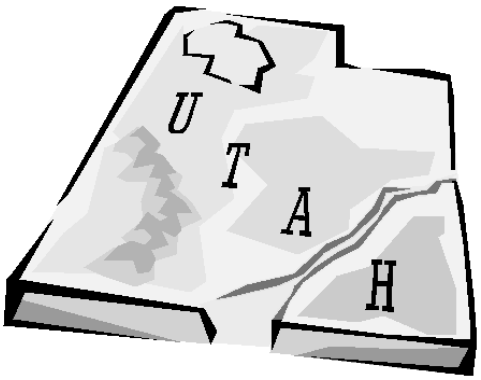
2003 Utah Health Status Survey Report

OVERVIEW OF THE 2003 HEALTH STATUS SURVEY - STATEWIDE FINDINGS



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Overview of the 2003 Health Status Survey - Statewide Findings

Utah Department of Health
Office of Public Health Assessment
Center for Health Data

September 2004

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The information in this report is based on data collected in the first year of the 2003-2004 Utah Health Status Survey. The survey represents the fifth in a series, with previous surveys conducted in 1986, 1991, 1996, and 2001. It provides information on a variety of topics related to health status and health care access at statewide and health district levels. The Utah Health Status Survey is important because it provides information for Utah's local health districts and children. Additional topics will be presented in separate reports due to be released in 2004 under the headings listed below.

2003 Health Insurance Coverage, Statewide Findings
Brief: 2003 Statewide Insurance Estimates
Brief: 2003 Problems With Access to Health Care
Brief: 2003 Chronic Medical Conditions
Brief: 2003 Health Care Utilization and Usual Source of Care

Additional information will be available at the end of 2004 when the 2003-2004 Utah Health Status Survey is complete. After completion, further reports are due to be released in 2005 under the headings listed below.

2003-2004 Overview Report, Local Health District Findings
2003-2004 Health Insurance Coverage, Local Health District Findings
Brief: 2004 Statewide Insurance Estimates
Brief: 2003-2004 Children's Health Status
Brief: 2003-2004 Racial and Ethnic Health Status
Brief: 2003-2004 Interpersonal Violence

The survey was funded by a legislative appropriation and was designed, analyzed, and reported by the Utah Department of Health, Center for Health Data. The survey sample was designed to be representative of Utahns, and is perhaps best described as a weighted probability sample consisting of 3,175 households disproportionately stratified by twelve local health districts which collectively cover the entire state.

The Utah Department of Health Survey Center in Salt Lake City conducted the telephone interviews using computer-assisted random digit dialing techniques. In each household, one adult (age 18 or older) was randomly selected to respond to survey questions about themselves, about the household as a unit, and with regard to each household member. The survey results were weighted to reflect the age, sex, geographic distribution, and Hispanic ethnicity of the population. Interviews were conducted over a ten-month period from March to December, 2003. A detailed description of the methodology can be found in the Technical Notes section of this report. The entire survey questionnaire may be found on-line at http://health.utah.gov/opha/publications/2003hss/2003_4HSS.pdf.

The information in this report can be used to facilitate policy and planning decisions. While it is intended primarily for public health program managers, administrators, and other health care professionals in the public and private health care sectors, the report may also be of interest to anyone wishing to inform themselves on the current health status of Utahns.

The Health Status Survey Overview Report provides information on 18 health measures from the 2003 Health Status Survey. The 18 health measures represent most of the content areas covered in the 2003 survey.

The report is intended to provide a brief overview of each measure. More detailed analysis of the data may be accomplished online using the custom query option at http://ibis.health.utah.gov/.

For the purposes of the overview report, the measures have been simplified such that only one level is reported. For instance, each respondent's general health status was originally reported on a five-point scale (excellent, very good, good, fair, or poor). The simplified measure reports only one level, those with fair or poor health.

For each measure, an attempt was made to report information in a meaningful manner. For instance, for the variable "percentage of persons who received a routine medical check-up" the reported category indicates the percentage of persons who had received a routine medical check-up in the previous 12 months. This time interval was used because the current clinical guidelines recommend that persons should have a rountine medical check-up at least once each year unless more frequent screening is medically indicated.

It is also common for a measure to be reported for only a sub-population of Utahns. For instance, general mental health status was reported for only adults. It was believed that the respondent would be unable to provide valid information about the feelings of other household members. The sub-population of inference is always indicated in the title of the figure or table.

Each measure is depicted on two pages. Reference tables for the measures typically report an overall percentage for the entire relevant Utah population, and for that population by sex, age group, age group by sex, local health district, annual household income, and health insurance status.

By presenting the information this way, it is not meant to imply that differences in a measure are caused by a person's sex, age, area of residence, or any other variable in the survey. Data collected in a single-point-in-time survey will never provide sufficient evidence of a cause and effect relationship between two variables. For instance, a relationship between obesity and overall ill health has been observed. The data do not suggest whether being obese causes ill health, being ill causes one to be obese, or whether some third variable, such as a chronic condition, causes a person to be obese and to experience overall ill health.

It should be noted that this report is an overview of the Health Status Survey results, and not a complete overview of the health status of Utahns. Other relevant information should be taken into account in order to gain perspective on Utahns' overall health status, such as leading causes of death, trends in hospitalization for various conditions, infectious disease rates, characteristics of mothers and newborns, injury deaths and hospitalizations, and many other factors. Much of this information can be found in other Center for Health Data publications and on Utah's Indicator-Based Information System for Public Health (IBIS-PH) at http://ibis.health.utah.gov. In addition, the Behavioral Risk Factors Surveillance System is a source for additional survey information on adult Utahns' health behaviors.

Major findings include the following:

- In general, women were more likely to report problems with their health status and access to care across a variety of measures:
  - Table 1. General Health Status: Percentage of Persons Who Were in Fair or Poor Health, Males 7.0%, Females 9.7%
  - Table 2. General Physical Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Physical Health, Males 18.4%, Females 25.3%
  - Table 3. General Mental Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Mental Health, Males 11.4%, Females 15.8%
  - Table 10. Arthritis: Percentage of Persons Who Have Ever Been Diagnosed with Arthritis, Males 9.0%, Females 14.9%
  - Despite the finding that males were less likely to report that they had health insurance coverage, females were more likely to report that they had been unable to get needed health care, Table 5. Access to Health Care: Percentage of Persons Who Were Unable to Get Needed Medical, Dental, or Mental Health Care in the Previous 12 Months, Males 15.7%, Females 20.2%
  - Table 6. Health Care Utilization: Average Number of Medical Visits in the Previous 12 Months, Males 3.1 Visits, Females 4.3 Visits

- There was a negative association between increasing age and health status:
  - As age increased, general physical functioning declined.
  - As age increased, people were more likely to report arthritis, diabetes, and chronic obstructive pulmonary disease (COPD).

- There was a positive association between household income and health:
  - People who had lower incomes being more likely to report fair or poor health.
  - People with low incomes were also more likely to report lacking health insurance and having problems accessing health care.
  - As income increased, the incidence of chronic illnesses like diabetes, asthma, and arthritis decreased.

Trend Summary, Improvements in Health Status and Access to Care

- The percentage of the population reporting fair or poor health decreased between 1996 (8.6%) and 2003 (8.3%). However, this finding was not significant.
- The percentage of those reporting that they accomplished less because of their physical health decreased slightly between 2001 (23.1%) and 2003 (21.9%).
- People were less likely to report accomplishing less because of their mental health in 2003 (13.6%) than 2001 (14.6%) or 1996 (14.9%).
- There was a slight drop in the percentage of persons without a usual place of medical care between 2001 (8.8%) and 2003 (7.9%).
- There was a decrease in the percentage of children 17 and under who were exposed to cigarette smoke in the home between 2001 (6.0%) and 2003 (4.3%).

Trend Summary, Decline in Health Status and Access to Care

- The percentage of Utahns with no health insurance increased from 2001 (8.7%) to 2003 (9.1%).
- The inability to afford insurance was the most common reason reported for lacking health insurance. The percentage of those reporting this reason increased significantly in 2003 (66.3%) compared to 2001 (52.1%).
- The percentage of those reporting the loss of a job as a reason for lacking health insurance increased dramatically and significantly from 2001 to 2003. 29.5% reported this reason in 2001 compared to 47.5% in 2003.
- There was a significant increase in the percentage of people whose usual point of access was a hospital emergency department or urgent care center from 2001 (4.1%) to 2003 (6.1%).
- The percentage of the population that had been diagnosed with diabetes since 1996 is increasing.
- The proportion of the adult population who were obese (18.4%) has increased significantly since at least 1996 (7.0%).

