3–24.5)
Kansas	4,366	22.8	0.7	(21.4–24.2)
Kentucky	6,679	24.4	0.9	(22.6–26.2)
Louisiana	4,777	25.5	0.8	(23.9–27.1)
Maine	2,311	20.7	0.9	(18.9–22.5)
Maryland	4,188	19.4	0.8	(17.8–21.0)
Massachusetts	6,945	18.3	0.6	(17.1–19.5)
Michigan	5,736	25.4	0.7	(24.0–26.8)
Minnesota	4,380	22.4	0.7	(21.0–23.8)
Mississippi	3,887	26.8	0.9	(25.0–28.6)
Missouri	4,546	23.2	0.8	(21.6–24.8)
Montana	3,842	18.7	0.9	(16.9–20.5)
Nebraska	4,139	23.2	0.8	(21.6–24.8)
Nevada	2,987	21.6	1.1	(19.4–23.8)
New Hampshire	4,765	17.9	0.6	(16.7–19.1)
New Jersey	5,769	19.0	1.1	(16.8–21.2)
New Mexico	4,488	19.7	0.7	(18.3–21.1)
New York	4,248	20.6	0.7	(19.2–22.0)
North Carolina	6,308	23.5	0.8	(21.9–25.1)
North Dakota	2,862	23.4	0.9	(21.6–25.2)
Ohio	3,848	23.0	0.8	(21.4–24.6)
Oklahoma	6,461	22.9	0.6	(21.7–24.1)
Oregon	2,936	20.3	0.8	(18.7–21.9)
Pennsylvania	12,877	23.9	0.5	(22.9–24.9)
Rhode Island	3,605	18.5	0.8	(16.9–20.1)
South Carolina	4,319	25.8	0.9	(24.0–27.6)
South Dakota	4,574	21.2	0.7	(19.8–22.6)
Tennessee	3,073	24.5	0.9	(22.7–26.3)
Texas	5,734	25.5	0.7	(24.1–26.9)
Utah	3,955	17.5	0.8	(15.9–19.1)
Vermont	4,050	18.9	0.7	(17.5–20.3)
Virginia	4,173	23.8	1.0	(21.8–25.8)
Washington	4,674	21.3	0.8	(19.7–22.9)
West Virginia	3,212	27.6	0.9	(25.8–29.4)
Wisconsin	4,156	21.6	0.8	(20.0–23.2)
Wyoming	3,442	19.5	0.8	(17.9–21.1)
Guam	809	23.8	1.8	(20.3–27.3)
Puerto Rico	3,941	22.0	0.8	(20.4–23.6)
Virgin Islands	2,187	24.9	1.2	(22.5–27.3)

**Summary:** Number of participants = 54; median: 22.2; range: 16.5–27.6.

\* Body mass index  $\geq 30.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

**TABLE 6. Estimated prevalence of persons who are obese\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	504	18.8	2.2	(14.4–23.1)
Albuquerque, NM	1,258	17.8	1.3	(15.1–20.4)
Anchorage, AK	497	22.9	2.4	(18.3–27.5)
Asheville, NC	773	21.9	2.0	(18.0–25.8)
Atlanta-Sandy Springs-Marietta, GA	1,805	20.9	1.3	(18.4–23.4)
Baltimore-Towson, MD	1,587	20.6	1.2	(18.2–22.9)
Baton Rouge, LA	707	21.5	1.9	(17.8–25.1)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	852	12.8	1.3	(10.2–15.4)
Birmingham-Hoover, AL	783	23.8	1.8	(20.3–27.3)
Boise City-Nampa, ID	1,153	19.3	1.3	(16.7–21.8)
Boston-Quincy, MA Metropolitan Division	1,850	17.7	1.1	(15.5–19.9)
Bridgeport-Stamford-Norwalk, CT	957	14.2	1.4	(11.5–16.9)
Burlington-South Burlington, VT	1,171	18.3	1.3	(15.8–20.8)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,354	15.0	1.1	(12.8–17.3)
Chambersburg, PA	1,250	24.3	1.8	(20.9–27.7)
Charleston, WV	554	29.4	2.3	(25.0–33.9)
Cheyenne, WY	549	20.6	2.0	(16.8–24.5)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,573	20.8	1.0	(18.9–22.7)
Cincinnati-Middletown, OH-KY-IN	817	24.7	2.3	(20.2–29.3)
Columbia, SC	492	25.3	2.4	(20.5–30.0)
Concord, NH	565	18.8	1.9	(15.0–22.6)
Dallas-Plano-Irving, TX Metropolitan Division	824	24.5	1.8	(20.9–28.1)
Dayton, OH	563	21.7	2.8	(16.1–27.3)
Denver-Aurora, CO	1,809	16.8	1.1	(14.7–18.8)
Des Moines, IA	601	22.3	1.9	(18.7–26.0)
Detroit-Livonia-Dearborn, MI Metropolitan Division	678	28.2	2.0	(24.3–32.2)
Dover, DE	1,238	22.5	1.4	(19.8–25.2)
Durham, NC	595	21.1	3.7	(13.8–28.3)
Edison, NJ Metropolitan Division	1,969	18.8	1.8	(15.2–22.4)
Essex County, MA Metropolitan Division	724	19.2	1.9	(15.4–23.0)
Fargo, ND-MN	545	21.9	2.3	(17.4–26.4)
Florence, SC	838	28.9	2.2	(24.5–33.2)
Greensboro-High Point, NC	820	23.0	2.3	(18.5–27.4)
Hartford-West Hartford-East Hartford, CT	1,937	20.2	1.3	(17.7–22.6)
Hilo, HI	1,337	19.2	1.3	(16.7–21.8)
Honolulu, HI	2,724	16.6	0.9	(14.9–18.3)
Houston-Baytown-Sugar Land, TX	1,085	23.4	1.5	(20.4–26.4)
Huntington-Ashland, WV-KY-OH	552	23.2	2.6	(18.2–28.3)
Indianapolis, IN	1,225	24.1	1.4	(21.2–26.9)
Jackson, MS	665	25.3	2.1	(21.3–29.4)
Jacksonville, FL	546	21.7	2.1	(17.6–25.8)
Kahului-Wailuku, HI	1,179	19.2	1.5	(16.3–22.0)
Kansas City, MO-KS	1,801	24.5	1.3	(21.9–27.1)
Kapaa, HI	579	14.6	1.8	(11.2–18.1)
Lancaster, PA	1,177	22.4	1.4	(19.8–25.1)
Las Vegas-Paradise, NV	997	22.7	1.6	(19.7–25.7)
Lebanon, NH-VT	995	18.8	1.5	(15.9–21.6)
Lincoln, NE	621	20.5	2.1	(16.5–24.6)
Little Rock-North Little Rock, AR	853	22.8	1.6	(19.6–25.9)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	956	19.2	1.5	(16.2–22.1)
Louisville, KY-IN	860	25.7	2.2	(21.3–30.1)
Manchester-Nashua, NH	1,328	18.7	1.2	(16.4–21.0)
Memphis, TN-MS-AR	792	27.5	2.2	(23.2–31.9)
Miami-Miami Beach-Kendall, FL Metropolitan Division	675	20.5	2.0	(16.6–24.4)
Milwaukee-Waukesha-West Allis, WI	1,360	18.8	1.4	(16.1–21.5)
Minneapolis-St. Paul-Bloomington, MN-WI	2,488	22.6	0.9	(20.8–24.5)
Nashville-Davidson-Murfreesboro, TN	691	21.2	1.8	(17.6–24.7)
Newark-Union, NJ-PA Metropolitan Division	1,281	23.6	2.4	(18.9–28.3)
New Haven-Milford, CT	935	17.8	1.4	(15.1–20.5)
New Orleans-Metairie-Kenner, LA	1,233	25.0	1.5	(22.1–27.9)

**TABLE 6. (Continued) Estimated prevalence of persons who are obese\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,394	18.9	1.1	(16.9–21.0)
Norwich-New London, CT	484	18.4	2.0	(14.5–22.3)
Ogden-Clearfield, UT	517	19.5	2.0	(15.5–23.5)
Oklahoma City, OK	1,851	21.7	1.1	(19.5–24.0)
Omaha-Council Bluffs, NE-IA	1,612	22.9	1.3	(20.4–25.3)
Orlando, FL	531	15.3	1.8	(11.7–18.9)
Philadelphia, PA Metropolitan Division	3,061	22.3	1.1	(20.2–24.3)
Phoenix-Mesa-Scottsdale, AZ	1,004	19.8	1.6	(16.6–23.0)
Pittsburgh, PA	2,997	24.6	1.2	(22.2–26.9)
Portland-South Portland, ME	791	16.9	1.5	(14.0–19.9)
Portland-Vancouver-Beaverton, OR-WA	1,504	20.2	1.2	(17.8–22.7)
Providence-New Bedford-Fall River, RI-MA	4,311	19.6	0.8	(18.0–21.1)
Rapid City, SD	541	18.6	2.1	(14.6–22.7)
Reno-Sparks, NV	1,004	18.9	1.4	(16.1–21.6)
Richmond, VA	629	24.3	2.0	(20.3–28.2)
Rockingham County-Strafford County, NH Metropolitan Division	1,423	16.4	1.1	(14.3–18.6)
St. Louis, MO-IL	979	24.2	1.5	(21.2–27.1)
Salt Lake City, UT	1,511	16.7	1.2	(14.3–19.1)
Seaford, DE	1,306	25.1	1.4	(22.4–27.7)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,775	16.9	1.0	(15.0–18.8)
Sioux Falls, SD	1,054	19.3	1.3	(16.7–21.8)
Springfield, MA	907	19.4	1.8	(15.8–23.0)
Suffolk County-Nassau County, NY Metropolitan Division	550	15.7	1.8	(12.1–19.2)
Tacoma, WA Metropolitan Division	485	23.1	2.5	(18.3–27.9)
Tampa-St. Petersburg-Clearwater, FL	822	17.5	1.6	(14.4–20.5)
Toledo, OH	516	29.4	3.1	(23.3–35.5)
Topeka, KS	487	27.0	2.3	(22.6–31.5)
Tucson, AZ	701	16.6	1.7	(13.3–20.0)
Tulsa, OK	1,507	21.3	1.3	(18.8–23.7)
Virginia Beach-Norfolk-Newport News, VA-NC	888	23.0	1.8	(19.5–26.5)
Warren-Farmington Hills-Troy, MI Metropolitan Division	895	21.2	1.5	(18.2–24.2)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	3,813	20.9	1.8	(17.4–24.3)
Wichita, KS	816	24.8	1.7	(21.4–28.3)
Willimantic, CT	486	24.4	2.4	(19.7–29.0)
Wilmington, DE-MD-NJ Metropolitan Division	1,397	20.7	1.5	(17.8–23.6)
Winston-Salem, NC	486	17.9	2.3	(13.4–22.4)
Worcester, MA	1,002	21.8	1.7	(18.5–25.2)
Youngstown-Warren-Boardman, OH-PA	610	26.6	3.6	(19.5–33.6)

**Summary:** Number of participants = 98; median: 21.0; mean: 21.1; range: 12.8–29.4.

\* Body mass index  $\geq 30.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

**TABLE 7. Estimated prevalence of persons who are obese\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample Size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	467	23.0	2.3	(18.5–27.5)
Anchorage Municipality, Alaska	407	21.1	2.6	(16.0–26.2)
Maricopa County, Arizona	836	19.0	1.7	(15.7–22.3)
Pima County, Arizona	701	16.6	1.7	(13.3–20.0)
Pulaski County, Arkansas	511	25.5	2.2	(11.2–29.8)
Los Angeles County, California	956	19.2	1.5	(16.2–22.1)
Adams County, Colorado	296	23.9	3.0	(18.0–29.9)
Arapahoe County, Colorado	428	14.8	1.9	(11.0–18.6)
Denver County, Colorado	438	17.7	2.2	(13.4–22.0)
Jefferson County, Colorado	453	14.1	1.9	(10.5–17.7)
Fairfield County, Connecticut	957	14.2	1.4	(11.5–16.9)
Hartford County, Connecticut	1,020	21.4	1.6	(18.2–24.5)
Middlesex County, Connecticut	438	17.9	2.1	(13.9–21.9)
Tolland County, Connecticut	479	16.6	2.2	(12.3–21.0)
New Haven County, Connecticut	935	17.8	1.4	(15.1–20.5)
New London County, Connecticut	484	18.4	2.0	(14.5–22.3)
Windham County, Connecticut	486	24.4	2.4	(19.7–29.0)
Kent County, Delaware	1,238	22.5	1.4	(19.8–25.2)
Sussex County, Delaware	1,306	25.1	1.4	(22.4–27.7)
New Castle County, Delaware	1,265	21.5	1.4	(18.7–24.3)
District of Columbia	2,286	20.7	1.4	(18.0–23.3)
Duval County, Florida	342	23.4	2.9	(17.7–29.0)
Miami-Dade County, Florida	675	20.5	2.0	(16.6–24.4)
Orange County, Florida	284	14.1	2.5	(9.1–19.0)
Hillsborough County, Florida	295	17.9	2.5	(13.1–22.7)
Pinellas County, Florida	342	16.4	2.4	(11.7–21.0)
Cobb County, Georgia	241	19.7	3.0	(13.8–25.6)
DeKalb County, Georgia	240	16.0	2.6	(10.9–21.1)
Fulton County, Georgia	267	24.1	3.2	(17.8–30.4)
Hawaii County, Hawaii	1,337	19.2	1.3	(16.7–21.8)
Honolulu County, Hawaii	2,724	16.6	0.9	(14.9–18.3)
Maui County, Hawaii	1,179	19.2	1.5	(16.3–22.0)
Kauai County, Hawaii	579	14.6	1.8	(11.2–18.1)
Ada County, Idaho	595	18.2	1.7	(14.8–21.6)
Canyon County, Idaho	432	22.8	2.2	(18.5–27.0)
Cook County, Illinois	1,708	20.9	1.2	(18.6–23.2)
DuPage County, Illinois	332	20.9	2.7	(15.6–26.2)
Marion County, Indiana	612	25.9	2.1	(21.8–30.0)
Polk County, Iowa	436	23.0	2.2	(18.8–27.3)
Shawnee County, Kansas	385	25.8	2.5	(21.0–30.6)
Sedgwick County, Kansas	627	24.4	1.9	(20.6–28.2)
Jefferson County, Kentucky	384	27.4	3.3	(13.5–22.6)
Jefferson Parish, Louisiana	362	24.4	2.7	(19.0–29.8)
Orleans Parish, Louisiana	470	26.7	2.4	(22.0–31.4)
St. Tammany Parish, Louisiana	229	19.0	3.1	(12.9–25.0)
Cumberland County, Maine	461	14.4	1.8	(10.9–17.9)
York County, Maine	274	20.0	2.8	(14.6–25.5)
Anne Arundel County, Maryland	339	25.4	2.8	(19.8–30.9)
Baltimore County, Maryland	477	15.6	1.8	(12.1–19.0)
Baltimore city, Maryland	313	22.4	2.7	(17.1–27.7)
Frederick County, Maryland	265	16.8	2.6	(11.8–21.8)
Montgomery County, Maryland	587	11.8	1.5	(8.8–14.8)
Norfolk County, Massachusetts	493	15.1	1.8	(11.6–18.7)
Plymouth County, Massachusetts	380	21.3	2.4	(16.6–26.1)
Suffolk County, Massachusetts	977	17.9	1.7	(14.6–21.3)
Middlesex County, Massachusetts	1,354	15.0	1.1	(12.8–17.3)
Essex County, Massachusetts	724	19.2	1.9	(15.4–23.0)
Hampden County, Massachusetts	677	19.1	2.2	(14.9–23.3)
Worcester County, Massachusetts	1,002	21.8	1.7	(18.5–25.2)
Wayne County, Michigan	678	28.2	2.0	(24.3–32.2)

**TABLE 7. (Continued) Estimated prevalence of persons who are obese\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample Size	%	Standard error	95% Confidence interval
Macomb County, Michigan	272	23.9	3.0	(18.0–29.9)
Oakland County, Michigan	459	18.3	2.0	(14.3–22.2)
Anoka County, Minnesota	244	25.0	3.1	(19.0–31.1)
Dakota County, Minnesota	313	26.5	2.9	(20.9–32.1)
Hennepin County, Minnesota	967	19.7	1.5	(16.8–22.5)
Ramsey County, Minnesota	401	26.2	2.4	(21.4–30.9)
Hinds County, Mississippi	328	24.4	2.8	(18.9–30.0)
Jackson County, Missouri	393	26.2	2.5	(21.3–31.1)
Johnson County, Kansas	706	17.1	1.6	(14.1–20.2)
St. Louis County, Missouri	327	20.1	2.4	(15.4–24.8)
Lancaster County, Nebraska	581	21.3	2.2	(17.0–25.5)
Douglas County, Nebraska	965	20.6	1.6	(17.5–23.7)
Sarpy County, Nebraska	271	26.2	3.1	(20.1–32.2)
Clark County, Nevada	997	22.7	1.6	(19.7–25.7)
Washoe County, Nevada	993	18.8	1.4	(16.0–21.6)
Merrimack County, New Hampshire	565	18.8	1.9	(15.0–22.6)
Grafton County, New Hampshire	367	17.4	2.3	(12.9–21.9)
Orange County, Vermont	234	23.2	3.1	(17.1–29.3)
Windsor County, Vermont	394	18.3	2.2	(14.0–22.5)
Hillsborough County, New Hampshire	1,328	18.7	1.2	(16.4–21.0)
Rockingham County, New Hampshire	994	16.5	1.3	(14.0–19.0)
Strafford County, New Hampshire	429	16.4	2.0	(12.5–20.3)
Monmouth County, New Jersey	239	13.4	3.5	(6.6–20.3)
Somerset County, New Jersey	493	15.2	2.0	(11.3–19.1)
Essex County, New Jersey	406	27.6	4.5	(8.7–36.4)
Morris County, New Jersey	450	20.3	4.0	(12.5–28.0)
Bernalillo County, New Mexico	839	16.7	1.6	(13.6–19.7)
Sandoval County, New Mexico	223	21.0	3.2	(14.6–27.3)
Bergen County, New Jersey	1,189	13.5	1.4	(10.9–16.2)
Kings County, New York	394	25.1	2.7	(19.8–30.3)
Queens County, New York	293	19.4	2.7	(14.1–24.7)
Suffolk County, New York	309	17.2	2.6	(12.2–22.3)
Buncombe County, North Carolina	390	22.7	2.6	(17.6–27.9)
Henderson County, North Carolina	317	17.6	2.7	(12.3–23.0)
Orange County, North Carolina	420	16.6	5.0	(6.7–26.5)
Guilford County, North Carolina	391	20.1	2.5	(15.3–25.0)
Randolph County, North Carolina	399	23.0	2.6	(17.9–28.1)
Forsyth County, North Carolina	443	20.0	2.2	(15.6–24.3)
Cass County, North Dakota	499	25.1	2.3	(20.6–29.5)
Summit County, Ohio	459	19.0	2.0	(15.0–22.9)
Montgomery County, Ohio	479	22.3	2.1	(18.3–26.4)
Lucas County, Ohio	462	28.9	2.5	(24.0–33.8)
Mahoning County, Ohio	473	23.0	2.3	(18.4–27.5)
Cleveland County, Oklahoma	307	16.1	2.4	(11.4–20.7)
Oklahoma County, Oklahoma	1,068	21.2	1.5	(18.2–24.1)
Tulsa County, Oklahoma	963	20.1	1.6	(17.1–23.1)
Clackamas County, Oregon	274	16.8	2.5	(11.9–21.7)
Clark County, Washington	272	27.8	3.5	(20.9–34.7)
Multnomah County, Oregon	520	18.6	2.0	(14.6–22.6)
Washington County, Oregon	335	18.2	2.2	(13.9–22.4)
Franklin County, Pennsylvania	1,250	24.3	1.8	(20.9–27.7)
Lancaster County, Pennsylvania	1,177	22.4	1.4	(19.8–25.1)
Bucks County, Pennsylvania	351	22.5	2.6	(17.5–27.5)
Chester County, Pennsylvania	1,197	15.1	1.2	(12.7–17.5)
Delaware County, Pennsylvania	332	22.9	2.7	(17.5–28.3)
Montgomery County, Pennsylvania	496	17.1	1.9	(13.3–20.8)
Philadelphia County, Pennsylvania	685	27.5	2.1	(23.3–31.7)
Allegheny County, Pennsylvania	911	26.0	1.7	(22.6–29.4)
Armstrong County, Pennsylvania	1,291	24.5	2.4	(19.8–29.2)
Westmoreland County, Pennsylvania	282	23.8	2.9	(18.1–29.5)

**TABLE 7. (Continued)** Estimated prevalence of persons who are obese\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002

County	Sample Size	%	Standard error	95% Confidence interval
Bristol County, Massachusetts	706	21.6	1.9	(17.9–25.3)
Kent County, Rhode Island	522	21.7	2.2	(17.4–25.9)
Providence County, Rhode Island	2,196	19.8	1.0	(17.8–21.7)
Washington County, Rhode Island	443	11.8	1.6	(8.6–15.0)
Richland County, South Carolina	238	23.9	3.6	(16.8–31.0)
Darlington County, South Carolina	308	24.9	2.8	(19.3–30.4)
Florence County, South Carolina	530	32.0	3.1	(25.9–38.1)
Pennington County, South Dakota	416	18.3	2.4	(13.6–22.9)
Minnehaha County, South Dakota	798	20.7	1.6	(21.5–32.0)
Davidson County, Tennessee	297	23.9	2.8	(18.4–29.5)
Dallas County, Texas	502	25.0	2.4	(20.4–29.7)
Harris County, Texas	733	23.5	1.9	(19.8–27.2)
Davis County, Utah	251	19.0	2.8	(13.4–24.5)
Weber County, Utah	258	19.9	2.9	(14.2–25.7)
Salt Lake County, Utah	1,002	16.6	1.3	(14.0–19.1)
Tooele County, Utah	257	24.9	3.0	(19.1–30.7)
Chittenden County, Vermont	839	16.9	1.5	(14.1–19.8)
Franklin County, Vermont	281	20.8	2.5	(15.9–25.7)
King County, Washington	1,322	15.1	1.1	(13.0–17.1)
Snohomish County, Washington	453	21.5	2.2	(17.2–25.8)
Pierce County, Washington	485	23.1	2.5	(18.3–27.9)
Kanawha County, West Virginia	363	27.5	2.7	(22.2–32.9)
Milwaukee County, Wisconsin	1,064	19.8	1.7	(16.5–23.0)
Laramie County, Wyoming	549	20.6	2.0	(16.8–24.5)

**Summary:** Number of participants = 146; median: 20.5; mean: 20.7; range: 11.8–32.0.

\* Body mass index  $\geq 30.0$  and  $\leq 99.8$  kg/m<sup>2</sup>.

**TABLE 8. Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	3,091	27.3	1.0	(25.3–29.3)
Alaska	2,692	22.4	1.3	(19.9–24.9)
Arizona	3,225	22.6	1.2	(20.2–25.0)
Arkansas	3,895	27.4	0.8	(25.8–29.0)
California	4,215	22.7	0.8	(21.1–24.3)
Colorado	4,052	19.3	0.8	(17.7–20.9)
Connecticut	5,558	22.0	0.7	(20.6–23.4)
Delaware	4,031	27.1	1.0	(25.1–29.1)
District of Columbia	2,405	20.9	1.1	(18.7–23.1)
Florida	6,140	27.9	0.7	(26.5–29.3)
Georgia	5,059	25.7	0.8	(24.1–27.3)
Hawaii	5,998	16.1	0.6	(14.9–17.3)
Idaho	5,035	19.3	0.7	(17.9–20.7)
Illinois	5,242	28.6	0.8	(27.0–30.2)
Indiana	5,787	27.5	0.7	(26.1–28.9)
Iowa	3,660	21.8	0.8	(20.2–23.4)
Kansas	4,601	22.5	0.7	(21.1–23.9)
Kentucky	7,062	26.6	0.8	(25.0–28.2)
Louisiana	5,027	33.5	0.8	(31.9–35.1)
Maine	2,434	25.8	1.0	(23.8–27.8)
Maryland	4,398	23.0	0.8	(21.4–24.6)
Massachusetts	7,425	20.8	0.6	(19.6–22.0)
Michigan	5,932	24.1	0.7	(22.7–25.5)
Minnesota	4,492	16.2	0.6	(15.0–17.4)
Mississippi	4,084	32.5	0.9	(30.7–34.3)
Missouri	4,728	26.5	0.9	(24.7–28.3)
Montana	4,033	19.2	0.8	(17.6–20.8)
Nebraska	4,380	22.0	0.8	(20.4–23.6)
Nevada	3,153	24.8	1.2	(22.4–27.2)
New Hampshire	5,038	19.9	0.6	(18.7–21.1)
New Jersey	6,170	26.0	1.2	(23.6–28.4)
New Mexico	4,671	23.0	0.8	(21.4–24.6)
New York	4,461	25.1	0.8	(23.5–26.7)
North Carolina	6,744	29.5	0.9	(27.7–31.3)
North Dakota	2,995	21.7	0.8	(20.1–23.3)
Ohio	4,090	25.4	0.8	(23.8–27.0)
Oklahoma	6,773	30.6	0.7	(29.2–32.0)
Oregon	3,073	17.9	0.8	(16.3–19.5)
Pennsylvania	13,479	24.4	0.5	(23.4–25.4)
Rhode Island	3,841	24.6	0.8	(23.0–26.2)
South Carolina	4,499	24.6	0.9	(22.8–26.4)
South Dakota	4,784	23.8	0.7	(22.4–25.2)
Tennessee	3,203	33.6	1.0	(31.6–35.6)
Texas	6,105	29.3	0.7	(27.9–30.7)
Utah	4,077	18.9	0.8	(17.3–20.5)
Vermont	4,237	18.3	0.6	(17.1–19.5)
Virginia	4,385	24.4	0.8	(22.8–26.0)
Washington	4,881	15.0	0.7	(13.6–16.4)
West Virginia	3,347	28.4	0.9	(26.6–30.2)
Wisconsin	4,355	20.0	0.7	(18.6–21.4)
Wyoming	3,545	20.4	0.8	(18.8–22.0)
Guam	831	24.6	1.8	(21.1–28.1)
Puerto Rico	4,118	46.8	1.0	(44.8–48.8)
Virgin Islands	2,277	30.7	1.2	(28.3–33.1)

**Summary:** Number of participants = 54; median: 24.4; range: 15.0–46.8.



**TABLE 9. Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	539	21.4	2.1	(17.3–25.4)
Albuquerque, NM	1,312	19.4	1.3	(16.8–21.9)
Anchorage, AK	509	24.1	2.4	(19.4–28.8)
Asheville, NC	823	28.7	2.1	(24.6–32.9)
Atlanta-Sandy Springs-Marietta, GA	1,891	21.3	1.3	(18.8–23.8)
Baltimore-Towson, MD	1,663	23.1	1.2	(20.7–25.5)
Baton Rouge, LA	741	30.4	2.0	(26.5–34.4)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	891	19.8	1.8	(16.4–23.3)
Birmingham-Hoover, AL	807	28.6	1.9	(25.0–32.3)
Boise City-Nampa, ID	1,214	17.5	1.2	(15.1–19.9)
Boston-Quincy, MA Metropolitan Division	1,986	21.0	1.2	(18.7–23.3)
Bridgeport-Stamford-Norwalk, CT	1,009	19.8	1.5	(16.9–22.6)
Burlington-South Burlington, VT	1,223	16.4	1.2	(14.2–18.7)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,426	17.9	1.2	(15.6–20.3)
Chambersburg, PA	1,311	23.5	1.7	(20.1–26.9)
Charleston, WV	578	27.7	2.1	(23.5–31.8)
Cheyenne, WY	559	18.4	1.9	(14.7–22.0)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,730	28.2	1.1	(26.2–30.3)
Cincinnati-Middletown, OH-KY-IN	849	21.5	2.0	(17.6–25.5)
Columbia, SC	517	22.6	2.2	(18.3–26.9)
Concord, NH	595	22.3	2.0	(18.4–26.3)
Dallas-Plano-Irving, TX Metropolitan Division	883	27.1	1.9	(23.3–30.9)
Dayton, OH	596	21.3	2.2	(17.0–25.6)
Denver-Aurora, CO	1,880	20.1	1.2	(17.7–22.4)
Des Moines, IA	626	22.2	1.9	(18.4–26.0)
Detroit-Livonia-Dearborn, MI Metropolitan Division	706	28.4	2.0	(24.4–32.4)
Dover, DE	1,300	29.2	1.5	(26.1–32.2)
Durham, NC	629	25.9	4.0	(18.0–33.8)
Edison, NJ Metropolitan Division	2,114	23.4	1.7	(20.0–26.7)
Essex County, MA Metropolitan Division	771	22.0	1.8	(18.4–25.6)
Fargo, ND-MN	575	20.8	2.6	(15.8–25.8)
Florence, SC	878	27.1	2.1	(23.1–31.2)
Greensboro-High Point, NC	889	28.2	2.3	(23.7–32.6)
Hartford-West Hartford-East Hartford, CT	2,084	21.4	1.3	(18.9–23.9)
Hilo, HI	1,379	17.8	1.2	(15.3–20.2)
Honolulu, HI	2,811	15.3	0.8	(13.8–16.9)
Houston-Baytown-Sugar Land, TX	1,164	27.9	1.6	(24.8–30.9)
Huntington-Ashland, WV-KY-OH	585	29.9	3.1	(23.8–36.1)
Indianapolis, IN	1,271	24.5	1.4	(21.8–27.2)
Jackson, MS	702	30.3	2.0	(26.3–34.3)
Jacksonville, FL	568	23.7	2.0	(19.8–27.7)
Kahului-Wailuku, HI	1,207	19.0	1.4	(16.3–21.8)
Kansas City, MO-KS	1,895	24.3	1.3	(21.8–26.9)
Kapaa, HI	601	17.2	1.9	(13.5–21.0)
Lancaster, PA	1,238	24.7	1.5	(21.8–27.5)
Las Vegas-Paradise, NV	1,059	26.9	1.7	(23.5–30.3)
Lebanon, NH-VT	1,044	16.3	1.3	(13.8–18.8)
Lincoln, NE	661	16.1	2.0	(12.2–19.9)
Little Rock-North Little Rock, AR	880	22.0	1.6	(19.0–25.0)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	984	28.0	1.8	(24.4–31.6)
Louisville, KY-IN	898	19.8	1.7	(16.5–23.1)
Manchester-Nashua, NH	1,402	21.4	1.2	(19.0–23.8)
Memphis, TN-MS-AR	826	31.8	2.1	(27.6–36.0)
Miami-Miami Beach-Kendall, FL Metropolitan Division	706	36.8	2.3	(32.3–41.2)
Milwaukee-Waukesha-West Allis, WI	1,419	21.5	1.4	(18.8–24.2)
Minneapolis-St. Paul-Bloomington, MN-WI	2,537	14.1	0.8	(12.6–15.6)
Nashville-Davidson-Murfreesboro, TN	720	29.5	2.0	(25.7–33.4)
Newark-Union, NJ-PA Metropolitan Division	1,376	23.4	2.3	(19.0–27.9)
New Haven-Milford, CT	1,012	26.9	1.7	(23.6–30.3)
New Orleans-Metairie-Kenner, LA	1,290	29.6	1.5	(26.7–32.4)

**TABLE 9. (Continued) Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,607	28.6	1.2	(26.3–31.0)
Norwich-New London, CT	510	19.2	2.2	(15.0–23.4)
Ogden-Clearfield, UT	535	22.2	2.1	(18.1–26.3)
Oklahoma City, OK	1,964	29.0	1.2	(26.6–31.5)
Omaha-Council Bluffs, NE-IA	1,701	22.7	1.2	(20.2–25.1)
Orlando, FL	558	23.3	2.0	(19.4–27.3)
Philadelphia, PA Metropolitan Division	3,182	24.3	1.1	(22.2–26.4)
Phoenix-Mesa-Scottsdale, AZ	1,041	23.1	1.7	(19.7–26.5)
Pittsburgh, PA	3,136	24.4	1.1	(22.3–26.6)
Portland-South Portland, ME	830	22.2	1.6	(18.9–25.4)
Portland-Vancouver-Beaverton, OR-WA	1,587	15.8	1.1	(13.6–17.9)
Providence-New Bedford-Fall River, RI-MA	4,596	24.6	0.8	(23.0–26.1)
Rapid City, SD	568	19.9	2.0	(15.9–23.8)
Reno-Sparks, NV	1,055	17.6	1.3	(15.0–20.1)
Richmond, VA	654	24.1	1.9	(20.4–27.9)
Rockingham County-Strafford County, NH Metropolitan Division	1,513	17.7	1.2	(15.4–19.9)
St. Louis, MO-IL	1,012	25.6	1.6	(22.6–28.6)
Salt Lake City, UT	1,562	18.2	1.3	(15.6–20.8)
Seaford, DE	1,386	31.0	1.5	(28.1–33.8)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,848	13.8	1.0	(11.8–15.7)
Sioux Falls, SD	1,098	23.0	1.6	(20.0–26.1)
Springfield, MA	977	23.6	1.8	(20.2–27.1)
Suffolk County-Nassau County, NY Metropolitan Division	576	21.1	1.9	(17.4–24.9)
Tacoma, WA Metropolitan Division	504	15.5	2.1	(11.4–19.5)
Tampa-St. Petersburg-Clearwater, FL	865	26.5	1.8	(22.9–30.1)
Toledo, OH	553	27.4	3.0	(21.4–33.3)
Topeka, KS	500	27.0	2.2	(22.6–31.4)
Tucson, AZ	729	18.0	1.6	(14.9–21.1)
Tulsa, OK	1,579	28.6	1.4	(25.8–31.3)
Virginia Beach-Norfolk-Newport News, VA-NC	933	23.7	1.7	(20.4–27.0)
Warren-Farmington Hills-Troy, MI Metropolitan Division	933	21.4	1.5	(18.4–24.3)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	4,019	19.8	1.3	(17.3–22.3)
Wichita, KS	867	22.2	1.6	(19.0–25.4)
Willimantic, CT	536	20.5	2.0	(16.6–24.3)
Wilmington, DE-MD-NJ Metropolitan Division	1,488	28.5	1.7	(25.2–31.7)
Winston-Salem, NC	509	26.3	2.7	(20.9–31.6)
Worcester, MA	1,083	22.2	1.6	(19.1–25.4)
Youngstown-Warren-Boardman, OH-PA	640	26.5	3.3	(20.1–32.8)

**Summary:** Number of participants = 98; median: 23.0; mean: 23.2; range: 13.8–36.8.

**TABLE 10. Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample Size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	485	29.5	2.5	(24.7–34.3)
Anchorage Municipality, Alaska	416	22.3	2.6	(17.2–27.4)
Maricopa County, Arizona	869	22.5	1.8	(18.9–26.0)
Pima County, Arizona	729	18.0	1.6	(14.9–21.1)
Pulaski County, Arkansas	529	19.8	1.9	(16.0–23.6)
Los Angeles County, California	984	28.0	1.8	(24.4–31.6)
Adams County, Colorado	305	22.9	2.9	(17.1–28.6)
Arapahoe County, Colorado	439	16.8	2.1	(12.7–20.8)
Denver County, Colorado	466	24.3	2.5	(19.3–29.2)
Jefferson County, Colorado	468	17.5	2.3	(13.1–22.0)
Fairfield County, Connecticut	1,009	19.8	1.5	(16.9–22.6)
Hartford County, Connecticut	1,102	23.3	1.7	(20.1–26.6)
Middlesex County, Connecticut	471	16.0	2.0	(12.1–20.0)
Tolland County, Connecticut	511	17.4	2.1	(13.2–21.6)
New Haven County, Connecticut	1,012	26.9	1.7	(23.6–30.3)
New London County, Connecticut	510	19.2	2.2	(15.0–23.4)
Windham County, Connecticut	536	20.5	2.0	(16.6–24.3)
Kent County, Delaware	1,300	29.2	1.5	(26.1–32.2)
Sussex County, Delaware	1,386	31.0	1.5	(28.1–33.8)
New Castle County, Delaware	1,345	25.4	1.5	(22.5–28.3)
District of Columbia	2,405	20.9	1.1	(18.7–23.1)
Duval County, Florida	356	26.5	2.7	(21.2–31.7)
Miami-Dade County, Florida	706	36.8	2.3	(32.3–41.2)
Orange County, Florida	301	24.7	2.8	(19.1–30.2)
Hillsborough County, Florida	316	27.8	3.4	(21.0–34.5)
Pinellas County, Florida	356	24.3	2.5	(19.4–29.1)
Cobb County, Georgia	252	18.3	3.0	(12.4–24.3)
DeKalb County, Georgia	252	23.2	3.8	(15.7–30.8)
Fulton County, Georgia	278	20.3	2.9	(14.5–26.0)
Hawaii County, Hawaii	1,379	17.8	1.2	(15.3–20.2)
Honolulu County, Hawaii	2,811	15.3	0.8	(13.8–16.9)
Maui County, Hawaii	1,207	19.0	1.4	(16.3–21.8)
Kauai County, Hawaii	601	17.2	1.9	(13.5–21.0)
Ada County, Idaho	627	15.1	1.6	(12.0–18.2)
Canyon County, Idaho	455	22.2	2.2	(18.0–26.5)
Cook County, Illinois	1,811	30.1	1.3	(27.5–32.6)
DuPage County, Illinois	346	21.7	2.5	(16.7–26.6)
Marion County, Indiana	633	25.4	1.9	(21.6–29.2)
Polk County, Iowa	456	21.9	2.3	(17.4–26.3)
Shawnee County, Kansas	395	25.6	2.5	(20.7–30.5)
Sedgwick County, Kansas	663	21.4	1.8	(17.9–24.9)
Jefferson County, Kentucky	403	16.8	2.3	(12.3–21.2)
East Baton Rouge Parish, Louisiana	401	27.4	2.6	(22.3–32.5)
Jefferson Parish, Louisiana	383	23.1	2.6	(18.1–28.1)
Orleans Parish, Louisiana	497	33.9	2.5	(29.1–38.7)
St. Tammany Parish, Louisiana	233	21.3	2.9	(15.6–26.9)
Cumberland County, Maine	486	20.2	2.0	(16.3–24.1)
York County, Maine	286	25.3	3.0	(19.4–31.1)
Anne Arundel County, Maryland	356	18.3	2.3	(13.7–22.8)
Baltimore County, Maryland	502	24.5	2.2	(20.3–28.7)
Baltimore city, Maryland	327	29.6	3.2	(23.3–35.8)
Frederick County, Maryland	276	22.9	3.0	(17.0–28.8)
Montgomery County, Maryland	615	19.1	2.0	(15.1–23.1)
Norfolk County, Massachusetts	529	15.9	1.8	(12.4–19.4)
Plymouth County, Massachusetts	418	20.6	2.5	(15.7–25.5)
Suffolk County, Massachusetts	1,039	26.1	1.9	(22.5–29.7)
Middlesex County, Massachusetts	1,426	17.9	1.2	(15.6–20.3)
Essex County, Massachusetts	771	22.0	1.8	(18.4–25.6)
Hampden County, Massachusetts	726	26.2	2.2	(22.0–30.5)
Worcester County, Massachusetts	1,083	22.2	1.6	(19.1–25.4)

**TABLE 10. (Continued) Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample Size	%	Standard error	95% Confidence interval
Wayne County, Michigan	706	28.4	2.0	(24.4–32.4)
Macomb County, Michigan	287	24.8	3.1	(18.8–30.8)
Oakland County, Michigan	474	19.1	2.0	(15.2–23.1)
Anoka County, Minnesota	248	18.8	2.9	(13.1–24.5)
Dakota County, Minnesota	315	12.5	1.9	(8.7–16.3)
Hennepin County, Minnesota	985	12.2	1.2	(9.8–14.5)
Ramsey County, Minnesota	407	16.1	2.0	(12.2–20.0)
Hinds County, Mississippi	345	31.9	2.9	(26.3–37.5)
Jackson County, Missouri	414	28.4	2.5	(23.5–33.3)
Johnson County, Kansas	740	12.9	1.4	(10.2–15.6)
St. Louis County, Missouri	336	20.2	2.3	(15.6–24.8)
Lancaster County, Nebraska	621	16.0	2.0	(12.1–19.9)
Douglas County, Nebraska	1,019	21.7	1.5	(18.6–24.7)
Sarpy County, Nebraska	289	22.5	2.8	(17.0–28.0)
Clark County, Nevada	1,059	26.9	1.7	(23.5–30.3)
Washoe County, Nevada	1,044	17.7	1.3	(15.1–20.2)
Merrimack County, New Hampshire	595	22.3	2.0	(18.4–26.3)
Grafton County, New Hampshire	390	16.4	2.1	(12.4–20.5)
Orange County, Vermont	241	19.8	2.9	(14.1–25.4)
Windsor County, Vermont	413	14.7	1.9	(11.0–18.4)
Hillsborough County, New Hampshire	1,402	21.4	1.2	(19.0–23.8)
Rockingham County, New Hampshire	1,050	16.1	1.3	(13.6–18.5)
Strafford County, New Hampshire	463	21.3	2.3	(16.7–25.9)
Monmouth County, New Jersey	260	20.2	3.6	(13.2–27.1)
Somerset County, New Jersey	522	20.1	2.8	(14.7–25.5)
Essex County, New Jersey	440	31.4	4.5	(22.5–40.3)
Morris County, New Jersey	488	19.2	3.3	(12.7–25.7)
Bernalillo County, New Mexico	878	18.4	1.5	(15.5–21.4)
Sandoval County, New Mexico	230	18.8	3.1	(12.9–24.8)
Bergen County, New Jersey	1,257	20.1	1.9	(16.4–23.7)
Kings County, New York	419	28.9	2.6	(23.9–33.9)
Queens County, New York	314	35.6	3.2	(29.3–41.9)
Suffolk County, New York	321	23.4	2.7	(18.1–28.7)
Buncombe County, North Carolina	415	25.7	2.6	(20.5–30.8)
Henderson County, North Carolina	338	30.9	3.7	(23.7–38.1)
Orange County, North Carolina	441	22.6	4.6	(13.6–31.7)
Guilford County, North Carolina	424	23.3	2.6	(18.2–28.3)
Randolph County, North Carolina	433	32.5	2.8	(27.0–38.0)
Forsyth County, North Carolina	465	22.9	2.2	(18.6–27.1)
Cass County, North Dakota	526	19.9	2.0	(16.1–23.8)
Summit County, Ohio	491	21.9	2.1	(17.9–25.9)
Montgomery County, Ohio	510	24.2	2.2	(19.9–28.5)
Lucas County, Ohio	493	27.2	2.4	(22.5–31.8)
Mahoning County, Ohio	497	28.8	3.0	(22.9–34.7)
Cleveland County, Oklahoma	321	29.0	2.9	(23.3–34.7)
Oklahoma County, Oklahoma	1,140	28.4	1.6	(25.3–31.5)
Tulsa County, Oklahoma	1,012	27.3	1.8	(23.8–30.9)
Clackamas County, Oregon	284	15.1	2.3	(10.6–19.7)
Clark County, Washington	290	15.3	2.5	(10.4–20.2)
Multnomah County, Oregon	554	15.9	1.9	(12.2–19.6)
Washington County, Oregon	348	15.2	2.2	(10.9–19.4)
Franklin County, Pennsylvania	1,311	23.5	1.7	(20.1–26.9)
Lancaster County, Pennsylvania	1,238	24.7	1.5	(21.8–27.5)
Bucks County, Pennsylvania	364	24.0	2.6	(18.8–29.1)
Chester County, Pennsylvania	1,230	16.7	1.3	(14.0–19.3)
Delaware County, Pennsylvania	347	26.8	3.0	(20.9–32.8)
Montgomery County, Pennsylvania	321	17.4	2.0	(13.6–21.3)
Philadelphia County, Pennsylvania	720	30.4	2.1	(26.3–34.5)
Allegheny County, Pennsylvania	956	23.9	1.6	(20.8–26.9)
Armstrong County, Pennsylvania	1,350	26.5	2.7	(21.1–31.8)

**TABLE 10. (Continued) Estimated prevalence of persons who reported no leisure-time physical activity during the preceding month — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample Size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	292	22.6	2.7	(17.4–27.8)
Bristol County, Massachusetts	755	24.5	1.9	(20.7–28.2)
Kent County, Rhode Island	548	23.6	2.1	(19.4–27.8)
Providence County, Rhode Island	2,354	28.9	1.1	(26.8–31.1)
Washington County, Rhode Island	471	16.7	2.0	(12.7–20.7)
Richland County, South Carolina	253	17.7	2.7	(12.4–23.0)
Darlington County, South Carolina	321	29.3	2.9	(23.6–35.1)
Florence County, South Carolina	557	27.3	2.9	(21.6–33.0)
Pennington County, South Dakota	438	18.5	2.3	(14.0–22.9)
Minnehaha County, South Dakota	834	22.0	1.9	(18.4–25.7)
Shelby County, Tennessee	480	32.6	2.6	(27.5–37.6)
Davidson County, Tennessee	309	30.0	2.9	(24.2–35.7)
Dallas County, Texas	542	29.0	2.5	(24.1–33.9)
Harris County, Texas	795	29.9	2.0	(26.0–33.7)
Davis County, Utah	259	19.4	2.8	(14.0–24.8)
Weber County, Utah	268	25.0	3.1	(19.0–31.0)
Salt Lake County, Utah	1,038	18.1	1.4	(15.3–21.0)
Tooele County, Utah	265	25.9	3.4	(19.2–32.6)
Chittenden County, Vermont	871	14.4	1.3	(11.9–17.0)
Franklin County, Vermont	301	23.1	2.6	(18.0–28.2)
King County, Washington	1,370	11.4	1.0	(9.31–3.4)
Snohomish County, Washington	478	20.5	2.4	(15.8–25.3)
Pierce County, Washington	504	15.5	2.1	(11.4–19.5)
Kanawha County, West Virginia	376	26.2	2.5	(21.3–31.1)
Milwaukee County, Wisconsin	1,114	24.3	1.8	(20.8–27.7)
Laramie County, Wyoming	559	18.4	1.9	(14.7–22.0)

**Summary:** Number of participants = 146; median: 22.3; mean: 22.5; range: 11.4–36.8.

**TABLE 11. Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke\* — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	3,088	24.4	1.0	(22.4–26.4)
Alaska	2,690	29.3	1.4	(26.6–32.0)
Arizona	3,223	23.4	1.3	(20.9–25.9)
Arkansas	3,887	26.3	0.9	(24.5–28.1)
California	4,212	16.4	0.7	(15.0–17.8)
Colorado	4,048	20.4	0.7	(19.0–21.8)
Connecticut	5,540	19.4	0.7	(18.0–20.8)
Delaware	4,021	24.7	1.1	(22.5–26.9)
District of Columbia	2,397	20.4	1.1	(18.2–22.6)
Florida	6,125	22.0	0.6	(20.8–23.2)
Georgia	5,037	23.2	0.8	(21.6–24.8)
Hawaii	5,995	21.0	0.7	(19.6–22.4)
Idaho	5,024	20.6	0.7	(19.2–22.0)
Illinois	5,230	22.8	0.7	(21.4–24.2)
Indiana	5,784	27.6	0.7	(26.2–29.0)
Iowa	3,659	23.2	0.8	(21.6–24.8)
Kansas	4,590	22.1	0.7	(20.7–23.5)
Kentucky	7,037	32.6	0.9	(30.8–34.4)
Louisiana	5,013	23.9	0.7	(22.5–25.3)
Maine	2,433	23.6	1.0	(21.6–25.6)
Maryland	4,382	21.9	0.9	(20.1–23.7)
Massachusetts	7,398	18.9	0.6	(17.7–20.1)
Michigan	5,920	24.2	0.7	(22.8–25.6)
Minnesota	4,478	21.7	0.7	(20.3–23.1)
Mississippi	4,066	27.3	0.9	(25.5–29.1)
Missouri	4,715	26.5	0.9	(24.7–28.3)
Montana	4,021	21.2	0.9	(19.4–23.0)
Nebraska	4,374	22.7	0.8	(21.1–24.3)
Nevada	3,144	26.0	1.2	(23.6–28.4)
New Hampshire	5,021	23.2	0.7	(21.8–24.6)
New Jersey	6,152	19.0	1.1	(16.8–21.2)
New Mexico	4,663	21.2	0.8	(19.6–22.8)
New York	4,449	22.3	0.8	(20.7–23.9)
North Carolina	6,720	26.3	0.9	(24.5–28.1)
North Dakota	2,990	21.5	0.9	(19.7–23.3)
Ohio	4,080	26.6	0.8	(25.0–28.2)
Oklahoma	6,759	26.6	0.7	(25.2–28.0)
Oregon	3,069	22.4	0.9	(20.6–24.2)
Pennsylvania	13,464	24.5	0.5	(23.5–25.5)
Rhode Island	3,830	22.4	0.8	(20.8–24.0)
South Carolina	4,488	26.6	0.9	(24.8–28.4)
South Dakota	4,783	22.6	0.8	(21.0–24.2)
Tennessee	3,192	27.7	1.0	(25.7–29.7)
Texas	6,090	22.9	0.7	(21.5–24.3)
Utah	4,072	12.8	0.7	(11.4–14.2)
Vermont	4,224	21.1	0.7	(19.7–22.5)
Virginia	4,374	24.6	1.0	(22.6–26.6)
Washington	4,863	21.5	0.8	(19.9–23.1)
West Virginia	3,348	28.4	0.9	(26.6–30.2)
Wisconsin	4,350	23.3	0.8	(21.7–24.9)
Wyoming	3,538	23.7	0.9	(21.9–25.5)
Guam	824	31.9	2.0	(28.0–35.8)
Puerto Rico	4,116	13.2	0.7	(11.8–14.6)
Virgin Islands	2,272	9.4	0.7	(8.0–10.8)

**Summary:** Number of participants = 54; median: 23.1; range: 9.4–32.6.

**TABLE 12. Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	537	29.9	2.5	(25.1–34.8)
Albuquerque, NM	1,311	20.3	1.3	(17.6–22.9)
Anchorage, AK	510	28.2	2.4	(23.4–33.0)
Asheville, NC	818	25.0	2.1	(21.0–29.0)
Atlanta-Sandy Springs-Marietta, GA	1,884	21.3	1.2	(18.9–23.7)
Baltimore-Towson, MD	1,660	23.5	1.3	(20.9–26.2)
Baton Rouge, LA	737	21.9	1.8	(18.3–25.4)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	885	15.8	1.7	(12.5–19.0)
Birmingham-Hoover, AL	807	24.0	1.9	(20.3–27.8)
Boise City-Nampa, ID	1,212	21.0	1.5	(18.1–23.9)
Boston-Quincy, MA Metropolitan Division	1,980	19.4	1.2	(17.1–21.6)
Bridgeport-Stamford-Norwalk, CT	1,010	18.1	1.5	(15.2–21.0)
Burlington-South Burlington, VT	1,219	20.4	1.4	(17.6–23.1)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,423	15.3	1.1	(13.0–17.5)
Chambersburg, PA	1,311	21.3	1.6	(18.1–24.5)
Charleston, WV	578	30.2	2.2	(25.9–34.5)
Cheyenne, WY	558	22.6	2.0	(18.6–26.5)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,722	21.2	0.9	(19.4–23.0)
Cincinnati-Middletown, OH-KY-IN	845	28.0	2.5	(23.1–32.9)
Columbia, SC	516	26.6	2.3	(22.0–31.1)
Concord, NH	593	23.0	2.0	(19.1–26.9)
Dallas-Plano-Irving, TX Metropolitan Division	879	22.3	1.8	(18.7–25.9)
Dayton, OH	594	19.1	2.0	(15.1–23.1)
Denver-Aurora, CO	1,879	21.3	1.1	(19.0–23.5)
Des Moines, IA	626	27.1	2.1	(22.9–31.2)
Detroit-Livonia-Dearborn, MI Metropolitan Division	704	26.6	2.1	(22.5–30.6)
Dover, DE	1,296	26.8	1.5	(23.8–29.8)
Durham, NC	627	25.9	4.4	(17.2–34.6)
Edison, NJ Metropolitan Division	2,109	18.0	1.6	(14.8–21.1)
Essex County, MA Metropolitan Division	767	20.9	2.0	(17.0–24.7)
Fargo, ND-MN	575	22.1	2.5	(17.3–26.9)
Florence, SC	877	27.0	2.0	(23.0–31.0)
Greensboro-High Point, NC	884	24.7	2.2	(20.4–29.0)
Hartford-West Hartford-East Hartford, CT	2,072	17.9	1.1	(15.7–20.0)
Hilo, HI	1,377	23.5	1.4	(20.7–26.2)
Honolulu, HI	2,810	19.7	0.9	(17.8–21.5)
Houston-Baytown-Sugar Land, TX	1,158	21.7	1.4	(19.0–24.5)
Huntington-Ashland, WV-KY-OH	584	28.9	2.7	(23.6–34.2)
Indianapolis, IN	1,271	24.9	1.4	(22.1–27.7)
Jackson, MS	699	23.8	2.1	(19.6–27.9)
Jacksonville, FL	567	24.8	2.4	(20.1–29.4)
Kahului-Wailuku, HI	1,207	25.9	1.6	(22.8–29.0)
Kansas City, MO-KS	1,890	23.8	1.3	(21.3–26.4)
Kapaa, HI	601	24.2	2.2	(19.9–28.4)
Lancaster, PA	1,240	21.2	1.3	(18.6–23.8)
Las Vegas-Paradise, NV	1,056	26.6	1.7	(23.3–30.0)
Lebanon, NH-VT	1,039	21.7	1.6	(18.6–24.8)
Lincoln, NE	659	23.0	2.6	(18.0–28.0)
Little Rock-North Little Rock, AR	880	22.7	1.6	(19.5–25.9)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	983	17.6	1.5	(14.7–20.6)
Louisville, KY-IN	896	31.4	2.3	(26.9–35.8)
Manchester-Nashua, NH	1,400	22.5	1.3	(19.9–25.1)
Memphis, TN-MS-AR	821	27.4	2.2	(23.0–31.8)
Miami-Miami Beach-Kendall, FL Metropolitan Division	703	19.4	1.8	(15.8–23.0)
Milwaukee-Waukesha-West Allis, WI	1,416	23.7	1.5	(20.7–26.7)
Minneapolis-St. Paul-Bloomington, MN-WI	2,529	21.4	1.0	(19.4–23.3)
Nashville-Davidson-Murfreesboro, TN	717	26.4	2.0	(22.5–30.3)
Newark-Union, NJ-PA Metropolitan Division	1,376	16.9	1.9	(13.2–20.5)
New Haven-Milford, CT	1,009	21.0	1.4	(18.2–23.7)
New Orleans-Metairie-Kenner, LA	1,285	23.0	1.4	(20.1–25.8)

**TABLE 12. (Continued) Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,590	18.5	1.0	(16.6–20.5)
Norwich-New London, CT	510	19.9	2.1	(15.9–24.0)
Ogden-Clearfield, UT	535	13.8	1.7	(10.5–17.1)
Oklahoma City, OK	1,962	24.9	1.2	(22.5–27.3)
Omaha-Council Bluffs, NE-IA	1,697	24.1	1.3	(21.4–26.7)
Orlando, FL	555	19.0	1.9	(15.3–22.6)
Philadelphia, PA Metropolitan Division	3,175	23.2	1.0	(21.2–25.2)
Phoenix-Mesa-Scottsdale, AZ	1,041	24.5	2.0	(20.6–28.3)
Pittsburgh, PA	3,132	25.6	1.2	(23.3–27.8)
Portland-South Portland, ME	827	22.6	1.7	(19.3–25.9)
Portland-Vancouver-Beaverton, OR-WA	1,582	21.6	1.4	(18.9–24.3)
Providence-New Bedford-Fall River, RI-MA	4,580	22.3	0.8	(20.8–23.8)
Rapid City, SD	568	24.3	2.5	(19.4–29.2)
Reno-Sparks, NV	1,054	22.7	1.5	(19.9–25.6)
Richmond, VA	652	22.3	2.0	(18.3–26.2)
Rockingham County-Strafford County, NH Metropolitan Division	1,507	21.7	1.2	(19.2–24.1)
St. Louis, MO-IL	1,010	25.9	1.6	(22.7–29.1)
Salt Lake City, UT	1,554	15.7	1.2	(13.2–18.1)
Seaford, DE	1,382	25.0	1.4	(22.2–27.8)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,837	19.9	1.2	(17.5–22.3)
Sioux Falls, SD	1,097	23.9	1.6	(20.8–27.0)
Springfield, MA	973	21.3	1.8	(17.7–24.9)
Suffolk County-Nassau County, NY Metropolitan Division	574	21.6	2.0	(17.6–25.6)
Tacoma, WA Metropolitan Division	504	24.2	2.6	(19.1–29.2)
Tampa-St. Petersburg-Clearwater, FL	863	21.5	1.6	(18.4–24.6)
Toledo, OH	553	20.8	2.2	(16.4–25.2)
Topeka, KS	499	18.7	1.9	(14.9–22.5)
Tucson, AZ	729	19.9	2.0	(16.0–23.8)
Tulsa, OK	1,577	25.3	1.4	(22.6–27.9)
Virginia Beach-Norfolk-Newport News, VA-NC	929	22.3	1.8	(18.8–25.8)
Warren-Farmington Hills-Troy, MI Metropolitan Division	930	24.9	1.7	(21.6–28.1)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	4,007	21.5	1.8	(18.0–25.0)
Wichita, KS	866	23.9	1.8	(20.4–27.3)
Willimantic, CT	534	28.2	2.9	(22.4–33.9)
Wilmington, DE-MD-NJ Metropolitan Division	1,486	23.6	1.5	(20.5–26.6)
Winston-Salem, NC	507	26.4	2.8	(20.9–31.9)
Worcester, MA	1,080	19.7	1.6	(16.6–22.8)
Youngstown-Warren-Boardman, OH-PA	637	32.8	3.7	(25.6–40.0)

**Summary:** Number of participants = 98; median: 22.7; mean: 22.9; range: 13.8–32.8



**TABLE 13. Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	485	24.3	2.4	(19.6–28.9)
Anchorage Municipality, Alaska	416	25.6	2.7	(20.4–30.8)
Maricopa County, Arizona	869	24.2	2.1	(20.2–28.2)
Pima County, Arizona	729	19.9	2.0	(16.0–23.8)
Pulaski County, Arkansas	528	22.2	2.1	(18.1–26.3)
Los Angeles County, California	983	17.6	1.5	(14.7–20.6)
Adams County, Colorado	305	22.6	2.7	(17.3–28.0)
Arapahoe County, Colorado	438	18.5	2.2	(14.3–22.7)
Denver County, Colorado	466	25.3	2.5	(20.3–30.2)
Jefferson County, Colorado	468	22.4	2.5	(17.5–27.3)
Fairfield County, Connecticut	1,010	18.1	1.5	(15.2–21.0)
Hartford County, Connecticut	1,093	18.3	1.4	(15.7–21.0)
Middlesex County, Connecticut	469	14.5	1.8	(10.9–18.1)
Tolland County, Connecticut	510	19.1	2.3	(14.6–23.6)
New Haven County, Connecticut	1,009	21.0	1.4	(18.2–23.7)
New London County, Connecticut	510	19.9	2.1	(15.9–24.0)
Windham County, Connecticut	534	28.2	2.9	(22.4–33.9)
Kent County, Delaware	1,296	26.8	1.5	(23.8–29.8)
Sussex County, Delaware	1,382	25.0	1.4	(22.2–27.8)
New Castle County, Delaware	1,343	24.1	1.7	(20.8–27.3)
District of Columbia	2,397	20.4	1.1	(18.3–22.5)
Duval County, Florida	355	23.4	2.8	(17.9–28.8)
Miami-Dade County, Florida	703	19.4	1.8	(15.8–23.0)
Orange County, Florida	299	16.0	2.4	(11.4–20.6)
Hillsborough County, Florida	314	20.6	2.6	(15.6–25.6)
Pinellas County, Florida	356	20.9	2.5	(16.0–25.8)
Cobb County, Georgia	250	16.1	2.8	(10.7–21.5)
DeKalb County, Georgia	251	18.9	3.9	(11.4–26.4)
Fulton County, Georgia	280	17.1	2.6	(11.9–22.2)
Hawaii County, Hawaii	1,377	23.5	1.4	(20.7–26.2)
Honolulu County, Hawaii	2,810	19.7	0.9	(17.8–21.5)
Maui County, Hawaii	1,207	25.9	1.6	(22.8–29.0)
Kauai County, Hawaii	601	24.2	2.2	(19.9–28.4)
Ada County, Idaho	626	20.6	1.9	(16.8–24.4)
Canyon County, Idaho	454	20.4	2.2	(16.2–24.7)
Cook County, Illinois	1,804	21.3	1.1	(19.1–23.5)
DuPage County, Illinois	346	23.2	2.8	(17.7–28.7)
Marion County, Indiana	633	27.1	2.1	(23.1–31.1)
Polk County, Iowa	456	27.7	2.4	(23.0–32.4)
Shawnee County, Kansas	393	18.3	2.2	(14.0–22.5)
Sedgwick County, Kansas	662	23.1	1.9	(19.4–26.7)
Jefferson County, Kentucky	401	31.1	3.5	(24.3–37.8)
East Baton Rouge Parish, Louisiana	400	17.4	2.2	(13.0–21.8)
Jefferson Parish, Louisiana	381	22.8	2.6	(17.8–27.8)
Orleans Parish, Louisiana	494	22.9	2.3	(18.5–27.4)
St. Tammany Parish, Louisiana	233	21.6	3.6	(14.4–28.7)
Cumberland County, Maine	485	22.6	2.2	(18.2–26.9)
York County, Maine	285	21.2	2.6	(16.1–26.4)
Anne Arundel County, Maryland	356	24.4	2.9	(18.8–30.0)
Baltimore County, Maryland	502	24.2	2.2	(19.8–28.5)
Baltimore city, Maryland	326	24.1	3.1	(17.9–30.2)
Frederick County, Maryland	274	17.8	2.6	(12.6–22.9)
Montgomery County, Maryland	611	15.5	2.0	(11.6–19.3)
Norfolk County, Massachusetts	527	16.6	1.9	(12.9–20.3)
Plymouth County, Massachusetts	417	19.4	2.3	(15.0–23.9)
Suffolk County, Massachusetts	1,036	21.6	1.8	(18.0–25.1)
Middlesex County, Massachusetts	1,423	15.3	1.1	(13.0–17.5)
Essex County, Massachusetts	767	20.9	2.0	(17.0–24.7)
Hampden County, Massachusetts	722	23.7	2.2	(19.3–28.0)
Worcester County, Massachusetts	1,080	19.7	1.6	(16.6–22.8)

**TABLE 13. (Continued) Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	704	26.6	2.1	(22.5–30.6)
Macomb County, Michigan	285	28.6	3.2	(22.4–34.7)
Oakland County, Michigan	473	23.9	2.4	(19.3–28.6)
Anoka County, Minnesota	246	23.3	3.2	(17.0–29.6)
Dakota County, Minnesota	314	15.5	2.4	(10.8–20.1)
Hennepin County, Minnesota	980	21.4	1.5	(18.4–24.3)
Ramsey County, Minnesota	406	21.0	2.3	(16.5–25.5)
Hinds County, Mississippi	342	22.1	2.9	(16.5–27.7)
Jackson County, Missouri	414	24.9	2.4	(20.2–29.6)
Johnson County, Kansas	737	19.4	1.7	(16.2–22.7)
St. Louis County, Missouri	334	23.2	2.7	(17.9–28.4)
Lancaster County, Nebraska	620	24.0	2.7	(18.7–29.3)
Douglas County, Nebraska	1,017	25.5	1.8	(22.0–28.9)
Sarpy County, Nebraska	289	16.3	2.4	(11.5–21.0)
Clark County, Nevada	1,056	26.6	1.7	(23.3–30.0)
Washoe County, Nevada	1,044	22.6	1.5	(19.7–25.5)
Merrimack County, New Hampshire	593	23.0	2.0	(19.1–26.9)
Grafton County, New Hampshire	389	22.7	2.6	(17.7–27.6)
Orange County, Vermont	240	22.5	3.1	(16.4–28.6)
Windsor County, Vermont	410	18.8	2.1	(14.7–22.9)
Hillsborough County, New Hampshire	1,400	22.5	1.3	(19.9–25.1)
Rockingham County, New Hampshire	1,046	20.3	1.4	(17.5–23.0)
Strafford County, New Hampshire	461	24.0	2.3	(19.4–28.5)
Monmouth County, New Jersey	260	19.4	4.5	(10.5–28.2)
Somerset County, New Jersey	521	16.7	3.1	(10.7–22.7)
Essex County, New Jersey	440	15.8	3.0	(9.9–21.7)
Morris County, New Jersey	488	18.9	3.4	(12.2–25.6)
Bernalillo County, New Mexico	877	19.9	1.6	(16.9–23.0)
Sandoval County, New Mexico	230	21.3	3.2	(15.0–27.5)
Bergen County, New Jersey	1,253	16.1	1.5	(13.2–18.9)
Kings County, New York	418	18.0	2.3	(13.6–22.5)
Queens County, New York	314	17.8	2.7	(12.5–23.1)
Suffolk County, New York	320	24.7	2.9	(19.1–30.4)
Buncombe County, North Carolina	412	23.0	2.5	(18.1–27.9)
Henderson County, North Carolina	336	20.6	2.7	(15.3–25.9)
Orange County, North Carolina	441	13.2	2.0	(9.3–17.1)
Guilford County, North Carolina	423	20.9	2.5	(16.0–25.8)
Randolph County, North Carolina	429	28.1	2.8	(22.7–33.5)
Forsyth County, North Carolina	464	25.2	2.5	(20.3–30.0)
Cass County, North Dakota	526	21.2	2.1	(17.1–25.2)
Summit County, Ohio	489	29.8	2.4	(25.2–34.4)
Montgomery County, Ohio	508	25.2	2.2	(20.8–29.6)
Lucas County, Ohio	493	27.4	2.5	(22.5–32.2)
Mahoning County, Ohio	494	25.2	2.3	(20.7–29.7)
Cleveland County, Oklahoma	321	29.5	3.1	(23.5–35.6)
Oklahoma County, Oklahoma	1,138	23.0	1.5	(20.0–25.9)
Tulsa County, Oklahoma	1,010	23.6	1.7	(20.2–26.9)
Clackamas County, Oregon	283	22.1	3.0	(16.2–27.9)
Clark County, Washington	287	20.4	3.1	(14.3–26.6)
Multnomah County, Oregon	554	22.1	2.3	(17.6–26.6)
Washington County, Oregon	346	20.1	2.8	(14.6–25.6)
Franklin County, Pennsylvania	1,311	21.3	1.6	(18.1–24.5)
Lancaster County, Pennsylvania	1,240	21.2	1.3	(18.6–23.8)
Bucks County, Pennsylvania	363	20.7	2.5	(15.8–25.6)
Chester County, Pennsylvania	1,226	17.9	1.4	(15.1–20.6)
Delaware County, Pennsylvania	347	24.6	2.9	(18.9–30.3)
Montgomery County, Pennsylvania	521	23.1	2.3	(18.6–27.6)
Philadelphia County, Pennsylvania	718	26.0	1.9	(22.3–29.7)
Allegheny County, Pennsylvania	953	25.9	1.7	(22.5–29.3)
Armstrong County, Pennsylvania	348	23.2	2.6	(18.0–28.3)

**TABLE 13. (Continued) Estimated prevalence of persons who reported ever smoking  $\geq 100$  cigarettes and who currently smoke — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	293	24.5	2.8	(19.1–29.9)
Bristol County, Massachusetts	750	22.6	1.9	(19.0–26.2)
Kent County, Rhode Island	546	23.4	2.1	(19.2–27.5)
Providence County, Rhode Island	2,349	22.6	1.0	(20.6–24.7)
Washington County, Rhode Island	469	21.1	2.3	(16.7–25.6)
Richland County, South Carolina	252	26.3	3.7	(19.1–33.5)
Darlington County, South Carolina	322	29.5	3.1	(23.4–35.7)
Florence County, South Carolina	555	26.9	2.8	(21.5–32.4)
Pennington County, South Dakota	438	25.0	2.9	(19.3–30.6)
Minnehaha County, South Dakota	833	23.7	1.8	(20.1–27.2)
Shelby County, Tennessee	476	25.0	2.7	(19.8–30.3)
Davidson County, Tennessee	306	22.1	2.8	(16.7–27.6)
Dallas County, Texas	538	20.6	2.2	(16.3–24.9)
Harris County, Texas	790	20.7	1.7	(17.4–24.0)
Davis County, Utah	259	10.9	2.1	(6.7–15.1)
Weber County, Utah	268	17.6	2.6	(12.4–22.7)
Salt Lake County, Utah	1,033	15.8	1.3	(13.2–18.4)
Tooele County, Utah	263	19.8	3.1	(13.7–26.0)
Chittenden County, Vermont	867	18.0	1.6	(14.9–21.2)
Franklin County, Vermont	301	27.2	2.9	(21.6–32.9)
King County, Washington	1,361	18.1	1.4	(15.5–20.8)
Snohomish County, Washington	476	24.6	2.7	(19.3–29.9)
Pierce County, Washington	504	24.2	2.6	(19.1–29.2)
Kanawha County, West Virginia	376	30.9	2.7	(25.6–36.2)
Milwaukee County, Wisconsin	1,113	26.2	1.9	(22.4–30.0)
Laramie County, Wyoming	558	22.6	2.0	(18.6–26.5)

**TABLE 14. Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	3,066	14.5	0.9	(12.7–16.3)
Alaska	2,648	18.2	1.1	(16.0–20.4)
Arizona	3,187	16.9	1.2	(14.5–19.3)
Arkansas	3,867	12.7	0.7	(11.3–14.1)
California	4,156	14.9	0.7	(13.5–16.3)
Colorado	4,016	18.6	0.8	(17.0–20.2)
Connecticut	5,485	16.3	0.7	(14.9–17.7)
Delaware	4,016	18.3	1.1	(16.1–20.5)
District of Columbia	2,374	17.0	1.0	(15.0–19.0)
Florida	6,058	13.7	0.5	(12.7–14.7)
Georgia	4,994	12.8	0.9	(11.0–14.6)
Hawaii	5,912	11.9	0.6	(10.7–13.1)
Idaho	5,011	15.8	0.7	(14.4–17.2)
Illinois	5,198	17.8	0.6	(16.6–19.0)
Indiana	5,749	15.9	0.6	(14.7–17.1)
Iowa	3,640	20.1	0.9	(18.3–21.9)
Kansas	4,529	15.8	0.7	(14.4–17.2)
Kentucky	6,963	7.9	0.7	(6.5–9.3)
Louisiana	4,891	13.6	0.6	(12.4–14.8)
Maine	2,406	15.4	0.9	(13.6–17.2)
Maryland	4,363	14.4	0.8	(12.8–16.0)
Massachusetts	7,338	18.3	0.6	(17.1–19.5)
Michigan	5,880	16.9	0.7	(15.5–18.3)
Minnesota	4,438	21.1	0.8	(19.5–22.7)
Mississippi	4,032	12.4	0.7	(11.0–13.8)
Missouri	4,686	17.2	0.9	(15.4–19.0)
Montana	3,979	19.8	0.9	(18.0–21.6)
Nebraska	4,321	17.6	0.8	(16.0–19.2)
Nevada	3,117	19.8	1.2	(17.4–22.2)
New Hampshire	4,980	16.6	0.7	(15.2–18.0)
New Jersey	6,115	13.9	1.0	(11.9–15.9)
New Mexico	4,640	14.4	0.7	(13.0–15.8)
New York	4,420	17.9	0.7	(16.5–19.3)
North Carolina	6,659	10.9	0.7	(9.5–12.3)
North Dakota	2,966	22.0	0.9	(20.2–23.8)
Ohio	4,045	15.9	0.8	(14.3–17.5)
Oklahoma	6,693	13.3	0.6	(12.1–14.5)
Oregon	3,046	16.3	0.8	(14.7–17.9)
Pennsylvania	13,370	16.9	0.5	(15.9–17.9)
Rhode Island	3,792	17.7	0.8	(16.1–19.3)
South Carolina	4,462	12.4	0.7	(11.0–13.8)
South Dakota	4,753	18.5	0.7	(17.1–19.9)
Tennessee	3,145	8.2	0.7	(6.8–9.6)
Texas	6,034	17.8	0.7	(16.4–19.2)
Utah	4,066	10.1	0.7	(8.7–11.5)
Vermont	4,199	16.5	0.7	(15.1–17.9)
Virginia	4,344	15.6	0.8	(14.0–17.2)
Washington	4,858	15.1	0.7	(13.7–16.5)
West Virginia	3,319	11.4	0.7	(10.0–12.8)
Wisconsin	4,325	24.9	0.8	(23.3–26.5)
Wyoming	3,517	18.1	0.8	(16.5–19.7)
Guam	813	17.7	1.6	(14.6–20.8)
Puerto Rico	4,073	10.6	0.7	(9.2–12.0)
Virgin Islands	2,227	11.7	0.9	(9.9–13.5)

**Summary:** Number of participants = 54; median: 16.1; range: 7.9–24.9.

\* Having  $\geq 5$  drinks on at least one occasion.

**TABLE 15. Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	534	19.0	2.3	(14.5–23.4)
Albuquerque, NM	1,306	13.7	1.3	(11.2–16.2)
Anchorage, AK	504	18.0	1.9	(14.2–21.8)
Asheville, NC	812	8.8	1.7	(5.4–12.1)
Atlanta-Sandy Springs-Marietta, GA	1,870	13.3	1.3	(10.8–15.8)
Baltimore-Towson, MD	1,649	16.1	1.3	(13.6–18.5)
Baton Rouge, LA	725	15.8	1.9	(12.2–19.5)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	880	13.0	1.5	(10.0–16.0)
Birmingham-Hoover, AL	801	15.5	1.8	(12.0–19.0)
Boise City-Nampa, ID	1,206	17.6	1.5	(14.7–20.4)
Boston-Quincy, MA Metropolitan Division	1,958	21.1	1.2	(18.7–23.5)
Bridgeport-Stamford-Norwalk, CT	997	17.6	1.5	(14.7–20.6)
Burlington-South Burlington, VT	1,212	19.5	1.5	(16.6–22.5)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,412	17.8	1.4	(15.2–20.5)
Chambersburg, PA	1,307	9.7	1.0	(7.7–11.7)
Charleston, WV	571	13.1	1.7	(9.8–16.3)
Cheyenne, WY	558	16.2	1.8	(12.6–19.8)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,714	16.8	0.9	(15.2–18.5)
Cincinnati-Middletown, OH-KY-IN	841	12.2	1.8	(8.6–15.7)
Columbia, SC	510	13.3	1.8	(9.8–16.9)
Concord, NH	586	17.7	2.1	(13.6–21.8)
Dallas-Plano-Irving, TX Metropolitan Division	871	20.6	1.9	(16.9–24.3)
Dayton, OH	586	12.5	2.1	(8.4–16.5)
Denver-Aurora, CO	1,862	18.8	1.2	(16.4–21.1)
Des Moines, IA	624	20.7	2.0	(16.8–24.6)
Detroit-Livonia-Dearborn, MI Metropolitan Division	697	14.4	1.5	(11.5–17.4)
Dover, DE	1,293	14.6	1.8	(11.0–18.1)
Durham, NC	618	10.7	3.0	(4.9–16.5)
Edison, NJ Metropolitan Division	2,100	14.3	1.5	(11.2–17.3)
Essex County, MA Metropolitan Division	763	18.0	2.0	(14.2–21.8)
Fargo, ND-MN	570	26.1	2.6	(21.0–31.2)
Florence, SC	875	10.8	1.6	(7.6–13.9)
Greensboro-High Point, NC	877	8.2	1.6	(5.1–11.3)
Hartford-West Hartford-East Hartford, CT	2,057	14.2	1.0	(12.2–16.2)
Hilo, HI	1,354	13.9	1.3	(11.5–16.4)
Honolulu, HI	2,780	10.2	0.8	(8.7–11.7)
Houston-Baytown-Sugar Land, TX	1,150	16.6	1.4	(14.0–19.3)
Huntington-Ashland, WV-KY-OH	579	11.6	2.9	(5.9–17.2)
Indianapolis, IN	1,262	16.8	1.3	(14.2–19.4)
Jackson, MS	697	12.6	1.7	(9.3–15.9)
Jacksonville, FL	558	14.8	2.0	(10.9–18.6)
Kahului-Wailuku, HI	1,190	19.0	1.5	(16.1–21.8)
Kansas City, MO-KS	1,875	17.0	1.2	(14.6–19.4)
Kapaa, HI	588	16.5	2.0	(12.6–20.4)
Lancaster, PA	1,234	12.9	1.1	(10.8–15.0)
Las Vegas-Paradise, NV	1,045	19.5	1.6	(16.3–22.7)
Lebanon, NH-VT	1,033	15.9	1.6	(12.7–19.1)
Lincoln, NE	656	21.8	2.6	(16.8–26.9)
Little Rock-North Little Rock, AR	876	15.4	1.6	(12.2–18.5)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	972	13.0	1.3	(10.5–15.5)
Louisville, KY-IN	881	11.8	1.7	(8.5–15.0)
Manchester-Nashua, NH	1,385	17.1	1.2	(14.6–19.5)
Memphis, TN-MS-AR	806	12.3	1.9	(8.6–16.0)
Miami-Miami Beach-Kendall, FL Metropolitan Division	692	12.0	1.5	(9.1–14.9)
Milwaukee-Waukesha-West Allis, WI	1,408	20.8	1.6	(17.6–23.9)
Minneapolis-St. Paul-Bloomington, MN-WI	2,513	21.0	1.0	(19.1–23.0)
Nashville-Davidson-Murfreesboro, TN	711	10.7	1.4	(8.0–13.5)
Newark-Union, NJ-PA Metropolitan Division	1,359	13.4	1.8	(9.9–16.9)
New Haven-Milford, CT	997	16.5	1.4	(13.8–19.3)
New Orleans-Metairie-Kenner, LA	1,244	14.9	1.2	(12.5–17.3)

**TABLE 15. (Continued) Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,568	15.9	1.0	(13.9–17.9)
Norwich-New London, CT	504	16.8	2.1	(12.8–20.8)
Ogden-Clearfield, UT	533	9.0	1.5	(6.0–11.9)
Oklahoma City, OK	1,942	14.8	1.1	(12.7–16.9)
Omaha-Council Bluffs, NE-IA	1,687	17.2	1.2	(14.8–19.7)
Orlando, FL	544	15.7	1.8	(12.2–19.3)
Philadelphia, PA Metropolitan Division	3,150	16.1	0.9	(14.3–17.9)
Phoenix-Mesa-Scottsdale, AZ	1,027	18.2	1.9	(14.5–21.9)
Pittsburgh, PA	3,108	17.6	1.1	(15.4–19.7)
Portland-South Portland, ME	815	16.2	1.5	(13.2–19.2)
Portland-Vancouver-Beaverton, OR-WA	1,573	15.8	1.2	(13.5–18.1)
Providence-New Bedford-Fall River, RI-MA	4,536	17.2	0.8	(15.7–18.7)
Rapid City, SD	563	12.9	2.0	(9.1–16.8)
Reno-Sparks, NV	1,046	21.0	1.5	(18.1–24.0)
Richmond, VA	638	13.9	1.7	(10.5–17.2)
Rockingham County-Strafford County, NH Metropolitan Division	1,493	16.1	1.1	(13.8–18.3)
St. Louis, MO-IL	1,003	21.3	1.6	(18.2–24.3)
Salt Lake City, UT	1,558	13.5	1.2	(11.1–15.9)
Seaford, DE	1,383	13.0	1.2	(10.7–15.3)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,839	16.1	1.2	(13.7–18.4)
Sioux Falls, SD	1,092	20.4	1.5	(17.4–23.4)
Springfield, MA	969	16.7	1.7	(13.4–20.0)
Suffolk County-Nassau County, NY Metropolitan Division	572	17.9	2.0	(14.0–21.8)
Tacoma, WA Metropolitan Division	501	13.1	1.8	(9.6–16.6)
Tampa-St. Petersburg-Clearwater, FL	858	16.0	1.5	(13.0–18.9)
Toledo, OH	548	17.5	2.4	(12.7–22.3)
Topeka, KS	475	13.6	1.8	(10.0–17.2)
Tucson, AZ	723	15.2	1.8	(11.7–18.8)
Tulsa, OK	1,556	11.6	1.1	(9.5–13.6)
Virginia Beach-Norfolk-Newport News, VA-NC	926	14.6	1.6	(11.4–17.8)
Warren-Farmington Hills-Troy, MI Metropolitan Division	928	16.5	1.4	(13.6–19.3)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	3,976	16.8	1.5	(14.0–19.6)
Wichita, KS	854	15.5	1.6	(12.4–18.6)
Willimantic, CT	528	16.5	2.0	(12.5–20.5)
Wilmington, DE-MD-NJ Metropolitan Division	1,482	18.8	1.4	(16.0–21.7)
Winston-Salem, NC	506	9.4	1.9	(5.7–13.1)
Worcester, MA	1,070	17.2	1.5	(14.2–20.2)
Youngstown-Warren-Boardman, OH-PA	633	18.3	3.1	(12.2–24.3)

**Summary:** Number of participants = 98; median: 16.0; mean: 15.6; range: 8.2–26.1.

\* Having  $\geq 5$  drinks on at least one occasion.