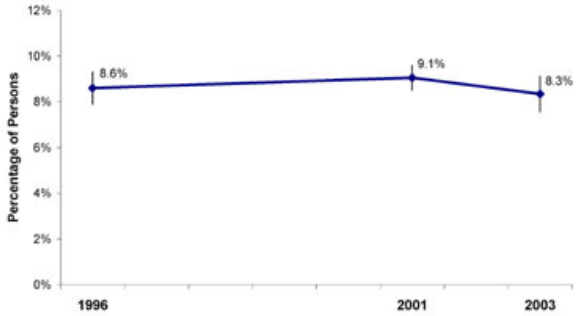
This graph displays data for Utah over time (when available).

This graph displays the measure by selected demographic subgroups (usually age and sex).

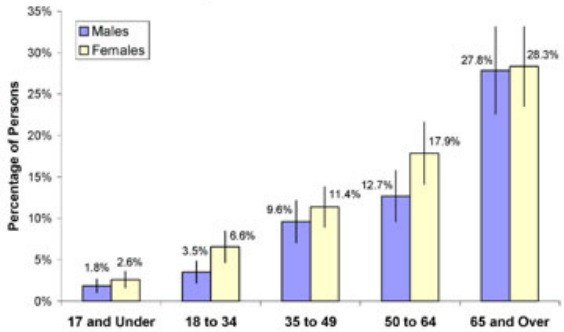
This bulleted text summarizes demographic differences for the measure using data from the table.

General Health Status

Percentage of Persons Who Were in Fair or Poor Health, Utah, 1996, 2001, and 2003



Percentage of Persons Who Were in Fair or Poor Health by Age and Sex, Utah, 2003



- The percentage of the population reporting fair or poor health decreased between 1996 and 2003. However, this finding was not significant.
- Across all age groups, females were more likely than males to report fair or poor health. This difference was greatest among those aged 50 to 64 years.

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The fourth column provides the survey estimate of the measure with the 95% margin of error by each of the subgroups. In this table, for example, among all males in Utah, 7.0% (±0.9%) reported they had fair or poor health and for all Utahns, 8.3% (±0.8%) reported fair or poor health.

This column is the estimated number of people who reported the measure. It is calculated by multiplying the survey estimate by the number of people in the population. In this example, the estimated number of males reporting the measure is 82,300 (7.0% x 1,181,516). This number is always rounded to the nearest 100 persons.

The second two columns represent the population distribution for the state of Utah by the subgroups in the first column. For example, in this table, males make up 50.2% of the total population and account for 1,181,516 of the total 2,354,775 estimated Utah population.

The first column provides the subgroups by which the measure was calculated.

This column provides a distribution of the population that reported the measure by category. It is not a distribution of the total population, only those reporting the calculated measure. This number is calculated by dividing the number of persons in the subgroup reporting fair or poor health by the total number of persons reporting fair or poor health. For example, in this table, among the total population reporting fair or poor health, 41.9% were male (82,300/196,500) and 58.1% were female (114,000/196,500).

General Health Status

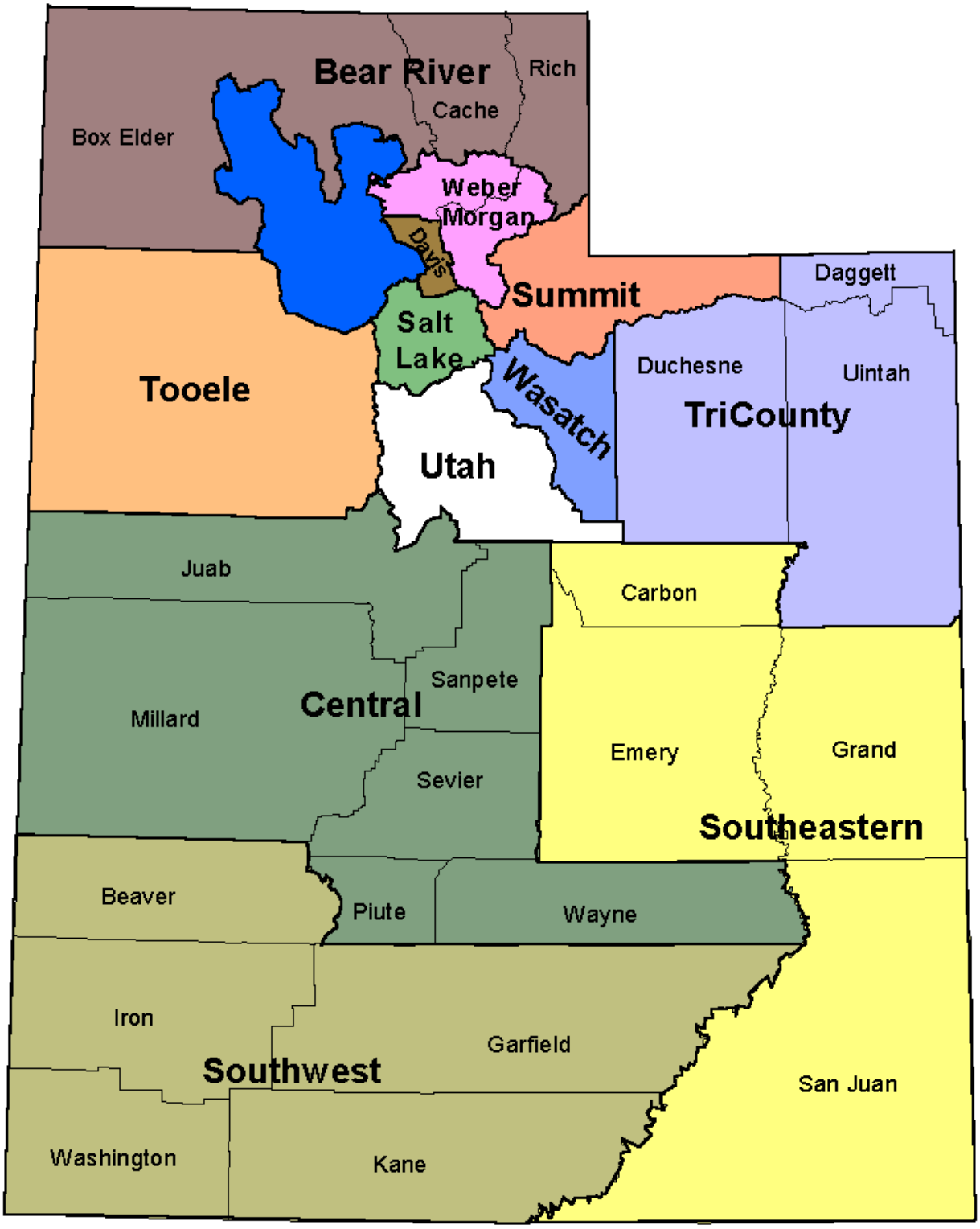
Table 1. General Health Status: Percentage of Persons Who Were in Fair or Poor Health by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Were in Fair/Poor Health		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Were in Fair/Poor Health[2]	Number of Persons[3,4]	Percentage Distribution of Persons in Fair/Poor Health by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	8.3% ± 0.8%	196,500	100.0%
Sex					
Male	50.2%	1,181,516	7.0% ± 0.9%	82,300	41.9%
Female	49.8%	1,173,259	9.7% ± 1.1%	114,000	58.1%
Total, All Utahns	100.0%	2,354,775	8.3% ± 0.8%	196,500	100.0%
Age Group					
17 and Under	31.5%	742,867	2.2% ± 0.7%	16,400	8.3%
18 to 34	29.1%	685,764	5.0% ± 1.2%	34,400	17.5%
35 to 49	18.8%	442,006	10.5% ± 1.9%	46,400	23.6%
50 to 64	12.1%	285,779	15.3% ± 2.6%	43,800	22.3%
65 and Over	8.4%	198,359	28.1% ± 3.7%	55,700	28.3%
Total, All Utahns	100.0%	2,354,775	8.3% ± 0.8%	196,500	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	1.8% ± 0.8%	7,000	3.6%
Males, 18 to 34	14.7%	347,144	3.5% ± 1.3%	12,200	6.2%
Males, 35 to 49	9.5%	223,919	9.6% ± 2.5%	21,500	10.9%
Males 50 to 64	6.0%	141,427	12.7% ± 3.1%	17,900	9.1%
Males, 65 and Over	3.7%	87,144	27.8% ± 5.3%	24,300	12.4%
Females, 17 and Under	15.3%	360,985	2.6% ± 1.0%	9,300	4.7%
Females, 18 to 34	14.4%	338,620	6.6% ± 1.9%	22,200	11.3%
Females, 35 to 49	9.3%	218,087	11.4% ± 2.4%	24,800	12.6%
Females 50 to 64	6.1%	144,352	17.9% ± 3.7%	25,800	13.1%
Females, 65 and Over	4.7%	111,215	28.3% ± 4.8%	31,500	16.0%
Total, All Utahns	100.0%	2,354,775	8.3% ± 0.8%	196,500	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	7.7% ± 2.6%	11,000	5.6%
Central	2.9%	69,140	9.8% ± 2.8%	6,800	3.5%
Davis	10.7%	252,521	9.4% ± 2.8%	23,800	12.1%
Salt Lake	39.6%	932,365	7.4% ± 1.3%	69,100	35.2%
Southeastern	2.3%	53,675	12.4% ± 3.7%	6,600	3.4%
Southwest	6.5%	154,152	12.0% ± 3.1%	18,400	9.4%
Summit	1.4%	32,831	4.3% ± 2.0%	1,400	0.7%
Tooele	2.0%	46,815	9.3% ± 2.5%	4,400	2.2%
TriCounty	1.8%	42,241	10.5% ± 2.8%	4,400	2.2%
Utah County	17.0%	400,670	7.5% ± 1.6%	30,100	15.3%
Wasatch	0.7%	17,179	7.9% ± 2.2%	1,400	0.7%
Weber-Morgan	8.9%	209,593	9.1% ± 3.0%	19,100	9.7%
Total, All Utahns	100.0%	2,354,775	8.3% ± 0.8%	196,500	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	20.0% ± 3.8%	46,400	24.0%
$20,000 to <$45,000	30.7%	722,400	10.7% ± 1.7%	77,000	39.9%
$45,000 to <$65,000	23.5%	552,500	6.0% ± 1.5%	33,000	17.1%
$65,000 and Over	36.0%	847,100	4.3% ± 1.0%	36,700	19.0%
Total, All Utahns	100.0%	2,354,800	8.3% ± 0.8%	196,500	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	8.3% ± 0.8%	176,800	89.0%
Uninsured	9.1%	214,500	10.2% ± 2.8%	21,900	11.0%
Total, All Utahns	100.0%	2,354,800	8.3% ± 0.8%	196,500	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.
2 Plus or minus 95% confidence interval.
3 Rounded to the nearest 100 persons.
4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.
5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

2003 Utah Health Status Survey, Utah Department of Health 5

Health Status Survey Findings



In the tables that follow, data are presented for each of Utah's 12 local health districts. There are six single-county and six multi-county health districts, as shown above.

Figure 1.1 Percentage of Persons Who Were in Fair or Poor Health, Utah, 1996, 2001, and 2003

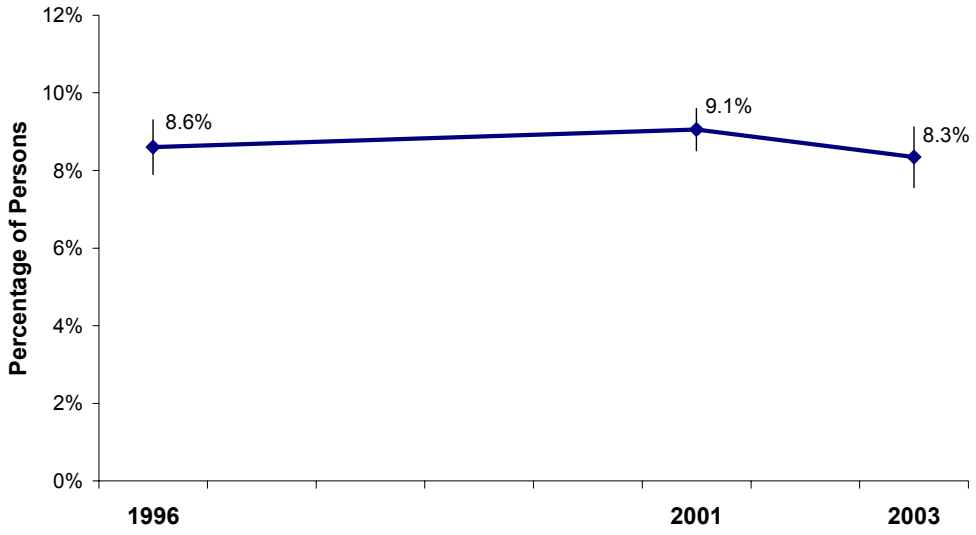
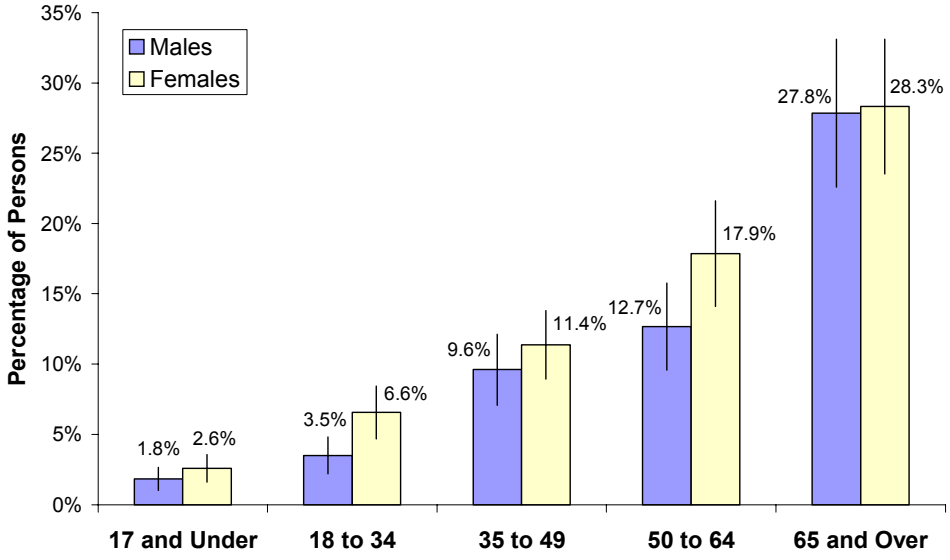


Figure 1.2 Percentage of Persons Who Were in Fair or Poor Health by Age and Sex, Utah, 2003



- The percentage of the population reporting fair or poor health decreased between 1996 and 2003. However, this finding was not significant.
- Across all age groups, females were more likely than males to report fair or poor health. This difference was greatest among those aged 50 to 64 years.