**TABLE 16. Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	481	17.1	2.3	(12.5–21.6)
Anchorage Municipality, Alaska	412	16.0	2.0	(12.2–19.9)
Maricopa County, Arizona	857	18.2	2.0	(14.4–22.0)
Pima County, Arizona	723	15.2	1.8	(11.7–18.8)
Pulaski County, Arkansas	524	16.7	2.1	(12.6–20.9)
Los Angeles County, California	972	13.0	1.3	(10.5–15.5)
Adams County, Colorado	304	21.2	2.8	(15.7–26.8)
Arapahoe County, Colorado	434	14.1	2.1	(10.1–18.2)
Denver County, Colorado	460	22.4	2.5	(17.4–27.3)
Jefferson County, Colorado	462	17.3	2.2	(13.0–21.6)
Fairfield County, Connecticut	997	17.6	1.5	(14.7–20.6)
Hartford County, Connecticut	1,091	13.4	1.3	(11.0–15.9)
Middlesex County, Connecticut	465	14.0	1.8	(10.4–17.6)
Tolland County, Connecticut	501	18.9	2.3	(14.3–23.4)
New Haven County, Connecticut	997	16.5	1.4	(13.8–19.3)
New London County, Connecticut	504	16.8	2.1	(12.8–20.8)
Windham County, Connecticut	528	16.5	2.0	(12.5–20.5)
Kent County, Delaware	1,293	14.6	1.8	(11.0–18.1)
Sussex County, Delaware	1,383	13.0	1.2	(10.7–15.3)
New Castle County, Delaware	1,340	21.0	1.6	(17.8–24.2)
District of Columbia	2,374	17.0	1.0	(15.0–19.1)
Duval County, Florida	351	14.0	2.4	(9.4–18.6)
Miami-Dade County, Florida	692	12.0	1.5	(9.1–14.9)
Orange County, Florida	293	15.7	2.7	(10.5–20.9)
Hillsborough County, Florida	316	17.3	2.6	(12.3–22.4)
Pinellas County, Florida	354	16.6	2.4	(11.9–21.3)
Cobb County, Georgia	248	13.1	2.9	(7.5–18.8)
DeKalb County, Georgia	251	13.9	2.9	(8.2–19.6)
Fulton County, Georgia	275	13.9	3.9	(6.3–21.4)
Hawaii County, Hawaii	1,354	13.9	1.3	(11.5–16.4)
Honolulu County, Hawaii	2,780	10.2	0.8	(8.7–11.7)
Maui County, Hawaii	1,190	19.0	1.5	(16.1–21.8)
Kauai County, Hawaii	588	16.5	2.0	(12.6–20.4)
Ada County, Idaho	624	19.0	1.9	(15.2–22.8)
Canyon County, Idaho	451	13.3	1.8	(9.8–16.9)
Cook County, Illinois	1,800	16.5	1.0	(14.5–18.4)
DuPage County, Illinois	345	18.6	2.6	(13.4–23.7)
Marion County, Indiana	624	18.6	1.9	(14.8–22.4)
Polk County, Iowa	454	22.1	2.3	(17.6–26.6)
Shawnee County, Kansas	370	12.8	2.0	(8.9–16.8)
Sedgwick County, Kansas	654	15.8	1.7	(12.5–19.1)
Jefferson County, Kentucky	390	12.1	2.8	(6.7–17.5)
East Baton Rouge Parish, Louisiana	392	14.3	2.4	(9.6–19.0)
Jefferson Parish, Louisiana	372	15.9	2.2	(11.5–20.2)
Orleans Parish, Louisiana	473	16.8	2.0	(12.8–20.7)
St. Tammany Parish, Louisiana	226	14.4	3.2	(8.0–20.7)
Cumberland County, Maine	475	15.5	2.1	(11.5–19.5)
York County, Maine	282	16.9	2.5	(12.0–21.9)
Anne Arundel County, Maryland	354	20.8	2.8	(15.3–26.3)
Baltimore County, Maryland	499	15.3	2.1	(11.1–19.5)
Baltimore city, Maryland	322	12.6	2.5	(7.7–17.5)
Frederick County, Maryland	271	16.4	2.7	(11.2–21.6)
Montgomery County, Maryland	609	12.6	1.8	(9.0–16.1)
Norfolk County, Massachusetts	522	19.5	2.1	(15.4–23.6)
Plymouth County, Massachusetts	414	19.3	2.4	(14.7–23.9)
Suffolk County, Massachusetts	1,022	23.1	1.8	(19.5–26.6)
Middlesex County, Massachusetts	1,412	17.8	1.4	(15.2–20.5)
Essex County, Massachusetts	763	18.0	2.0	(14.2–21.8)
Hampden County, Massachusetts	722	16.6	2.0	(12.7–20.4)
Worcester County, Massachusetts	1,070	17.2	1.5	(14.2–20.2)

**TABLE 16. (Continued) Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	697	14.4	1.5	(11.5–17.4)
Macomb County, Michigan	287	19.7	2.8	(14.3–25.1)
Oakland County, Michigan	472	15.2	2.0	(11.3–19.1)
Anoka County, Minnesota	244	15.1	2.6	(10.0–20.2)
Dakota County, Minnesota	313	20.6	2.6	(15.6–25.6)
Hennepin County, Minnesota	972	19.7	1.6	(16.6–22.8)
Ramsey County, Minnesota	405	24.4	2.6	(19.4–29.5)
Hinds County, Mississippi	342	11.8	2.3	(7.2–16.4)
Jackson County, Missouri	412	16.0	2.2	(11.7–20.3)
Johnson County, Kansas	734	19.4	1.7	(16.0–22.7)
St. Louis County, Missouri	334	19.9	2.6	(14.9–25.0)
Lancaster County, Nebraska	616	22.4	2.7	(17.0–27.7)
Douglas County, Nebraska	1,012	17.6	1.6	(14.5–20.7)
Sarpy County, Nebraska	286	16.2	2.9	(10.5–21.8)
Clark County, Nevada	1,045	19.5	1.6	(16.3–22.7)
Washoe County, Nevada	1,035	21.0	1.5	(18.1–23.9)
Merrimack County, New Hampshire	586	17.7	2.1	(13.6–21.8)
Grafton County, New Hampshire	384	15.3	2.5	(10.5–20.2)
Orange County, Vermont	236	11.5	2.5	(6.6–16.4)
Windsor County, Vermont	413	16.9	2.2	(12.7–21.1)
Hillsborough County, New Hampshire	1,385	17.1	1.2	(14.6–19.5)
Rockingham County, New Hampshire	1,035	16.7	1.4	(14.0–19.4)
Strafford County, New Hampshire	458	14.3	1.9	(10.6–18.0)
Monmouth County, New Jersey	259	18.5	4.2	(10.2–26.8)
Somerset County, New Jersey	519	11.2	1.8	(7.8–14.7)
Essex County, New Jersey	433	10.6	2.7	(5.3–16.0)
Morris County, New Jersey	487	18.0	4.1	(10.1–26.0)
Bernalillo County, New Mexico	873	14.5	1.5	(11.5–17.5)
Sandoval County, New Mexico	229	9.0	2.0	(5.1–13.0)
Bergen County, New Jersey	1,246	13.3	2.0	(9.5–17.1)
Kings County, New York	413	13.5	2.1	(9.5–17.5)
Queens County, New York	310	12.5	2.2	(8.2–16.9)
Suffolk County, New York	322	18.6	2.6	(13.5–23.8)
Buncombe County, North Carolina	407	8.8	2.2	(4.5–13.2)
Henderson County, North Carolina	335	6.6	1.5	(3.6–9.6)
Orange County, North Carolina	434	13.8	2.2	(9.4–18.1)
Guilford County, North Carolina	418	7.5	1.7	(4.2–10.8)
Randolph County, North Carolina	427	7.5	1.5	(4.6–10.5)
Forsyth County, North Carolina	463	10.5	1.7	(7.2–13.8)
Cass County, North Dakota	521	25.1	2.3	(20.6–29.7)
Summit County, Ohio	487	17.3	2.1	(13.2–21.5)
Montgomery County, Ohio	500	12.8	1.7	(9.4–16.2)
Lucas County, Ohio	491	18.1	2.2	(13.7–22.5)
Mahoning County, Ohio	492	14.8	2.1	(10.8–18.9)
Cleveland County, Oklahoma	317	16.2	3.1	(10.1–22.4)
Oklahoma County, Oklahoma	1,127	15.5	1.4	(12.8–18.3)
Tulsa County, Oklahoma	999	11.0	1.3	(8.5–13.5)
Clackamas County, Oregon	281	16.4	2.8	(10.9–21.9)
Clark County, Washington	288	11.9	2.3	(7.4–16.4)
Multnomah County, Oregon	549	19.1	2.1	(15.0–23.2)
Washington County, Oregon	343	13.2	2.2	(8.9–17.5)
Franklin County, Pennsylvania	1,307	9.7	1.0	(7.7–11.7)
Lancaster County, Pennsylvania	1,234	12.9	1.1	(10.8–15.0)
Bucks County, Pennsylvania	361	14.9	2.2	(10.7–19.1)
Chester County, Pennsylvania	1,219	16.6	1.4	(13.8–19.3)
Delaware County, Pennsylvania	345	19.3	3.0	(13.4–25.2)
Montgomery County, Pennsylvania	517	16.1	2.0	(12.2–19.9)
Philadelphia County, Pennsylvania	708	15.4	1.6	(12.3–18.6)
Allegheny County, Pennsylvania	947	18.4	1.5	(15.4–21.4)
Armstrong County, Pennsylvania	1,340	14.0	2.3	(9.4–18.6)



**TABLE 16. (Continued) Estimated prevalence of persons who reported binge drinking\* during the preceding 30 days — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	289	19.4	3.1	(13.4–25.4)
Bristol County, Massachusetts	744	16.7	1.7	(13.3–20.1)
Kent County, Rhode Island	542	16.9	2.0	(13.0–20.7)
Providence County, Rhode Island	2,321	17.0	1.1	(14.9–19.0)
Washington County, Rhode Island	466	18.3	2.3	(13.8–22.8)
Richland County, South Carolina	250	17.6	3.2	(11.4–23.7)
Darlington County, South Carolina	319	10.0	1.8	(6.4–13.6)
Florence County, South Carolina	556	10.9	2.2	(6.6–15.2)
Pennington County, South Dakota	433	13.5	2.3	(9.1–17.9)
Minnehaha County, South Dakota	828	21.0	1.8	(17.5–24.4)
Shelby County, Tennessee	464	11.2	2.2	(6.9–15.5)
Davidson County, Tennessee	304	10.3	2.2	(6.1–14.6)
Dallas County, Texas	530	19.8	2.4	(15.0–24.5)
Harris County, Texas	784	14.0	1.6	(10.9–17.0)
Davis County, Utah	258	9.1	2.0	(5.2–13.0)
Weber County, Utah	267	8.4	2.1	(4.3–12.5)
Salt Lake County, Utah	1,037	13.3	1.3	(10.8–15.8)
Tooele County, Utah	263	13.3	2.7	(8.0–18.6)
Chittenden County, Vermont	865	19.9	1.8	(16.3–23.4)
Franklin County, Vermont	297	16.8	2.6	(11.6–21.9)
King County, Washington	1,362	16.8	1.4	(14.1–19.4)
Snohomish County, Washington	477	14.2	2.3	(9.7–18.6)
Pierce County, Washington	501	13.1	1.8	(9.6–16.6)
Kanawha County, West Virginia	371	16.1	2.3	(11.6–20.6)
Milwaukee County, Wisconsin	1,105	22.8	2.0	(18.9–26.7)
Laramie County, Wyoming	558	16.2	1.8	(12.6–19.8)

**Summary:** Number of participants = 146; median: 16.1; mean: 15.8; range: 6.6–25.1.

\* Having  $\geq 5$  drinks on at least one occasion.

**TABLE 17. Estimated prevalence of persons who reported being heavy drinkers\* — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	3,071	6.3	0.6	(5.1–7.5)
Alaska	2,651	6.0	0.7	(4.6–7.4)
Arizona	3,188	8.7	1.0	(6.7–10.7)
Arkansas	3,864	5.2	0.5	(4.2–6.2)
California	4,165	5.3	0.4	(4.5–6.1)
Colorado	4,024	6.4	0.4	(5.6–7.2)
Connecticut	5,483	5.5	0.4	(4.7–6.3)
Delaware	4,001	7.9	0.7	(6.5–9.3)
District of Columbia	2,378	6.7	0.6	(5.5–7.9)
Florida	6,048	6.4	0.4	(5.6–7.2)
Georgia	4,991	3.9	0.3	(3.3–4.5)
Hawaii	5,925	5.0	0.4	(4.2–5.8)
Idaho	5,014	5.5	0.4	(4.7–6.3)
Illinois	5,203	5.9	0.4	(5.1–6.7)
Indiana	5,738	5.4	0.4	(4.6–6.2)
Iowa	3,634	6.2	0.5	(5.2–7.2)
Kansas	4,522	5.2	0.4	(4.4–6.0)
Kentucky	6,961	3.0	0.4	(2.2–3.8)
Louisiana	4,901	4.1	0.4	(3.3–4.9)
Maine	2,405	6.6	0.6	(5.4–7.8)
Maryland	4,353	4.9	0.4	(4.1–5.7)
Massachusetts	7,320	7.7	0.4	(6.9–8.5)
Michigan	5,870	5.9	0.4	(5.1–6.7)
Minnesota	4,444	5.5	0.4	(4.7–6.3)
Mississippi	4,025	4.6	0.5	(3.6–5.6)
Missouri	4,689	6.1	0.6	(4.9–7.3)
Montana	3,980	7.1	0.6	(5.9–8.3)
Nebraska	4,318	5.1	0.5	(4.1–6.1)
Nevada	3,108	8.3	0.7	(6.9–9.7)
New Hampshire	4,992	7.5	0.5	(6.5–8.5)
New Jersey	6,102	4.1	0.5	(3.1–5.1)
New Mexico	4,637	5.1	0.4	(4.3–5.9)
New York	4,419	5.1	0.4	(4.3–5.9)
North Carolina	6,670	3.3	0.4	(2.5–4.1)
North Dakota	2,967	5.2	0.5	(4.2–6.2)
Ohio	4,054	6.4	0.5	(5.4–7.4)
Oklahoma	6,709	3.9	0.3	(3.3–4.5)
Oregon	3,051	6.9	0.5	(5.9–7.9)
Pennsylvania	13,386	6.1	0.3	(5.5–6.7)
Rhode Island	3,798	7.3	0.6	(6.1–8.5)
South Carolina	4,466	6.3	0.6	(5.1–7.5)
South Dakota	4,755	4.6	0.4	(3.8–5.4)
Tennessee	3,146	3.3	0.5	(2.3–4.3)
Texas	6,047	7.3	0.5	(6.3–8.3)
Utah	4,066	2.8	0.3	(2.2–3.4)
Vermont	4,195	6.8	0.5	(5.8–7.8)
Virginia	4,352	6.3	0.6	(5.1–7.5)
Washington	4,845	5.7	0.4	(4.9–6.5)
West Virginia	3,324	4.5	0.5	(3.5–5.5)
Wisconsin	4,321	7.8	0.5	(6.8–8.8)
Wyoming	3,521	5.9	0.5	(4.9–6.9)
Guam	821	8.3	1.2	(5.9–10.7)
Puerto Rico	4,052	2.8	0.4	(2.0–3.6)
Virgin Islands	2,243	7.1	0.7	(5.7–8.5)

**Summary:** Number of participants = 54; median: 5.9; range: 2.8–8.7.

\* Averaging >2 drinks/day during the preceding month for men and >1 drink/day for women.

**TABLE 18. Estimated prevalence of persons who reported being heavy drinkers\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	536	7.0	1.3	(4.5–9.5)
Albuquerque, NM	1,303	6.0	0.8	(4.3–7.6)
Anchorage, AK	506	5.8	1.2	(3.4–8.1)
Asheville, NC	814	3.3	1.0	(1.3–5.3)
Atlanta-Sandy Springs-Marietta, GA	1,864	3.7	0.5	(2.7–4.8)
Baltimore-Towson, MD	1,642	4.9	0.7	(3.6–6.2)
Baton Rouge, LA	726	5.8	1.3	(3.2–8.3)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	880	4.9	1.1	(2.7–7.1)
Birmingham-Hoover, AL	804	7.0	1.3	(4.4–9.6)
Boise City-Nampa, ID	1,209	6.9	1.0	(5.0–8.8)
Boston-Quincy, MA Metropolitan Division	1,956	7.6	0.8	(6.1–9.1)
Bridgeport-Stamford-Norwalk, CT	999	5.8	0.9	(4.0–7.6)
Burlington-South Burlington, VT	1,210	8.2	1.1	(6.1–10.2)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,409	6.9	0.9	(5.2–8.7)
Chambersburg, PA	1,306	3.4	0.6	(2.3–4.5)
Charleston, WV	572	5.4	1.2	(3.1–7.6)
Cheyenne, WY	556	3.9	1.0	(1.9–5.8)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,714	5.3	0.5	(4.4–6.2)
Cincinnati-Middletown, OH-KY-IN	841	3.8	0.8	(2.1–5.4)
Columbia, SC	512	7.5	1.5	(4.6–10.3)
Concord, NH	588	9.0	1.7	(5.7–12.3)
Dallas-Plano-Irving, TX Metropolitan Division	877	8.3	1.4	(5.6–11.1)
Dayton, OH	584	5.5	1.3	(3.0–8.0)
Denver-Aurora, CO	1,867	5.9	0.6	(4.6–7.1)
Des Moines, IA	621	5.5	1.1	(3.3–7.7)
Detroit-Livonia-Dearborn, MI Metropolitan Division	696	5.2	0.9	(3.4–6.9)
Dover, DE	1,292	6.5	1.7	(3.2–9.8)
Durham, NC	624	2.2	0.7	(0.8–3.6)
Edison, NJ Metropolitan Division	2,092	4.8	1.0	(2.9–6.7)
Essex County, MA Metropolitan Division	760	7.9	1.4	(5.2–10.6)
Fargo, ND-MN	571	8.6	2.2	(4.4–12.9)
Florence, SC	875	3.1	0.6	(1.9–4.3)
Greensboro-High Point, NC	877	2.4	0.7	(1.0–3.8)
Hartford-West Hartford-East Hartford, CT	2,055	5.0	0.6	(3.9–6.1)
Hilo, HI	1,361	7.3	0.9	(5.5–9.0)
Honolulu, HI	2,783	3.9	0.5	(3.0–4.8)
Houston-Baytown-Sugar Land, TX	1,153	6.4	0.9	(4.7–8.2)
Huntington-Ashland, WV-KY-OH	579	3.4	1.2	(1.0–5.8)
Indianapolis, IN	1,257	4.3	0.7	(2.8–5.7)
Jackson, MS	694	6.1	1.2	(3.6–8.5)
Jacksonville, FL	555	7.5	1.6	(4.3–10.7)
Kahului-Wailuku, HI	1,191	8.1	1.0	(6.1–10.0)
Kansas City, MO-KS	1,873	5.5	0.7	(4.2–6.8)
Kapaa, HI	590	8.8	1.6	(5.7–12.0)
Lancaster, PA	1,232	4.5	0.6	(3.3–5.8)
Las Vegas-Paradise, NV	1,041	7.9	1.0	(6.0–9.8)
Lebanon, NH-VT	1,030	9.5	1.4	(6.7–12.3)
Lincoln, NE	654	7.4	1.4	(4.6–10.1)
Little Rock-North Little Rock, AR	877	6.5	1.2	(4.3–8.8)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	975	4.7	0.8	(3.2–6.2)
Louisville, KY-IN	881	4.4	1.1	(2.3–6.6)
Manchester-Nashua, NH	1,390	7.9	0.9	(6.0–9.7)
Memphis, TN-MS-AR	807	4.9	1.6	(1.8–7.9)
Miami-Miami Beach-Kendall, FL Metropolitan Division	694	3.5	0.9	(1.8–5.1)
Milwaukee-Waukesha-West Allis, WI	1,405	7.3	1.0	(5.3–9.3)
Minneapolis-St. Paul-Bloomington, MN-WI	2,519	5.9	0.6	(4.8–6.9)
Nashville-Davidson-Murfreesboro, TN	707	4.8	1.0	(2.8–6.7)
Newark-Union, NJ-PA Metropolitan Division	1,357	5.0	1.1	(3.0–7.1)
New Haven-Milford, CT	999	5.4	0.8	(3.8–7.0)
New Orleans-Metairie-Kenner, LA	1,248	4.4	0.7	(3.1–5.8)

**TABLE 18. (Continued) Estimated prevalence of persons who reported being heavy drinkers\* — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,569	3.6	0.5	(2.6–4.5)
Norwich-New London, CT	501	6.4	1.3	(3.8–9.0)
Ogden-Clearfield, UT	531	1.9	0.7	(0.6–3.2)
Oklahoma City, OK	1,938	4.0	0.6	(2.9–5.1)
Omaha-Council Bluffs, NE-IA	1,686	5.3	0.8	(3.7–6.8)
Orlando, FL	543	7.1	1.3	(4.6–9.6)
Philadelphia, PA Metropolitan Division	3,153	6.1	0.6	(4.9–7.2)
Phoenix-Mesa-Scottsdale, AZ	1,029	9.3	1.6	(6.2–12.4)
Pittsburgh, PA	3,120	6.3	0.7	(4.9–7.7)
Portland-South Portland, ME	817	7.0	1.0	(5.1–8.9)
Portland-Vancouver-Beaverton, OR-WA	1,573	7.2	0.8	(5.6–8.8)
Providence-New Bedford-Fall River, RI-MA	4,544	6.8	0.5	(5.8–7.7)
Rapid City, SD	565	2.5	0.7	(1.1–4.0)
Reno-Sparks, NV	1,047	9.3	1.1	(7.3–11.4)
Richmond, VA	646	5.9	1.1	(3.8–7.9)
Rockingham County-Strafford County, NH Metropolitan Division	1,499	6.2	0.7	(4.9–7.6)
St. Louis, MO-IL	1,004	7.9	1.1	(5.7–10.1)
Salt Lake City, UT	1,557	4.3	0.6	(3.0–5.5)
Seaford, DE	1,378	6.5	0.8	(4.9–8.0)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,834	6.8	0.8	(5.2–8.4)
Sioux Falls, SD	1,092	4.7	0.8	(3.3–6.2)
Springfield, MA	959	7.9	1.2	(5.5–10.3)
Suffolk County-Nassau County, NY Metropolitan Division	574	3.8	0.9	(1.9–5.6)
Tacoma, WA Metropolitan Division	502	5.3	1.3	(2.7–7.9)
Tampa-St. Petersburg-Clearwater, FL	855	6.8	1.0	(4.9–8.7)
Toledo, OH	548	4.9	1.0	(2.9–6.9)
Topeka, KS	479	3.5	1.0	(1.5–5.4)
Tucson, AZ	719	8.5	1.4	(5.9–11.2)
Tulsa, OK	1,561	3.7	0.6	(2.5–4.8)
Virginia Beach-Norfolk-Newport News, VA-NC	927	4.6	0.7	(3.1–6.0)
Warren-Farmington Hills-Troy, MI Metropolitan Division	928	5.4	0.9	(3.6–7.1)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	3,979	7.6	1.2	(5.2–9.9)
Wichita, KS	851	5.2	0.9	(3.4–6.9)
Willimantic, CT	525	6.3	1.3	(3.8–8.9)
Wilmington, DE-MD-NJ Metropolitan Division	1,474	8.1	1.1	(5.9–10.3)
Winston-Salem, NC	507	4.3	0.9	(2.5–6.1)
Worcester, MA	1,070	6.6	1.0	(4.7–8.6)
Youngstown-Warren-Boardman, OH-PA	637	4.1	1.1	(2.0–6.2)

**Summary:** Number of participants = 98; median: 5.8; mean: 5.8; range: 1.9–9.5.

\* Averaging >2 drinks/day during the preceding month for men and >1 drink/day for women.

**TABLE 19. Estimated prevalence of persons who reported being heavy drinkers\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	484	7.2	1.6	(4.0–10.4)
Anchorage Municipality, Alaska	415	4.0	1.0	(2.1–5.9)
Maricopa County, Arizona	859	9.4	1.6	(6.2–12.6)
Pima County, Arizona	719	8.5	1.4	(5.9–11.2)
Pulaski County, Arkansas	525	6.8	1.5	(3.9–9.8)
Los Angeles County, California	975	4.7	0.8	(3.2–6.2)
Adams County, Colorado	304	10.1	2.1	(5.9–14.2)
Arapahoe County, Colorado	436	4.4	1.1	(2.3–6.5)
Denver County, Colorado	461	6.4	1.4	(3.6–9.2)
Jefferson County, Colorado	464	4.9	1.1	(2.7–7.1)
Fairfield County, Connecticut	999	5.8	0.9	(4.0–7.6)
Hartford County, Connecticut	1,090	4.7	0.7	(3.3–6.1)
Middlesex County, Connecticut	465	6.5	1.3	(4.1–9.0)
Tolland County, Connecticut	500	4.8	1.1	(2.6–7.0)
New Haven County, Connecticut	999	5.4	0.8	(3.8–7.0)
New London County, Connecticut	501	6.4	1.3	(3.8–9.0)
Windham County, Connecticut	525	6.3	1.3	(3.8–8.9)
Kent County, Delaware	1,292	6.5	1.7	(3.2–9.8)
Sussex County, Delaware	1,378	6.5	0.8	(4.9–8.0)
New Castle County, Delaware	1,331	8.8	1.0	(6.8–10.8)
District of Columbia	2,378	6.7	0.6	(5.5–7.9)
Duval County, Florida	350	7.3	1.8	(3.8–10.7)
Miami-Dade County, Florida	694	3.5	0.9	(1.8–5.1)
Orange County, Florida	294	7.2	1.9	(3.4–11.0)
Hillsborough County, Florida	315	6.3	1.4	(3.6–8.9)
Pinellas County, Florida	350	8.5	1.7	(5.2–11.9)
Cobb County, Georgia	250	5.2	1.6	(2.1–8.2)
DeKalb County, Georgia	247	5.7	2.2	(1.4–9.9)
Fulton County, Georgia	273	4.0	1.2	(1.6–6.4)
Hawaii County, Hawaii	1,361	7.3	0.9	(5.5–9.0)
Honolulu County, Hawaii	2,783	3.9	0.5	(3.0–4.8)
Maui County, Hawaii	1,191	8.1	1.0	(6.1–10.0)
Kauai County, Hawaii	590	8.8	1.6	(5.7–12.0)
Ada County, Idaho	623	7.7	1.3	(5.1–10.3)
Canyon County, Idaho	455	5.1	1.1	(2.9–7.2)
Cook County, Illinois	1,799	5.2	0.5	(4.1–6.2)
DuPage County, Illinois	345	7.8	1.7	(4.4–11.2)
Marion County, Indiana	624	4.8	1.1	(2.6–6.9)
Polk County, Iowa	451	5.6	1.3	(3.1–8.1)
Shawnee County, Kansas	374	2.2	0.8	(0.7–3.7)
Sedgwick County, Kansas	650	4.6	0.9	(2.8–6.3)
Jefferson County, Kentucky	390	5.6	2.2	(1.3–9.9)
East Baton Rouge Parish, Louisiana	391	6.2	1.7	(2.9–9.5)
Jefferson Parish, Louisiana	371	4.1	1.3	(1.7–6.6)
Orleans Parish, Louisiana	478	6.3	1.3	(3.7–8.9)
St. Tammany Parish, Louisiana	227	3.7	1.2	(1.2–6.1)
Cumberland County, Maine	480	7.5	1.4	(4.9–10.2)
York County, Maine	279	6.7	1.5	(3.7–9.7)
Anne Arundel County, Maryland	353	3.2	1.2	(0.8–5.6)
Baltimore County, Maryland	495	6.2	1.4	(3.5–8.9)
Baltimore city, Maryland	322	5.0	1.5	(1.9–8.0)
Frederick County, Maryland	272	3.9	1.3	(1.4–6.4)
Montgomery County, Maryland	608	5.2	1.4	(2.5–7.9)
Norfolk County, Massachusetts	521	7.6	1.4	(4.9–10.4)
Plymouth County, Massachusetts	415	8.3	1.7	(5.0–11.6)
Suffolk County, Massachusetts	1,020	7.5	1.1	(5.3–9.7)
Middlesex County, Massachusetts	1,409	6.9	0.9	(5.2–8.7)
Essex County, Massachusetts	760	7.9	1.4	(5.2–10.6)
Hampden County, Massachusetts	712	7.6	1.4	(4.8–10.4)
Worcester County, Massachusetts	1,070	6.6	1.0	(4.7–8.6)

**TABLE 19. (Continued) Estimated prevalence of persons who reported being heavy drinkers\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	696	5.2	0.9	(3.4–6.9)
Macomb County, Michigan	287	6.7	2.0	(2.9–10.6)
Oakland County, Michigan	471	3.3	0.8	(1.7–4.9)
Anoka County, Minnesota	246	5.0	1.5	(2.1–7.9)
Dakota County, Minnesota	313	4.7	1.2	(2.3–7.1)
Hennepin County, Minnesota	975	5.9	0.9	(4.1–7.7)
Ramsey County, Minnesota	406	9.4	1.7	(6.0–12.8)
Hinds County, Mississippi	342	8.0	1.9	(4.3–11.7)
Jackson County, Missouri	411	6.5	1.4	(3.7–9.3)
Johnson County, Kansas	732	6.3	1.0	(4.3–8.3)
St. Louis County, Missouri	334	9.1	2.0	(5.2–13.0)
Lancaster County, Nebraska	614	7.8	1.5	(4.9–10.7)
Douglas County, Nebraska	1,013	5.9	1.1	(3.8–8.0)
Sarpy County, Nebraska	286	5.2	2.1	(1.0–9.3)
Clark County, Nevada	1,041	7.9	1.0	(6.0–9.8)
Washoe County, Nevada	1,038	9.4	1.1	(7.3–11.5)
Merrimack County, New Hampshire	588	9.0	1.7	(5.7–12.3)
Grafton County, New Hampshire	383	9.1	2.0	(5.2–13.0)
Orange County, Vermont	236	6.1	1.9	(2.5–9.7)
Windsor County, Vermont	411	8.4	1.5	(5.3–11.4)
Hillsborough County, New Hampshire	1,390	7.9	0.9	(6.0–9.7)
Rockingham County, New Hampshire	1,040	7.1	0.9	(5.3–8.8)
Strafford County, New Hampshire	459	4.1	1.0	(2.2–6.1)
Monmouth County, New Jersey	257	4.1	2.0	(0.1–8.0)
Somerset County, New Jersey	517	4.6	1.2	(2.3–6.9)
Essex County, New Jersey	431	4.1	1.4	(1.3–6.8)
Morris County, New Jersey	485	4.3	1.5	(1.5–7.2)
Bernalillo County, New Mexico	874	6.3	1.0	(4.3–8.2)
Sandoval County, New Mexico	227	3.2	1.1	(1.0–5.4)
Bergen County, New Jersey	1,251	2.9	0.5	(1.9–4.0)
Kings County, New York	414	1.7	0.7	(0.4–2.9)
Queens County, New York	313	2.9	1.0	(0.9–4.8)
Suffolk County, New York	322	3.6	1.3	(1.2–6.1)
Buncombe County, North Carolina	410	4.4	1.7	(1.2–7.7)
Henderson County, North Carolina	334	2.9	0.9	(1.0–4.7)
Orange County, North Carolina	438	4.9	1.1	(2.8–7.0)
Guilford County, North Carolina	420	2.1	0.7	(0.7–3.5)
Randolph County, North Carolina	425	2.5	0.8	(0.9–4.0)
Forsyth County, North Carolina	464	5.6	1.2	(3.3–7.9)
Cass County, North Dakota	522	7.6	1.4	(4.9–10.4)
Summit County, Ohio	488	7.2	1.4	(4.5–9.8)
Montgomery County, Ohio	499	6.7	1.3	(4.2–9.2)
Lucas County, Ohio	491	6.7	1.3	(4.1–9.2)
Mahoning County, Ohio	494	4.6	1.2	(2.4–6.9)
Cleveland County, Oklahoma	317	2.0	0.8	(0.5–3.5)
Oklahoma County, Oklahoma	1,125	4.9	0.9	(3.2–6.5)
Tulsa County, Oklahoma	1,001	3.1	0.6	(1.9–4.3)
Clackamas County, Oregon	281	6.1	1.7	(2.8–9.4)
Clark County, Washington	285	5.5	1.6	(2.3–8.7)
Multnomah County, Oregon	551	9.5	1.6	(6.5–12.6)
Washington County, Oregon	345	6.0	1.4	(3.2–8.8)
Franklin County, Pennsylvania	1,306	3.4	0.6	(2.3–4.5)
Lancaster County, Pennsylvania	1,232	4.5	0.6	(3.3–5.8)
Bucks County, Pennsylvania	360	6.1	1.4	(3.4–8.9)
Chester County, Pennsylvania	1,224	7.0	1.1	(4.9–9.0)
Delaware County, Pennsylvania	343	7.1	1.8	(3.5–10.7)
Montgomery County, Pennsylvania	515	5.5	1.3	(3.0–8.0)
Philadelphia County, Pennsylvania	711	5.7	1.0	(3.8–7.6)
Allegheny County, Pennsylvania	949	7.0	1.1	(4.9–9.0)
Armstrong County, Pennsylvania	1,346	4.0	0.6	(2.7–5.2)

**TABLE 19. (Continued) Estimated prevalence of persons who reported being heavy drinkers\* — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	289	4.6	1.3	(2.1–7.1)
Bristol County, Massachusetts	746	5.6	0.9	(3.8–7.4)
Kent County, Rhode Island	543	6.2	1.0	(4.2–8.2)
Providence County, Rhode Island	2,325	6.9	0.7	(5.4–8.3)
Washington County, Rhode Island	467	8.3	1.5	(5.4–11.2)
Richland County, South Carolina	251	11.3	2.8	(5.9–16.7)
Darlington County, South Carolina	321	3.9	1.2	(1.6–6.2)
Florence County, South Carolina	554	2.9	0.7	(1.5–4.4)
Pennington County, South Dakota	435	2.8	0.9	(1.1–4.5)
Minnehaha County, South Dakota	829	4.9	0.9	(3.1–6.6)
Shelby County, Tennessee	468	5.1	1.9	(1.4–8.8)
Davidson County, Tennessee	303	4.9	1.5	(2.0–7.8)
Dallas County, Texas	538	6.8	1.6	(3.8–9.9)
Harris County, Texas	785	5.3	1.1	(3.2–7.4)
Davis County, Utah	257	2.1	1.0	(0.2–3.9)
Weber County, Utah	266	N/A <sup>†</sup>	N/A	N/A
Salt Lake County, Utah	1,036	4.2	0.7	(2.9–5.5)
Tooele County, Utah	263	4.0	2.0	(0.1–7.8)
Chittenden County, Vermont	863	8.8	1.3	(6.3–11.4)
Franklin County, Vermont	297	5.9	1.7	(2.6–9.2)
King County, Washington	1,362	7.4	1.1	(5.3–9.5)
Snohomish County, Washington	472	5.4	1.2	(3.0–7.8)
Pierce County, Washington	502	5.3	1.3	(2.7–7.9)
Kanawha County, West Virginia	372	5.3	1.4	(2.5–8.1)
Milwaukee County, Wisconsin	1,104	7.1	1.1	(4.9–9.3)
Laramie County, Wyoming	556	3.9	1.0	(1.9–5.8)

**Summary:** Number of participants = 145; median: 5.8; mean: 5.8; range: 1.7–11.3.

\* Averaging >2 drinks/day during the preceding month for men and >1 drink/day for women.

<sup>†</sup> Estimate not available (N/A) if the unweighted sample size for the denominator is <50 or the confidence interval half width is >10.

**TABLE 20. Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample Size	%	Standard Error	95% Confidence interval
Alabama	3,088	8.5	0.5	(7.5–9.5)
Alaska	2,692	3.5	0.4	(2.7–4.3)
Arizona	3,224	6.4	0.6	(5.2–7.6)
Arkansas	3,893	7.9	0.5	(6.9–8.9)
California	4,213	7.4	0.6	(6.2–8.6)
Colorado	4,050	4.4	0.4	(3.6–5.2)
Connecticut	5,553	5.9	0.4	(5.1–6.7)
Delaware	4,027	7.1	0.5	(6.1–8.1)
District of Columbia	2,404	7.6	0.7	(6.2–9.0)
Florida	6,135	7.6	0.4	(6.8–8.4)
Georgia	5,056	7.1	0.4	(6.3–7.9)
Hawaii	5,976	5.8	0.4	(5.0–6.6)
Idaho	5,033	6.1	0.4	(5.3–6.9)
Illinois	5,241	6.8	0.4	(6.0–7.6)
Indiana	5,782	7.4	0.4	(6.6–8.2)
Iowa	3,660	6.5	0.5	(5.5–7.5)
Kansas	4,596	6.4	0.4	(5.6–7.2)
Kentucky	7,055	7.0	0.4	(6.2–7.8)
Louisiana	5,027	7.1	0.4	(6.3–7.9)
Maine	2,435	7.3	0.6	(6.1–8.5)
Maryland	4,396	6.9	0.5	(5.9–7.9)
Massachusetts	7,412	5.8	0.3	(5.2–6.4)
Michigan	5,925	7.9	0.4	(7.1–8.7)
Minnesota	4,481	4.9	0.3	(4.3–5.5)
Mississippi	4,078	8.6	0.5	(7.6–9.6)
Missouri	4,727	7.3	0.5	(6.3–8.3)
Montana	4,034	5.5	0.5	(4.5–6.5)
Nebraska	4,378	5.8	0.4	(5.0–6.6)
Nevada	3,152	6.2	0.6	(5.0–7.4)
New Hampshire	5,031	6.2	0.4	(5.4–7.0)
New Jersey	6,173	6.1	0.5	(5.1–7.1)
New Mexico	4,670	6.2	0.4	(5.4–7.0)
New York	4,464	7.2	0.5	(6.2–8.2)
North Carolina	6,740	7.2	0.4	(6.4–8.0)
North Dakota	2,994	6.1	0.5	(5.1–7.1)
Ohio	4,084	7.7	0.5	(6.7–8.7)
Oklahoma	6,763	6.7	0.3	(6.1–7.3)
Oregon	3,074	6.2	0.5	(5.2–7.2)
Pennsylvania	13,479	8.1	0.3	(7.5–8.7)
Rhode Island	3,835	5.6	0.4	(4.8–6.4)
South Carolina	4,497	8.4	0.5	(7.4–9.4)
South Dakota	4,786	6.3	0.4	(5.5–7.1)
Tennessee	3,197	8.5	0.6	(7.3–9.7)
Texas	6,098	7.0	0.4	(6.2–7.8)
Utah	4,077	4.4	0.4	(3.6–5.2)
Vermont	4,234	5.9	0.4	(5.1–6.7)
Virginia	4,390	6.2	0.5	(5.2–7.2)
Washington	4,882	5.8	0.4	(5.0–6.6)
West Virginia	3,345	10.2	0.6	(9.0–11.4)
Wisconsin	4,352	5.1	0.4	(4.3–5.9)
Wyoming	3,543	5.6	0.4	(4.8–6.4)
Guam	827	8.4	1.2	(6.0–10.8)
Puerto Rico	4,118	10.5	0.6	(9.3–11.7)
Virgin Islands	2,274	9.1	0.7	(7.7–10.5)

**Summary:** Number of participants = 54; median: 6.8; range: 3.5–10.5.



**TABLE 21. Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	539	6.7	1.2	(4.3–9.0)
Albuquerque, NM	1,312	5.1	0.6	(3.9–6.3)
Anchorage, AK	510	2.7	0.6	(1.4–4.0)
Asheville, NC	821	5.8	1.1	(3.7–7.9)
Atlanta-Sandy Springs-Marietta, GA	1,891	5.2	0.6	(4.0–6.4)
Baltimore-Towson, MD	1,663	6.2	0.7	(4.9–7.5)
Baton Rouge, LA	741	6.3	1.0	(4.4–8.2)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	891	5.5	0.9	(3.8–7.2)
Birmingham-Hoover, AL	806	10.0	1.2	(7.7–12.2)
Boise City-Nampa, ID	1,214	5.6	0.7	(4.1–7.0)
Boston-Quincy, MA Metropolitan Division	1,988	5.0	0.6	(3.8–6.1)
Bridgeport-Stamford-Norwalk, CT	1,007	4.4	0.8	(2.8–5.9)
Burlington-South Burlington, VT	1,221	5.5	0.8	(3.9–7.0)
Cambridge-Newton-Framingham, MA Metropolitan Division	1,425	5.1	0.7	(3.7–6.5)
Chambersburg, PA	1,310	6.7	0.8	(5.2–8.2)
Charleston, WV	578	11.1	1.5	(8.1–14.1)
Cheyenne, WY	558	6.2	1.1	(4.1–8.3)
Chicago-Naperville-Joliet, IL Metropolitan Division	2,729	6.3	0.6	(5.2–7.4)
Cincinnati-Middletown, OH-KY-IN	847	6.4	1.1	(4.3–8.6)
Columbia, SC	516	9.4	1.4	(6.6–12.2)
Concord, NH	594	7.3	1.3	(4.8–9.8)
Dallas-Plano-Irving, TX Metropolitan Division	882	7.5	1.1	(5.2–9.7)
Dayton, OH	595	7.7	1.2	(5.3–10.1)
Denver-Aurora, CO	1,880	4.7	0.6	(3.5–5.8)
Des Moines, IA	626	5.4	0.9	(3.6–7.3)
Detroit-Livonia-Dearborn, MI Metropolitan Division	706	8.7	1.2	(6.4–11.0)
Dover, DE	1,297	8.5	0.9	(6.7–10.3)
Durham, NC	629	3.5	1.5	(0.7–6.4)
Edison, NJ Metropolitan Division	2,118	5.3	0.7	(3.9–6.7)
Essex County, MA Metropolitan Division	770	6.8	1.3	(4.4–9.3)
Fargo, ND-MN	575	5.0	1.1	(2.9–7.2)
Florence, SC	880	8.3	1.1	(6.1–10.4)
Greensboro-High Point, NC	887	6.9	1.0	(4.9–8.9)
Hartford-West Hartford-East Hartford, CT	2,083	6.1	0.6	(4.9–7.4)
Hilo, HI	1,370	5.4	0.7	(4.1–6.6)
Honolulu, HI	2,804	6.0	0.5	(5.0–7.0)
Houston-Baytown-Sugar Land, TX	1,162	6.3	0.8	(4.8–7.8)
Huntington-Ashland, WV-KY-OH	582	8.9	1.5	(5.9–11.9)
Indianapolis, IN	1,270	8.0	0.9	(6.3–9.7)
Jackson, MS	702	8.7	1.1	(6.5–10.8)
Jacksonville, FL	568	8.4	1.7	(5.1–11.6)
Kahului-Wailuku, HI	1,202	5.0	0.7	(3.6–6.3)
Kansas City, MO-KS	1,895	7.0	0.7	(5.6–8.4)
Kapaa, HI	600	5.9	1.1	(3.8–8.0)
Lancaster, PA	1,239	6.1	0.7	(4.6–7.5)
Las Vegas-Paradise, NV	1,059	6.5	0.9	(4.8–8.1)
Lebanon, NH-VT	1,042	5.9	0.8	(4.4–7.4)
Lincoln, NE	661	6.8	1.2	(4.5–9.2)
Little Rock-North Little Rock, AR	880	6.5	0.9	(4.8–8.2)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	983	8.7	1.2	(6.3–11.1)
Louisville, KY-IN	898	5.3	0.8	(3.7–6.8)
Manchester-Nashua, NH	1,402	6.2	0.7	(4.9–7.5)
Memphis, TN-MS-AR	825	9.1	1.3	(6.6–11.6)
Miami-Miami Beach-Kendall, FL Metropolitan Division	704	7.8	1.3	(5.3–10.3)
Milwaukee-Waukesha-West Allis, WI	1,419	5.1	0.7	(3.7–6.5)
Minneapolis-St. Paul-Bloomington, MN-WI	2,533	4.4	0.4	(3.6–5.2)
Nashville-Davidson-Murfreesboro, TN	718	5.6	0.9	(3.7–7.4)
Newark-Union, NJ-PA Metropolitan Division	1,375	8.0	1.3	(5.5–10.5)
New Haven-Milford, CT	1,012	6.8	0.9	(5.2–8.5)
New Orleans-Metairie-Kenner, LA	1,290	9.2	1.0	(7.2–11.1)

**TABLE 21. (Continued) Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	3,607	7.8	0.7	(6.3–9.3)
Norwich-New London, CT	510	6.7	1.2	(4.4–9.0)
Ogden-Clearfield, UT	535	3.2	0.7	(1.7–4.6)
Oklahoma City, OK	1,961	5.9	0.6	(4.8–7.0)
Omaha-Council Bluffs, NE-IA	1,701	6.1	0.7	(4.8–7.5)
Orlando, FL	555	5.5	1.1	(3.4–7.5)
Philadelphia, PA Metropolitan Division	3,179	7.4	0.6	(6.1–8.6)
Phoenix-Mesa-Scottsdale, AZ	1,040	6.2	0.8	(4.6–7.8)
Pittsburgh, PA	3,138	8.9	0.8	(7.4–10.4)
Portland-South Portland, ME	830	5.5	0.8	(3.9–7.1)
Portland-Vancouver-Beaverton, OR-WA	1,588	5.3	0.7	(4.0–6.5)
Providence-New Bedford-Fall River, RI-MA	4,587	5.9	0.4	(5.1–6.7)
Rapid City, SD	568	5.7	1.3	(3.2–8.2)
Reno-Sparks, NV	1,054	5.2	0.8	(3.7–6.7)
Richmond, VA	654	6.5	1.1	(4.5–8.6)
Rockingham County-Strafford County, NH Metropolitan Division	1,512	5.6	0.7	(4.3–6.9)
St. Louis, MO-IL	1,011	7.4	0.9	(5.6–9.1)
Salt Lake City, UT	1,561	5.0	0.8	(3.5–6.5)
Seaford, DE	1,386	9.4	0.8	(7.8–11.1)
Seattle-Bellevue-Everett, WA Metropolitan Division	1,847	5.2	0.6	(4.0–6.3)
Sioux Falls, SD	1,098	4.9	0.7	(3.5–6.3)
Springfield, MA	972	7.0	1.0	(5.0–9.0)
Suffolk County-Nassau County, NY Metropolitan Division	578	4.7	1.0	(2.7–6.6)
Tacoma, WA Metropolitan Division	505	7.6	1.6	(4.4–10.8)
Tampa-St. Petersburg-Clearwater, FL	861	7.0	1.0	(5.0–8.9)
Toledo, OH	552	6.9	1.4	(4.1–9.7)
Topeka, KS	499	8.1	1.3	(5.6–10.6)
Tucson, AZ	729	5.6	0.9	(3.8–7.3)
Tulsa, OK	1,575	5.8	0.6	(4.6–7.0)
Virginia Beach-Norfolk-Newport News, VA-NC	934	5.7	0.8	(4.1–7.2)
Warren-Farmington Hills-Troy, MI Metropolitan Division	930	7.9	1.0	(6.0–9.8)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	4,019	6.0	0.7	(4.5–7.4)
Wichita, KS	867	6.4	0.8	(4.8–8.1)
Willimantic, CT	536	7.1	1.2	(4.7–9.4)
Wilmington, DE-MD-NJ Metropolitan Division	1,487	6.3	0.8	(4.7–7.8)
Winston-Salem, NC	509	5.9	1.2	(3.5–8.4)
Worcester, MA	1,081	6.8	0.9	(5.1–8.5)
Youngstown-Warren-Boardman, OH-PA	639	7.0	1.3	(4.4–9.5)

**Summary:** Number of participants = 98; median: 6.2; mean: 6.5; range: 2.7–11.1.

**TABLE 22. Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	484	9.3	1.4	(6.7–11.9)
Anchorage Municipality, Alaska	416	2.6	0.7	(1.2–4.0)
Maricopa County, Arizona	868	5.8	0.9	(4.1–7.4)
Pima County, Arizona	729	5.6	0.9	(3.8–7.3)
Pulaski County, Arkansas	529	7.2	1.2	(4.8–9.5)
Los Angeles County, California	983	8.7	1.2	(6.3–11.1)
Adams County, Colorado	305	6.8	1.4	(4.2–9.5)
Arapahoe County, Colorado	439	4.5	1.1	(2.4–6.6)
Denver County, Colorado	466	4.1	1.2	(1.7–6.5)
Jefferson County, Colorado	468	2.7	0.8	(1.1–4.2)
Fairfield County, Connecticut	1,007	4.4	0.8	(2.8–5.9)
Hartford County, Connecticut	1,102	6.6	0.9	(4.9–8.2)
Middlesex County, Connecticut	470	5.4	1.2	(3.0–7.7)
Tolland County, Connecticut	511	5.0	1.1	(2.9–7.1)
New Haven County, Connecticut	1,012	6.8	0.9	(5.2–8.5)
New London County, Connecticut	510	6.7	1.2	(4.4–9.0)
Windham County, Connecticut	536	7.1	1.2	(4.7–9.4)
Kent County, Delaware	1,297	8.5	0.9	(6.7–10.3)
Sussex County, Delaware	1,386	9.4	0.8	(7.8–11.1)
New Castle County, Delaware	1,344	6.1	0.8	(4.5–7.6)
District of Columbia	2,404	7.6	0.7	(6.1–9.0)
Duval County, Florida	356	6.9	1.5	(4.0–9.7)
Miami-Dade County, Florida	704	7.8	1.3	(5.3–10.3)
Orange County, Florida	300	7.0	1.8	(3.5–10.5)
Hillsborough County, Florida	314	5.2	1.2	(2.9–7.6)
Pinellas County, Florida	355	8.6	1.8	(5.0–12.2)
Cobb County, Georgia	252	4.8	1.6	(1.7–7.9)
DeKalb County, Georgia	252	5.0	1.5	(2.1–7.8)
Fulton County, Georgia	280	4.8	1.7	(1.4–8.1)
Hawaii County, Hawaii	1,370	5.4	0.7	(4.1–6.6)
Honolulu County, Hawaii	2,804	6.0	0.5	(5.0–7.0)
Maui County, Hawaii	1,202	5.0	0.7	(3.6–6.3)
Kauai County, Hawaii	600	5.9	1.1	(3.8–8.0)
Ada County, Idaho	627	4.8	0.9	(3.0–6.5)
Canyon County, Idaho	455	8.5	1.6	(5.3–11.7)
Cook County, Illinois	1,810	7.0	0.7	(5.6–8.4)
DuPage County, Illinois	346	4.5	1.3	(2.0–7.0)
Marion County, Indiana	632	8.5	1.3	(5.9–11.0)
Polk County, Iowa	456	6.0	1.2	(3.7–8.2)
Shawnee County, Kansas	393	9.4	1.6	(6.3–12.6)
Sedgwick County, Kansas	663	6.8	1.0	(4.9–8.8)
Jefferson County, Kentucky	403	5.1	1.1	(2.8–7.3)
East Baton Rouge Parish, Louisiana	401	4.9	1.1	(2.8–7.1)
Jefferson Parish, Louisiana	383	8.0	1.8	(4.6–11.5)
Orleans Parish, Louisiana	497	9.7	1.5	(6.8–12.5)
St. Tammany Parish, Louisiana	233	6.2	1.6	(3.0–9.4)
Cumberland County, Maine	486	5.1	1.0	(3.1–7.1)
York County, Maine	286	6.0	1.5	(3.0–9.0)
Anne Arundel County, Maryland	353	4.7	1.1	(2.5–6.9)
Baltimore County, Maryland	504	5.1	1.0	(3.0–7.1)
Baltimore city, Maryland	327	7.9	1.6	(4.7–11.1)
Frederick County, Maryland	276	6.0	1.7	(2.7–9.2)
Montgomery County, Maryland	615	5.2	1.0	(3.3–7.2)
Norfolk County, Massachusetts	529	4.0	0.9	(2.3–5.7)
Plymouth County, Massachusetts	419	5.3	1.2	(3.0–7.5)
Suffolk County, Massachusetts	1,040	5.6	0.9	(3.8–7.4)
Middlesex County, Massachusetts	1,425	5.1	0.7	(3.7–6.5)
Essex County, Massachusetts	770	6.8	1.3	(4.4–9.3)
Hampden County, Massachusetts	723	8.3	1.4	(5.7–11.0)
Worcester County, Massachusetts	1,081	6.8	0.9	(5.1–8.5)

**TABLE 22. (Continued) Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	706	8.7	1.2	(6.4–11.0)
Macomb County, Michigan	287	7.0	1.5	(4.1–10.0)
Oakland County, Michigan	472	7.6	1.5	(4.8–10.5)
Anoka County, Minnesota	248	4.8	1.4	(2.1–7.5)
Dakota County, Minnesota	314	4.9	1.3	(2.3–7.4)
Hennepin County, Minnesota	980	3.9	0.6	(2.7–5.1)
Ramsey County, Minnesota	407	4.8	1.1	(2.7–6.9)
Hinds County, Mississippi	345	10.6	1.8	(7.1–14.0)
Jackson County, Missouri	414	8.0	1.3	(5.4–10.6)
Johnson County, Kansas	740	4.2	0.8	(2.6–5.9)
St. Louis County, Missouri	335	6.4	1.4	(3.7–9.1)
Lancaster County, Nebraska	621	6.6	1.2	(4.2–9.0)
Douglas County, Nebraska	1,018	5.9	0.9	(4.2–7.6)
Sarpy County, Nebraska	290	3.6	1.2	(1.2–6.0)
Clark County, Nevada	1,059	6.5	0.9	(4.8–8.1)
Washoe County, Nevada	1,043	5.1	0.8	(3.7–6.6)
Merrimack County, New Hampshire	594	7.3	1.3	(4.8–9.8)
Grafton County, New Hampshire	389	4.8	1.2	(2.6–7.1)
Orange County, Vermont	241	6.1	1.7	(2.7–9.4)
Windsor County, Vermont	412	7.1	1.4	(4.5–9.8)
Hillsborough County, New Hampshire	1,402	6.2	0.7	(4.9–7.5)
Rockingham County, New Hampshire	1,049	4.9	0.7	(3.4–6.3)
Strafford County, New Hampshire	463	7.6	1.4	(4.9–10.2)
Monmouth County, New Jersey	260	2.6	1.0	(0.7–4.5)
Somerset County, New Jersey	521	5.6	1.1	(3.4–7.8)
Essex County, New Jersey	440	8.8	2.4	(4.2–13.5)
Morris County, New Jersey	487	3.2	0.9	(1.4–4.9)
Bernalillo County, New Mexico	878	5.1	0.7	(3.7–6.6)
Sandoval County, New Mexico	230	4.7	1.5	(1.8–7.6)
Bergen County, New Jersey	1,257	5.7	1.1	(3.5–7.9)
Kings County, New York	420	10.3	1.8	(6.7–13.9)
Queens County, New York	314	9.0	2.1	(4.9–13.1)
Suffolk County, New York	323	5.3	1.4	(2.7–8.0)
Buncombe County, North Carolina	414	4.7	1.2	(2.4–7.0)
Henderson County, North Carolina	337	6.2	1.8	(2.6–9.7)
Orange County, North Carolina	441	2.9	0.9	(1.2–4.6)
Guilford County, North Carolina	424	6.0	1.2	(3.7–8.3)
Randolph County, North Carolina	432	8.8	1.8	(5.2–12.3)
Forsyth County, North Carolina	465	5.8	1.1	(3.6–8.0)
Cass County, North Dakota	526	5.4	1.1	(3.3–7.6)
Summit County, Ohio	491	6.8	1.2	(4.5–9.1)
Montgomery County, Ohio	509	9.5	1.5	(6.6–12.4)
Lucas County, Ohio	492	7.8	1.5	(4.9–10.6)
Mahoning County, Ohio	496	7.3	1.4	(4.6–10.1)
Cleveland County, Oklahoma	321	5.2	1.5	(2.3–8.1)
Oklahoma County, Oklahoma	1,137	5.8	0.7	(4.5–7.2)
Tulsa County, Oklahoma	1,010	5.2	0.7	(3.8–6.6)
Clackamas County, Oregon	284	4.1	1.3	(1.6–6.6)
Clark County, Washington	290	4.7	1.4	(2.1–7.3)
Multnomah County, Oregon	554	7.0	1.4	(4.2–9.8)
Washington County, Oregon	348	5.0	1.4	(2.3–7.7)
Franklin County, Pennsylvania	1,310	6.7	0.8	(5.2–8.2)
Lancaster County, Pennsylvania	1,239	6.1	0.7	(4.6–7.5)
Bucks County, Pennsylvania	364	8.5	1.5	(5.6–11.5)
Chester County, Pennsylvania	1,230	5.1	0.7	(3.8–6.5)
Delaware County, Pennsylvania	347	8.4	1.8	(4.8–11.9)
Montgomery County, Pennsylvania	519	5.8	1.2	(3.4–8.2)
Philadelphia County, Pennsylvania	719	7.9	1.2	(5.5–10.2)
Allegheny County, Pennsylvania	957	9.6	1.1	(7.4–11.8)
Armstrong County, Pennsylvania	1,350	8.7	1.4	(5.9–11.5)

**TABLE 22. (Continued) Estimated prevalence of persons who had been told by a health-care provider that they have diabetes — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	293	8.0	1.7	(4.6–11.4)
Bristol County, Massachusetts	752	6.6	1.0	(4.6–8.6)
Kent County, Rhode Island	546	4.8	1.0	(3.0–6.7)
Providence County, Rhode Island	2,351	6.4	0.6	(5.3–7.5)
Washington County, Rhode Island	470	2.6	0.8	(1.1–4.1)
Richland County, South Carolina	253	11.1	2.2	(6.7–15.5)
Darlington County, South Carolina	322	7.4	1.5	(4.5–10.2)
Florence County, South Carolina	558	8.8	1.5	(5.9–11.8)
Pennington County, South Dakota	438	6.0	1.6	(2.9–9.0)
Minnehaha County, South Dakota	834	4.8	0.8	(3.3–6.3)
Shelby County, Tennessee	479	9.1	1.5	(6.1–12.1)
Davidson County, Tennessee	309	6.8	1.6	(3.6–9.9)
Dallas County, Texas	541	8.3	1.5	(5.3–11.2)
Harris County, Texas	794	6.0	0.9	(4.2–7.8)
Davis County, Utah	259	3.9	1.2	(1.5–6.3)
Weber County, Utah	268	2.4	0.8	(0.8–4.0)
Salt Lake County, Utah	1,037	5.0	0.8	(3.4–6.6)
Tooele County, Utah	265	6.4	1.5	(3.4–9.3)
Chittenden County, Vermont	871	4.8	0.9	(3.1–6.6)
Franklin County, Vermont	299	5.9	1.4	(3.1–8.6)
King County, Washington	1,369	5.4	0.7	(4.0–6.7)
Snohomish County, Washington	478	4.8	1.2	(2.5–7.1)
Pierce County, Washington	505	7.6	1.6	(4.4–10.8)
Kanawha County, West Virginia	376	11.0	1.9	(7.3–14.6)
Milwaukee County, Wisconsin	1,114	5.7	0.8	(4.1–7.3)
Laramie County, Wyoming	558	6.2	1.1	(4.1–8.3)

**Summary:** Number of participants = 146; median: 6.0; mean: 6.3; range: 2.4–11.1.

**TABLE 23. Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,431	48.7	1.5	(45.8–51.6)
Alaska	915	51.4	2.7	(46.1–56.7)
Arizona	1,681	51.8	1.9	(48.1–55.5)
Arkansas	1,871	42.9	1.3	(40.4–45.4)
California	1,645	50.7	1.5	(47.8–53.6)
Colorado	1,635	48.7	1.6	(45.6–51.8)
Connecticut	2,398	56.4	1.2	(54.0–58.8)
Delaware	1,874	57.4	1.6	(54.3–60.5)
District of Columbia	890	61.4	2.0	(57.5–65.3)
Florida	2,984	51.5	1.1	(49.3–53.7)
Georgia	2,007	49.2	1.4	(46.5–51.9)
Hawaii	2,709	39.2	1.3	(36.7–41.7)
Idaho	2,222	46.3	1.2	(43.9–48.7)
Illinois	2,128	45.1	1.3	(42.6–47.6)
Indiana	2,429	44.1	1.1	(41.9–46.3)
Iowa	1,757	48.6	1.4	(45.9–51.3)
Kansas	1,949	47.7	1.2	(45.3–50.1)
Kentucky	3,461	43.9	1.2	(41.5–46.3)
Louisiana	2,164	40.6	1.2	(38.2–43.0)
Maine	1,082	47.3	1.7	(44.0–50.6)
Maryland	1,828	54.8	1.5	(51.9–57.7)
Massachusetts	2,934	53.4	1.1	(51.2–55.6)
Michigan	2,621	55.1	1.2	(52.7–57.5)
Minnesota	1,999	64.8	1.2	(62.4–67.2)
Mississippi	1,863	42.9	1.3	(40.4–45.4)
Missouri	2,253	44.2	1.5	(41.3–47.1)
Montana	1,879	47.3	1.5	(44.4–50.2)
Nebraska	2,032	42.2	1.2	(39.8–44.6)
Nevada	1,368	45.4	1.9	(41.7–49.1)
New Hampshire	2,100	50.1	1.2	(47.7–52.5)
New Jersey	2,713	48.2	2.0	(44.3–52.1)
New Mexico	2,223	44.2	1.3	(41.7–46.7)
New York	1,791	51.5	1.4	(48.8–54.2)
North Carolina	2,987	47.8	1.4	(45.1–50.5)
North Dakota	1,336	50.2	1.5	(47.3–53.1)
Ohio	1,717	46.0	1.4	(43.3–48.7)
Oklahoma	3,405	40.7	1.0	(38.7–42.7)
Oregon	1,412	52.7	1.5	(49.8–55.6)
Pennsylvania	6,112	48.0	0.8	(46.4–49.6)
Rhode Island	1,571	54.6	1.4	(51.9–57.3)
South Carolina	2,009	49.2	1.4	(46.5–51.9)
South Dakota	2,278	41.8	1.2	(39.4–44.2)
Tennessee	1,426	46.1	1.5	(43.2–49.0)
Texas	2,272	45.5	1.3	(43.0–48.0)
Utah	1,537	50.5	1.7	(47.2–53.8)
Vermont	1,868	52.9	1.3	(50.4–55.4)
Virginia	1,816	50.1	1.7	(46.8–53.4)
Washington	2,070	54.7	1.4	(52.0–57.4)
West Virginia	1,679	40.4	1.3	(37.9–42.9)
Wisconsin	1,826	56.4	1.4	(53.7–59.1)
Wyoming	1,612	42.1	1.3	(39.6–44.6)
Guam	198	30.6	3.9	(23.0–38.2)
Puerto Rico	1,878	33.6	1.4	(30.9–36.3)
Virgin Islands	865	30.7	2.1	(26.6–34.8)

**Summary:** Number of participants = 54; median: 48.1; range: 30.6–64.8.

**TABLE 24. Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	231	54.3	4.0	(46.6–62.1)
Albuquerque, NM	598	48.8	2.3	(44.3–53.4)
Anchorage, AK	159	54.9	4.8	(45.5–64.2)
Asheville, NC	431	53.0	3.2	(46.8–59.2)
Atlanta-Sandy Springs-Marietta, GA	644	50.3	2.4	(45.7–55.0)
Baltimore-Towson, MD	679	54.9	2.2	(50.5–59.2)
Baton Rouge, LA	307	44.9	3.4	(38.2–51.5)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	361	59.5	3.1	(53.4–65.6)
Birmingham-Hoover, AL	372	54.4	3.0	(48.5–60.4)
Boise City-Nampa, ID	470	50.1	2.7	(44.9–55.4)
Boston-Quincy, MA Metropolitan Division	698	53.8	2.3	(49.3–58.4)
Bridgeport-Stamford-Norwalk, CT	446	56.8	2.7	(51.5–62.1)
Burlington-South Burlington, VT	478	57.7	2.5	(52.8–62.6)
Cambridge-Newton-Framingham, MA Metropolitan Division	547	57.3	2.5	(52.4–62.1)
Chambersburg, PA	642	47.9	3.0	(42.1–53.6)
Charleston, WV	285	40.9	3.2	(34.5–47.2)
Cheyenne, WY	245	49.9	3.6	(42.9–57.0)
Chicago-Naperville-Joliet, IL Metropolitan Division	965	45.5	2.0	(41.6–49.3)
Cincinnati-Middletown, OH-KY-IN	380	52.5	3.9	(44.9–60.2)
Columbia, SC	214	58.1	3.7	(50.8–65.4)
Concord, NH	254	53.7	3.6	(46.6–60.7)
Dallas-Plano-Irving, TX Metropolitan Division	277	49.0	3.5	(42.1–56.0)
Dayton, OH	249	52.8	4.2	(44.6–61.1)
Denver-Aurora, CO	750	48.2	2.2	(43.8–52.5)
Des Moines, IA	258	50.7	3.5	(43.9–57.6)
Detroit-Livonia-Dearborn, MI Metropolitan Division	307	51.6	3.4	(44.8–58.3)
Dover, DE	540	53.3	2.4	(48.5–58.0)
Durham, NC	242	N/A	N/A	N/A
Edison, NJ Metropolitan Division	893	50.3	3.4	(43.6–56.9)
Essex County, MA Metropolitan Division	303	52.3	3.5	(45.3–59.2)
Fargo, ND-MN	220	63.3	4.7	(54.1–72.5)
Florence, SC	403	47.1	3.1	(41.1–53.2)
Greensboro-High Point, NC	408	45.2	3.4	(38.6–51.9)
Hartford-West Hartford-East Hartford, CT	889	56.6	2.0	(52.6–60.6)
Hilo, HI	736	33.2	1.9	(29.4–36.9)
Honolulu, HI	1,144	41.8	1.7	(38.4–45.1)
Houston-Baytown-Sugar Land, TX	384	50.4	2.9	(44.7–56.1)
Huntington-Ashland, WV-KY-OH	297	33.8	3.6	(26.8–40.7)
Indianapolis, IN	487	52.4	2.5	(47.4–57.3)
Jackson, MS	315	46.2	3.2	(40.0–52.4)
Jacksonville, FL	255	48.3	3.6	(41.2–55.3)
Kahului-Wailuku, HI	527	30.7	2.4	(26.1–35.3)
Kansas City, MO-KS	776	50.1	2.3	(45.7–54.6)
Kapaa, HI	302	37.1	3.2	(30.8–43.3)
Lancaster, PA	516	45.0	2.4	(40.2–49.8)
Las Vegas-Paradise, NV	432	45.6	2.7	(40.3–50.9)
Lebanon, NH-VT	470	49.6	2.6	(44.5–54.6)
Lincoln, NE	261	45.3	3.6	(38.3–52.4)
Little Rock-North Little Rock, AR	390	49.1	2.8	(43.6–54.5)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	336	45.9	3.4	(39.2–52.5)
Louisville, KY-IN	411	51.8	3.1	(45.7–57.8)
Manchester-Nashua, NH	533	48.1	2.4	(43.4–52.9)
Memphis, TN-MS-AR	342	44.5	3.3	(37.9–51.0)
Miami-Miami Beach-Kendall, FL Metropolitan Division	261	45.7	3.9	(38.1–53.3)
Milwaukee-Waukesha-West Allis, WI	558	56.0	2.8	(50.5–61.5)
Minneapolis-St. Paul-Bloomington, MN-WI	1,020	67.9	1.6	(64.7–71.1)
Nashville-Davidson-Murfreesboro, TN	269	52.5	3.5	(45.7–59.3)
Newark-Union, NJ-PA Metropolitan Division	629	56.8	3.7	(49.7–64.0)
New Haven-Milford, CT	426	58.2	2.6	(53.1–63.4)
New Orleans-Metairie-Kenner, LA	526	43.6	2.5	(38.7–48.5)

**TABLE 24. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,394	49.1	2.1	(45.0–53.2)
Norwich-New London, CT	214	52.3	3.7	(45.0–59.6)
Ogden-Clearfield, UT	188	50.3	4.0	(42.4–58.1)
Oklahoma City, OK	900	40.0	1.8	(36.4–43.6)
Omaha-Council Bluffs, NE-IA	745	48.0	2.1	(43.9–52.1)
Orlando, FL	218	54.3	3.7	(47.0–61.6)
Philadelphia, PA Metropolitan Division	1,371	53.7	1.7	(50.3–57.1)
Phoenix-Mesa-Scottsdale, AZ	516	54.5	2.9	(48.9–60.2)
Pittsburgh, PA	1,497	46.1	1.8	(42.5–49.7)
Portland-South Portland, ME	355	50.0	3.0	(44.2–55.8)
Portland-Vancouver-Beaverton, OR-WA	632	52.4	2.2	(48.1–56.8)
Providence-New Bedford-Fall River, RI-MA	1,886	51.7	1.4	(48.8–54.5)
Rapid City, SD	251	47.6	3.5	(40.7–54.5)
Reno-Sparks, NV	435	47.0	2.7	(41.8–52.3)
Richmond, VA	268	49.1	3.5	(42.2–56.0)
Rockingham County-Strafford County, NH Metropolitan Division	604	51.6	2.3	(47.2–56.1)
St. Louis, MO-IL	436	45.2	2.8	(39.8–50.5)
Salt Lake City, UT	560	54.3	2.6	(49.1–59.5)
Seaford, DE	761	55.3	2.0	(51.3–59.3)
Seattle-Bellevue-Everett, WA Metropolitan Division	686	57.5	2.3	(53.0–62.0)
Sioux Falls, SD	461	46.2	2.6	(41.1–51.2)
Springfield, MA	406	52.7	3.3	(46.2–59.1)
Suffolk County-Nassau County, NY Metropolitan Division	244	56.6	3.6	(49.5–63.7)
Tacoma, WA Metropolitan Division	200	56.1	4.7	(46.9–65.2)
Tampa-St. Petersburg-Clearwater, FL	420	47.8	2.8	(42.3–53.3)
Toledo, OH	219	38.1	4.8	(28.7–47.5)
Topeka, KS	209	51.8	3.8	(44.3–59.3)
Tucson, AZ	391	46.4	3.0	(40.5–52.3)
Tulsa, OK	796	44.0	2.1	(39.8–48.1)
Virginia Beach-Norfolk-Newport News, VA-NC	350	51.5	3.3	(45.0–58.0)
Warren-Farmington Hills-Troy, MI Metropolitan Division	409	57.9	2.7	(52.6–63.2)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,470	56.5	3.1	(50.4–62.6)
Wichita, KS	371	43.1	2.8	(37.6–48.6)
Willimantic, CT	222	45.5	4.0	(37.7–53.4)
Wilmington, DE-MD-NJ Metropolitan Division	623	54.8	2.9	(49.1–60.4)
Winston-Salem, NC	224	57.8	4.6	(48.8–66.8)
Worcester, MA	431	47.6	3.0	(41.7–53.6)
Youngstown-Warren-Boardman, OH-PA	295	38.0	4.9	(28.3–47.6)

**Summary:** Number of participants = 97; median: 50.3; mean: 50.0; range: 30.7–67.9.



**TABLE 25. Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	233	57.8	3.8	(50.4–65.2)
Anchorage Municipality, Alaska	131	N/A*	N/A	N/A
Maricopa County, Arizona	420	54.7	3.1	(48.7–60.7)
Pima County, Arizona	391	46.4	3.0	(40.5–52.3)
Pulaski County, Arkansas	231	52.6	3.7	(45.4–59.9)
Los Angeles County, California	336	45.9	3.4	(39.2–52.5)
Adams County, Colorado	129	N/A	N/A	N/A
Arapahoe County, Colorado	165	54.7	4.2	(46.4–63.0)
Denver County, Colorado	173	43.9	4.4	(35.2–52.5)
Jefferson County, Colorado	210	53.3	3.9	(45.6–60.9)
Fairfield County, Connecticut	446	56.8	2.7	(51.5–62.1)
Hartford County, Connecticut	471	56.2	2.6	(51.1–61.2)
Middlesex County, Connecticut	213	60.6	3.8	(53.1–68.0)
Tolland County, Connecticut	205	51.8	4.5	(43.0–60.6)
New Haven County, Connecticut	426	58.2	2.6	(53.1–63.4)
New London County, Connecticut	214	52.3	3.7	(45.0–59.6)
Windham County, Connecticut	222	45.5	4.0	(37.7–53.4)
Kent County, Delaware	540	53.3	2.4	(48.5–58.0)
Sussex County, Delaware	761	55.3	2.0	(51.3–59.3)
New Castle County, Delaware	573	59.5	2.4	(54.8–64.3)
District of Columbia	890	61.5	2.0	(57.6–65.3)
Duval County, Florida	157	49.1	4.7	(39.9–58.3)
Miami-Dade County, Florida	261	45.7	3.9	(38.1–53.3)
Orange County, Florida	106	N/A	N/A	N/A
Hillsborough County, Florida	129	36.9	4.8	(27.6–46.3)
Pinellas County, Florida	187	50.9	4.2	(42.7–59.1)
Cobb County, Georgia	82	N/A	N/A	N/A
DeKalb County, Georgia	90	N/A	N/A	N/A
Fulton County, Georgia	86	N/A	N/A	N/A
Hawaii County, Hawaii	736	33.2	1.9	(29.4–36.9)
Honolulu County, Hawaii	1,144	41.8	1.7	(38.4–45.1)
Maui County, Hawaii	527	30.7	2.4	(26.1–35.3)
Kauai County, Hawaii	302	37.1	3.2	(30.8–43.3)
Ada County, Idaho	220	56.0	3.7	(48.7–63.2)
Canyon County, Idaho	185	46.4	4.3	(37.8–54.9)
Cook County, Illinois	637	45.8	2.5	(40.9–50.6)
DuPage County, Illinois	116	N/A	N/A	N/A
Marion County, Indiana	224	52.9	3.7	(45.7–60.1)
Polk County, Iowa	183	51.3	4.1	(43.2–59.4)
Shawnee County, Kansas	155	53.5	4.4	(44.9–62.1)
Sedgwick County, Kansas	279	43.3	3.3	(36.8–49.7)
Jefferson County, Kentucky	199	55.8	4.1	(47.7–63.8)
East Baton Rouge Parish, Louisiana	162	47.8	4.4	(39.1–56.4)
Jefferson Parish, Louisiana	159	46.4	4.6	(37.3–55.5)
Orleans Parish, Louisiana	193	39.3	4.0	(31.4–47.2)
St. Tammany Parish, Louisiana	102	N/A	N/A	N/A
Cumberland County, Maine	209	53.0	3.8	(45.5–60.4)
York County, Maine	122	N/A	N/A	N/A
Anne Arundel County, Maryland	145	61.8	4.5	(53.1–70.5)
Baltimore County, Maryland	209	54.9	3.9	(47.3–62.4)
Baltimore city, Maryland,	142	N/A	N/A	N/A
Frederick County, Maryland	95	N/A	N/A	N/A
Montgomery County, Maryland	266	57.6	3.6	(50.6–64.7)
Norfolk County, Massachusetts	206	55.8	4.0	(48.0–63.5)
Plymouth County, Massachusetts	182	51.9	4.2	(43.6–60.1)
Suffolk County, Massachusetts,	310	53.9	3.6	(47.0–60.9)
Middlesex County, Massachusetts	547	57.3	2.5	(52.4–62.1)
Essex County, Massachusetts	303	52.3	3.5	(45.3–59.2)
Hampden County, Massachusetts	304	53.7	4.0	(45.8–61.6)
Worcester County, Massachusetts,	431	47.6	3.0	(41.7–53.6)