Table 1. General Health Status: Percentage of Persons Who Were in Fair or Poor Health by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Were in Fair/Poor Health		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Were in Fair/Poor Health[2]	Number of Persons[3,4]	Percentage Distribution of Persons in Fair/Poor Health by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Sex					
Male	50.2%	1,181,516	7.0% ± *0.9%*	82,300	41.9%
Female	49.8%	1,173,259	9.7% ± *1.1%*	114,000	58.1%
Total, All Utahns	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Age Group					
17 and Under	31.5%	742,867	2.2% ± *0.7%*	16,400	8.3%
18 to 34	29.1%	685,764	5.0% ± *1.2%*	34,400	17.5%
35 to 49	18.8%	442,006	10.5% ± *1.9%*	46,400	23.6%
50 to 64	12.1%	285,779	15.3% ± *2.6%*	43,800	22.3%
65 and Over	8.4%	198,359	28.1% ± *3.7%*	55,700	28.3%
Total, All Utahns	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	1.8% ± *0.8%*	7,000	3.6%
Males, 18 to 34	14.7%	347,144	3.5% ± *1.3%*	12,200	6.2%
Males, 35 to 49	9.5%	223,919	9.6% ± *2.5%*	21,500	10.9%
Males 50 to 64	6.0%	141,427	12.7% ± *3.1%*	17,900	9.1%
Males, 65 and Over	3.7%	87,144	27.8% ± *5.3%*	24,300	12.4%
Females, 17 and Under	15.3%	360,985	2.6% ± *1.0%*	9,300	4.7%
Females, 18 to 34	14.4%	338,620	6.6% ± *1.9%*	22,200	11.3%
Females, 35 to 49	9.3%	218,087	11.4% ± *2.4%*	24,800	12.6%
Females 50 to 64	6.1%	144,352	17.9% ± *3.7%*	25,800	13.1%
Females, 65 and Over	4.7%	111,215	28.3% ± *4.8%*	31,500	16.0%
Total, All Utahns	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	7.7% ± *2.6%*	11,000	5.6%
Central	2.9%	69,140	9.8% ± *2.8%*	6,800	3.5%
Davis	10.7%	252,521	9.4% ± *2.8%*	23,800	12.1%
Salt Lake	39.6%	932,365	7.4% ± *1.3%*	69,100	35.2%
Southeastern	2.3%	53,675	12.4% ± *3.7%*	6,600	3.4%
Southwest	6.5%	154,152	12.0% ± *3.1%*	18,400	9.4%
Summit	1.4%	32,831	4.3% ± *2.0%*	1,400	0.7%
Tooele	2.0%	46,815	9.3% ± *2.5%*	4,400	2.2%
TriCounty	1.8%	42,241	10.5% ± *2.8%*	4,400	2.2%
Utah County	17.0%	400,670	7.5% ± *1.6%*	30,100	15.3%
Wasatch	0.7%	17,179	7.9% ± *2.2%*	1,400	0.7%
Weber-Morgan	8.9%	209,593	9.1% ± *3.0%*	19,100	9.7%
Total, All Utahns	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	20.0% ± *3.8%*	46,400	24.0%
$20,000 to <$45,000	30.7%	722,400	10.7% ± *1.7%*	77,000	39.9%
$45,000 to <$65,000	23.5%	552,500	6.0% ± *1.5%*	33,000	17.1%
$65,000 and Over	36.0%	847,100	4.3% ± *1.0%*	36,700	19.0%
Total, All Utahns	100.0%	2,354,800	8.3% ± *0.8%*	196,500	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	8.3% ± *0.8%*	176,800	89.0%
Uninsured	9.1%	214,500	10.2% ± *2.8%*	21,900	11.0%
Total, All Utahns	100.0%	2,354,800	8.3% ± *0.8%*	196,500	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 2.1 Percentage of Adults Who Accomplished Less as a Result of Their Physical Health, Utah Adults Age 18+, 1996, 2001, and 2003

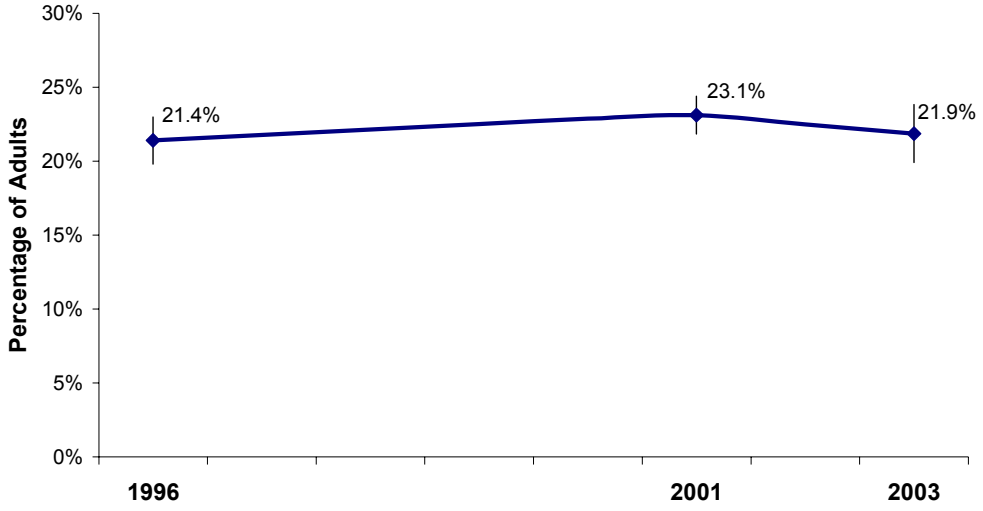
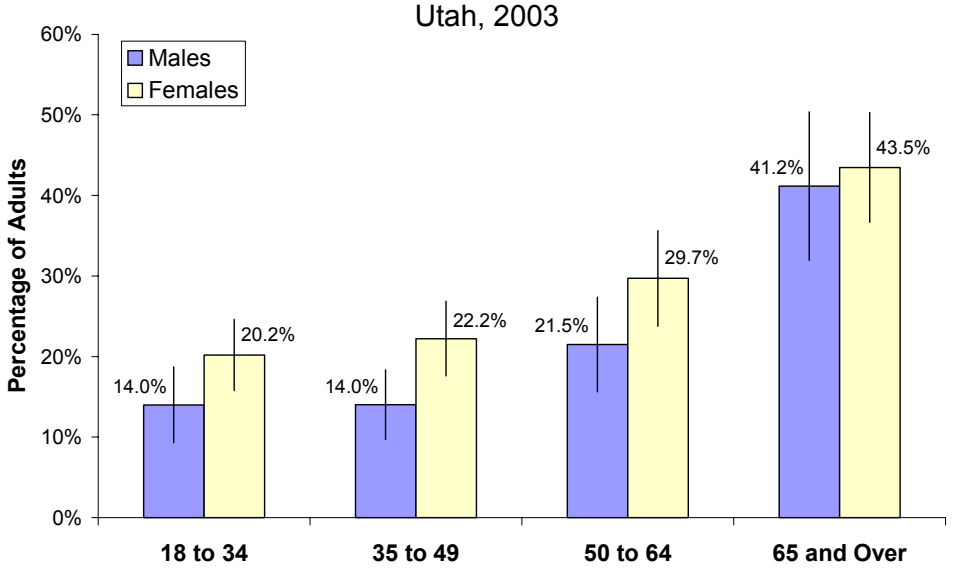


Figure 2.2 Percentage of Adults Who Accomplished Less as a Result of Their Physical Health by Age and Sex, Utah, 2003



- The percentage of those reporting that they accomplished less because of their physical health decreased slightly between 2001 and 2003.
- Women aged 65 and over were most likely to report limitations due to physical health.

Table 2. General Physical Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Physical Health
by Selected Demographic Characteristics, Utah Residents, Age 18 and Over, 2003.

	Utah Population Distribution		Survey Estimates of Utah Adults Who Accomplished Less		
Demographic Subgroup	Percentage Distribution	Number of Adults[1]	Percentage of Adults Who Accomplished Less[2]	Number of Adults[3,4]	Percentage Distribution of Adults Who Accomplished Less by Subgroup[4]
2003 Utah Population, Adults 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Sex					
Male	49.6%	799,634	18.4% ± *2.8%*	147,200	41.7%
Female	50.4%	812,274	25.3% ± *2.7%*	205,400	58.3%
Total, All Utahns Age 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Age Group					
18 to 34	42.5%	685,764	17.1% ± *3.3%*	117,000	33.0%
35 to 49	27.4%	442,006	18.2% ± *3.2%*	80,400	22.7%
50 to 64	17.7%	285,779	25.7% ± *4.2%*	73,400	20.7%
65 and Over	12.3%	198,359	42.4% ± *5.7%*	84,000	23.7%
Total, All Utahns Age 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Sex and Age					
Males, 18 to 34	21.5%	347,144	14.0% ± *4.7%*	48,600	13.7%
Males, 35 to 49	13.9%	223,919	14.0% ± *4.4%*	31,400	8.9%
Males 50 to 64	8.8%	141,427	21.5% ± *5.9%*	30,400	8.6%
Males, 65 and Over	5.4%	87,144	41.2% ± *9.2%*	35,900	10.1%
Females, 18 to 34	21.0%	338,620	20.2% ± *4.4%*	68,400	19.3%
Females, 35 to 49	13.5%	218,087	22.2% ± *4.6%*	48,500	13.7%
Females 50 to 64	9.0%	144,352	29.7% ± *5.9%*	42,900	12.1%
Females, 65 and Over	6.9%	111,215	43.5% ± *6.8%*	48,400	13.7%
Total, All Utahns Age 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Local Health District[5]					
Bear River	6.0%	97,262	17.6% ± *6.2%*	17,200	4.9%
Central	2.9%	46,658	24.1% ± *6.6%*	11,200	3.2%
Davis	10.4%	168,349	24.4% ± *6.6%*	41,100	11.6%
Salt Lake	40.4%	651,924	21.3% ± *3.4%*	138,800	39.3%
Southeastern	2.3%	37,219	34.4% ± *7.9%*	12,800	3.6%
Southwest	6.6%	106,942	25.6% ± *6.8%*	27,400	7.8%
Summit	1.5%	23,816	11.9% ± *4.8%*	2,800	0.8%
Tooele	1.9%	31,113	21.8% ± *5.3%*	6,800	1.9%
TriCounty	1.8%	28,375	24.0% ± *6.5%*	6,800	1.9%
Utah County	16.3%	262,684	20.6% ± *4.8%*	54,200	15.4%
Wasatch	0.7%	11,710	19.3% ± *5.5%*	2,300	0.7%
Weber-Morgan	9.0%	145,856	21.6% ± *6.6%*	31,500	8.9%
Total, All Utahns Age 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Annual Household Income					
Under $20,000	10.6%	170,600	35.6% ± *6.7%*	60,700	17.4%
$20,000 to <$45,000	31.2%	502,500	28.5% ± *4.1%*	143,300	41.0%
$45,000 to <$65,000	22.8%	368,200	18.1% ± *4.1%*	66,800	19.1%
$65,000 and Over	35.4%	570,600	13.8% ± *3.2%*	79,000	22.6%
Total, All Utahns Age 18+	100.0%	1,611,900	21.9% ± *2.0%*	352,600	100.0%
Health Insurance Coverage					
Insured	90.0%	1,451,200	22.4% ± *2.1%*	325,600	91.3%
Uninsured	10.0%	160,700	19.4% ± *5.9%*	31,200	8.7%
Total, All Utahns Age 18+	100.0%	1,611,900	21.9% ± *2.0%*	352,600	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 3.1 Percentage of Adults Who Accomplished Less as a Result of Their Mental Health, Utah Adults Age 18+, 1996, 2001, and 2003

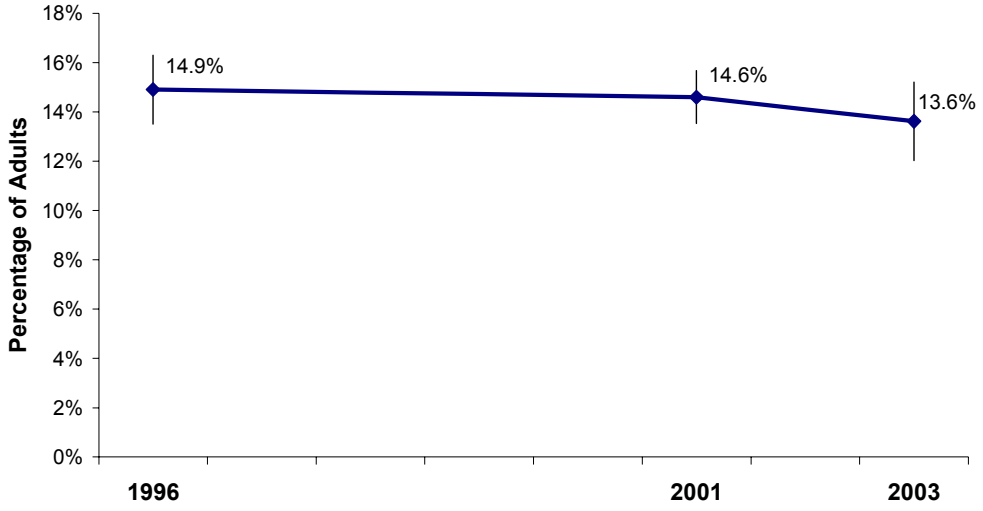
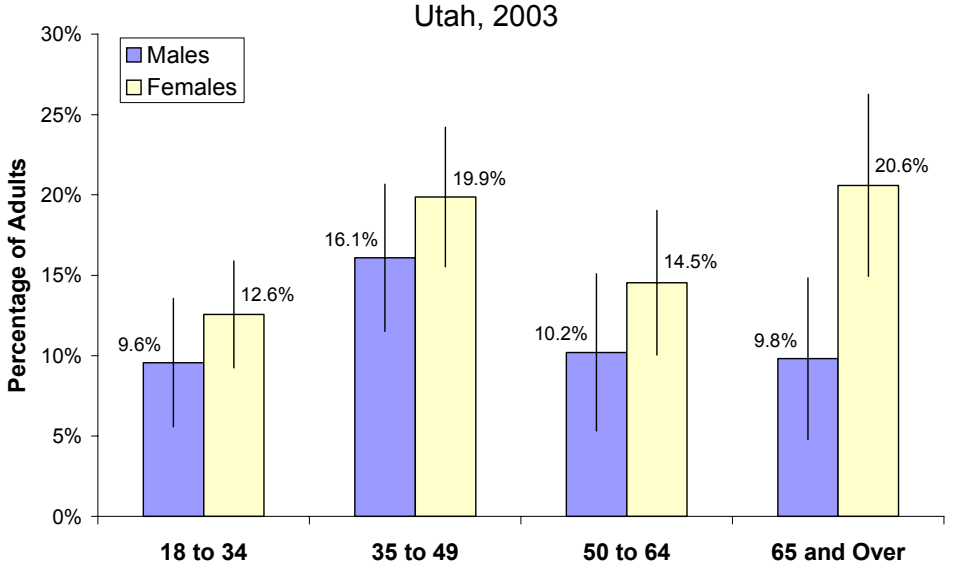


Figure 3.2 Percentage of Adults Who Accomplished Less as a Result of Their Mental Health by Age and Sex, Utah, 2003



- People were less likely to report accomplishing less because of their mental health in 2003 than 2001 or 1996.
- Women were more likely to report limitations due to mental health. These differences were most pronounced for women aged 35 to 49 and 65 and over. In fact, women aged 65 and over were more than twice as likely than men to report limitations due to mental health.

Table 3. General Mental Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Mental Health
by Selected Demographic Characteristics, Utah Residents, Age 18 and Over, 2003.