**TABLE 25. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	307	51.6	3.4	(44.8–58.3)
Macomb County, Michigan	122	N/A	N/A	N/A
Oakland County, Michigan	211	61.1	3.8	(53.7–68.5)
Anoka County, Minnesota	91	N/A	N/A	N/A
Dakota County, Minnesota	112	N/A	N/A	N/A
Hennepin County, Minnesota	427	68.4	2.5	(63.5–73.2)
Ramsey County, Minnesota	177	73.6	3.5	(66.9–80.4)
Hinds County, Mississippi	152	44.6	4.5	(35.8–53.5)
Jackson County, Missouri	175	50.6	4.3	(42.3–58.9)
Johnson County, Kansas	273	58.6	3.3	(52.1–65.2)
St. Louis County, Missouri	146	48.9	4.5	(40.1–57.7)
Lancaster County, Nebraska	248	45.9	3.7	(38.6–53.1)
Douglas County, Nebraska	442	49.7	2.8	(44.2–55.1)
Sarpy County, Nebraska	96	N/A	N/A	N/A
Clark County, Nevada	432	45.6	2.7	(40.3–50.9)
Washoe County, Nevada	429	46.5	2.7	(41.2–51.8)
Merrimack County, New Hampshire	254	53.7	3.6	(46.6–60.7)
Grafton County, New Hampshire	165	46.9	4.4	(38.4–55.4)
Orange County, Vermont	107	N/A	N/A	N/A
Windsor County, Vermont	198	51.5	3.9	(43.8–59.2)
Hillsborough County, New Hampshire	533	48.1	2.4	(43.4–52.9)
Rockingham County, New Hampshire	435	53.4	2.6	(48.2–58.6)
Strafford County, New Hampshire	169	46.8	4.4	(38.1–55.5)
Monmouth County, New Jersey	106	N/A	N/A	N/A
Somerset County, New Jersey	215	N/A	N/A	N/A
Essex County, New Jersey	197	N/A	N/A	N/A
Morris County, New Jersey	215	N/A	N/A	N/A
Bernalillo County, New Mexico	395	49.7	2.8	(44.2–55.2)
Sandoval County, New Mexico	108	N/A	N/A	N/A
Bergen County, New Jersey	608	52.0	3.9	(44.4–59.6)
Kings County, New York	136	49.0	5.0	(39.2–58.8)
Queens County, New York	102	N/A	N/A	N/A
Suffolk County, New York	128	54.3	5.1	(44.3–64.2)
Buncombe County, North Carolina	200	47.0	4.1	(38.9–55.0)
Henderson County, North Carolina	192	57.4	4.6	(48.4–66.4)
Orange County, North Carolina	164	54.5	4.5	(45.6–63.4)
Guilford County, North Carolina	185	56.1	4.2	(47.8–64.4)
Randolph County, North Carolina	204	40.1	3.9	(32.6–47.7)
Forsyth County, North Carolina	202	59.6	3.9	(52.0–67.3)
Cass County, North Dakota	197	59.3	3.9	(51.6–67.0)
Summit County, Ohio	215	55.8	3.7	(48.5–63.0)
Montgomery County, Ohio	210	49.3	3.9	(41.7–57.0)
Lucas County, Ohio	192	43.1	4.4	(34.6–51.7)
Mahoning County, Ohio	224	41.3	4.4	(32.7–49.9)
Cleveland County, Oklahoma	144	38.8	4.4	(30.3–47.3)
Oklahoma County, Oklahoma	513	38.9	2.4	(34.2–43.7)
Tulsa County, Oklahoma	491	45.4	2.7	(40.1–50.8)
Clackamas County, Oregon	147	41.5	4.5	(32.7–50.2)
Clark County, Washington	110	N/A	N/A	N/A
Multnomah County, Oregon	204	55.4	4.1	(47.4–63.3)
Washington County, Oregon	119	N/A	N/A	N/A
Franklin County, Pennsylvania	642	47.9	3.0	(42.1–53.6)
Lancaster County, Pennsylvania	516	45.0	2.4	(40.2–49.8)
Bucks County, Pennsylvania	157	60.0	4.4	(51.4–68.6)
Chester County, Pennsylvania	537	53.4	2.7	(48.2–58.6)
Delaware County, Pennsylvania	164	48.0	4.6	(39.0–56.9)
Montgomery County, Pennsylvania	223	49.7	3.8	(42.3–57.0)
Philadelphia County, Pennsylvania	290	55.6	3.3	(49.1–62.1)
Allegheny County, Pennsylvania	452	46.1	2.6	(41.0–51.3)
Armstrong County, Pennsylvania	625	32.9	4.3	(24.5–41.3)

**TABLE 25. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a sigmoidoscopy — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	145	50.1	4.6	(41.0–59.1)
Bristol County, Massachusetts	315	44.8	3.5	(38.0–51.6)
Kent County, Rhode Island	240	50.7	3.6	(43.7–57.7)
Providence County, Rhode Island	910	53.0	1.9	(49.4–56.7)
Washington County, Rhode Island	210	61.6	3.7	(54.3–68.9)
Richland County, South Carolina	104	N/A	N/A	N/A
Darlington County, South Carolina	155	39.0	4.3	(30.6–47.4)
Florence County, South Carolina	248	51.8	4.2	(43.6–59.9)
Pennington County, South Dakota	194	48.3	4.1	(40.3–56.3)
Minnehaha County, South Dakota	355	45.4	2.9	(39.6–51.2)
Shelby County, Tennessee	184	45.9	4.2	(37.7–54.1)
Davidson County, Tennessee	111	N/A	N/A	N/A
Dallas County, Texas	184	46.9	4.4	(38.3–55.4)
Harris County, Texas	251	50.8	3.6	(43.8–57.8)
Davis County, Utah	80	N/A	N/A	N/A
Weber County, Utah	104	N/A	N/A	N/A
Salt Lake County, Utah	370	54.4	2.9	(48.8–60.0)
Tooele County, Utah	100	N/A	N/A	N/A
Chittenden County, Vermont	327	61.3	3.0	(55.4–67.2)
Franklin County, Vermont	124	50.4	4.8	(41.0–59.8)
King County, Washington	511	58.5	2.7	(53.2–63.7)
Snohomish County, Washington	175	54.2	5.0	(44.5–64.0)
Pierce County, Washington	200	56.1	4.7	(46.9–65.2)
Kanawha County, West Virginia	187	43.6	4.1	(35.6–51.6)
Milwaukee County, Wisconsin	423	55.9	3.5	(49.1–62.7)
Laramie County, Wyoming	245	49.9	3.6	(42.9–57.0)

**Summary:** Number of participants = 117; median: 51.3; mean: 50.7; range: 30.7–73.6.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or confidence interval half width was >10.

**TABLE 26. Estimated prevalence of persons aged  $\geq 50$  years who had received a fecal occult blood test during the preceding year — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,423	18.4	1.1	(16.2–20.6)
Alaska	911	18.9	2.3	(14.4–23.4)
Arizona	1,672	27.1	2.0	(23.2–31.0)
Arkansas	1,882	15.9	0.9	(14.1–17.7)
California	1,645	19.9	1.2	(17.5–22.3)
Colorado	1,628	25.7	1.2	(23.3–28.1)
Connecticut	2,375	27.2	1.1	(25.0–29.4)
Delaware	1,858	23.3	1.3	(20.8–25.8)
District of Columbia	879	29.1	1.8	(25.6–32.6)
Florida	2,939	25.4	0.9	(23.6–27.2)
Georgia	1,999	21.1	1.1	(18.9–23.3)
Hawaii	2,682	24.4	1.1	(22.2–26.6)
Idaho	2,210	17.2	0.9	(15.4–19.0)
Illinois	2,117	18.4	0.9	(16.6–20.2)
Indiana	2,408	17.3	0.9	(15.5–19.1)
Iowa	1,751	24.7	1.2	(22.3–27.1)
Kansas	1,945	24.5	1.1	(22.3–26.7)
Kentucky	3,384	20.8	1.1	(18.6–23.0)
Louisiana	2,162	19.8	1.0	(17.8–21.8)
Maine	1,090	33.4	1.6	(30.3–36.5)
Maryland	1,815	30.1	1.4	(27.4–32.8)
Massachusetts	2,921	29.1	1.0	(27.1–31.1)
Michigan	2,617	23.9	1.0	(21.9–25.9)
Minnesota	1,984	23.6	1.1	(21.4–25.8)
Mississippi	1,860	17.5	1.0	(15.5–19.5)
Missouri	2,245	21.1	1.3	(18.6–23.6)
Montana	1,880	18.7	1.3	(16.2–21.2)
Nebraska	2,010	22.1	1.1	(19.9–24.3)
Nevada	1,356	18.9	1.5	(16.0–21.8)
New Hampshire	2,097	30.2	1.1	(28.0–32.4)
New Jersey	2,695	19.9	1.5	(17.0–22.8)
New Mexico	2,219	16.8	0.9	(15.0–18.6)
New York	1,772	21.0	1.1	(18.8–23.2)
North Carolina	2,957	29.4	1.2	(27.0–31.8)
North Dakota	1,338	16.2	1.1	(14.0–18.4)
Ohio	1,714	22.3	1.2	(19.9–24.7)
Oklahoma	3,389	17.5	0.7	(16.1–18.9)
Oregon	1,402	21.6	1.2	(19.2–24.0)
Pennsylvania	6,085	20.0	0.7	(18.6–21.4)
Rhode Island	1,553	28.1	1.3	(25.6–30.6)
South Carolina	1,991	20.4	1.2	(18.0–22.8)
South Dakota	2,272	20.7	1.0	(18.7–22.7)
Tennessee	1,419	23.6	1.2	(21.2–26.0)
Texas	2,262	16.4	0.9	(14.6–18.2)
Utah	1,543	12.2	1.1	(10.0–14.4)
Vermont	1,861	30.3	1.2	(27.9–32.7)
Virginia	1,798	19.6	1.3	(17.1–22.1)
Washington	2,054	26.1	1.2	(23.7–28.5)
West Virginia	1,663	18.8	1.1	(16.6–21.0)
Wisconsin	1,812	22.2	1.1	(20.0–24.4)
Wyoming	1,621	12.5	0.9	(10.7–14.3)
Guam	198	NA*	NA	NA
Puerto Rico	1,893	NA	NA	NA
Virgin Islands	869	10.7	1.2	(8.3–13.1)

**Summary:** Number of participants = 52; median: 21.1; range: 10.7–33.4.

\* Estimate not available (N/A) if the sample size is <50.

**TABLE 27. Estimated prevalence of persons aged ≥50 years who had received a fecal occult blood test during the preceding year — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	230	27.9	3.7	(20.6–35.1)
Albuquerque, NM	600	16.8	1.7	(13.5–20.0)
Anchorage, AK	159	23.4	4.3	(14.9–31.8)
Asheville, NC	422	33.5	2.9	(27.9–39.1)
Atlanta-Sandy Springs-Marietta, GA	640	27.6	2.1	(23.4–31.7)
Baltimore-Towson, MD	675	31.7	2.1	(27.6–35.8)
Baton Rouge, LA	305	25.4	2.8	(20.0–30.8)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	358	31.9	2.8	(26.4–37.4)
Birmingham-Hoover, AL	363	21.7	2.5	(16.7–26.6)
Boise City-Nampa, ID	467	22.3	2.1	(18.1–26.4)
Boston-Quincy, MA Metropolitan Division	699	28.5	2.2	(24.2–32.7)
Bridgeport-Stamford-Norwalk, CT	441	26.7	2.4	(22.1–31.3)
Burlington-South Burlington, VT	475	33.1	2.4	(28.4–37.8)
Cambridge-Newton-Framingham, MA Metropolitan Division	545	29.5	2.3	(25.1–34.0)
Chambersburg, PA	645	31.7	2.8	(26.1–37.3)
Charleston, WV	286	14.9	2.4	(10.2–19.6)
Cheyenne, WY	249	10.8	2.1	(6.6–14.9)
Chicago-Naperville-Joliet, IL Metropolitan Division	957	18.7	1.4	(15.9–21.5)
Cincinnati-Middletown, OH-KY-IN	373	24.7	3.4	(18.1–31.4)
Columbia, SC	206	17.3	2.9	(11.6–23.0)
Concord, NH	255	32.9	3.4	(26.2–39.6)
Dallas-Plano-Irving, TX Metropolitan Division	273	18.3	2.7	(12.9–23.6)
Dayton, OH	254	24.3	3.7	(17.0–31.6)
Denver-Aurora, CO	743	30.5	2.0	(26.7–34.4)
Des Moines, IA	260	24.6	3.0	(18.7–30.5)
Detroit-Livonia-Dearborn, MI Metropolitan Division	308	20.4	2.6	(15.4–25.5)
Dover, DE	535	24.9	2.1	(20.7–29.1)
Durham, NC	239	N/A*	N/A	N/A
Edison, NJ Metropolitan Division	886	19.9	2.3	(15.4–24.3)
Essex County, MA Metropolitan Division	298	28.9	3.3	(22.5–35.3)
Fargo, ND-MN	225	27.9	4.2	(19.8–36.1)
Florence, SC	397	23.4	2.8	(17.9–28.9)
Greensboro-High Point, NC	402	41.2	3.6	(34.1–48.3)
Hartford-West Hartford-East Hartford, CT	876	29.0	1.9	(25.3–32.7)
Hilo, HI	731	18.6	1.6	(15.5–21.6)
Honolulu, HI	1,131	25.8	1.5	(22.8–28.7)
Houston-Baytown-Sugar Land, TX	383	14.8	2.1	(10.7–18.8)
Huntington-Ashland, WV-KY-OH	290	19.2	3.0	(13.3–25.1)
Indianapolis, IN	484	17.5	1.9	(13.7–21.3)
Jackson, MS	310	18.3	2.7	(13.1–23.5)
Jacksonville, FL	255	23.1	3.1	(17.0–29.3)
Kahului-Wailuku, HI	525	21.5	2.2	(17.3–25.7)
Kansas City, MO-KS	770	24.8	2.0	(20.9–28.6)
Kapaa, HI	295	26.2	3.0	(20.4–32.0)
Lancaster, PA	511	24.7	2.1	(20.5–28.8)
Las Vegas-Paradise, NV	431	19.9	2.1	(15.7–24.0)
Lebanon, NH-VT	471	37.0	2.5	(32.2–41.8)
Lincoln, NE	259	21.0	2.8	(15.6–26.4)
Little Rock-North Little Rock, AR	390	16.8	2.0	(13.0–20.7)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	338	16.4	2.5	(11.4–21.3)
Louisville, KY-IN	403	25.2	2.8	(19.8–30.6)
Manchester-Nashua, NH	533	28.7	2.2	(24.4–32.9)
Memphis, TN-MS-AR	344	23.6	2.8	(18.2–29.0)
Miami-Miami Beach-Kendall, FL Metropolitan Division	258	19.9	3.1	(13.8–26.0)
Milwaukee-Waukesha-West Allis, WI	556	17.7	2.3	(13.2–22.1)
Minneapolis-St. Paul-Bloomington, MN-WI	1,005	26.0	1.6	(22.9–29.0)
Nashville-Davidson-Murfreesboro, TN	264	22.3	2.8	(16.8–27.7)
Newark-Union, NJ-PA Metropolitan Division	625	19.4	3.0	(13.5–25.3)
New Haven-Milford, CT	425	27.4	2.4	(22.7–32.1)
New Orleans-Metairie-Kenner, LA	523	17.9	1.9	(14.2–21.6)

**TABLE 27. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a fecal occult blood test during the preceding year — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,386	18.7	1.5	(15.7–21.7)
Norwich-New London, CT	212	22.3	3.1	(16.3–28.3)
Ogden-Clearfield, UT	188	8.8	2.3	(4.2–13.4)
Oklahoma City, OK	895	14.2	1.3	(11.7–16.7)
Omaha-Council Bluffs, NE-IA	737	23.3	1.8	(19.9–26.7)
Orlando, FL	212	29.5	3.5	(22.6–36.4)
Philadelphia, PA Metropolitan Division	1,367	20.1	1.4	(17.4–22.8)
Phoenix-Mesa-Scottsdale, AZ	511	30.0	3.1	(24.0–36.0)
Pittsburgh, PA	1,501	16.9	1.4	(14.2–19.7)
Portland-South Portland, ME	360	28.7	2.7	(23.5–33.9)
Portland-Vancouver-Beaverton, OR-WA	630	19.3	1.7	(15.9–22.6)
Providence-New Bedford-Fall River, RI-MA	1,866	28.0	1.3	(25.5–30.6)
Rapid City, SD	250	29.5	3.3	(23.1–36.0)
Reno-Sparks, NV	428	16.4	1.9	(12.7–20.1)
Richmond, VA	267	14.4	2.4	(9.7–19.1)
Rockingham County-Strafford County, NH Metropolitan Division	601	32.7	2.1	(28.5–36.9)
St. Louis, MO-IL	436	18.3	2.4	(13.6–22.9)
Salt Lake City, UT	563	14.2	1.8	(10.7–17.7)
Seaford, DE	754	29.1	1.9	(25.5–32.7)
Seattle-Bellevue-Everett, WA Metropolitan Division	678	29.6	2.2	(25.4–33.9)
Sioux Falls, SD	456	16.0	2.0	(12.0–19.9)
Springfield, MA	406	30.3	3.2	(24.1–36.6)
Suffolk County-Nassau County, NY Metropolitan Division	241	19.9	2.9	(14.3–25.6)
Tacoma, WA Metropolitan Division	201	28.4	3.8	(21.0–35.9)
Tampa-St. Petersburg-Clearwater, FL	416	33.4	2.7	(28.2–38.7)
Toledo, OH	219	14.9	3.2	(8.6–21.2)
Topeka, KS	208	32.9	3.6	(25.8–39.9)
Tucson, AZ	388	23.5	2.6	(18.4–28.6)
Tulsa, OK	793	24.2	1.7	(20.9–27.5)
Virginia Beach-Norfolk-Newport News, VA-NC	347	20.6	2.7	(15.2–25.9)
Warren-Farmington Hills-Troy, MI Metropolitan Division	405	22.9	2.4	(18.3–27.5)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,455	22.5	2.4	(17.9–27.1)
Wichita, KS	367	22.6	2.4	(18.0–27.2)
Willimantic, CT	221	28.1	3.6	(21.0–35.3)
Wilmington, DE-MD-NJ Metropolitan Division	619	19.9	2.1	(15.7–24.0)
Winston-Salem, NC	227	44.2	4.6	(35.2–53.3)
Worcester, MA	428	30.7	2.8	(25.2–36.3)
Youngstown-Warren-Boardman, OH-PA	295	26.4	4.9	(16.8–36.0)

**Summary:** Number of participants = 97; median: 23.5; mean: 23.9; range: 8.8–44.2.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 28. Estimated prevalence of persons aged  $\geq 50$  years who had received a fecal occult blood test during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	228	20.9	3.2	(14.6–27.2)
Anchorage Municipality, Alaska	132	24.2	4.7	(15.0–33.3)
Maricopa County, Arizona	417	30.0	3.3	(23.7–36.4)
Pima County, Arizona	388	23.5	2.6	(18.4–28.6)
Pulaski County, Arkansas	231	17.5	2.5	(12.5–22.5)
Los Angeles County, California	338	16.4	2.5	(11.4–21.3)
Adams County, Colorado	130	27.6	4.6	(18.5–36.6)
Arapahoe County, Colorado	160	34.9	4.1	(26.9–42.8)
Denver County, Colorado	171	29.6	4.1	(21.5–37.7)
Jefferson County, Colorado	209	32.9	3.6	(25.9–40.0)
Fairfield County, Connecticut	441	26.7	2.4	(22.1–31.3)
Hartford County, Connecticut	464	29.7	2.4	(25.0–34.5)
Middlesex County, Connecticut	207	31.8	3.7	(24.6–38.9)
Tolland County, Connecticut	205	21.4	3.7	(14.2–28.6)
New Haven County, Connecticut	425	27.4	2.4	(22.7–32.1)
New London County, Connecticut	212	22.3	3.1	(16.3–28.3)
Windham County, Connecticut	221	28.1	3.6	(21.0–35.3)
Kent County, Delaware	535	24.9	2.1	(20.7–29.1)
Sussex County, Delaware	754	29.1	1.9	(25.5–32.7)
New Castle County, Delaware	569	20.2	2.0	(16.3–24.0)
District of Columbia	879	29.1	1.9	(25.4–32.7)
Duval County, Florida	160	28.9	4.5	(20.1–37.7)
Miami-Dade County, Florida	258	19.9	3.1	(13.8–26.0)
Orange County, Florida	103	N/A*	N/A	N/A
Hillsborough County, Florida	131	26.5	4.3	(18.0–35.0)
Pinellas County, Florida	181	33.6	4.1	(25.6–41.5)
Cobb County, Georgia	82	N/A	N/A	N/A
DeKalb County, Georgia	89	N/A	N/A	N/A
Fulton County, Georgia	82	N/A	N/A	N/A
Hawaii County, Hawaii	731	18.6	1.6	(15.5–21.6)
Honolulu County, Hawaii	1,131	25.8	1.5	(22.8–28.7)
Maui County, Hawaii	525	21.5	2.2	(17.3–25.7)
Kauai County, Hawaii	295	26.2	3.0	(20.4–32.0)
Ada County, Idaho	217	24.4	3.0	(18.5–30.2)
Canyon County, Idaho	185	21.6	3.3	(15.1–28.1)
Cook County, Illinois	634	19.4	1.8	(15.8–22.9)
DuPage County, Illinois	115	16.7	3.8	(9.2–24.2)
Marion County, Indiana	221	17.4	2.8	(12.0–22.8)
Polk County, Iowa	185	27.2	3.7	(20.0–34.5)
Shawnee County, Kansas	154	36.1	4.3	(27.7–44.5)
Sedgwick County, Kansas	275	21.9	2.7	(16.6–27.2)
Jefferson County, Kentucky	196	26.8	3.7	(19.5–34.1)
East Baton Rouge Parish, Louisiana	161	31.0	4.1	(23.0–39.0)
Jefferson Parish, Louisiana	156	24.3	4.1	(16.2–32.4)
Orleans Parish, Louisiana	192	12.8	2.6	(7.6–17.9)
St. Tammany Parish, Louisiana	102	17.3	4.0	(9.5–25.1)
Cumberland County, Maine	212	26.8	3.3	(20.4–33.3)
York County, Maine	123	33.9	5.1	(24.0–43.7)
Anne Arundel County, Maryland	144	29.5	4.2	(21.2–37.8)
Baltimore County, Maryland	206	31.0	3.5	(24.2–37.9)
Baltimore city, Maryland	142	N/A	N/A	N/A
Frederick County, Maryland	96	N/A	N/A	N/A
Montgomery County, Maryland	262	31.9	3.2	(25.6–38.2)
Norfolk County, Massachusetts	205	30.1	3.9	(22.5–37.8)
Plymouth County, Massachusetts	183	23.6	3.6	(16.5–30.7)
Suffolk County, Massachusetts	311	31.3	3.4	(24.7–37.9)
Middlesex County, Massachusetts	545	29.5	2.3	(25.1–34.0)
Essex County, Massachusetts	298	28.9	3.3	(22.5–35.3)
Hampden County, Massachusetts	304	32.0	4.0	(24.2–39.7)
Worcester County, Massachusetts	428	30.7	2.8	(25.2–36.3)

**TABLE 28. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a fecal occult blood test during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	308	20.4	2.6	(15.4–25.5)
Macomb County, Michigan	122	25.9	4.3	(17.5–34.3)
Oakland County, Michigan	206	21.2	3.4	(14.6–27.8)
Anoka County, Minnesota	90	23.4	4.8	(13.9–32.9)
Dakota County, Minnesota	111	N/A	N/A	N/A
Hennepin County, Minnesota	418	26.7	2.4	(22.0–31.3)
Ramsey County, Minnesota	170	26.9	3.7	(19.6–34.2)
Hinds County, Mississippi	152	18.8	3.5	(11.9–25.7)
Jackson County, Missouri	173	26.2	3.9	(18.6–33.8)
Johnson County, Kansas	272	30.8	3.1	(24.6–36.9)
St. Louis County, Missouri	147	20.1	3.7	(12.8–27.3)
Lancaster County, Nebraska	246	21.1	2.8	(15.5–26.6)
Douglas County, Nebraska	437	23.6	2.3	(19.1–28.2)
Sarpy County, Nebraska	96	26.8	5.0	(17.0–36.6)
Clark County, Nevada	431	19.9	2.1	(15.7–24.0)
Washoe County, Nevada	422	16.2	1.9	(12.5–19.9)
Merrimack County, New Hampshire	255	32.9	3.4	(26.2–39.6)
Grafton County, New Hampshire	163	31.7	3.9	(24.0–39.4)
Orange County, Vermont	107	N/A	N/A	N/A
Windsor County, Vermont	201	35.0	3.7	(27.8–42.2)
Hillsborough County, New Hampshire	533	28.7	2.2	(24.4–32.9)
Rockingham County, New Hampshire	430	34.1	2.6	(29.1–39.1)
Strafford County, New Hampshire	171	29.0	3.8	(21.5–36.4)
Monmouth County, New Jersey	105	N/A	N/A	N/A
Somerset County, New Jersey	210	21.6	3.8	(14.2–29.1)
Essex County, New Jersey	193	N/A	N/A	N/A
Morris County, New Jersey	217	N/A	N/A	N/A
Bernalillo County, New Mexico	398	16.2	2.0	(12.4–20.1)
Sandoval County, New Mexico	108	15.8	3.7	(8.6–23.0)
Bergen County, New Jersey	605	22.6	3.1	(16.5–28.6)
Kings County, New York	138	16.1	3.5	(9.3–22.9)
Queens County, New York	104	18.4	4.1	(10.4–26.5)
Suffolk County, New York	126	17.8	3.6	(10.7–24.9)
Buncombe County, North Carolina	198	40.4	4.2	(32.3–48.6)
Henderson County, North Carolina	186	31.5	4.0	(23.6–39.3)
Orange County, North Carolina	161	32.2	4.2	(24.0–40.4)
Guilford County, North Carolina	185	43.1	4.2	(34.9–51.3)
Randolph County, North Carolina	199	39.1	4.0	(31.3–47.0)
Forsyth County, North Carolina	205	44.2	3.9	(36.6–51.8)
Cass County, North Dakota	202	30.3	3.7	(23.1–37.5)
Summit County, Ohio	214	25.8	3.3	(19.4–32.2)
Montgomery County, Ohio	214	20.4	3.1	(14.2–26.5)
Lucas County, Ohio	192	13.9	2.6	(8.8–19.1)
Mahoning County, Ohio	224	18.4	3.2	(12.2–24.5)
Cleveland County, Oklahoma	142	17.2	3.2	(10.9–23.4)
Oklahoma County, Oklahoma	509	11.9	1.6	(8.8–15.0)
Tulsa County, Oklahoma	490	28.8	2.3	(24.4–33.3)
Clackamas County, Oregon	147	15.4	3.2	(9.1–21.7)
Clark County, Washington	108	23.1	4.8	(13.7–32.5)
Multnomah County, Oregon	207	16.1	2.8	(10.6–21.7)
Washington County, Oregon	116	26.9	4.5	(18.0–35.8)
Franklin County, Pennsylvania	645	31.7	2.8	(26.1–37.3)
Lancaster County, Pennsylvania	511	24.7	2.1	(20.5–28.8)
Bucks County, Pennsylvania	157	19.3	3.6	(12.3–26.2)
Chester County, Pennsylvania	535	18.5	2.0	(14.7–22.3)
Delaware County, Pennsylvania	163	22.4	3.8	(15.0–29.9)
Montgomery County, Pennsylvania	223	24.7	3.2	(18.4–31.0)
Philadelphia County, Pennsylvania	289	15.5	2.3	(11.0–19.9)
Allegheny County, Pennsylvania	451	17.9	2.1	(13.9–22.0)
Armstrong County, Pennsylvania	628	12.4	1.7	(9.0–15.9)



**TABLE 28. (Continued) Estimated prevalence of persons aged  $\geq 50$  years who had received a fecal occult blood test during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	145	22.1	4.0	(14.2–29.9)
Bristol County, Massachusetts	313	27.2	3.0	(21.3–33.1)
Kent County, Rhode Island	233	24.8	3.0	(18.9–30.6)
Providence County, Rhode Island	904	28.2	1.7	(24.8–31.6)
Washington County, Rhode Island	209	24.2	3.2	(17.9–30.5)
Richland County, South Carolina	102	20.7	4.7	(11.6–29.8)
Darlington County, South Carolina	152	17.2	3.3	(10.8–23.6)
Florence County, South Carolina	245	27.3	4.0	(19.3–35.2)
Pennington County, South Dakota	193	30.1	3.8	(22.6–37.6)
Minnehaha County, South Dakota	351	17.2	2.4	(12.4–22.0)
Shelby County, Tennessee	183	24.5	3.4	(17.9–31.1)
Davidson County, Tennessee	111	19.6	3.9	(12.0–27.3)
Dallas County, Texas	180	16.5	3.3	(10.0–22.9)
Harris County, Texas	250	12.8	2.4	(8.2–17.5)
Davis County, Utah	80	9.7	4.0	(1.9–17.6)
Weber County, Utah	103	7.9	2.7	(2.6–13.2)
Salt Lake County, Utah	373	14.5	1.9	(10.7–18.3)
Tooele County, Utah	100	8.2	2.6	(3.1–13.3)
Chittenden County, Vermont	325	33.8	3.0	(28.0–39.6)
Franklin County, Vermont	124	34.3	4.6	(25.2–43.3)
King County, Washington	506	30.5	2.6	(25.4–35.6)
Snohomish County, Washington	172	28.1	4.2	(19.9–36.3)
Pierce County, Washington	201	28.4	3.8	(21.0–35.9)
Kanawha County, West Virginia	188	15.0	2.9	(9.4–20.7)
Milwaukee County, Wisconsin	422	16.2	2.6	(11.1–21.3)
Laramie County, Wyoming	249	10.8	2.1	(6.6–14.9)

**Summary:** Number of participants = 135; median: 24.7; mean: 24.4; range: 7.9–44.2.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 29. Estimated prevalence of persons aged  $\geq 65$  years who had received an influenza vaccination during the preceding year — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	686	64.8	2.1	(60.7–68.9)
Alaska	292	69.5	4.2	(61.3–77.7)
Arizona	853	69.7	2.2	(65.4–74.0)
Arkansas	919	69.0	1.7	(65.7–72.3)
California	749	71.5	2.1	(67.4–75.6)
Colorado	665	73.3	2.4	(68.6–78.0)
Connecticut	1,098	71.4	1.6	(68.3–74.5)
Delaware	919	71.5	2.0	(67.6–75.4)
District of Columbia	404	58.7	3.0	(52.8–64.6)
Florida	1,555	57.0	1.4	(54.3–59.7)
Georgia	884	59.3	2.0	(55.4–63.2)
Hawaii	1,246	73.9	1.6	(70.8–77.0)
Idaho	1,072	65.1	1.7	(61.8–68.4)
Illinois	987	61.1	1.8	(57.6–64.6)
Indiana	1,096	66.3	1.6	(63.2–69.4)
Iowa	915	73.5	1.7	(70.2–76.8)
Kansas	889	68.6	1.7	(65.3–71.9)
Kentucky	1,818	65.7	1.5	(62.8–68.6)
Louisiana	1,025	57.3	1.8	(53.8–60.8)
Maine	479	73.8	2.2	(69.5–78.1)
Maryland	765	65.9	2.2	(61.6–70.2)
Massachusetts	1,402	72.6	1.5	(69.7–75.5)
Michigan	1,171	67.7	1.7	(64.4–71.0)
Minnesota	943	76.6	1.5	(73.7–79.5)
Mississippi	891	63.0	1.9	(59.3–66.7)
Missouri	1,137	68.6	1.9	(64.9–72.3)
Montana	845	67.7	2.1	(63.6–71.8)
Nebraska	1,146	68.3	1.5	(65.4–71.2)
Nevada	601	60.3	2.9	(54.6–66.0)
New Hampshire	892	72.3	1.6	(69.2–75.4)
New Jersey	1,299	69.1	2.4	(64.4–73.8)
New Mexico	1,029	66.6	1.7	(63.3–69.9)
New York	821	64.6	2.0	(60.7–68.5)
North Carolina	1,423	68.2	1.9	(64.5–71.9)
North Dakota	645	73.9	1.9	(70.2–77.6)
Ohio	774	66.6	2.3	(62.1–71.1)
Oklahoma	1,684	72.7	1.2	(70.3–75.1)
Oregon	620	68.0	2.0	(64.1–71.9)
Pennsylvania	2,977	70.5	1.1	(68.3–72.7)
Rhode Island	749	73.6	1.8	(70.1–77.1)
South Carolina	898	69.4	2.0	(65.5–73.3)
South Dakota	1,189	74.2	1.4	(71.5–76.9)
Tennessee	669	71.6	1.9	(67.9–75.3)
Texas	1,029	61.0	1.8	(57.5–64.5)
Utah	688	71.1	2.3	(66.6–75.6)
Vermont	817	73.6	1.6	(70.5–76.7)
Virginia	801	65.3	2.3	(60.8–69.8)
Washington	918	65.0	1.9	(61.3–68.7)
West Virginia	842	65.8	1.8	(62.3–69.3)
Wisconsin	846	74.0	1.7	(70.7–77.3)
Wyoming	695	70.6	2.0	(66.7–74.5)
Guam	45	NA*	NA	NA
Puerto Rico	871	35.4	2.0	(31.5–39.3)
Virgin Islands	262	32.2	3.4	(25.5–38.9)

**Summary:** Number of participants = 53; median: 68.6; range: 32.2–76.6.

\* Estimate not available (N/A) if the sample size is <50.

**TABLE 30. Estimated prevalence of persons aged ≥65 years who had received an influenza vaccination during the preceding year — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	99	N/A*	N/A	N/A
Albuquerque, NM	261	69.2	3.2	(62.9–75.5)
Anchorage, AK	53	N/A	N/A	N/A
Asheville, NC	233	76.8	3.5	(70.0–83.7)
Atlanta-Sandy Springs-Marietta, GA	225	56.9	4.1	(48.9–64.9)
Baltimore-Towson, MD	288	63.7	3.3	(57.3–70.2)
Baton Rouge, LA	147	57.4	4.6	(48.5–66.3)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	142	N/A	N/A	N/A
Birmingham-Hoover, AL	170	68.9	3.9	(61.2–76.5)
Boise City-Nampa, ID	229	65.9	3.5	(59.0–72.8)
Boston-Quincy, MA Metropolitan Division	321	72.0	3.0	(66.0–77.9)
Bridgeport-Stamford-Norwalk, CT	230	70.5	3.4	(63.9–77.1)
Burlington-South Burlington, VT	212	70.3	3.5	(63.6–77.1)
Cambridge-Newton-Framingham, MA Metropolitan Division	260	76.3	3.0	(70.5–82.2)
Chambersburg, PA	322	64.7	4.6	(55.8–73.7)
Charleston, WV	140	N/A	N/A	N/A
Cheyenne, WY	117	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	412	59.3	2.9	(53.6–65.1)
Cincinnati-Middletown, OH-KY-IN	181	69.3	4.8	(60.0–78.7)
Columbia, SC	96	N/A	N/A	N/A
Concord, NH	100	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	118	N/A	N/A	N/A
Dayton, OH	105	N/A	N/A	N/A
Denver-Aurora, CO	307	74.1	4.1	(66.1–82.0)
Des Moines, IA	114	N/A	N/A	N/A
Detroit-Livonia-Dearborn, MI Metropolitan Division	139	61.0	4.7	(51.9–70.2)
Dover, DE	250	71.8	3.2	(65.5–78.0)
Durham, NC	112	N/A	N/A	N/A
Edison, NJ Metropolitan Division	409	70.6	4.1	(62.5–78.6)
Essex County, MA Metropolitan Division	135	N/A	N/A	N/A
Fargo, ND-MN	105	N/A	N/A	N/A
Florence, SC	169	60.5	4.7	(51.2–69.8)
Greensboro-High Point, NC	209	73.0	4.4	(64.5–81.5)
Hartford-West Hartford-East Hartford, CT	382	74.3	2.7	(68.9–79.6)
Hilo, HI	325	69.2	2.8	(63.7–74.7)
Honolulu, HI	590	75.9	2.1	(71.8–79.9)
Houston-Baytown-Sugar Land, TX	130	55.8	5.0	(46.0–65.6)
Huntington-Ashland, WV-KY-OH	163	N/A	N/A	N/A
Indianapolis, IN	198	69.6	3.6	(62.4–76.7)
Jackson, MS	149	65.9	4.2	(57.7–74.1)
Jacksonville, FL	113	N/A	N/A	N/A
Kahului-Wailuku, HI	207	66.5	4.1	(58.4–74.6)
Kansas City, MO-KS	314	70.8	3.2	(64.5–77.0)
Kapaa, HI	124	N/A	N/A	N/A
Lancaster, PA	240	65.2	3.4	(58.4–71.9)
Las Vegas-Paradise, NV	193	57.7	4.1	(49.8–65.7)
Lebanon, NH-VT	215	73.0	3.4	(66.4–79.7)
Lincoln, NE	137	N/A	N/A	N/A
Little Rock-North Little Rock, AR	183	N/A	N/A	N/A
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	144	N/A	N/A	N/A
Louisville, KY-IN	198	72.8	3.7	(65.5–80.1)
Manchester-Nashua, NH	212	65.0	3.5	(58.1–71.8)
Memphis, TN-MS-AR	139	N/A	N/A	N/A
Miami-Miami Beach-Kendall, FL Metropolitan Division	127	N/A	N/A	N/A
Milwaukee-Waukesha-West Allis, WI	279	74.3	3.3	(67.8–80.8)
Minneapolis-St. Paul-Bloomington, MN-WI	442	80.0	2.0	(76.0–84.0)
Nashville-Davidson-Murfreesboro, TN	115	N/A	N/A	N/A
Newark-Union, NJ-PA Metropolitan Division	313	N/A	N/A	N/A
New Haven-Milford, CT	210	72.2	3.3	(65.6–78.7)
New Orleans-Metairie-Kenner, LA	239	56.1	3.7	(48.9–63.3)

**TABLE 30. (Continued) Estimated prevalence of persons aged  $\geq 65$  years who had received an influenza vaccination during the preceding year — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	641	60.2	3.1	(54.2–66.2)
Norwich-New London, CT	103	N/A	N/A	N/A
Ogden-Clearfield, UT	90	N/A	N/A	N/A
Oklahoma City, OK	403	72.6	2.5	(67.7–77.5)
Omaha-Council Bluffs, NE-IA	380	69.1	2.6	(64.0–74.3)
Orlando, FL	97	N/A	N/A	N/A
Philadelphia, PA Metropolitan Division	633	74.5	2.1	(70.3–78.6)
Phoenix-Mesa-Scottsdale, AZ	252	71.2	3.4	(64.6–77.8)
Pittsburgh, PA	746	66.5	2.4	(61.7–71.2)
Portland-South Portland, ME	154	N/A	N/A	N/A
Portland-Vancouver-Beaverton, OR-WA	265	70.3	3.1	(64.3–76.3)
Providence-New Bedford-Fall River, RI-MA	906	71.6	1.9	(68.0–75.2)
Rapid City, SD	130	N/A	N/A	N/A
Reno-Sparks, NV	191	67.6	3.7	(60.3–74.8)
Richmond, VA	104	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	259	75.8	2.9	(70.2–81.4)
St. Louis, MO-IL	207	61.6	3.7	(54.3–68.9)
Salt Lake City, UT	220	N/A	N/A	N/A
Seaford, DE	398	70.4	2.5	(65.5–75.3)
Seattle-Bellevue-Everett, WA Metropolitan Division	280	66.2	3.4	(59.5–72.9)
Sioux Falls, SD	226	75.2	3.2	(68.9–81.5)
Springfield, MA	192	71.6	4.4	(63.0–80.1)
Suffolk County-Nassau County, NY Metropolitan Division	106	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	97	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	212	66.4	3.7	(59.2–73.6)
Toledo, OH	88	N/A	N/A	N/A
Topeka, KS	97	N/A	N/A	N/A
Tucson, AZ	223	70.7	4.0	(62.9–78.4)
Tulsa, OK	377	72.2	2.5	(67.3–77.1)
Virginia Beach-Norfolk-Newport News, VA-NC	156	64.3	4.5	(55.5–73.1)
Warren-Farmington Hills-Troy, MI Metropolitan Division	170	68.4	3.9	(60.7–76.1)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	594	61.0	5.0	(51.2–70.8)
Wichita, KS	152	N/A	N/A	N/A
Willimantic, CT	87	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	294	N/A	N/A	N/A
Winston-Salem, NC	101	N/A	N/A	N/A
Worcester, MA	205	76.0	3.7	(68.7–83.3)
Youngstown-Warren-Boardman, OH-PA	154	N/A	N/A	N/A

**Summary:** Number of participants = 59; median: 69.6; mean: 68.5; range: 55.8–80.0.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 31. Estimated prevalence of persons aged  $\geq 65$  years who had received an influenza vaccination during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	113	N/A*	N/A	N/A
Anchorage Municipality, Alaska	44	N/A	N/A	N/A
Maricopa County, Arizona	197	70.7	3.6	(63.6–77.7)
Pima County, Arizona	223	70.7	3.9	(62.9–78.4)
Pulaski County, Arkansas	110	N/A	N/A	N/A
Los Angeles County, California	144	N/A	N/A	N/A
Adams County, Colorado	54	N/A	N/A	N/A
Arapahoe County, Colorado	77	N/A	N/A	N/A
Denver County, Colorado	83	N/A	N/A	N/A
Jefferson County, Colorado	68	N/A	N/A	N/A
Fairfield County, Connecticut	230	70.5	3.4	(63.9–77.1)
Hartford County, Connecticut	219	73.0	3.4	(66.3–79.7)
Middlesex County, Connecticut	86	N/A	N/A	N/A
Tolland County, Connecticut	77	N/A	N/A	N/A
New Haven County, Connecticut	210	72.2	3.3	(65.6–78.7)
New London County, Connecticut	103	N/A	N/A	N/A
Windham County, Connecticut	87	N/A	N/A	N/A
Kent County, Delaware	250	71.8	3.2	(65.5–78.0)
Sussex County, Delaware	398	70.4	2.5	(65.5–75.3)
New Castle County, Delaware	271	72.0	3.3	(65.6–78.4)
District of Columbia	404	58.7	3.0	(52.9–64.5)
Duval County, Florida	77	N/A	N/A	N/A
Miami-Dade County, Florida	127	N/A	N/A	N/A
Orange County, Florida	44	N/A	N/A	N/A
Hillsborough County, Florida	58	N/A	N/A	N/A
Pinellas County, Florida	98	N/A	N/A	N/A
Cobb County, Georgia	27	N/A	N/A	N/A
DeKalb County, Georgia	33	N/A	N/A	N/A
Fulton County, Georgia	27	N/A	N/A	N/A
Hawaii County, Hawaii	325	69.2	2.8	(63.7–74.7)
Honolulu County, Hawaii	590	75.9	2.1	(71.8–79.9)
Maui County, Hawaii	207	66.5	4.1	(58.4–74.6)
Kauai County, Hawaii	124	N/A	N/A	N/A
Ada County, Idaho	101	N/A	N/A	N/A
Canyon County, Idaho	98	N/A	N/A	N/A
Cook County, Illinois	288	56.2	3.4	(49.5–63.0)
DuPage County, Illinois	44	N/A	N/A	N/A
Marion County, Indiana	91	N/A	N/A	N/A
Polk County, Iowa	83	N/A	N/A	N/A
Shawnee County, Kansas	66	N/A	N/A	N/A
Sedgwick County, Kansas	116	N/A	N/A	N/A
Jefferson County, Kentucky	106	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	79	N/A	N/A	N/A
Jefferson Parish, Louisiana	75	N/A	N/A	N/A
Orleans Parish, Louisiana	85	N/A	N/A	N/A
St. Tammany Parish, Louisiana	44	N/A	N/A	N/A
Cumberland County, Maine	95	N/A	N/A	N/A
York County, Maine	50	N/A	N/A	N/A
Anne Arundel County, Maryland	55	N/A	N/A	N/A
Baltimore County, Maryland	97	N/A	N/A	N/A
Baltimore city, Maryland	60	N/A	N/A	N/A
Frederick County, Maryland	34	N/A	N/A	N/A
Montgomery County, Maryland	108	N/A	N/A	N/A
Norfolk County, Massachusetts	101	N/A	N/A	N/A
Plymouth County, Massachusetts	77	N/A	N/A	N/A
Suffolk County, Massachusetts	143	N/A	N/A	N/A
Middlesex County, Massachusetts	260	76.3	3.0	(70.5–82.2)
Essex County, Massachusetts	135	N/A	N/A	N/A
Hampden County, Massachusetts	146	N/A	N/A	N/A
Worcester County, Massachusetts	205	76.0	3.7	(68.7–83.3)

**TABLE 31. (Continued) Estimated prevalence of persons aged ≥65 years who had received an influenza vaccination during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	139	61.0	4.7	(51.9–70.2)
Macomb County, Michigan	54	N/A	N/A	N/A
Oakland County, Michigan	89	N/A	N/A	N/A
Anoka County, Minnesota	40	N/A	N/A	N/A
Dakota County, Minnesota	43	N/A	N/A	N/A
Hennepin County, Minnesota	184	N/A	N/A	N/A
Ramsey County, Minnesota	85	N/A	N/A	N/A
Hinds County, Mississippi	81	N/A	N/A	N/A
Jackson County, Missouri	79	N/A	N/A	N/A
Johnson County, Kansas	101	N/A	N/A	N/A
St. Louis County, Missouri	71	N/A	N/A	N/A
Lancaster County, Nebraska	131	N/A	N/A	N/A
Douglas County, Nebraska	229	69.1	3.5	(62.3–75.9)
Sarpy County, Nebraska	40	N/A	N/A	N/A
Clark County, Nevada	193	57.7	4.1	(49.8–65.7)
Washoe County, Nevada	189	67.5	3.7	(60.2–74.9)
Merrimack County, New Hampshire	100	N/A	N/A	N/A
Grafton County, New Hampshire	65	N/A	N/A	N/A
Orange County, Vermont	51	N/A	N/A	N/A
Windsor County, Vermont	99	N/A	N/A	N/A
Hillsborough County, New Hampshire	212	65.0	3.5	(58.1–71.8)
Rockingham County, New Hampshire	179	N/A	N/A	N/A
Strafford County, New Hampshire	80	N/A	N/A	N/A
Monmouth County, New Jersey	45	N/A	N/A	N/A
Somerset County, New Jersey	91	N/A	N/A	N/A
Essex County, New Jersey	103	N/A	N/A	N/A
Morris County, New Jersey	104	N/A	N/A	N/A
Bernalillo County, New Mexico	163	N/A	N/A	N/A
Sandoval County, New Mexico	52	N/A	N/A	N/A
Bergen County, New Jersey	298	67.0	4.7	(57.8–76.2)
Kings County, New York	55	N/A	N/A	N/A
Queens County, New York	47	N/A	N/A	N/A
Suffolk County, New York	49	N/A	N/A	N/A
Buncombe County, North Carolina	98	N/A	N/A	N/A
Henderson County, North Carolina	118	N/A	N/A	N/A
Orange County, North Carolina	68	N/A	N/A	N/A
Guilford County, North Carolina	98	N/A	N/A	N/A
Randolph County, North Carolina	104	N/A	N/A	N/A
Forsyth County, North Carolina	89	N/A	N/A	N/A
Cass County, North Dakota	94	N/A	N/A	N/A
Summit County, Ohio	97	N/A	N/A	N/A
Montgomery County, Ohio	91	N/A	N/A	N/A
Lucas County, Ohio	83	N/A	N/A	N/A
Mahoning County, Ohio	114	N/A	N/A	N/A
Cleveland County, Oklahoma	58	N/A	N/A	N/A
Oklahoma County, Oklahoma	233	71.8	3.3	(65.3–78.2)
Tulsa County, Oklahoma	228	74.6	3.2	(68.3–81.0)
Clackamas County, Oregon	61	N/A	N/A	N/A
Clark County, Washington	53	N/A	N/A	N/A
Multnomah County, Oregon	78	N/A	N/A	N/A
Washington County, Oregon	51	N/A	N/A	N/A
Franklin County, Pennsylvania	322	64.7	4.6	(55.8–73.7)
Lancaster County, Pennsylvania	240	65.2	3.4	(58.4–71.9)
Bucks County, Pennsylvania	77	N/A	N/A	N/A
Chester County, Pennsylvania	222	71.2	4.2	(63.0–79.5)
Delaware County, Pennsylvania	87	N/A	N/A	N/A
Montgomery County, Pennsylvania	106	N/A	N/A	N/A
Philadelphia County, Pennsylvania	141	N/A	N/A	N/A
Allegheny County, Pennsylvania	228	71.1	3.2	(64.8–77.5)
Armstrong County, Pennsylvania	318	N/A	N/A	N/A

**TABLE 31. (Continued) Estimated prevalence of persons aged  $\geq 65$  years who had received an influenza vaccination during the preceding year — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	63	N/A	N/A	N/A
Bristol County, Massachusetts	157	66.3	4.7	(57.0–75.5)
Kent County, Rhode Island	122	N/A	N/A	N/A
Providence County, Rhode Island	432	73.8	2.3	(69.2–78.4)
Washington County, Rhode Island	92	N/A	N/A	N/A
Richland County, South Carolina	46	N/A	N/A	N/A
Darlington County, South Carolina	72	N/A	N/A	N/A
Florence County, South Carolina	97	N/A	N/A	N/A
Pennington County, South Dakota	102	N/A	N/A	N/A
Minnehaha County, South Dakota	174	N/A	N/A	N/A
Shelby County, Tennessee	86	N/A	N/A	N/A
Davidson County, Tennessee	50	N/A	N/A	N/A
Dallas County, Texas	83	N/A	N/A	N/A
Harris County, Texas	91	N/A	N/A	N/A
Davis County, Utah	46	N/A	N/A	N/A
Weber County, Utah	41	N/A	N/A	N/A
Salt Lake County, Utah	163	N/A	N/A	N/A
Tooele County, Utah	37	N/A	N/A	N/A
Chittenden County, Vermont	151	N/A	N/A	N/A
Franklin County, Vermont	50	N/A	N/A	N/A
King County, Washington	217	65.0	3.9	(57.4–72.6)
Snohomish County, Washington	63	N/A	N/A	N/A
Pierce County, Washington	97	N/A	N/A	N/A
Kanawha County, West Virginia	99	N/A	N/A	N/A
Milwaukee County, Wisconsin	219	75.2	4.1	(67.2–83.1)
Laramie County, Wyoming	117	N/A	N/A	N/A

**Summary:** Number of participants = 31; median: 70.5; mean: 68.9; range: 56.2–76.3.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 32. Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	677	58.5	2.1	(54.4–62.6)
Alaska	275	59.7	4.8	(50.3–69.1)
Arizona	836	68.0	2.2	(63.7–72.3)
Arkansas	898	58.7	1.8	(55.2–62.2)
California	731	66.7	2.3	(62.2–71.2)
Colorado	650	68.1	2.4	(63.4–72.8)
Connecticut	1,067	64.5	1.7	(61.2–67.8)
Delaware	906	64.3	2.2	(60.0–68.6)
District of Columbia	386	47.9	3.0	(42.0–53.8)
Florida	1,511	57.2	1.4	(54.5–59.9)
Georgia	868	57.3	2.1	(53.2–61.4)
Hawaii	1,182	59.5	1.9	(55.8–63.2)
Idaho	1,046	57.4	1.8	(53.9–60.9)
Illinois	980	56.7	1.8	(53.2–60.2)
Indiana	1,067	61.2	1.7	(57.9–64.5)
Iowa	904	66.2	1.9	(62.5–69.9)
Kansas	878	62.1	1.9	(58.4–65.8)
Kentucky	1,792	56.6	1.7	(53.3–59.9)
Louisiana	1,014	56.3	1.7	(53.0–59.6)
Maine	460	66.8	2.4	(62.1–71.5)
Maryland	749	63.4	2.3	(58.9–67.9)
Massachusetts	1,354	63.4	1.6	(60.3–66.5)
Michigan	1,145	62.9	1.7	(59.6–66.2)
Minnesota	902	70.4	1.7	(67.1–73.7)
Mississippi	876	58.9	1.9	(55.2–62.6)
Missouri	1,115	60.8	2.0	(56.9–64.7)
Montana	831	67.3	2.2	(63.0–71.6)
Nebraska	1,138	61.3	1.6	(58.2–64.4)
Nevada	588	65.0	2.9	(59.3–70.7)
New Hampshire	876	63.8	1.8	(60.3–67.3)
New Jersey	1,276	63.1	2.6	(58.0–68.2)
New Mexico	999	62.7	1.7	(59.4–66.0)
New York	788	62.4	2.1	(58.3–66.5)
North Carolina	1,402	63.0	2.0	(59.1–66.9)
North Dakota	629	72.5	2.0	(68.6–76.4)
Ohio	750	63.6	2.3	(59.1–68.1)
Oklahoma	1,655	65.5	1.3	(63.0–68.0)
Oregon	605	65.0	2.1	(60.9–69.1)
Pennsylvania	2,907	63.5	1.1	(61.3–65.7)
Rhode Island	723	67.6	1.9	(63.9–71.3)
South Carolina	860	64.9	2.1	(60.8–69.0)
South Dakota	1,167	56.7	1.6	(53.6–59.8)
Tennessee	660	61.4	2.1	(57.3–65.5)
Texas	1,002	56.9	1.8	(53.4–60.4)
Utah	671	65.0	2.4	(60.3–69.7)
Vermont	793	66.3	1.8	(62.8–69.8)
Virginia	785	60.8	2.1	(56.7–64.9)
Washington	889	63.0	2.0	(59.1–66.9)
West Virginia	831	61.2	1.9	(57.5–64.9)
Wisconsin	828	70.6	1.8	(67.1–74.1)
Wyoming	682	68.2	2.0	(64.3–72.1)
Guam	43	NA*	NA	NA
Puerto Rico	832	25.1	1.9	(21.4–28.8)
Virgin Islands	247	30.4	3.8	(23.0–37.8)

**Summary:** Number of participants = 53; median: 63.0; range: 25.1–72.5.

\* Estimate not available (N/A) if the sample size is <50.



**TABLE 33. Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	97	N/A*	N/A	N/A
Albuquerque, NM	256	74.0	3.0	(68.1–79.9)
Anchorage, AK	53	N/A	N/A	N/A
Asheville, NC	232	72.5	3.6	(65.4–79.7)
Atlanta-Sandy Springs-Marietta, GA	222	59.6	4.0	(51.8–67.5)
Baltimore-Towson, MD	281	61.1	3.4	(54.5–67.7)
Baton Rouge, LA	144	59.8	4.5	(50.9–68.6)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	136	N/A	N/A	N/A
Birmingham-Hoover, AL	166	68.8	3.9	(61.1–76.5)
Boise City-Nampa, ID	224	62.1	3.6	(55.1–69.1)
Boston-Quincy, MA Metropolitan Division	308	66.5	3.2	(60.1–72.8)
Bridgeport-Stamford-Norwalk, CT	222	57.5	3.6	(50.4–64.6)
Burlington-South Burlington, VT	204	64.8	3.7	(57.5–72.1)
Cambridge-Newton-Framingham, MA Metropolitan Division	249	67.3	3.3	(60.8–73.8)
Chambersburg, PA	314	67.6	4.3	(59.2–76.0)
Charleston, WV	139	60.8	4.6	(51.9–69.7)
Cheyenne, WY	116	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	410	52.0	2.9	(46.2–57.8)
Cincinnati-Middletown, OH-KY-IN	177	N/A	N/A	N/A
Columbia, SC	90	N/A	N/A	N/A
Concord, NH	99	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	117	N/A	N/A	N/A
Dayton, OH	103	N/A	N/A	N/A
Denver-Aurora, CO	300	69.7	4.1	(61.6–77.8)
Des Moines, IA	113	N/A	N/A	N/A
Detroit-Livonia-Dearborn, MI Metropolitan Division	135	N/A	N/A	N/A
Dover, DE	247	67.8	3.4	(61.2–74.4)
Durham, NC	110	N/A	N/A	N/A
Edison, NJ Metropolitan Division	400	67.9	5.0	(58.1–77.7)
Essex County, MA Metropolitan Division	130	N/A	N/A	N/A
Fargo, ND-MN	102	N/A	N/A	N/A
Florence, SC	159	59.4	4.7	(50.1–68.6)
Greensboro-High Point, NC	205	71.4	4.0	(63.5–79.3)
Hartford-West Hartford-East Hartford, CT	370	68.4	2.9	(62.7–74.1)
Hilo, HI	305	56.0	3.2	(49.6–62.3)
Honolulu, HI	571	61.2	2.4	(56.5–65.9)
Houston-Baytown-Sugar Land, TX	130	57.6	4.9	(47.9–67.2)
Huntington-Ashland, WV-KY-OH	157	N/A	N/A	N/A
Indianapolis, IN	195	65.7	3.8	(58.4–73.1)
Jackson, MS	147	56.1	4.5	(47.3–64.9)
Jacksonville, FL	111	N/A	N/A	N/A
Kahului-Wailuku, HI	187	53.7	4.6	(44.8–62.7)
Kansas City, MO-KS	310	63.9	3.5	(57.1–70.7)
Kapaa, HI	119	N/A	N/A	N/A
Lancaster, PA	236	57.6	3.6	(50.5–64.6)
Las Vegas-Paradise, NV	187	61.2	4.1	(53.1–69.2)
Lebanon, NH-VT	209	67.4	3.5	(60.5–74.3)
Lincoln, NE	135	N/A	N/A	N/A
Little Rock-North Little Rock, AR	175	54.2	4.1	(46.2–62.2)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	141	66.0	4.8	(56.6–75.3)
Louisville, KY-IN	196	57.5	4.4	(48.9–66.0)
Manchester-Nashua, NH	205	58.2	3.7	(50.9–65.5)
Memphis, TN-MS-AR	136	N/A	N/A	N/A
Miami-Miami Beach-Kendall, FL Metropolitan Division	118	N/A	N/A	N/A
Milwaukee-Waukesha-West Allis, WI	271	68.3	3.9	(60.6–76.0)
Minneapolis-St. Paul-Bloomington, MN-WI	422	74.8	2.3	(70.3–79.3)
Nashville-Davidson-Murfreesboro, TN	114	N/A	N/A	N/A
Newark-Union, NJ-PA Metropolitan Division	309	N/A	N/A	N/A
New Haven-Milford, CT	204	64.0	3.7	(56.7–71.3)
New Orleans-Metairie-Kenner, LA	237	52.0	3.7	(44.7–59.3)

**TABLE 33. (Continued) Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	619	47.5	3.1	(41.3–53.6)
Norwich-New London, CT	102	N/A	N/A	N/A
Ogden-Clearfield, UT	86	N/A	N/A	N/A
Oklahoma City, OK	399	67.7	2.7	(62.5–73.0)
Omaha-Council Bluffs, NE-IA	379	62.8	2.7	(57.4–68.1)
Orlando, FL	93	N/A	N/A	N/A
Philadelphia, PA Metropolitan Division	607	63.0	2.5	(58.1–67.9)
Phoenix-Mesa-Scottsdale, AZ	249	69.2	3.3	(62.8–75.7)
Pittsburgh, PA	734	63.7	2.5	(58.8–68.6)
Portland-South Portland, ME	148	64.4	4.4	(55.8–73.0)
Portland-Vancouver-Beaverton, OR-WA	256	66.1	3.3	(59.7–72.5)
Providence-New Bedford-Fall River, RI-MA	873	62.4	2.0	(58.4–66.4)
Rapid City, SD	127	N/A	N/A	N/A
Reno-Sparks, NV	187	N/A	N/A	N/A
Richmond, VA	103	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	255	65.1	3.3	(58.7–71.6)
St. Louis, MO-IL	206	60.4	3.8	(53.0–67.9)
Salt Lake City, UT	213	70.5	3.8	(63.0–78.0)
Seaford, DE	395	63.2	2.7	(58.0–68.5)
Seattle-Bellevue-Everett, WA Metropolitan Division	273	63.6	3.5	(56.7–70.4)
Sioux Falls, SD	226	55.2	3.6	(48.1–62.3)
Springfield, MA	190	62.9	4.6	(53.9–71.9)
Suffolk County-Nassau County, NY Metropolitan Division	101	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	94	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	209	64.9	3.8	(57.5–72.2)
Toledo, OH	87	N/A	N/A	N/A
Topeka, KS	94	N/A	N/A	N/A
Tucson, AZ	215	67.4	4.1	(59.5–75.4)
Tulsa, OK	371	63.0	2.9	(57.3–68.7)
Virginia Beach-Norfolk-Newport News, VA-NC	147	N/A	N/A	N/A
Warren-Farmington Hills-Troy, MI Metropolitan Division	165	62.3	4.2	(54.1–70.5)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	574	52.6	3.8	(45.2–59.9)
Wichita, KS	152	67.7	4.1	(59.7–75.8)
Willimantic, CT	84	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	287	59.9	5.0	(50.1–69.7)
Winston-Salem, NC	98	N/A	N/A	N/A
Worcester, MA	198	64.6	4.3	(56.2–72.9)
Youngstown-Warren-Boardman, OH-PA	146	N/A	N/A	N/A

**Summary:** Number of participants = 62; median: 63.4; mean: 63.0; range: 47.5–74.8.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 34. Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	111	N/A*	N/A	N/A
Anchorage Municipality, Alaska	44	N/A	N/A	N/A
Maricopa County, Arizona	195	69.5	3.5	(62.6–76.4)
Pima County, Arizona	215	67.4	4.1	(59.4–75.5)
Pulaski County, Arkansas	105	N/A	N/A	N/A
Los Angeles County, California	141	66.0	4.8	(56.6–75.3)
Adams County, Colorado	54	N/A	N/A	N/A
Arapahoe County, Colorado	76	N/A	N/A	N/A
Denver County, Colorado	80	N/A	N/A	N/A
Jefferson County, Colorado	67	N/A	N/A	N/A
Fairfield County, Connecticut	222	57.5	3.6	(50.4–64.6)
Hartford County, Connecticut	214	66.5	3.7	(59.3–73.7)
Middlesex County, Connecticut	82	N/A	N/A	N/A
Tolland County, Connecticut	74	N/A	N/A	N/A
New Haven County, Connecticut	204	64.0	3.7	(56.7–71.3)
New London County, Connecticut	102	N/A	N/A	N/A
Windham County, Connecticut	84	N/A	N/A	N/A
Kent County, Delaware	247	67.8	3.4	(61.2–74.4)
Sussex County, Delaware	395	63.2	2.7	(58.0–68.5)
New Castle County, Delaware	264	64.0	3.5	(57.1–70.8)
District of Columbia	386	47.9	3.1	(41.9–53.9)
Duval County, Florida	75	N/A	N/A	N/A
Miami-Dade County, Florida	118	N/A	N/A	N/A
Orange County, Florida	43	N/A	N/A	N/A
Hillsborough County, Florida	58	N/A	N/A	N/A
Pinellas County, Florida	97	N/A	N/A	N/A
Cobb County, Georgia	27	N/A	N/A	N/A
DeKalb County, Georgia	33	N/A	N/A	N/A
Fulton County, Georgia	26	N/A	N/A	N/A
Hawaii County, Hawaii	305	56.0	3.2	(49.6–62.3)
Honolulu County, Hawaii	571	61.2	2.4	(56.5–65.9)
Maui County, Hawaii	187	53.7	4.6	(44.8–62.7)
Kauai County, Hawaii	119	N/A	N/A	N/A
Ada County, Idaho	100	N/A	N/A	N/A
Canyon County, Idaho	94	N/A	N/A	N/A
Cook County, Illinois	287	49.9	3.5	(43.0–56.7)
DuPage County, Illinois	43	N/A	N/A	N/A
Marion County, Indiana	90	N/A	N/A	N/A
Polk County, Iowa	82	N/A	N/A	N/A
Shawnee County, Kansas	63	N/A	N/A	N/A
Sedgwick County, Kansas	115	N/A	N/A	N/A
Jefferson County, Kentucky	105	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	77	N/A	N/A	N/A
Jefferson Parish, Louisiana	74	N/A	N/A	N/A
Orleans Parish, Louisiana	84	N/A	N/A	N/A
St. Tammany Parish, Louisiana	44	N/A	N/A	N/A
Cumberland County, Maine	90	N/A	N/A	N/A
York County, Maine	50	N/A	N/A	N/A
Anne Arundel County, Maryland	54	N/A	N/A	N/A
Baltimore County, Maryland	93	N/A	N/A	N/A
Baltimore city, Maryland	60	N/A	N/A	N/A
Frederick County, Maryland	34	N/A	N/A	N/A
Montgomery County, Maryland	102	N/A	N/A	N/A
Norfolk County, Massachusetts	97	N/A	N/A	N/A
Plymouth County, Massachusetts	74	N/A	N/A	N/A
Suffolk County, Massachusetts	137	62.9	5.1	(53.0–72.8)
Middlesex County, Massachusetts	249	67.3	3.3	(60.8–73.8)
Essex County, Massachusetts	130	N/A	N/A	N/A
Hampden County, Massachusetts	144	N/A	N/A	N/A
Worcester County, Massachusetts	198	64.6	4.3	(56.2–72.9)

**TABLE 34. (Continued) Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	135	N/A	N/A	N/A
Macomb County, Michigan	53	N/A	N/A	N/A
Oakland County, Michigan	87	N/A	N/A	N/A
Anoka County, Minnesota	39	N/A	N/A	N/A
Dakota County, Minnesota	41	N/A	N/A	N/A
Hennepin County, Minnesota	170	N/A	N/A	N/A
Ramsey County, Minnesota	84	N/A	N/A	N/A
Hinds County, Mississippi	80	N/A	N/A	N/A
Jackson County, Missouri	78	N/A	N/A	N/A
Johnson County, Kansas	99	N/A	N/A	N/A
St. Louis County, Missouri	72	N/A	N/A	N/A
Lancaster County, Nebraska	129	N/A	N/A	N/A
Douglas County, Nebraska	228	64.0	3.5	(57.1–70.8)
Sarpy County, Nebraska	40	N/A	N/A	N/A
Clark County, Nevada	187	61.2	4.1	(53.1–69.2)
Washoe County, Nevada	185	N/A	N/A	N/A
Merrimack County, New Hampshire	99	N/A	N/A	N/A
Grafton County, New Hampshire	64	N/A	N/A	N/A
Orange County, Vermont	51	N/A	N/A	N/A
Windsor County, Vermont	94	N/A	N/A	N/A
Hillsborough County, New Hampshire	205	58.2	3.7	(50.9–65.5)
Rockingham County, New Hampshire	177	63.1	4.0	(55.3–70.8)
Strafford County, New Hampshire	78	N/A	N/A	N/A
Monmouth County, New Jersey	45	N/A	N/A	N/A
Somerset County, New Jersey	88	N/A	N/A	N/A
Essex County, New Jersey	103	N/A	N/A	N/A
Morris County, New Jersey	100	N/A	N/A	N/A
Bernalillo County, New Mexico	161	N/A	N/A	N/A
Sandoval County, New Mexico	50	N/A	N/A	N/A
Bergen County, New Jersey	294	N/A	N/A	N/A
Kings County, New York	52	N/A	N/A	N/A
Queens County, New York	45	N/A	N/A	N/A
Suffolk County, New York	47	N/A	N/A	N/A
Buncombe County, North Carolina	98	N/A	N/A	N/A
Henderson County, North Carolina	118	N/A	N/A	N/A
Orange County, North Carolina	67	N/A	N/A	N/A
Guilford County, North Carolina	94	N/A	N/A	N/A
Randolph County, North Carolina	104	N/A	N/A	N/A
Forsyth County, North Carolina	86	N/A	N/A	N/A
Cass County, North Dakota	91	N/A	N/A	N/A
Summit County, Ohio	95	N/A	N/A	N/A
Montgomery County, Ohio	89	N/A	N/A	N/A
Lucas County, Ohio	82	N/A	N/A	N/A
Mahoning County, Ohio	107	N/A	N/A	N/A
Cleveland County, Oklahoma	58	N/A	N/A	N/A
Oklahoma County, Oklahoma	232	65.5	3.5	(58.6–72.5)
Tulsa County, Oklahoma	223	61.9	3.9	(54.3–69.5)
Clackamas County, Oregon	58	N/A	N/A	N/A
Clark County, Washington	50	N/A	N/A	N/A
Multnomah County, Oregon	50	N/A	N/A	N/A
Franklin County, Pennsylvania	314	67.6	4.3	(59.2–76.0)
Lancaster County, Pennsylvania	236	57.6	3.6	(50.5–64.6)
Bucks County, Pennsylvania	71	N/A	N/A	N/A
Chester County, Pennsylvania	217	63.1	4.6	(54.1–72.2)
Delaware County, Pennsylvania	87	N/A	N/A	N/A
Montgomery County, Pennsylvania	97	N/A	N/A	N/A
Philadelphia County, Pennsylvania	135	N/A	N/A	N/A
Allegheny County, Pennsylvania	225	67.9	3.5	(61.1–74.7)
Armstrong County, Pennsylvania	313	N/A	N/A	N/A
Westmoreland County, Pennsylvania	62	N/A	N/A	N/A

**TABLE 34. (Continued)** Estimated prevalence of persons aged  $\geq 65$  years who had received a pneumococcal vaccination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002

County	Sample size	%	Standard error	95% Confidence interval
Bristol County, Massachusetts	150	49.5	5.0	(39.6–59.3)
Kent County, Rhode Island	123	N/A	N/A	N/A
Providence County, Rhode Island	412	66.6	2.6	(61.6–71.7)
Washington County, Rhode Island	88	N/A	N/A	N/A
Richland County, South Carolina	43	N/A	N/A	N/A
Darlington County, South Carolina	66	N/A	N/A	N/A
Florence County, South Carolina	93	N/A	N/A	N/A
Pennington County, South Dakota	99	N/A	N/A	N/A
Minnehaha County, South Dakota	174	56.4	4.1	(48.3–64.5)
Shelby County, Tennessee	84	N/A	N/A	N/A
Davidson County, Tennessee	48	N/A	N/A	N/A
Dallas County, Texas	84	N/A	N/A	N/A
Harris County, Texas	91	N/A	N/A	N/A
Davis County, Utah	43	N/A	N/A	N/A
Weber County, Utah	40	N/A	N/A	N/A
Salt Lake County, Utah	159	N/A	N/A	N/A
Tooele County, Utah	37	N/A	N/A	N/A
Chittenden County, Vermont	145	N/A	N/A	N/A
Franklin County, Vermont	48	N/A	N/A	N/A
King County, Washington	213	61.5	4.0	(53.7–69.3)
Snohomish County, Washington	60	N/A	N/A	N/A
Pierce County, Washington	94	N/A	N/A	N/A
Kanawha County, West Virginia	98	N/A	N/A	N/A
Milwaukee County, Wisconsin	213	73.1	4.2	(64.9–81.3)
Laramie County, Wyoming	116	N/A	N/A	N/A

**Summary:** Number of participants = 32; median: 63.2; mean: 62.1; range: 47.9–73.1.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 35. Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — United States, Behavior Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,282	95.7	0.7	(94.3–97.1)
Alaska	1,156	97.4	0.7	(96.0–98.8)
Arizona	1,267	96.0	0.8	(94.4–97.6)
Arkansas	1,462	96.4	0.6	(95.2–97.6)
California	1,872	92.0	0.9	(90.2–93.8)
Colorado	1,746	95.6	0.6	(94.4–96.8)
Connecticut	2,617	94.2	0.7	(92.8–95.6)
Delaware	870	97.6	0.6	(96.4–98.8)
District of Columbia	1,121	93.6	1.2	(91.2–96.0)
Florida	2,637	92.7	0.7	(91.3–94.1)
Georgia	2,202	95.3	0.8	(93.7–96.9)
Hawaii	2,753	94.4	0.6	(93.2–95.6)
Idaho	1,983	94.8	0.7	(93.4–96.2)
Illinois	1,208	92.7	1.2	(90.3–95.1)
Indiana	2,480	94.6	0.6	(93.4–95.8)
Iowa	1,581	96.8	0.6	(95.6–98.0)
Kansas	1,883	93.8	0.7	(92.4–95.2)
Kentucky	2,998	91.9	1.5	(89.0–94.8)
Louisiana	2,018	94.7	0.6	(93.5–95.9)
Maine	1,131	97.2	0.6	(96.0–98.4)
Maryland	2,047	96.1	0.6	(94.9–97.3)
Massachusetts	3,562	94.1	0.6	(92.9–95.3)
Michigan	2,587	95.9	0.6	(94.7–97.1)
Minnesota	2,007	96.0	0.6	(94.8–97.2)
Mississippi	1,699	95.3	0.6	(94.1–96.5)
Missouri	2,051	93.9	0.8	(92.3–95.5)
Montana	1,615	95.1	0.9	(93.3–96.9)
Nebraska	1,956	94.1	0.8	(92.5–95.7)
Nevada	1,131	93.2	1.3	(90.7–95.7)
New Hampshire	2,324	96.1	0.5	(95.1–97.1)
New Jersey	3,042	92.8	0.9	(91.0–94.6)
New Mexico	2,019	94.1	0.8	(92.5–95.7)
New York	2,191	92.0	0.9	(90.2–93.8)
North Carolina	2,925	95.4	0.6	(94.2–96.6)
North Dakota	1,248	95.5	0.8	(93.9–97.1)
Ohio	1,798	95.0	0.7	(93.6–96.4)
Oklahoma	2,603	94.1	0.7	(92.7–95.5)
Oregon	1,276	95.3	0.8	(93.7–96.9)
Pennsylvania	6,058	95.0	0.5	(94.0–96.0)
Rhode Island	1,803	94.7	0.7	(93.3–96.1)
South Carolina	1,775	95.5	0.8	(93.9–97.1)
South Dakota	2,080	95.1	0.7	(93.7–96.5)
Tennessee	1,275	94.4	0.8	(92.8–96.0)
Texas	2,572	92.5	0.7	(91.1–93.9)
Utah	1,553	89.7	1.3	(87.2–92.2)
Vermont	1,940	96.7	0.5	(95.7–97.7)
Virginia	1,887	96.7	0.6	(95.5–97.9)
Washington	2,162	95.2	0.7	(93.8–96.6)
West Virginia	1,415	95.7	0.7	(94.3–97.1)
Wisconsin	1,935	96.7	0.6	(95.5–97.9)
Wyoming	1,390	95.3	1.0	(93.3–97.3)
Guam	415	88.5	2.0	(84.6–92.4)
Puerto Rico	1,972	81.9	1.3	(79.4–84.4)
Virgin Islands	1,083	90.2	1.4	(87.5–92.9)