	Utah Population Distribution		Survey Estimates of Utah Adults Who Accomplished Less		
Demographic Subgroup	Percentage Distribution	Number of Adults[1]	Percentage of Adults Who Accomplished Less[2]	Number of Adults[3,4]	Percentage Distribution of Adults Who Accomplished Less by Subgroup[4]
2003 Utah Population, Adults 18+	100.0%	1,611,908	13.6% ± *1.6%*	219,500	100.0%
Sex					
Male	49.6%	799,634	11.4% ± *2.4%*	91,100	41.5%
Female	50.4%	812,274	15.8% ± *2.1%*	128,400	58.5%
Total, All Utahns Age 18+	100.0%	1,611,908	13.6% ± *1.6%*	219,500	100.0%
Age Group					
18 to 34	42.5%	685,764	11.0% ± *2.6%*	75,700	34.2%
35 to 49	27.4%	442,006	18.0% ± *3.2%*	79,700	36.0%
50 to 64	17.7%	285,779	12.4% ± *3.3%*	35,500	16.0%
65 and Over	12.3%	198,359	15.4% ± *3.9%*	30,500	13.8%
Total, All Utahns Age 18+	100.0%	1,611,908	13.6% ± *1.6%*	219,500	100.0%
Sex and Age					
Males, 18 to 34	21.5%	347,144	9.6% ± *4.0%*	33,200	15.0%
Males, 35 to 49	13.9%	223,919	16.1% ± *4.6%*	36,000	16.2%
Males 50 to 64	8.8%	141,427	10.2% ± *4.9%*	14,400	6.5%
Males, 65 and Over	5.4%	87,144	9.8% ± *5.0%*	8,600	3.9%
Females, 18 to 34	21.0%	338,620	12.6% ± *3.3%*	42,500	19.2%
Females, 35 to 49	13.5%	218,087	19.9% ± *4.3%*	43,300	19.5%
Females 50 to 64	9.0%	144,352	14.5% ± *4.5%*	21,000	9.5%
Females, 65 and Over	6.9%	111,215	20.6% ± *5.7%*	22,900	10.3%
Total, All Utahns Age 18+	100.0%	1,611,908	13.6% ± *1.6%*	219,500	100.0%
Local Health District[5]					
Bear River	6.0%	97,262	15.4% ± *5.8%*	15,000	6.8%
Central	2.9%	46,658	12.1% ± *5.0%*	5,600	2.6%
Davis	10.4%	168,349	15.5% ± *5.4%*	26,100	11.9%
Salt Lake	40.4%	651,924	14.5% ± *2.9%*	94,300	43.0%
Southeastern	2.3%	37,219	13.5% ± *4.5%*	5,000	2.3%
Southwest	6.6%	106,942	14.6% ± *5.5%*	15,600	7.1%
Summit	1.5%	23,816	8.5% ± *4.6%*	2,000	0.9%
Tooele	1.9%	31,113	12.7% ± *4.3%*	4,000	1.8%
TriCounty	1.8%	28,375	11.3% ± *4.6%*	3,200	1.5%
Utah County	16.3%	262,684	11.2% ± *3.6%*	29,500	13.4%
Wasatch	0.7%	11,710	14.3% ± *5.8%*	1,700	0.8%
Weber-Morgan	9.0%	145,856	12.0% ± *5.1%*	17,500	8.0%
Total, All Utahns Age 18+	100.0%	1,611,908	13.6% ± *1.6%*	219,500	100.0%
Annual Household Income					
Under $20,000	10.6%	170,600	32.6% ± *6.4%*	55,600	24.3%
$20,000 to <$45,000	31.2%	502,500	15.6% ± *3.2%*	78,200	34.2%
$45,000 to <$65,000	22.8%	368,200	10.4% ± *3.1%*	38,400	16.8%
$65,000 and Over	35.4%	570,600	9.9% ± *2.9%*	56,400	24.7%
Total, All Utahns Age 18+	100.0%	1,611,900	13.6% ± *1.6%*	219,500	100.0%
Health Insurance Coverage					
Insured	90.0%	1,451,200	12.8% ± *1.7%*	185,100	83.4%
Uninsured	10.0%	160,700	22.9% ± *6.3%*	36,800	16.6%
Total, All Utahns Age 18+	100.0%	1,611,900	13.6% ± *1.6%*	219,500	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 4a.1 Percentage of Persons With No Health Insurance Coverage, Utah, 2001 and 2003

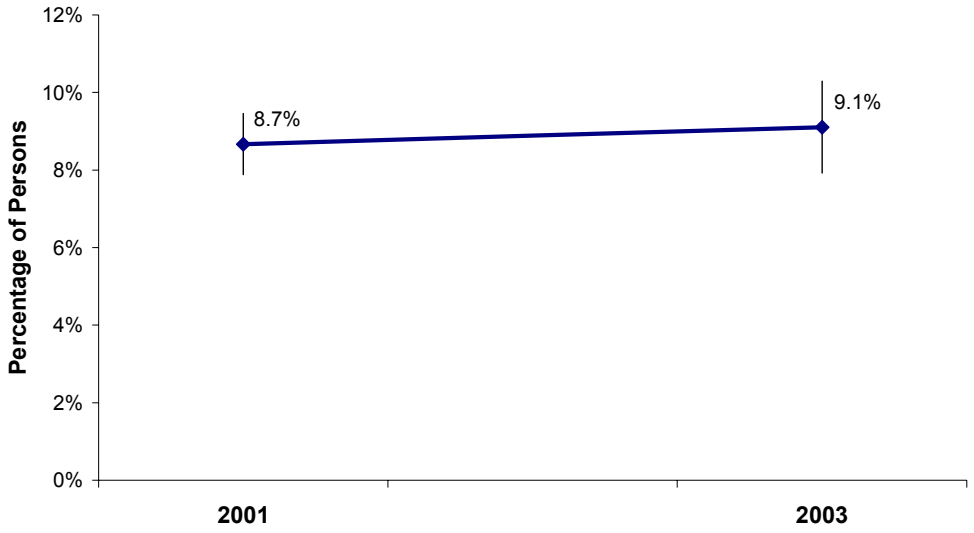
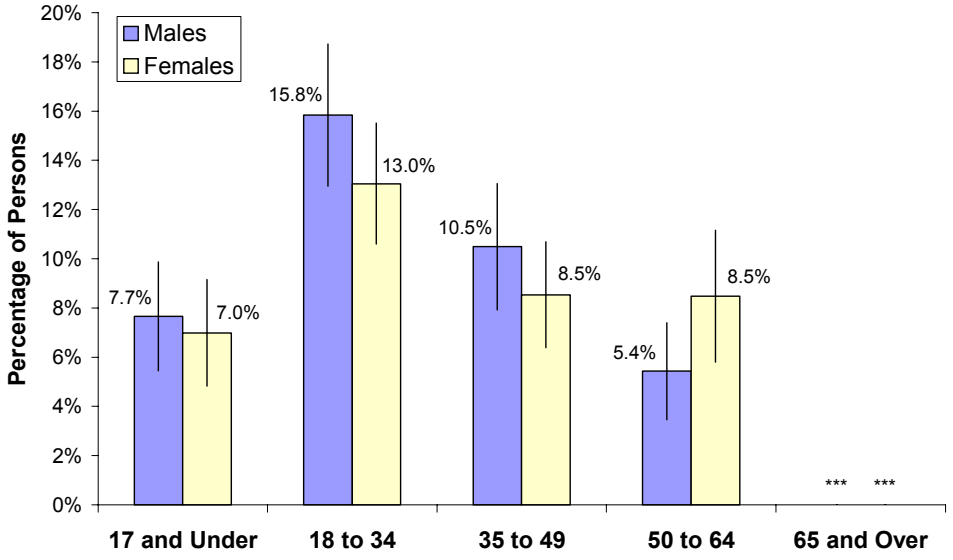


Figure 4a.2 Percentage of Persons With No Health Insurance Coverage by Age and Sex, Utah, 2003



*** Insufficient sample size for calculation of population estimates.

- The percentage of Utahns with no health insurance increased from 2001 to 2003.
- Those aged 18 to 34 were most likely to report no health insurance, regardless of sex.
- With the exception of those aged 50 to 64, males were slightly more likely than females to lack health insurance.