**Summary:** Number of participants = 54; median: 95.0; range: 81.9–97.6.

**TABLE 36. Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	234	N/A*	N/A	N/A
Albuquerque, NM	587	N/A	N/A	N/A
Anchorage, AK	221	N/A	N/A	N/A
Asheville, NC	356	N/A	N/A	N/A
Atlanta-Sandy Springs-Marietta, GA	885	N/A	N/A	N/A
Baltimore-Towson, MD	781	N/A	N/A	N/A
Baton Rouge, LA	296	N/A	N/A	N/A
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	423	N/A	N/A	N/A
Birmingham-Hoover, AL	340	N/A	N/A	N/A
Boise City-Nampa, ID	477	N/A	N/A	N/A
Boston-Quincy, MA Metropolitan Division	1,027	92.7	1.2	(90.3–95.1)
Bridgeport-Stamford-Norwalk, CT	483	N/A	N/A	N/A
Burlington-South Burlington, VT	581	N/A	N/A	N/A
Cambridge-Newton-Framingham, MA Metropolitan Division	676	N/A	N/A	N/A
Chambersburg, PA	516	N/A	N/A	N/A
Charleston, WV	247	N/A	N/A	N/A
Cheyenne, WY	226	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	653	N/A	N/A	N/A
Cincinnati-Middletown, OH-KY-IN	377	N/A	N/A	N/A
Columbia, SC	212	N/A	N/A	N/A
Concord, NH	274	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	376	N/A	N/A	N/A
Dayton, OH	251	N/A	N/A	N/A
Denver-Aurora, CO	816	N/A	N/A	N/A
Des Moines, IA	278	N/A	N/A	N/A
Detroit-Livonia-Dearborn, MI Metropolitan Division	327	N/A	N/A	N/A
Dover, DE	238	N/A	N/A	N/A
Durham, NC	307	N/A	N/A	N/A
Edison, NJ Metropolitan Division	1,057	92.2	1.7	(88.9–95.6)
Essex County, MA Metropolitan Division	383	N/A	N/A	N/A
Fargo, ND-MN	246	N/A	N/A	N/A
Florence, SC	333	N/A	N/A	N/A
Greensboro-High Point, NC	384	N/A	N/A	N/A
Hartford-West Hartford-East Hartford, CT	970	N/A	N/A	N/A
Hilo, HI	618	N/A	N/A	N/A
Honolulu, HI	1,328	94.5	0.8	(93.0–95.9)
Houston-Baytown-Sugar Land, TX	482	N/A	N/A	N/A
Huntington-Ashland, WV-KY-OH	257	N/A	N/A	N/A
Indianapolis, IN	551	N/A	N/A	N/A
Jackson, MS	273	N/A	N/A	N/A
Jacksonville, FL	250	N/A	N/A	N/A
Kahului-Wailuku, HI	539	N/A	N/A	N/A
Kansas City, MO-KS	844	N/A	N/A	N/A
Kapaa, HI	268	N/A	N/A	N/A
Lancaster, PA	555	N/A	N/A	N/A
Las Vegas-Paradise, NV	382	N/A	N/A	N/A
Lebanon, NH-VT	484	N/A	N/A	N/A
Lincoln, NE	296	N/A	N/A	N/A
Little Rock-North Little Rock, AR	314	N/A	N/A	N/A
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	445	N/A	N/A	N/A
Louisville, KY-IN	364	N/A	N/A	N/A
Manchester-Nashua, NH	669	N/A	N/A	N/A
Memphis, TN-MS-AR	365	N/A	N/A	N/A
Miami-Miami Beach-Kendall, FL Metropolitan Division	317	N/A	N/A	N/A
Milwaukee-Waukesha-West Allis, WI	679	N/A	N/A	N/A
Minneapolis-St. Paul-Bloomington, MN-WI	1,144	N/A	N/A	N/A
Nashville-Davidson-Murfreesboro, TN	297	N/A	N/A	N/A
Newark-Union, NJ-PA Metropolitan Division	699	N/A	N/A	N/A
New Haven-Milford, CT	484	N/A	N/A	N/A
New Orleans-Metairie-Kenner, LA	520	N/A	N/A	N/A

**TABLE 36. (Continued) Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,792	89.1	1.3	(86.5–91.6)
Norwich-New London, CT	241	N/A	N/A	N/A
Ogden-Clearfield, UT	192	N/A	N/A	N/A
Oklahoma City, OK	768	N/A	N/A	N/A
Omaha-Council Bluffs, NE-IA	734	N/A	N/A	N/A
Orlando, FL	257	N/A	N/A	N/A
Philadelphia, PA Metropolitan Division	1,565	N/A	N/A	N/A
Phoenix-Mesa-Scottsdale, AZ	423	N/A	N/A	N/A
Pittsburgh, PA	1,422	94.4	1.0	(92.6–96.3)
Portland-South Portland, ME	394	N/A	N/A	N/A
Portland-Vancouver-Beaverton, OR-WA	710	N/A	N/A	N/A
Providence-New Bedford-Fall River, RI-MA	2,142	94.5	0.7	(93.1–95.9)
Rapid City, SD	255	N/A	N/A	N/A
Reno-Sparks, NV	379	N/A	N/A	N/A
Richmond, VA	288	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	702	N/A	N/A	N/A
St. Louis, MO-IL	398	N/A	N/A	N/A
Salt Lake City, UT	614	N/A	N/A	N/A
Seaford, DE	329	N/A	N/A	N/A
Seattle-Bellevue-Everett, WA Metropolitan Division	862	N/A	N/A	N/A
Sioux Falls, SD	488	N/A	N/A	N/A
Springfield, MA	453	N/A	N/A	N/A
Suffolk County-Nassau County, NY Metropolitan Division	288	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	227	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	389	N/A	N/A	N/A
Toledo, OH	252	N/A	N/A	N/A
Topeka, KS	228	N/A	N/A	N/A
Tucson, AZ	282	N/A	N/A	N/A
Tulsa, OK	631	N/A	N/A	N/A
Virginia Beach-Norfolk-Newport News, VA-NC	385	N/A	N/A	N/A
Warren-Farmington Hills-Troy, MI Metropolitan Division	395	N/A	N/A	N/A
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,878	95.5	0.9	(93.7–97.4)
Wichita, KS	331	N/A	N/A	N/A
Willimantic, CT	250	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	367	N/A	N/A	N/A
Winston-Salem, NC	213	N/A	N/A	N/A
Worcester, MA	494	N/A	N/A	N/A
Youngstown-Warren-Boardman, OH-PA	283	N/A	N/A	N/A

**Summary:** Number of participants = 7; median: 94.4; mean: 93.3; range: 89.1–95.5.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.



**TABLE 37. Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	206	N/A*	N/A	N/A
Anchorage Municipality, Alaska	179	N/A	N/A	N/A
Maricopa County, Arizona	360	N/A	N/A	N/A
Pima County, Arizona	282	N/A	N/A	N/A
Pulaski County, Arkansas	195	N/A	N/A	N/A
Los Angeles County, California	445	N/A	N/A	N/A
Adams County, Colorado	123	N/A	N/A	N/A
Arapahoe County, Colorado	183	N/A	N/A	N/A
Denver County, Colorado	214	N/A	N/A	N/A
Jefferson County, Colorado	215	N/A	N/A	N/A
Fairfield County, Connecticut	483	N/A	N/A	N/A
Hartford County, Connecticut	506	N/A	N/A	N/A
Middlesex County, Connecticut	226	N/A	N/A	N/A
Tolland County, Connecticut	238	N/A	N/A	N/A
New Haven County, Connecticut	484	N/A	N/A	N/A
New London County, Connecticut	241	N/A	N/A	N/A
Windham County, Connecticut	250	N/A	N/A	N/A
Kent County, Delaware	238	N/A	N/A	N/A
Sussex County, Delaware	329	N/A	N/A	N/A
New Castle County, Delaware	303	N/A	N/A	N/A
District of Columbia	1,121	N/A	N/A	N/A
Duval County, Florida	152	N/A	N/A	N/A
Miami-Dade County, Florida	317	N/A	N/A	N/A
Orange County, Florida	144	N/A	N/A	N/A
Hillsborough County	NA	N/A	N/A	N/A
Pinellas County, Florida	166	N/A	N/A	N/A
Cobb County, Georgia	120	N/A	N/A	N/A
DeKalb County, Georgia	127	N/A	N/A	N/A
Fulton County, Georgia	130	N/A	N/A	N/A
Hawaii County, Hawaii	618	N/A	N/A	N/A
Honolulu County, Hawaii	1,328	94.5	0.8	(93.0–95.9)
Maui County, Hawaii	539	N/A	N/A	N/A
Kauai County, Hawaii	268	N/A	N/A	N/A
Ada County, Idaho	257	N/A	N/A	N/A
Canyon County, Idaho	177	N/A	N/A	N/A
Cook County, Illinois	445	N/A	N/A	N/A
DuPage County, Illinois	76	N/A	N/A	N/A
Marion County, Indiana	286	N/A	N/A	N/A
Polk County, Iowa	200	N/A	N/A	N/A
Shawnee County, Kansas	190	N/A	N/A	N/A
Sedgwick County, Kansas	258	N/A	N/A	N/A
Jefferson County, Kentucky	156	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	162	N/A	N/A	N/A
Jefferson Parish, Louisiana	151	N/A	N/A	N/A
Orleans Parish, Louisiana	227	N/A	N/A	N/A
St. Tammany Parish, Louisiana	86	N/A	N/A	N/A
Cumberland County, Maine	229	N/A	N/A	N/A
York County, Maine	139	N/A	N/A	N/A
Anne Arundel County, Maryland	158	N/A	N/A	N/A
Baltimore County, Maryland	238	N/A	N/A	N/A
Baltimore city, Maryland	164	N/A	N/A	N/A
Frederick County, Maryland	136	N/A	N/A	N/A
Montgomery County, Maryland	287	N/A	N/A	N/A
Norfolk County, Massachusetts	270	N/A	N/A	N/A
Plymouth County, Massachusetts	198	N/A	N/A	N/A
Suffolk County, Massachusetts	559	N/A	N/A	N/A
Middlesex County, Massachusetts	676	N/A	N/A	N/A
Essex County, Massachusetts	383	N/A	N/A	N/A
Hampden County, Massachusetts	318	N/A	N/A	N/A
Worcester County, Massachusetts	494	N/A	N/A	N/A

**TABLE 37. (Continued) Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	327	N/A	N/A	N/A
Macomb County, Michigan	122	N/A	N/A	N/A
Oakland County, Michigan	213	N/A	N/A	N/A
Anoka County, Minnesota	115	N/A	N/A	N/A
Dakota County, Minnesota	145	N/A	N/A	N/A
Hennepin County, Minnesota	448	N/A	N/A	N/A
Ramsey County, Minnesota	185	N/A	N/A	N/A
Hinds County, Mississippi	133	N/A	N/A	N/A
Jackson County, Missouri	193	N/A	N/A	N/A
Johnson County, Kansas	337	N/A	N/A	N/A
St. Louis County, Missouri	155	N/A	N/A	N/A
Lancaster County, Nebraska	280	N/A	N/A	N/A
Douglas County, Nebraska	468	N/A	N/A	N/A
Sarpy County, Nebraska	120	N/A	N/A	N/A
Clark County, Nevada	382	N/A	N/A	N/A
Washoe County, Nevada	375	N/A	N/A	N/A
Merrimack County, New Hampshire	274	N/A	N/A	N/A
Grafton County, New Hampshire	181	N/A	N/A	N/A
Orange County, Vermont	118	N/A	N/A	N/A
Windsor County, Vermont	185	N/A	N/A	N/A
Hillsborough County, New Hampshire	669	N/A	N/A	N/A
Rockingham County, New Hampshire	496	N/A	N/A	N/A
Strafford County, New Hampshire	206	N/A	N/A	N/A
Monmouth County, New Jersey	151	N/A	N/A	N/A
Somerset County, New Jersey	250	N/A	N/A	N/A
Essex County, New Jersey	238	N/A	N/A	N/A
Morris County, New Jersey	243	N/A	N/A	N/A
Bernalillo County, New Mexico	399	N/A	N/A	N/A
Sandoval County, New Mexico	93	N/A	N/A	N/A
Bergen County, New Jersey	606	N/A	N/A	N/A
Kings County, New York	223	N/A	N/A	N/A
Queens County, New York	149	N/A	N/A	N/A
Suffolk County, New York	161	N/A	N/A	N/A
Buncombe County, North Carolina	184	N/A	N/A	N/A
Henderson County, North Carolina	142	N/A	N/A	N/A
Orange County, North Carolina	218	N/A	N/A	N/A
Guilford County, North Carolina	194	N/A	N/A	N/A
Randolph County, North Carolina	174	N/A	N/A	N/A
Forsyth County, North Carolina	196	N/A	N/A	N/A
Cass County, North Dakota	218	N/A	N/A	N/A
Summit County, Ohio	213	N/A	N/A	N/A
Montgomery County, Ohio	216	N/A	N/A	N/A
Lucas County, Ohio	223	N/A	N/A	N/A
Mahoning County, Ohio	220	N/A	N/A	N/A
Cleveland County, Oklahoma	124	N/A	N/A	N/A
Oklahoma County, Oklahoma	436	N/A	N/A	N/A
Tulsa County, Oklahoma	426	N/A	N/A	N/A
Clackamas County, Oregon	110	N/A	N/A	N/A
Clark County, Washington	136	N/A	N/A	N/A
Multnomah County, Oregon	259	N/A	N/A	N/A
Washington County, Oregon	150	N/A	N/A	N/A
Franklin County, Pennsylvania	516	N/A	N/A	N/A
Lancaster County, Pennsylvania	555	N/A	N/A	N/A
Bucks County, Pennsylvania	160	N/A	N/A	N/A
Chester County, Pennsylvania	591	N/A	N/A	N/A
Delaware County, Pennsylvania	182	N/A	N/A	N/A
Montgomery County, Pennsylvania	254	N/A	N/A	N/A
Philadelphia County, Pennsylvania	378	N/A	N/A	N/A
Allegheny County, Pennsylvania	480	N/A	N/A	N/A
Armstrong County, Pennsylvania	576	N/A	N/A	N/A

**TABLE 37. (Continued) Estimated prevalence of women aged  $\geq 18$  years who had received a Papanicolaou smear test — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	130	N/A	N/A	N/A
Bristol County, Massachusetts	339	N/A	N/A	N/A
Kent County, Rhode Island	216	N/A	N/A	N/A
Providence County, Rhode Island	1,134	93.3	1.0	(91.3–95.3)
Washington County, Rhode Island	221	N/A	N/A	N/A
Richland County, South Carolina	109	N/A	N/A	N/A
Darlington County, South Carolina	120	N/A	N/A	N/A
Florence County, South Carolina	213	N/A	N/A	N/A
Pennington County, South Dakota	198	N/A	N/A	N/A
Minnehaha County, South Dakota	358	N/A	N/A	N/A
Shelby County, Tennessee	216	N/A	N/A	N/A
Davidson County, Tennessee	129	N/A	N/A	N/A
Dallas County, Texas	239	N/A	N/A	N/A
Harris County, Texas	337	N/A	N/A	N/A
Davis County, Utah	90	N/A	N/A	N/A
Weber County, Utah	100	N/A	N/A	N/A
Salt Lake County, Utah	395	N/A	N/A	N/A
Tooele County, Utah	110	N/A	N/A	N/A
Chittenden County, Vermont	414	N/A	N/A	N/A
Franklin County, Vermont	140	N/A	N/A	N/A
King County, Washington	626	N/A	N/A	N/A
Snohomish County, Washington	236	N/A	N/A	N/A
Pierce County, Washington	227	N/A	N/A	N/A
Kanawha County, West Virginia	167	N/A	N/A	N/A
Milwaukee County, Wisconsin	552	N/A	N/A	N/A
Laramie County, Wyoming	226	N/A	N/A	N/A

**Summary:** Number of participants = 2; median: 93.9; mean: 93.9; range: 93.3–94.5.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was  $< 50$  or the confidence interval half width was  $> 10$ .

**TABLE 38. Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,380	91.5	0.9	(89.7–93.3)
Alaska	890	87.5	1.8	(84.0–91.0)
Arizona	1,362	90.2	1.2	(87.8–92.6)
Arkansas	1,680	85.0	1.0	(83.0–87.0)
California	1,474	88.2	1.2	(85.8–90.6)
Colorado	1,516	89.8	0.9	(88.0–91.6)
Connecticut	2,167	92.2	0.8	(90.6–93.8)
Delaware	1,628	92.8	1.0	(90.8–94.8)
District of Columbia	757	92.6	1.1	(90.4–94.8)
Florida	2,555	89.9	0.8	(88.3–91.5)
Georgia	1,981	89.8	0.9	(88.0–91.6)
Hawaii	2,312	85.7	1.0	(83.7–87.7)
Idaho	1,939	85.7	0.9	(83.9–87.5)
Illinois	996	88.1	1.4	(85.4–90.8)
Indiana	2,266	89.3	0.7	(87.9–90.7)
Iowa	1,566	88.3	1.1	(86.1–90.5)
Kansas	1,802	87.3	0.9	(85.5–89.1)
Kentucky	3,249	88.8	0.8	(87.2–90.4)
Louisiana	2,065	87.3	0.9	(85.5–89.1)
Maine	1,015	92.2	0.9	(90.4–94.0)
Maryland	1,717	92.2	0.8	(90.6–93.8)
Massachusetts	2,700	92.8	0.6	(91.6–94.0)
Michigan	2,358	92.4	0.7	(91.0–93.8)
Minnesota	1,774	91.8	0.8	(90.2–93.4)
Mississippi	1,828	85.6	0.9	(83.8–87.4)
Missouri	1,987	88.2	0.9	(86.4–90.0)
Montana	1,586	86.8	1.2	(84.4–89.2)
Nebraska	1,841	86.8	0.9	(85.0–88.6)
Nevada	1,069	88.0	1.4	(85.3–90.7)
New Hampshire	1,901	93.0	0.7	(91.6–94.4)
New Jersey	2,433	88.9	1.3	(86.4–91.4)
New Mexico	1,919	84.8	1.0	(82.8–86.8)
New York	1,670	90.3	0.8	(88.7–91.9)
North Carolina	2,728	90.7	0.9	(88.9–92.5)
North Dakota	1,194	90.2	1.0	(88.2–92.2)
Ohio	1,585	90.1	0.9	(88.3–91.9)
Oklahoma	2,893	85.8	0.8	(84.2–87.4)
Oregon	1,257	90.3	1.0	(88.3–92.3)
Pennsylvania	5,501	90.9	0.5	(89.9–91.9)
Rhode Island	1,485	94.1	0.7	(92.7–95.5)
South Carolina	1,817	90.3	0.9	(88.5–92.1)
South Dakota	1,962	88.4	0.8	(86.8–90.0)
Tennessee	1,233	87.0	1.1	(84.8–89.2)
Texas	2,222	86.1	0.8	(84.5–87.7)
Utah	1,285	87.7	1.2	(85.3–90.1)
Vermont	1,671	88.1	0.9	(86.3–89.9)
Virginia	1,666	91.0	0.9	(89.2–92.8)
Washington	1,900	91.5	0.8	(89.9–93.1)
West Virginia	1,444	88.3	0.9	(86.5–90.1)
Wisconsin	1,650	90.7	0.8	(89.1–92.3)
Wyoming	1,415	86.5	1.0	(84.5–88.5)
Guam	204	75.4	3.7	(68.1–82.7)
Puerto Rico	1,704	86.4	1.0	(84.4–88.4)
Virgin Islands	808	77.4	1.9	(73.7–81.1)

**Summary:** Number of participants = 54; median: 88.9; range: 75.4–94.1.

**TABLE 39. Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	197	N/A*	N/A	N/A
Albuquerque, NM	541	89.4	1.6	(86.2–92.5)
Anchorage, AK	155	N/A	N/A	N/A
Asheville, NC	377	N/A	N/A	N/A
Atlanta-Sandy Springs-Marietta, GA	680	90.3	1.5	(87.4–93.3)
Baltimore-Towson, MD	662	N/A	N/A	N/A
Baton Rouge, LA	285	N/A	N/A	N/A
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	330	N/A	N/A	N/A
Birmingham-Hoover, AL	370	N/A	N/A	N/A
Boise City-Nampa, ID	432	N/A	N/A	N/A
Boston-Quincy, MA Metropolitan Division	674	91.8	1.2	(89.5–94.1)
Bridgeport-Stamford-Norwalk, CT	391	N/A	N/A	N/A
Burlington-South Burlington, VT	475	86.5	1.8	(83.0–90.0)
Cambridge-Newton-Framingham, MA Metropolitan Division	497	N/A	N/A	N/A
Chambersburg, PA	529	N/A	N/A	N/A
Charleston, WV	251	N/A	N/A	N/A
Cheyenne, WY	234	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	478	N/A	N/A	N/A
Cincinnati-Middletown, OH-KY-IN	352	N/A	N/A	N/A
Columbia, SC	190	N/A	N/A	N/A
Concord, NH	239	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	282	N/A	N/A	N/A
Dayton, OH	228	N/A	N/A	N/A
Denver-Aurora, CO	698	89.9	1.3	(87.3–92.5)
Des Moines, IA	263	N/A	N/A	N/A
Detroit-Livonia-Dearborn, MI Metropolitan Division	278	N/A	N/A	N/A
Dover, DE	459	N/A	N/A	N/A
Durham, NC	232	N/A	N/A	N/A
Edison, NJ Metropolitan Division	832	86.9	2.3	(82.4–91.3)
Essex County, MA Metropolitan Division	286	N/A	N/A	N/A
Fargo, ND-MN	217	N/A	N/A	N/A
Florence, SC	364	N/A	N/A	N/A
Greensboro-High Point, NC	374	N/A	N/A	N/A
Hartford-West Hartford-East Hartford, CT	823	92.3	1.2	(90.1–94.6)
Hilo, HI	600	88.7	1.5	(85.8–91.6)
Honolulu, HI	1,026	85.5	1.4	(82.8–88.2)
Houston-Baytown-Sugar Land, TX	406	N/A	N/A	N/A
Huntington-Ashland, WV-KY-OH	268	N/A	N/A	N/A
Indianapolis, IN	480	N/A	N/A	N/A
Jackson, MS	309	N/A	N/A	N/A
Jacksonville, FL	250	N/A	N/A	N/A
Kahului-Wailuku, HI	430	83.5	2.3	(79.0–88.0)
Kansas City, MO-KS	702	88.4	1.6	(85.4–91.4)
Kapaa, HI	256	N/A	N/A	N/A
Lancaster, PA	493	N/A	N/A	N/A
Las Vegas-Paradise, NV	352	N/A	N/A	N/A
Lebanon, NH-VT	437	N/A	N/A	N/A
Lincoln, NE	255	N/A	N/A	N/A
Little Rock-North Little Rock, AR	346	N/A	N/A	N/A
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	302	N/A	N/A	N/A
Louisville, KY-IN	409	N/A	N/A	N/A
Manchester-Nashua, NH	507	N/A	N/A	N/A
Memphis, TN-MS-AR	307	N/A	N/A	N/A
Miami-Miami Beach-Kendall, FL Metropolitan Division	245	N/A	N/A	N/A
Milwaukee-Waukesha-West Allis, WI	545	N/A	N/A	N/A
Minneapolis-St. Paul-Bloomington, MN-WI	936	91.6	1.1	(89.5–93.6)
Nashville-Davidson-Murfreesboro, TN	268	N/A	N/A	N/A
Newark-Union, NJ-PA Metropolitan Division	592	91.9	2.0	(88.0–95.8)
New Haven-Milford, CT	391	N/A	N/A	N/A
New Orleans-Metairie-Kenner, LA	477	86.7	2.3	(82.1–91.2)

**TABLE 39. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,248	90.0	1.2	(87.6–92.4)
Norwich-New London, CT	192	N/A	N/A	N/A
Ogden-Clearfield, UT	170	N/A	N/A	N/A
Oklahoma City, OK	779	88.2	1.3	(85.7–90.6)
Omaha-Council Bluffs, NE-IA	649	91.9	1.2	(89.7–94.2)
Orlando, FL	215	N/A	N/A	N/A
Philadelphia, PA Metropolitan Division	1,266	92.6	1.0	(90.7–94.5)
Phoenix-Mesa-Scottsdale, AZ	424	N/A	N/A	N/A
Pittsburgh, PA	1,387	91.0	1.1	(88.9–93.1)
Portland-South Portland, ME	330	N/A	N/A	N/A
Portland-Vancouver-Beaverton, OR-WA	604	91.3	1.3	(88.8–93.8)
Providence-New Bedford-Fall River, RI-MA	1,771	94.4	0.6	(93.2–95.5)
Rapid City, SD	234	N/A	N/A	N/A
Reno-Sparks, NV	337	N/A	N/A	N/A
Richmond, VA	236	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	557	N/A	N/A	N/A
St. Louis, MO-IL	341	N/A	N/A	N/A
Salt Lake City, UT	460	90.3	1.6	(87.1–93.4)
Seaford, DE	627	N/A	N/A	N/A
Seattle-Bellevue-Everett, WA Metropolitan Division	683	N/A	N/A	N/A
Sioux Falls, SD	419	84.8	2.1	(80.8–88.8)
Springfield, MA	378	N/A	N/A	N/A
Suffolk County-Nassau County, NY Metropolitan Division	211	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	180	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	373	N/A	N/A	N/A
Toledo, OH	214	N/A	N/A	N/A
Topeka, KS	192	N/A	N/A	N/A
Tucson, AZ	291	N/A	N/A	N/A
Tulsa, OK	669	89.1	1.4	(86.4–91.8)
Virginia Beach-Norfolk-Newport News, VA-NC	327	N/A	N/A	N/A
Warren-Farmington Hills-Troy, MI Metropolitan Division	352	N/A	N/A	N/A
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,313	94.0	1.3	(91.4–96.5)
Wichita, KS	355	N/A	N/A	N/A
Willimantic, CT	201	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	601	N/A	N/A	N/A
Winston-Salem, NC	212	N/A	N/A	N/A
Worcester, MA	379	N/A	N/A	N/A
Youngstown-Warren-Boardman, OH-PA	279	N/A	N/A	N/A

**Summary:** Number of participants = 25; median: 90.0; mean: 89.6; range: 83.5–94.4.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 40. Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	218	N/A*	N/A	N/A
Anchorage Municipality, Alaska	126	N/A	N/A	N/A
Maricopa County, Arizona	351	N/A	N/A	N/A
Pima County, Arizona	291	N/A	N/A	N/A
Pulaski County, Arkansas	199	N/A	N/A	N/A
Los Angeles County, California	302	N/A	N/A	N/A
Adams County, Colorado	122	N/A	N/A	N/A
Arapahoe County, Colorado	144	N/A	N/A	N/A
Denver County, Colorado	153	N/A	N/A	N/A
Jefferson County, Colorado	206	N/A	N/A	N/A
Fairfield County, Connecticut	391	N/A	N/A	N/A
Hartford County, Connecticut	441	N/A	N/A	N/A
Middlesex County, Connecticut	178	N/A	N/A	N/A
Tolland County, Connecticut	204	N/A	N/A	N/A
New Haven County, Connecticut	391	N/A	N/A	N/A
New London County, Connecticut	192	N/A	N/A	N/A
Windham County, Connecticut	201	N/A	N/A	N/A
Kent County, Delaware	459	N/A	N/A	N/A
Sussex County, Delaware	627	N/A	N/A	N/A
New Castle County, Delaware	542	N/A	N/A	N/A
District of Columbia	757	92.6	1.1	(90.4–94.7)
Duval County, Florida	162	N/A	N/A	N/A
Miami-Dade County, Florida	245	N/A	N/A	N/A
Orange County, Florida	111	N/A	N/A	N/A
Hillsborough County, Florida	118	N/A	N/A	N/A
Pinellas County, Florida	163	N/A	N/A	N/A
Cobb County, Georgia	83	N/A	N/A	N/A
DeKalb County, Georgia	88	N/A	N/A	N/A
Fulton County, Georgia	92	N/A	N/A	N/A
Hawaii County, Hawaii	600	88.7	1.5	(85.8–91.6)
Honolulu County, Hawaii	1,026	85.5	1.4	(82.8–88.2)
Maui County, Hawaii	430	83.5	2.3	(79.0–88.0)
Kauai County, Hawaii	256	N/A	N/A	N/A
Ada County, Idaho	212	N/A	N/A	N/A
Canyon County, Idaho	172	N/A	N/A	N/A
Cook County, Illinois	315	N/A	N/A	N/A
DuPage County, Illinois	47	N/A	N/A	N/A
Marion County, Indiana	234	N/A	N/A	N/A
Polk County, Iowa	189	N/A	N/A	N/A
Shawnee County, Kansas	144	N/A	N/A	N/A
Sedgwick County, Kansas	269	N/A	N/A	N/A
Jefferson County, Kentucky	187	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	149	N/A	N/A	N/A
Jefferson Parish, Louisiana	134	N/A	N/A	N/A
Orleans Parish, Louisiana	181	N/A	N/A	N/A
St. Tammany Parish, Louisiana	91	N/A	N/A	N/A
Cumberland County, Maine	182	N/A	N/A	N/A
York County, Maine	123	N/A	N/A	N/A
Anne Arundel County, Maryland	128	N/A	N/A	N/A
Baltimore County, Maryland	201	N/A	N/A	N/A
Baltimore city, Maryland	141	N/A	N/A	N/A
Frederick County, Maryland	102	N/A	N/A	N/A
Montgomery County, Maryland	228	N/A	N/A	N/A
Norfolk County, Massachusetts	205	N/A	N/A	N/A
Plymouth County, Massachusetts	176	N/A	N/A	N/A
Suffolk County, Massachusetts	293	N/A	N/A	N/A
Middlesex County, Massachusetts	497	N/A	N/A	N/A
Essex County, Massachusetts	286	N/A	N/A	N/A
Hampden County, Massachusetts	271	N/A	N/A	N/A
Worcester County, Massachusetts	379	N/A	N/A	N/A

**TABLE 40. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	278	N/A	N/A	N/A
Macomb County, Michigan	100	N/A	N/A	N/A
Oakland County, Michigan	188	N/A	N/A	N/A
Anoka County, Minnesota	95	N/A	N/A	N/A
Dakota County, Minnesota	122	N/A	N/A	N/A
Hennepin County, Minnesota	357	N/A	N/A	N/A
Ramsey County, Minnesota	157	N/A	N/A	N/A
Hinds County, Mississippi	144	N/A	N/A	N/A
Jackson County, Missouri	165	N/A	N/A	N/A
Johnson County, Kansas	254	N/A	N/A	N/A
St. Louis County, Missouri	132	N/A	N/A	N/A
Lancaster County, Nebraska	240	N/A	N/A	N/A
Douglas County, Nebraska	384	N/A	N/A	N/A
Sarpy County, Nebraska	93	N/A	N/A	N/A
Clark County, Nevada	352	N/A	N/A	N/A
Washoe County, Nevada	334	N/A	N/A	N/A
Merrimack County, New Hampshire	239	N/A	N/A	N/A
Grafton County, New Hampshire	149	N/A	N/A	N/A
Orange County, Vermont	120	N/A	N/A	N/A
Windsor County, Vermont	168	N/A	N/A	N/A
Hillsborough County, New Hampshire	507	N/A	N/A	N/A
Rockingham County, New Hampshire	393	N/A	N/A	N/A
Strafford County, New Hampshire	164	N/A	N/A	N/A
Monmouth County, New Jersey	108	N/A	N/A	N/A
Somerset County, New Jersey	211	N/A	N/A	N/A
Essex County, New Jersey	200	N/A	N/A	N/A
Morris County, New Jersey	199	N/A	N/A	N/A
Bernalillo County, New Mexico	356	N/A	N/A	N/A
Sandoval County, New Mexico	90	N/A	N/A	N/A
Bergen County, New Jersey	500	85.6	3.1	(79.5–91.6)
Kings County, New York	145	N/A	N/A	N/A
Queens County, New York	106	N/A	N/A	N/A
Suffolk County, New York	111	N/A	N/A	N/A
Buncombe County, North Carolina	178	N/A	N/A	N/A
Henderson County, North Carolina	165	N/A	N/A	N/A
Orange County, North Carolina	158	N/A	N/A	N/A
Guilford County, North Carolina	183	N/A	N/A	N/A
Randolph County, North Carolina	172	N/A	N/A	N/A
Forsyth County, North Carolina	192	N/A	N/A	N/A
Cass County, North Dakota	195	N/A	N/A	N/A
Summit County, Ohio	178	N/A	N/A	N/A
Montgomery County, Ohio	193	N/A	N/A	N/A
Lucas County, Ohio	186	N/A	N/A	N/A
Mahoning County, Ohio	216	N/A	N/A	N/A
Cleveland County, Oklahoma	128	N/A	N/A	N/A
Oklahoma County, Oklahoma	442	87.3	1.7	(83.9–90.7)
Tulsa County, Oklahoma	427	N/A	N/A	N/A
Clackamas County, Oregon	121	N/A	N/A	N/A
Clark County, Washington	103	N/A	N/A	N/A
Multnomah County, Oregon	218	N/A	N/A	N/A
Washington County, Oregon	116	N/A	N/A	N/A
Franklin County, Pennsylvania	529	N/A	N/A	N/A
Lancaster County, Pennsylvania	493	N/A	N/A	N/A
Bucks County, Pennsylvania	135	N/A	N/A	N/A
Chester County, Pennsylvania	511	N/A	N/A	N/A
Delaware County, Pennsylvania	158	N/A	N/A	N/A
Montgomery County, Pennsylvania	210	N/A	N/A	N/A
Philadelphia County, Pennsylvania	252	N/A	N/A	N/A
Allegheny County, Pennsylvania	438	N/A	N/A	N/A
Armstrong County, Pennsylvania	579	92.9	1.2	(90.6–95.2)



**TABLE 40. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram in their lifetime — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	132	N/A	N/A	N/A
Bristol County, Massachusetts	286	N/A	N/A	N/A
Kent County, Rhode Island	212	N/A	N/A	N/A
Providence County, Rhode Island	873	93.3	0.9	(91.5–95.1)
Washington County, Rhode Island	203	N/A	N/A	N/A
Richland County, South Carolina	94	N/A	N/A	N/A
Darlington County, South Carolina	140	N/A	N/A	N/A
Florence County, South Carolina	224	N/A	N/A	N/A
Pennington County, South Dakota	179	N/A	N/A	N/A
Minnehaha County, South Dakota	316	N/A	N/A	N/A
Shelby County, Tennessee	169	N/A	N/A	N/A
Davidson County, Tennessee	104	N/A	N/A	N/A
Dallas County, Texas	190	N/A	N/A	N/A
Harris County, Texas	261	N/A	N/A	N/A
Davis County, Utah	74	N/A	N/A	N/A
Weber County, Utah	93	N/A	N/A	N/A
Salt Lake County, Utah	290	N/A	N/A	N/A
Tooele County, Utah	82	N/A	N/A	N/A
Chittenden County, Vermont	345	N/A	N/A	N/A
Franklin County, Vermont	105	N/A	N/A	N/A
King County, Washington	489	N/A	N/A	N/A
Snohomish County, Washington	194	N/A	N/A	N/A
Pierce County, Washington	180	N/A	N/A	N/A
Kanawha County, West Virginia	174	N/A	N/A	N/A
Milwaukee County, Wisconsin	428	N/A	N/A	N/A
Laramie County, Wyoming	234	N/A	N/A	N/A

**Summary:** Number of participants = 8; median: 88.0; mean: 88.7; range: 83.5–93.3.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 41. Estimated prevalence of persons aged  $\geq 40$  years who had received a mammogram during the preceding 2 years — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,376	79.5	1.2	(77.1–81.9)
Alaska	883	72.2	2.4	(67.5–76.9)
Arizona	1,355	78.1	1.5	(75.2–81.0)
Arkansas	1,671	68.7	1.3	(66.2–71.2)
California	1,472	76.5	1.5	(73.6–79.4)
Colorado	1,509	74.4	1.3	(71.9–76.9)
Connecticut	2,147	82.4	1.0	(80.4–84.4)
Delaware	1,622	84.2	1.3	(81.7–86.7)
District of Columbia	754	82.2	1.8	(78.7–85.7)
Florida	2,544	78.3	1.0	(76.3–80.3)
Georgia	1,957	75.5	1.2	(73.1–77.9)
Hawaii	2,291	70.2	1.3	(67.7–72.7)
Idaho	1,927	67.0	1.2	(64.6–69.4)
Illinois	989	74.5	1.7	(71.2–77.8)
Indiana	2,255	73.5	1.0	(71.5–75.5)
Iowa	1,556	76.8	1.3	(74.3–79.3)
Kansas	1,792	76.1	1.1	(73.9–78.3)
Kentucky	3,193	76.5	1.1	(74.3–78.7)
Louisiana	2,046	76.4	1.1	(74.2–78.6)
Maine	1,008	82.2	1.3	(79.7–84.7)
Maryland	1,711	82.1	1.2	(79.7–84.5)
Massachusetts	2,683	83.2	0.9	(81.4–85.0)
Michigan	2,349	78.2	1.2	(75.8–80.6)
Minnesota	1,767	80.8	1.0	(78.8–82.8)
Mississippi	1,800	67.6	1.3	(65.1–70.1)
Missouri	1,972	74.3	1.3	(71.8–76.8)
Montana	1,575	72.5	1.5	(69.6–75.4)
Nebraska	1,826	75.1	1.2	(72.7–77.5)
Nevada	1,062	73.3	2.0	(69.4–77.2)
New Hampshire	1,890	80.6	1.0	(78.6–82.6)
New Jersey	2,419	77.7	1.6	(74.6–80.8)
New Mexico	1,908	69.6	1.2	(67.2–72.0)
New York	1,658	79.3	1.2	(76.9–81.7)
North Carolina	2,700	81.2	1.1	(79.0–83.4)
North Dakota	1,186	77.0	1.3	(74.5–79.5)
Ohio	1,572	76.2	1.3	(73.7–78.7)
Oklahoma	2,874	69.5	1.0	(67.5–71.5)
Oregon	1,249	75.8	1.4	(73.1–78.5)
Pennsylvania	5,458	76.7	0.7	(75.3–78.1)
Rhode Island	1,477	85.4	1.0	(83.4–87.4)
South Carolina	1,803	75.6	1.3	(73.1–78.1)
South Dakota	1,957	75.9	1.1	(73.7–78.1)
Tennessee	1,227	75.3	1.4	(72.6–78.0)
Texas	2,212	69.0	1.2	(66.6–71.4)
Utah	1,278	69.1	1.7	(65.8–72.4)
Vermont	1,665	77.0	1.1	(74.8–79.2)
Virginia	1,654	75.0	1.5	(72.1–77.9)
Washington	1,890	74.1	1.2	(71.7–76.5)
West Virginia	1,433	74.6	1.3	(72.1–77.1)
Wisconsin	1,645	80.2	1.1	(78.0–82.4)
Wyoming	1,410	68.1	1.4	(65.4–70.8)
Guam	203	60.3	4.1	(52.3–68.3)
Puerto Rico	1,688	74.0	1.3	(71.5–76.5)
Virgin Islands	797	62.4	2.2	(58.1–66.7)