Table 4a. Health Insurance: Percentage of Persons With No Health Insurance Coverage
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns With No Health Insurance Coverage		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons With No Health Insurance[2]	Number of Persons[3,4]	Percentage Distribution of Persons With No Health Insurance by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Sex					
Male	50.2%	1,181,516	9.6% ± *1.4%*	113,700	53.0%
Female	49.8%	1,173,259	8.6% ± *1.3%*	100,800	47.0%
Total, All Utahns	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Age Group					
17 and Under	31.5%	742,867	7.3% ± *2.0%*	54,500	25.3%
18 to 34	29.1%	685,764	14.5% ± *2.1%*	99,200	46.0%
35 to 49	18.8%	442,006	9.5% ± *1.9%*	42,000	19.5%
50 to 64	12.1%	285,779	7.0% ± *1.9%*	20,000	9.3%
65 and Over	8.4%	198,359	*** ± ***	***	***
Total, All Utahns	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	7.7% ± *2.2%*	29,300	13.6%
Males, 18 to 34	14.7%	347,144	15.8% ± *2.9%*	55,000	25.5%
Males, 35 to 49	9.5%	223,919	10.5% ± *2.6%*	23,500	10.9%
Males 50 to 64	6.0%	141,427	5.4% ± *2.0%*	7,700	3.6%
Males, 65 and Over	3.7%	87,144	*** ± ***	***	***
Females, 17 and Under	15.3%	360,985	7.0% ± *2.2%*	25,200	11.7%
Females, 18 to 34	14.4%	338,620	13.0% ± *2.5%*	44,200	20.5%
Females, 35 to 49	9.3%	218,087	8.5% ± *2.2%*	18,600	8.6%
Females 50 to 64	6.1%	144,352	8.5% ± *2.7%*	12,200	5.7%
Females, 65 and Over	4.7%	111,215	*** ± ***	***	***
Total, All Utahns	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	7.8% ± *3.6%*	11,100	5.2%
Central	2.9%	69,140	10.7% ± *4.0%*	7,400	3.4%
Davis	10.7%	252,521	4.7% ± *3.5%*	12,000	5.6%
Salt Lake	39.6%	932,365	8.2% ± *2.0%*	76,000	35.4%
Southeastern	2.3%	53,675	15.4% ± *4.6%*	8,300	3.9%
Southwest	6.5%	154,152	17.0% ± *5.5%*	26,200	12.2%
Summit	1.4%	32,831	5.6% ± *3.3%*	1,900	0.9%
Tooele	2.0%	46,815	5.5% ± *2.6%*	2,600	1.2%
TriCounty	1.8%	42,241	12.8% ± *4.5%*	5,400	2.5%
Utah County	17.0%	400,670	10.8% ± *3.4%*	43,400	20.2%
Wasatch	0.7%	17,179	17.9% ± *5.7%*	3,100	1.4%
Weber-Morgan	8.9%	209,593	8.3% ± *3.4%*	17,400	8.1%
Total, All Utahns	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	22.1% ± *4.8%*	51,500	23.9%
$20,000 to <$45,000	30.7%	722,400	13.7% ± *2.8%*	99,300	46.1%
$45,000 to <$65,000	23.5%	552,500	7.4% ± *2.4%*	40,900	19.0%
$65,000 and Over	36.0%	847,100	2.8% ± *1.1%*	23,600	11.0%
Total, All Utahns	100.0%	2,354,800	9.1% ± *1.2%*	214,500	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

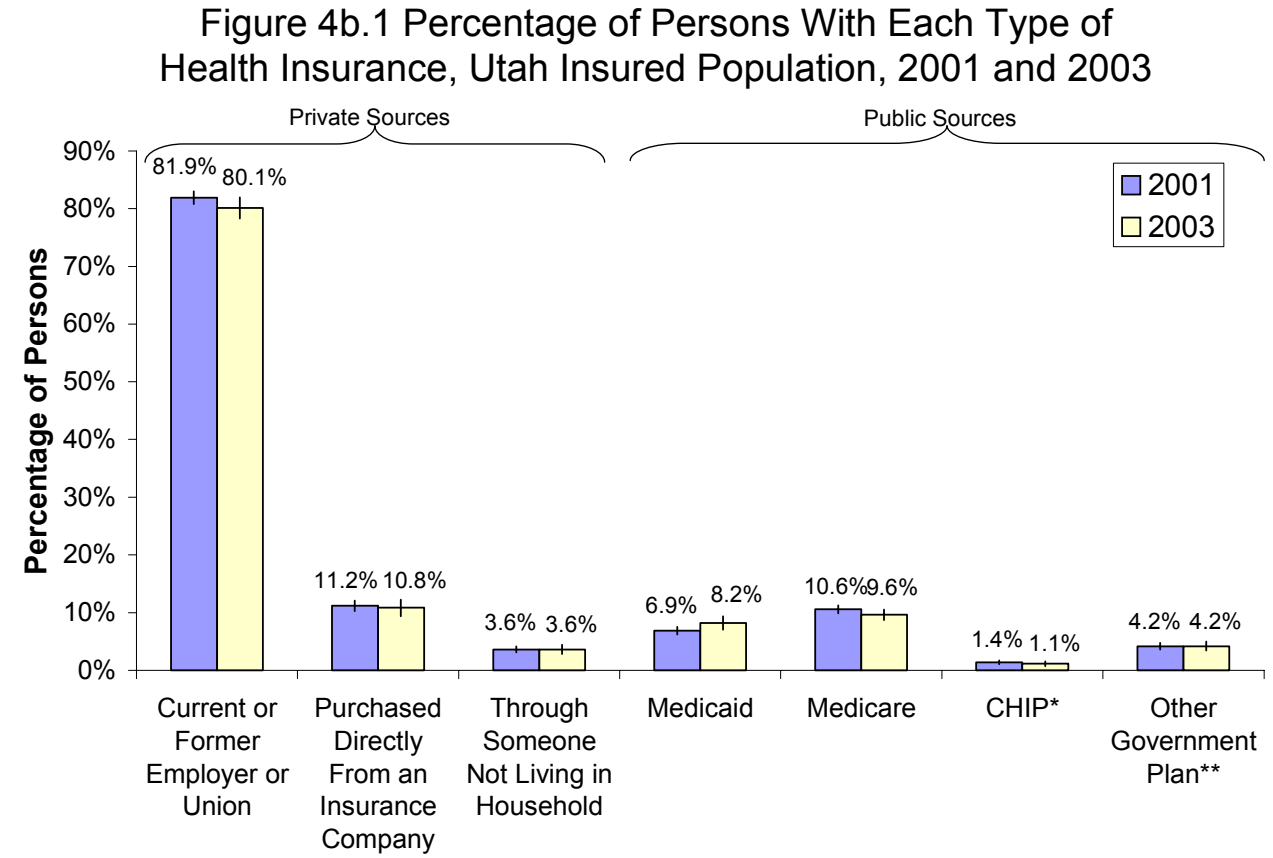
2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

*** Insufficient sample size for calculation of population estimates.



* Children's Health Insurance Program.
** "Other government plan" includes Military, Tri-Care, or the V.A.
Note: Bars are not mutually exclusive, both by definition, and because a person may be covered by more than one type of plan.

- For Utahns with some kind of health insurance, insurance through a private plan or through a current or former employer or union was the most commonly reported type of insurance.
- As a check of accuracy of the 2003 Utah Health Status Survey data, survey estimates were compared with Medicaid and CHIP enrollment numbers from the mid-point of survey data collection. The numbers of persons estimated by the survey to have been enrolled in Medicaid and CHIP were very close to the actual enrollment numbers (157,322 and 23,509, respectively). Enrollment numbers were well within the survey confidence intervals for those estimates.

Table 4b. Health Insurance Carrier: Percentage of Persons With Each Type of Health Insurance

Utahns With Health Insurance, 2003.

Health Insurance Carrier	Survey Estimates of Insured Utahns by Insurance Carrier: Percentage of Persons With Each Type of Plan[1,2]	Survey Estimates of Insured Utahns by Insurance Carrier: Number of Persons With Each Type of Plan[3]
Current or Former Employer or Union	80.1% ± *1.8%*	1,714,700
Purchased Directly From an Insurance Company	10.8% ± *1.4%*	231,900
Through Someone Not Living in Household	3.6% ± *0.8%*	77,900
Medicaid	8.2% ± *1.2%*	175,400
Medicare	9.6% ± *0.9%*	205,700
CHIP[4]	1.1% ± *0.4%*	24,500
Other Government Plan[5]	4.2% ± *0.8%*	89,700
Total, All Utahns With Health Insurance	100.0%	