**Summary:** Number of participants = 54; median: 75.9; range: 60.3–85.4.

**TABLE 42. Estimated prevalence of women aged ≥40 years who had received a mammogram during the preceding 2 years — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	194	74.4	3.6	(67.3–81.5)
Albuquerque, NM	538	76.1	2.1	(71.9–80.2)
Anchorage, AK	153	N/A*	N/A	N/A
Asheville, NC	376	82.0	2.5	(77.1–86.9)
Atlanta-Sandy Springs-Marietta, GA	677	76.5	2.0	(72.5–80.5)
Baltimore-Towson, MD	659	81.5	1.8	(78.0–84.9)
Baton Rouge, LA	282	77.4	3.8	(70.0–84.7)
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	330	82.6	2.9	(77.0–88.2)
Birmingham-Hoover, AL	368	83.7	2.1	(79.5–87.8)
Boise City-Nampa, ID	430	73.8	2.4	(69.2–78.4)
Boston-Quincy, MA Metropolitan Division	672	81.3	1.8	(77.7–84.8)
Bridgeport-Stamford-Norwalk, CT	387	82.4	2.3	(77.9–86.9)
Burlington-South Burlington, VT	475	78.6	2.1	(74.5–82.7)
Cambridge-Newton-Framingham, MA Metropolitan Division	494	83.0	2.0	(79.2–86.8)
Chambersburg, PA	523	81.9	2.0	(78.0–85.7)
Charleston, WV	250	76.9	2.9	(71.3–82.5)
Cheyenne, WY	234	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	475	74.1	2.5	(69.3–79.0)
Cincinnati-Middletown, OH-KY-IN	349	73.4	3.4	(66.7–80.1)
Columbia, SC	190	N/A	N/A	N/A
Concord, NH	237	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	281	67.3	3.8	(59.9–74.7)
Dayton, OH	225	N/A	N/A	N/A
Denver-Aurora, CO	695	74.6	1.9	(70.8–78.4)
Des Moines, IA	261	78.1	2.9	(72.4–83.8)
Detroit-Livonia-Dearborn, MI Metropolitan Division	277	73.2	3.6	(66.1–80.2)
Dover, DE	458	84.1	1.8	(80.5–87.7)
Durham, NC	230	N/A	N/A	N/A
Edison, NJ Metropolitan Division	827	73.6	2.9	(67.9–79.3)
Essex County, MA Metropolitan Division	284	N/A	N/A	N/A
Fargo, ND-MN	215	N/A	N/A	N/A
Florence, SC	361	76.1	2.8	(70.5–81.6)
Greensboro-High Point, NC	368	77.8	3.3	(71.3–84.3)
Hartford-West Hartford-East Hartford, CT	817	83.0	1.6	(79.9–86.2)
Hilo, HI	592	71.4	2.1	(67.3–75.4)
Honolulu, HI	1,017	70.8	1.7	(67.4–74.1)
Houston-Baytown-Sugar Land, TX	404	70.1	2.7	(64.8–75.4)
Huntington-Ashland, WV-KY-OH	266	70.6	4.1	(62.5–78.7)
Indianapolis, IN	478	77.5	2.1	(73.4–81.6)
Jackson, MS	305	75.0	2.9	(69.3–80.7)
Jacksonville, FL	248	N/A	N/A	N/A
Kahului-Wailuku, HI	427	65.4	2.8	(59.9–70.8)
Kansas City, MO-KS	700	76.4	2.1	(72.4–80.5)
Kapaa, HI	255	68.9	3.4	(62.2–75.6)
Lancaster, PA	484	78.9	2.0	(74.9–82.9)
Las Vegas-Paradise, NV	352	74.3	2.8	(68.9–79.7)
Lebanon, NH-VT	436	77.0	2.3	(72.5–81.5)
Lincoln, NE	252	78.3	3.3	(71.8–84.9)
Little Rock-North Little Rock, AR	344	76.9	2.5	(71.9–81.8)
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	302	72.7	3.3	(66.3–79.1)
Louisville, KY-IN	407	80.5	2.4	(75.7–85.2)
Manchester-Nashua, NH	505	81.3	2.0	(77.4–85.1)
Memphis, TN-MS-AR	307	74.4	3.2	(68.2–80.6)
Miami-Miami Beach-Kendall, FL Metropolitan Division	244	71.9	3.6	(64.9–79.0)
Milwaukee-Waukesha-West Allis, WI	543	82.6	2.0	(78.6–86.6)
Minneapolis-St. Paul-Bloomington, MN-WI	934	80.8	1.5	(77.9–83.6)
Nashville-Davidson-Murfreesboro, TN	267	75.4	3.0	(69.6–81.3)
Newark-Union, NJ-PA Metropolitan Division	590	78.9	2.9	(73.3–84.6)
New Haven-Milford, CT	387	81.5	2.3	(77.1–86.0)
New Orleans-Metairie-Kenner, LA	474	76.0	2.7	(70.8–81.2)

**TABLE 42. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram during the preceding 2 years — selected U.S. metropolitan statistical areas (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,241	79.9	1.7	(76.6–83.1)
Norwich-New London, CT	191	N/A	N/A	N/A
Ogden-Clearfield, UT	169	66.1	4.2	(57.9–74.3)
Oklahoma City, OK	775	73.0	1.9	(69.4–76.6)
Omaha-Council Bluffs, NE-IA	644	79.0	1.9	(75.3–82.7)
Orlando, FL	215	73.5	3.3	(66.9–80.0)
Philadelphia, PA Metropolitan Division	1,261	79.7	1.6	(76.7–82.7)
Phoenix-Mesa-Scottsdale, AZ	422	82.6	2.2	(78.3–86.8)
Pittsburgh, PA	1,381	76.1	1.6	(73.0–79.3)
Portland-South Portland, ME	328	85.2	2.1	(81.0–89.3)
Portland-Vancouver-Beaverton, OR-WA	599	76.7	2.0	(72.8–80.6)
Providence-New Bedford-Fall River, RI-MA	1,759	85.8	0.9	(84.0–87.6)
Rapid City, SD	234	74.6	3.3	(68.1–81.1)
Reno-Sparks, NV	333	71.2	2.9	(65.5–77.0)
Richmond, VA	232	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	555	81.9	1.8	(78.4–85.4)
St. Louis, MO-IL	339	79.2	2.4	(74.5–83.9)
Salt Lake City, UT	457	73.7	2.7	(68.4–79.0)
Seaford, DE	626	81.3	1.8	(77.9–84.8)
Seattle-Bellevue-Everett, WA Metropolitan Division	682	78.6	1.9	(74.9–82.2)
Sioux Falls, SD	418	75.1	2.4	(70.4–79.7)
Springfield, MA	375	83.2	2.5	(78.4–88.0)
Suffolk County-Nassau County, NY Metropolitan Division	210	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	178	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	372	79.8	2.4	(75.1–84.4)
Toledo, OH	213	N/A	N/A	N/A
Topeka, KS	191	N/A	N/A	N/A
Tucson, AZ	290	74.8	3.0	(68.8–80.8)
Tulsa, OK	664	75.4	1.9	(71.8–79.1)
Virginia Beach-Norfolk-Newport News, VA-NC	325	75.8	3.0	(69.9–81.7)
Warren-Farmington Hills-Troy, MI Metropolitan Division	352	82.3	2.2	(77.9–86.7)
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,307	76.6	2.7	(71.2–81.9)
Wichita, KS	353	76.8	2.4	(72.0–81.5)
Willimantic, CT	200	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	597	83.7	2.2	(79.5–88.0)
Winston-Salem, NC	209	N/A	N/A	N/A
Worcester, MA	378	82.6	2.4	(77.9–87.2)
Youngstown-Warren-Boardman, OH-PA	273	N/A	N/A	N/A

**Summary:** Number of participants = 80; median: 76.9; mean: 77.2; range: 65.4–85.8.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was  $< 50$  or the confidence interval half width was  $> 10$ .

**TABLE 43. Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram during the preceding 2 years — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	216	N/A*	N/A	N/A
Anchorage Municipality, Alaska	124	N/A	N/A	N/A
Maricopa County, Arizona	349	83.4	2.3	(79.0–87.8)
Pima County, Arizona	290	74.8	3.0	(68.8–80.8)
Pulaski County, Arkansas	199	N/A	N/A	N/A
Los Angeles County, California	302	72.7	3.3	(66.3–79.1)
Adams County, Colorado	121	N/A	N/A	N/A
Arapahoe County, Colorado	144	N/A	N/A	N/A
Denver County, Colorado	152	N/A	N/A	N/A
Jefferson County, Colorado	205	N/A	N/A	N/A
Fairfield County, Connecticut	387	82.4	2.3	(77.9–86.9)
Hartford County, Connecticut	437	83.0	2.1	(78.9–87.1)
Middlesex County, Connecticut	178	N/A	N/A	N/A
Tolland County, Connecticut	202	N/A	N/A	N/A
New Haven County, Connecticut	387	81.5	2.3	(77.1–86.0)
New London County, Connecticut	191	N/A	N/A	N/A
Windham County, Connecticut	200	N/A	N/A	N/A
Kent County, Delaware	458	84.1	1.8	(80.5–87.7)
Sussex County, Delaware	626	81.3	1.8	(77.9–84.8)
New Castle County, Delaware	538	85.4	1.9	(81.7–89.1)
District of Columbia	754	82.2	1.8	(78.7–85.6)
Duval County, Florida	161	N/A	N/A	N/A
Miami-Dade County, Florida	244	71.9	3.6	(64.9–79.0)
Orange County, Florida	111	N/A	N/A	N/A
Hillsborough County, Florida	117	N/A	N/A	N/A
Pinellas County, Florida	163	N/A	N/A	N/A
Cobb County, Georgia	83	N/A	N/A	N/A
DeKalb County, Georgia	87	N/A	N/A	N/A
Fulton County, Georgia	91	N/A	N/A	N/A
Hawaii County, Hawaii	592	71.4	2.1	(67.3–75.4)
Honolulu County, Hawaii	1,017	70.8	1.7	(67.4–74.1)
Maui County, Hawaii	427	65.4	2.8	(59.9–70.8)
Kauai County, Hawaii	255	68.9	3.4	(62.2–75.6)
Ada County, Idaho	212	N/A	N/A	N/A
Canyon County, Idaho	170	64.1	4.1	(56.0–72.1)
Cook County, Illinois	313	72.2	3.1	(66.0–78.4)
DuPage County, Illinois	47	N/A	N/A	N/A
Marion County, Indiana	232	N/A	N/A	N/A
Polk County, Iowa	188	N/A	N/A	N/A
Shawnee County, Kansas	143	N/A	N/A	N/A
Sedgwick County, Kansas	268	77.4	2.8	(72.0–82.9)
Jefferson County, Kentucky	185	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	148	N/A	N/A	N/A
Jefferson Parish, Louisiana	133	N/A	N/A	N/A
Orleans Parish, Louisiana	180	N/A	N/A	N/A
St. Tammany Parish, Louisiana	90	N/A	N/A	N/A
Cumberland County, Maine	182	N/A	N/A	N/A
York County, Maine	121	N/A	N/A	N/A
Anne Arundel County, Maryland	128	N/A	N/A	N/A
Baltimore County, Maryland	201	N/A	N/A	N/A
Baltimore city, Maryland	140	N/A	N/A	N/A
Frederick County, Maryland	102	N/A	N/A	N/A
Montgomery County, Maryland	228	N/A	N/A	N/A
Norfolk County, Massachusetts	204	N/A	N/A	N/A
Plymouth County, Massachusetts	176	N/A	N/A	N/A
Suffolk County, Massachusetts	292	76.5	3.2	(70.3–82.7)
Middlesex County, Massachusetts	494	83.0	2.0	(79.2–86.8)
Essex County, Massachusetts	284	N/A	N/A	N/A
Hampden County, Massachusetts	268	N/A	N/A	N/A
Worcester County, Massachusetts	378	82.6	2.4	(77.9–87.2)

**TABLE 43. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram during the preceding 2 years — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	277	73.2	3.6	(66.1–80.2)
Macomb County, Michigan	100	N/A	N/A	N/A
Oakland County, Michigan	188	N/A	N/A	N/A
Anoka County, Minnesota	95	N/A	N/A	N/A
Dakota County, Minnesota	122	N/A	N/A	N/A
Hennepin County, Minnesota	357	82.0	2.3	(77.6–86.4)
Ramsey County, Minnesota	156	N/A	N/A	N/A
Hinds County, Mississippi	142	N/A	N/A	N/A
Jackson County, Missouri	164	N/A	N/A	N/A
Johnson County, Kansas	254	N/A	N/A	N/A
St. Louis County, Missouri	131	N/A	N/A	N/A
Lancaster County, Nebraska	238	77.6	3.6	(70.6–84.6)
Douglas County, Nebraska	380	83.3	2.0	(79.3–87.2)
Sarpy County, Nebraska	92	N/A	N/A	N/A
Clark County, Nevada	352	74.3	2.8	(68.9–79.7)
Washoe County, Nevada	330	71.2	2.9	(65.4–76.9)
Merrimack County, New Hampshire	237	N/A	N/A	N/A
Grafton County, New Hampshire	148	N/A	N/A	N/A
Orange County, Vermont	120	N/A	N/A	N/A
Windsor County, Vermont	168	N/A	N/A	N/A
Hillsborough County, New Hampshire	505	81.3	2.0	(77.4–85.1)
Rockingham County, New Hampshire	391	81.6	2.2	(77.3–85.8)
Strafford County, New Hampshire	164	N/A	N/A	N/A
Monmouth County, New Jersey	107	N/A	N/A	N/A
Somerset County, New Jersey	209	N/A	N/A	N/A
Essex County, New Jersey	198	N/A	N/A	N/A
Morris County, New Jersey	199	N/A	N/A	N/A
Bernalillo County, New Mexico	353	76.7	2.5	(71.7–81.7)
Sandoval County, New Mexico	90	N/A	N/A	N/A
Bergen County, New Jersey	496	72.0	3.8	(64.5–79.5)
Kings County, New York	145	N/A	N/A	N/A
Queens County, New York	106	N/A	N/A	N/A
Suffolk County, New York	110	N/A	N/A	N/A
Buncombe County, North Carolina	177	N/A	N/A	N/A
Henderson County, North Carolina	165	N/A	N/A	N/A
Orange County, North Carolina	157	N/A	N/A	N/A
Guilford County, North Carolina	182	N/A	N/A	N/A
Randolph County, North Carolina	167	N/A	N/A	N/A
Forsyth County, North Carolina	189	N/A	N/A	N/A
Cass County, North Dakota	193	N/A	N/A	N/A
Summit County, Ohio	175	71.9	3.7	(64.6–79.1)
Montgomery County, Ohio	190	N/A	N/A	N/A
Lucas County, Ohio	185	67.7	3.9	(60.0–75.4)
Mahoning County, Ohio	213	N/A	N/A	N/A
Cleveland County, Oklahoma	128	N/A	N/A	N/A
Oklahoma County, Oklahoma	438	70.4	2.5	(65.5–75.3)
Tulsa County, Oklahoma	424	78.9	2.2	(74.6–83.2)
Clackamas County, Oregon	119	N/A	N/A	N/A
Clark County, Washington	03	N/A	N/A	N/A
Multnomah County, Oregon	218	76.1	3.2	(69.7–82.4)
Washington County, Oregon	115	N/A	N/A	N/A
Franklin County, Pennsylvania	523	81.9	2.0	(78.1–85.7)
Lancaster County, Pennsylvania	484	78.9	2.0	(74.9–82.9)
Bucks County, Pennsylvania	135	N/A	N/A	N/A
Chester County, Pennsylvania	508	80.7	2.1	(76.5–84.8)
Delaware County, Pennsylvania	158	N/A	N/A	N/A
Montgomery County, Pennsylvania	209	N/A	N/A	N/A
Philadelphia County, Pennsylvania	251	77.6	3.1	(71.5–83.7)
Allegheny County, Pennsylvania	436	75.8	2.3	(71.4–80.2)
Armstrong County, Pennsylvania	576	76.6	3.3	(70.2–83.0)

**TABLE 43. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had received a mammogram during the preceding 2 years — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Westmoreland County, Pennsylvania	132	N/A	N/A	N/A
Bristol County, Massachusetts	282	87.1	2.0	(83.3–91.0)
Kent County, Rhode Island	211	N/A	N/A	N/A
Providence County, Rhode Island	868	83.8	1.4	(81.1–86.5)
Washington County, Rhode Island	201	N/A	N/A	N/A
Richland County, South Carolina	94	N/A	N/A	N/A
Darlington County, South Carolina	137	N/A	N/A	N/A
Florence County, South Carolina	224	73.0	3.8	(65.6–80.4)
Pennington County, South Dakota	179	N/A	N/A	N/A
Minnehaha County, South Dakota	315	75.8	2.7	(70.5–81.1)
Shelby County, Tennessee	169	N/A	N/A	N/A
Davidson County, Tennessee	103	N/A	N/A	N/A
Dallas County, Texas	189	68.4	4.9	(58.7–78.0)
Harris County, Texas	259	70.0	3.5	(63.1–76.8)
Davis County, Utah	73	N/A	N/A	N/A
Weber County, Utah	93	N/A	N/A	N/A
Salt Lake County, Utah	287	73.9	3.0	(68.1–79.7)
Tooele County, Utah	82	N/A	N/A	N/A
Chittenden County, Vermont	345	78.2	2.5	(73.4–83.0)
Franklin County, Vermont	105	N/A	N/A	N/A
King County, Washington	488	79.5	2.1	(75.4–83.5)
Snohomish County, Washington	194	N/A	N/A	N/A
Pierce County, Washington	178	N/A	N/A	N/A
Kanawha County, West Virginia	174	N/A	N/A	N/A
Milwaukee County, Wisconsin	426	81.0	2.5	(76.0–86.0)
Laramie County, Wyoming	234	N/A	N/A	N/A

**Summary:** Number of participants = 52; median: 77.1; mean: 76.8; range: 64.1–87.1.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was  $< 50$  or the confidence interval half width was  $> 10$ .

**TABLE 44. Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — United States, Behavioral Risk Factor Surveillance System, 2002**

Area	Sample size	%	Standard error	95% Confidence interval
Alabama	1,376	91.6	0.8	(90.0–93.2)
Alaska	885	95.9	0.8	(94.3–97.5)
Arizona	1,362	91.3	1.2	(88.9–93.7)
Arkansas	1,674	89.3	0.8	(87.7–90.9)
California	1,474	89.2	1.2	(86.8–91.6)
Colorado	1,513	93.7	1.1	(91.5–95.9)
Connecticut	2,156	91.7	0.8	(90.1–93.3)
Delaware	1,626	92.0	0.9	(90.2–93.8)
District of Columbia	749	93.1	1.1	(90.9–95.3)
Florida	2,542	89.4	0.8	(87.8–91.0)
Georgia	1,966	90.3	0.8	(88.7–91.9)
Hawaii	2,309	93.4	0.7	(92.0–94.8)
Idaho	1,929	93.9	0.6	(92.7–95.1)
Illinois	990	88.8	1.3	(86.3–91.3)
Indiana	2,253	91.8	0.7	(90.4–93.2)
Iowa	1,559	94.1	0.6	(92.9–95.3)
Kansas	1,790	93.0	0.7	(91.6–94.4)
Kentucky	3,232	90.3	0.7	(88.9–91.7)
Louisiana	2,052	87.4	0.9	(85.6–89.2)
Maine	1,013	92.5	0.9	(90.7–94.3)
Maryland	1,712	92.8	0.8	(91.2–94.4)
Massachusetts	2,682	93.7	0.6	(92.5–94.9)
Michigan	2,346	92.3	0.7	(90.9–93.7)
Minnesota	1,765	96.5	0.5	(95.5–97.5)
Mississippi	1,815	88.6	0.8	(87.0–90.2)
Missouri	1,982	91.7	0.8	(90.1–93.3)
Montana	1,580	94.6	0.7	(93.2–96.0)
Nebraska	1,838	92.5	0.6	(91.3–93.7)
Nevada	1,066	89.6	1.6	(86.5–92.7)
New Hampshire	1,894	95.0	0.6	(93.8–96.2)
New Jersey	2,421	90.0	1.1	(87.8–92.2)
New Mexico	1,913	91.5	0.7	(90.1–92.9)
New York	1,659	89.3	1.0	(87.3–91.3)
North Carolina	2,714	93.3	0.7	(91.9–94.7)
North Dakota	1,188	94.6	0.7	(93.2–96.0)
Ohio	1,576	90.6	0.9	(88.8–92.4)
Oklahoma	2,886	92.3	0.6	(91.1–93.5)
Oregon	1,252	94.5	0.7	(93.1–95.9)
Pennsylvania	5,470	90.1	0.5	(89.1–91.1)
Rhode Island	1,477	91.5	0.8	(89.9–93.1)
South Carolina	1,809	92.3	0.8	(90.7–93.9)
South Dakota	1,958	92.3	0.7	(90.9–93.7)
Tennessee	1,225	87.3	1.0	(85.3–89.3)
Texas	2,210	90.2	0.8	(88.6–91.8)
Utah	1,281	94.9	0.8	(93.3–96.5)
Vermont	1,667	94.3	0.6	(93.1–95.5)
Virginia	1,656	91.8	0.9	(90.0–93.6)
Washington	1,887	96.1	0.5	(95.1–97.1)
West Virginia	1,435	88.9	0.9	(87.1–90.7)
Wisconsin	1,640	93.7	0.7	(92.3–95.1)
Wyoming	1,411	92.8	0.7	(91.4–94.2)
Guam	203	70.5	4.0	(62.7–78.3)
Puerto Rico	1,702	88.3	0.9	(86.5–90.1)
Virgin Islands	800	81.3	1.8	(77.8–84.8)

**Summary:** Number of participants = 54; median: 91.9; range: 70.5–96.5.



**TABLE 45. Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — selected U.S. metropolitan statistical area (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
Akron, OH	197	N/A*	N/A	N/A
Albuquerque, NM	539	N/A	N/A	N/A
Anchorage, AK	153	N/A	N/A	N/A
Asheville, NC	376	N/A	N/A	N/A
Atlanta-Sandy Springs-Marietta, GA	675	N/A	N/A	N/A
Baltimore-Towson, MD	661	N/A	N/A	N/A
Baton Rouge, LA	284	N/A	N/A	N/A
Bethesda-Frederick-Gaithersburg, MD Metropolitan Division	329	N/A	N/A	N/A
Birmingham-Hoover, AL	370	N/A	N/A	N/A
Boise City-Nampa, ID	432	N/A	N/A	N/A
Boston-Quincy, MA Metropolitan Division	673	N/A	N/A	N/A
Bridgeport-Stamford-Norwalk, CT	391	N/A	N/A	N/A
Burlington-South Burlington, VT	474	N/A	N/A	N/A
Cambridge-Newton-Framingham, MA Metropolitan Division	496	N/A	N/A	N/A
Chambersburg, PA	526	N/A	N/A	N/A
Charleston, WV	250	N/A	N/A	N/A
Cheyenne, WY	233	N/A	N/A	N/A
Chicago-Naperville-Joliet, IL Metropolitan Division	478	87.2	2.1	(83.2–91.3)
Cincinnati-Middletown, OH-KY-IN	348	N/A	N/A	N/A
Columbia, SC	188	N/A	N/A	N/A
Concord, NH	238	N/A	N/A	N/A
Dallas-Plano-Irving, TX Metropolitan Division	282	N/A	N/A	N/A
Dayton, OH	227	N/A	N/A	N/A
Denver-Aurora, CO	697	N/A	N/A	N/A
Des Moines, IA	262	N/A	N/A	N/A
Detroit-Livonia-Dearborn, MI Metropolitan Division	276	N/A	N/A	N/A
Dover, DE	459	N/A	N/A	N/A
Durham, NC	232	N/A	N/A	N/A
Edison, NJ Metropolitan Division	825	88.1	2.5	(83.3–92.9)
Essex County, MA Metropolitan Division	284	N/A	N/A	N/A
Fargo, ND-MN	217	N/A	N/A	N/A
Florence, SC	363	N/A	N/A	N/A
Greensboro-High Point, NC	369	N/A	N/A	N/A
Hartford-West Hartford-East Hartford, CT	820	91.1	1.2	(88.8–93.3)
Hilo, HI	600	N/A	N/A	N/A
Honolulu, HI	1,023	93.1	1.0	(91.3–95.0)
Houston-Baytown-Sugar Land, TX	403	N/A	N/A	N/A
Huntington-Ashland, WV-KY-OH	266	N/A	N/A	N/A
Indianapolis, IN	478	N/A	N/A	N/A
Jackson, MS	305	N/A	N/A	N/A
Jacksonville, FL	246	N/A	N/A	N/A
Kahului-Wailuku, HI	431	N/A	N/A	N/A
Kansas City, MO-KS	699	N/A	N/A	N/A
Kapaa, HI	255	N/A	N/A	N/A
Lancaster, PA	490	N/A	N/A	N/A
Las Vegas-Paradise, NV	352	N/A	N/A	N/A
Lebanon, NH-VT	436	N/A	N/A	N/A
Lincoln, NE	254	N/A	N/A	N/A
Little Rock-North Little Rock, AR	344	N/A	N/A	N/A
Los Angeles-Long Beach-Glendale, CA Metropolitan Division	302	N/A	N/A	N/A
Louisville, KY-IN	406	N/A	N/A	N/A
Manchester-Nashua, NH	507	N/A	N/A	N/A
Memphis, TN-MS-AR	304	N/A	N/A	N/A
Miami-Miami Beach-Kendall, FL Metropolitan Division	244	N/A	N/A	N/A
Milwaukee-Waukesha-West Allis, WI	540	N/A	N/A	N/A
Minneapolis-St. Paul-Bloomington, MN-WI	933	N/A	N/A	N/A
Nashville-Davidson-Murfreesboro, TN	264	N/A	N/A	N/A
Newark-Union, NJ-PA Metropolitan Division	589	N/A	N/A	N/A
New Haven-Milford, CT	385	N/A	N/A	N/A
New Orleans-Metairie-Kenner, LA	472	86.9	1.8	(83.4–90.4)

**TABLE 45. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — selected U.S. metropolitan statistical area (MSA), Behavioral Risk Factor Surveillance System, 2002**

MSA	Sample size	%	Standard error	95% Confidence interval
New York-Wayne-White Plains, NY-NJ Metropolitan Division	1,243	85.7	1.7	(82.5–88.9)
Norwich-New London, CT	192	N/A	N/A	N/A
Ogden-Clearfield, UT	170	N/A	N/A	N/A
Oklahoma City, OK	774	93.2	1.1	(91.2–95.3)
Omaha-Council Bluffs, NE-IA	650	N/A	N/A	N/A
Orlando, FL	214	N/A	N/A	N/A
Philadelphia, PA Metropolitan Division	1,264	91.1	1.1	(88.9–93.4)
Phoenix-Mesa-Scottsdale, AZ	423	N/A	N/A	N/A
Pittsburgh, PA	1,380	89.3	1.1	(87.1–91.6)
Portland-South Portland, ME	330	N/A	N/A	N/A
Portland-Vancouver-Beaverton, OR-WA	603	N/A	N/A	N/A
Providence-New Bedford-Fall River, RI-MA	1,758	90.3	1.0	(88.4–92.2)
Rapid City, SD	233	N/A	N/A	N/A
Reno-Sparks, NV	334	N/A	N/A	N/A
Richmond, VA	235	N/A	N/A	N/A
Rockingham County-Strafford County, NH Metropolitan Division	555	N/A	N/A	N/A
St. Louis, MO-IL	340	N/A	N/A	N/A
Salt Lake City, UT	459	N/A	N/A	N/A
Seaford, DE	626	92.5	1.2	(90.2–94.8)
Seattle-Bellevue-Everett, WA Metropolitan Division	678	N/A	N/A	N/A
Sioux Falls, SD	419	N/A	N/A	N/A
Springfield, MA	375	N/A	N/A	N/A
Suffolk County-Nassau County, NY Metropolitan Division	210	N/A	N/A	N/A
Tacoma, WA Metropolitan Division	179	N/A	N/A	N/A
Tampa-St. Petersburg-Clearwater, FL	370	N/A	N/A	N/A
Toledo, OH	212	N/A	N/A	N/A
Topeka, KS	191	N/A	N/A	N/A
Tucson, AZ	290	N/A	N/A	N/A
Tulsa, OK	668	N/A	N/A	N/A
Virginia Beach-Norfolk-Newport News, VA-NC	325	N/A	N/A	N/A
Warren-Farmington Hills-Troy, MI Metropolitan Division	352	N/A	N/A	N/A
Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division	1,303	93.6	1.4	(90.8–96.5)
Wichita, KS	351	N/A	N/A	N/A
Willimantic, CT	201	N/A	N/A	N/A
Wilmington, DE-MD-NJ Metropolitan Division	599	91.1	1.5	(88.1–94.2)
Winston-Salem, NC	211	N/A	N/A	N/A
Worcester, MA	376	N/A	N/A	N/A
Youngstown-Warren-Boardman, OH-PA	278	N/A	N/A	N/A

**Summary:** Number of participants = 13; median: 91.1; mean: 90.3; range: 85.7–93.6.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.

**TABLE 46. Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Jefferson County, Alabama	218	N/A*	N/A	N/A
Anchorage Municipality, Alaska	124	N/A	N/A	N/A
Maricopa County, Arizona	350	N/A	N/A	N/A
Pima County, Arizona	290	N/A	N/A	N/A
Pulaski County, Arkansas	197	N/A	N/A	N/A
Los Angeles County, California	302	N/A	N/A	N/A
Adams County, Colorado	122	N/A	N/A	N/A
Arapahoe County, Colorado	144	N/A	N/A	N/A
Denver County, Colorado	153	N/A	N/A	N/A
Jefferson County, Colorado	205	N/A	N/A	N/A
Fairfield County, Connecticut	391	N/A	N/A	N/A
Hartford County, Connecticut	439	N/A	N/A	N/A
Middlesex County, Connecticut	178	N/A	N/A	N/A
Tolland County, Connecticut	203	N/A	N/A	N/A
New Haven County, Connecticut	385	N/A	N/A	N/A
New London County, Connecticut	192	N/A	N/A	N/A
Windham County, Connecticut	201	N/A	N/A	N/A
Kent County, Delaware	459	N/A	N/A	N/A
Sussex County, Delaware	626	92.5	1.2	(90.2–94.8)
New Castle County, Delaware	541	N/A	N/A	N/A
District of Columbia	749	N/A	N/A	N/A
Duval County, Florida	160	N/A	N/A	N/A
Miami-Dade County, Florida	244	N/A	N/A	N/A
Orange County, Florida	111	N/A	N/A	N/A
Hillsborough County, Florida	118	N/A	N/A	N/A
Pinellas County, Florida	161	N/A	N/A	N/A
Cobb County, Georgia	82	N/A	N/A	N/A
DeKalb County, Georgia	87	N/A	N/A	N/A
Fulton County, Georgia	91	N/A	N/A	N/A
Hawaii County, Hawaii	600	N/A	N/A	N/A
Honolulu County, Hawaii	1,023	93.1	1.0	(91.3–95.0)
Maui County, Hawaii	431	N/A	N/A	N/A
Kauai County, Hawaii	255	N/A	N/A	N/A
Ada County, Idaho	212	N/A	N/A	N/A
Canyon County, Idaho	172	N/A	N/A	N/A
Cook County, Illinois	315	N/A	N/A	N/A
DuPage County, Illinois	47	N/A	N/A	N/A
Marion County, Indiana	233	N/A	N/A	N/A
Polk County, Iowa	189	N/A	N/A	N/A
Shawnee County, Kansas	143	N/A	N/A	N/A
Sedgwick County, Kansas	265	N/A	N/A	N/A
Jefferson County, Kentucky	186	N/A	N/A	N/A
East Baton Rouge Parish, Louisiana	148	N/A	N/A	N/A
Jefferson Parish, Louisiana	132	N/A	N/A	N/A
Orleans Parish, Louisiana	178	N/A	N/A	N/A
St. Tammany Parish, Louisiana	91	N/A	N/A	N/A
Cumberland County, Maine	182	N/A	N/A	N/A
York County, Maine	123	N/A	N/A	N/A
Anne Arundel County, Maryland	129	N/A	N/A	N/A
Baltimore County, Maryland	200	N/A	N/A	N/A
Baltimore city, Maryland	140	N/A	N/A	N/A
Frederick County, Maryland	102	N/A	N/A	N/A
Montgomery County, Maryland	227	N/A	N/A	N/A
Norfolk County, Massachusetts	206	N/A	N/A	N/A
Plymouth County, Massachusetts	176	N/A	N/A	N/A
Suffolk County, Massachusetts	291	N/A	N/A	N/A
Middlesex County, Massachusetts	496	N/A	N/A	N/A
Essex County, Massachusetts	284	N/A	N/A	N/A
Hampden County, Massachusetts	269	N/A	N/A	N/A
Worcester County, Massachusetts	376	N/A	N/A	N/A

**TABLE 46. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Wayne County, Michigan	276	N/A	N/A	N/A
Macomb County, Michigan	100	N/A	N/A	N/A
Oakland County, Michigan	188	N/A	N/A	N/A
Anoka County, Minnesota	95	N/A	N/A	N/A
Dakota County, Minnesota	121	N/A	N/A	N/A
Hennepin County, Minnesota	356	N/A	N/A	N/A
Ramsey County, Minnesota	157	N/A	N/A	N/A
Hinds County, Mississippi	143	N/A	N/A	N/A
Jackson County, Missouri	166	N/A	N/A	N/A
Johnson County, Kansas	253	N/A	N/A	N/A
St. Louis County, Missouri	131	N/A	N/A	N/A
Lancaster County, Nebraska	239	N/A	N/A	N/A
Douglas County, Nebraska	385	N/A	N/A	N/A
Sarpy County, Nebraska	93	N/A	N/A	N/A
Clark County, Nevada	352	N/A	N/A	N/A
Washoe County, Nevada	331	N/A	N/A	N/A
Merrimack County, New Hampshire	238	N/A	N/A	N/A
Grafton County, New Hampshire	120	N/A	N/A	N/A
Windsor County, Vermont	168	N/A	N/A	N/A
Hillsborough County, New Hampshire	507	N/A	N/A	N/A
Rockingham County, New Hampshire	392	N/A	N/A	N/A
Strafford County, New Hampshire	163	N/A	N/A	N/A
Monmouth County, New Jersey	108	N/A	N/A	N/A
Somerset County, New Jersey	209	N/A	N/A	N/A
Essex County, New Jersey	198	N/A	N/A	N/A
Morris County, New Jersey	199	N/A	N/A	N/A
Bernalillo County, New Mexico	354	N/A	N/A	N/A
Sandoval County, New Mexico	90	N/A	N/A	N/A
Bergen County, New Jersey	498	88.5	2.4	(83.7–93.2)
Kings County, New York	145	N/A	N/A	N/A
Queens County, New York	105	N/A	N/A	N/A
Suffolk County, New York	110	N/A	N/A	N/A
Buncombe County, North Carolina	178	N/A	N/A	N/A
Henderson County, North Carolina	164	N/A	N/A	N/A
Orange County, North Carolina	158	N/A	N/A	N/A
Guilford County, North Carolina	182	N/A	N/A	N/A
Randolph County, North Carolina	168	N/A	N/A	N/A
Forsyth County, North Carolina	191	N/A	N/A	N/A
Cass County, North Dakota	195	N/A	N/A	N/A
Summit County, Ohio	178	N/A	N/A	N/A
Montgomery County, Ohio	192	N/A	N/A	N/A
Lucas County, Ohio	184	N/A	N/A	N/A
Mahoning County, Ohio	215	N/A	N/A	N/A
Cleveland County, Oklahoma	128	N/A	N/A	N/A
Oklahoma County, Oklahoma	438	N/A	N/A	N/A
Tulsa County, Oklahoma	426	N/A	N/A	N/A
Clackamas County, Oregon	121	N/A	N/A	N/A
Clark County, Washington	102	N/A	N/A	N/A
Multnomah County, Oregon	218	N/A	N/A	N/A
Washington County, Oregon	116	N/A	N/A	N/A
Franklin County, Pennsylvania	526	N/A	N/A	N/A
Lancaster County, Pennsylvania	490	N/A	N/A	N/A
Bucks County, Pennsylvania	133	N/A	N/A	N/A
Chester County, Pennsylvania	512	N/A	N/A	N/A
Delaware County, Pennsylvania	158	N/A	N/A	N/A
Montgomery County, Pennsylvania	210	N/A	N/A	N/A
Philadelphia County, Pennsylvania	251	N/A	N/A	N/A
Allegheny County, Pennsylvania	436	88.9	1.7	(85.6–92.1)
Armstrong County, Pennsylvania	577	88.4	3.9	(80.8–95.9)
Westmoreland County, Pennsylvania	132	N/A	N/A	N/A

**TABLE 46. (Continued) Estimated prevalence of women aged  $\geq 40$  years who had ever received a clinical breast examination — selected U.S. counties, Behavioral Risk Factor Surveillance System, 2002**

County	Sample size	%	Standard error	95% Confidence interval
Bristol County, Massachusetts	281	N/A	N/A	N/A
Kent County, Rhode Island	210	N/A	N/A	N/A
Providence County, Rhode Island	868	89.9	1.2	(87.6–92.2)
Washington County, Rhode Island	202	N/A	N/A	N/A
Richland County, South Carolina	92	N/A	N/A	N/A
Darlington County, South Carolina	140	N/A	N/A	N/A
Florence County, South Carolina	223	N/A	N/A	N/A
Pennington County, South Dakota	178	N/A	N/A	N/A
Minnehaha County, South Dakota	316	N/A	N/A	N/A
Shelby County, Tennessee	167	N/A	N/A	N/A
Davidson County, Tennessee	103	N/A	N/A	N/A
Dallas County, Texas	190	N/A	N/A	N/A
Harris County, Texas	259	N/A	N/A	N/A
Davis County, Utah	74	N/A	N/A	N/A
Weber County, Utah	93	N/A	N/A	N/A
Salt Lake County, Utah	290	N/A	N/A	N/A
Tooele County, Utah	81	N/A	N/A	N/A
Chittenden County, Vermont	345	N/A	N/A	N/A
Franklin County, Vermont	103	N/A	N/A	N/A
King County, Washington	486	N/A	N/A	N/A
Snohomish County, Washington	192	N/A	N/A	N/A
Pierce County, Washington	179	N/A	N/A	N/A
Kanawha County, West Virginia	173	N/A	N/A	N/A
Milwaukee County, Wisconsin	426	N/A	N/A	N/A
Laramie County, Wyoming	233	N/A	N/A	N/A

**Summary:** Number of participants = 6; median: 89.4; mean: 90.2; range: 88.4–93.1.

\* Estimate not available (N/A) if the unweighted sample size for the denominator was <50 or the confidence interval half width was >10.



rec·om·men·da·tion: *n*

("rek-ə-mən-'dā-shən) 1 : something, such as a course of action, that is recommended; see also *MMWR*.



know what matters.



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