1 Plus or minus 95% confidence interval.

2 Because individuals could have more than one plan, figures in this column do not sum to 100%.

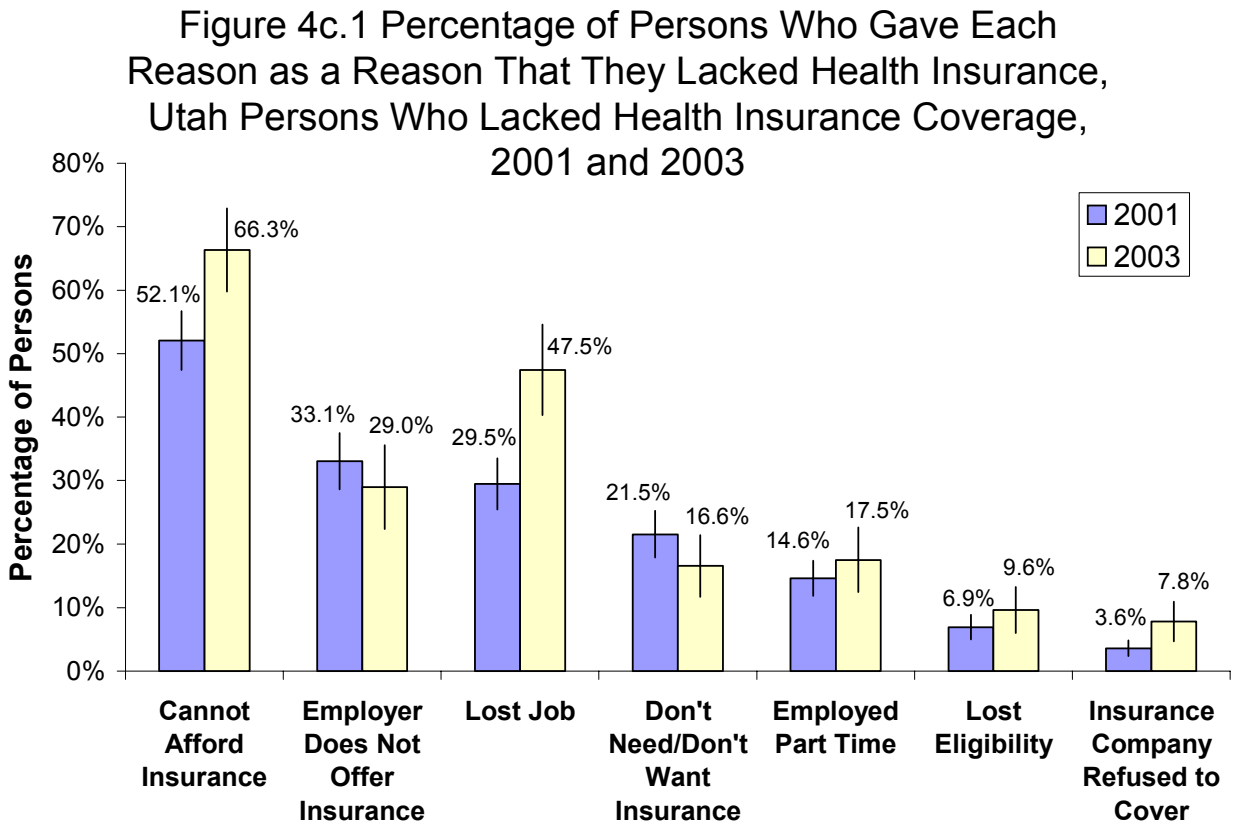
3 Rounded to the nearest 100 persons.

4 Children's Health Insurance Program.

5 "Other government plan" includes Military, Tri-Care, or the V.A.

Note: Estimates are not mutually exclusive, both by definition, and because a person may be covered by more than one type of plan.

2003 Utah Health Status Survey, Utah Department of Health



- The inability to afford insurance was the most common reason reported for lacking health insurance. The percentage of those reporting this reason increased significantly compared to 2001.
- The percentage of those reporting the loss of a job as a reason for lacking health insurance increased dramatically and significantly from 2001 to 2003. In 2001, 29.5% of persons who lacked health insurance reported this reason compared to 47.5% in 2003.

Table 4c. Reasons for Lack of Health Insurance: Percentage of Persons Who Gave Each Reason as a Reason That They Lacked Health Insurance

Persons Who Lacked Health Insurance Coverage, Utah 2003.

Reasons for Lack of Insurance	Survey Estimates of Utahns by Reason for Lack of Health Insurance: Percentage of Persons Who Gave Each Reason[1,2]	Survey Estimates of Utahns by Reason for Lack of Health Insurance: Number of Persons Who Gave Each Reason[3]
Cannot Afford Insurance	66.3% ± *6.5%*	142,200
Employer Does Not Offer Insurance	29.0% ± *6.6%*	62,100
Lost Job	47.5% ± *7.1%*	101,800
Don't Need/Don't Want Insurance	16.6% ± *4.9%*	35,500
Employed Part Time	17.5% ± *5.1%*	37,600
Lost Eligibility	9.6% ± *3.6%*	20,600
Insurance Company Refused to Cover[4]	7.8% ± *3.1%*	16,700
Total, All Utahns Who Lacked Insurance	100.0%	

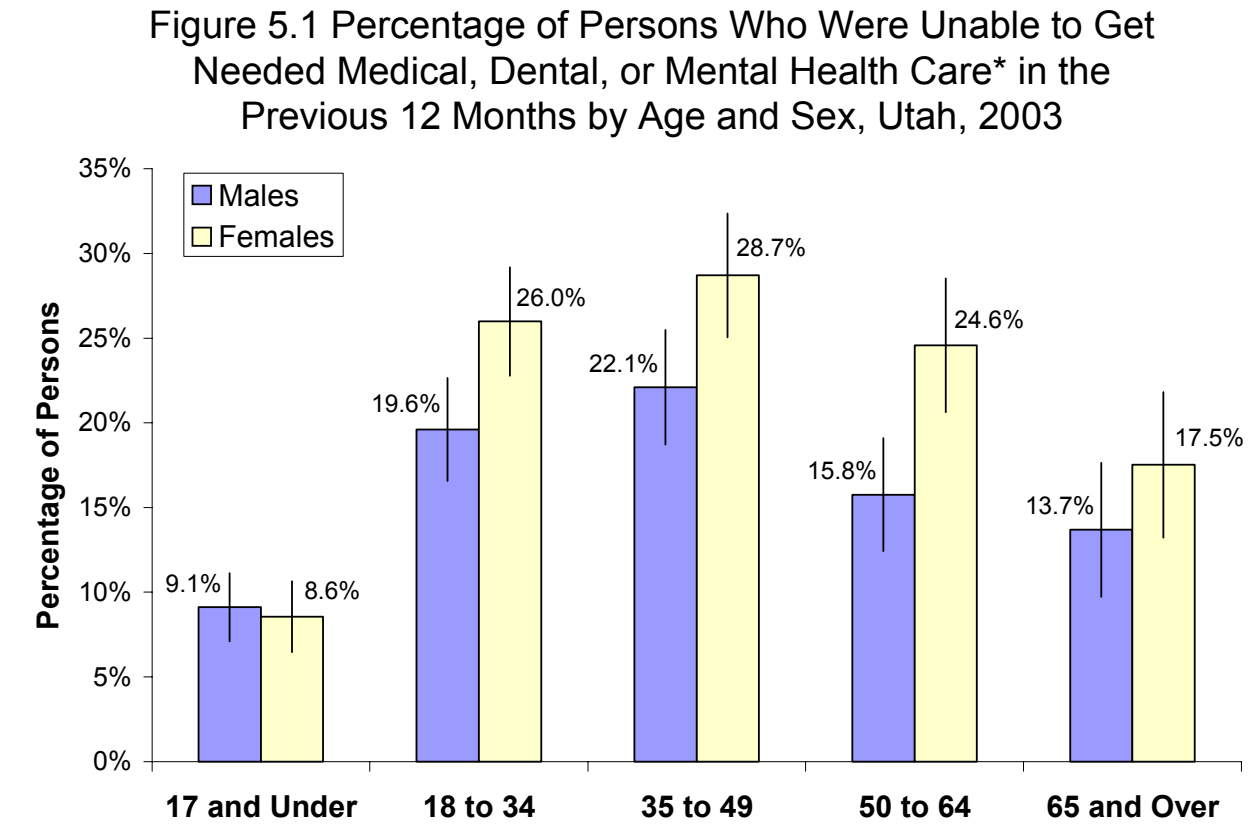
1 Plus or minus 95% confidence interval.

2 Because individuals could choose more than one reason, figures sum to greater than 100%.

3 Rounded to the nearest 100 households.

4 Reasons an Insurance Company would refuse to cover an indvidual included 1) because of a pre-existing condition, 2) the individual exceeded lifetime benefits, or 3) due to some other reason.

2003 Utah Health Status Survey, Utah Department of Health



* An individual was defined as unable to get care if they indicated that they delayed or were unable to obtain care because 1) their insurance would not cover the service, 2) the service was not available in their area, or 3) they could not afford to pay for the service.

- There were over 420,000 Utahns who were unable to get needed medical, dental, or mental health care, for a total of 18% of the entire state population.
- Among adults, females were more likely to report problems with access to health care than males.
- Women aged 35 to 49 years were the most likely to report access problems.

Table 5. Access to Health Care: Percentage of Persons Who Were Unable to Get Needed Medical, Dental, or Mental Health Care* in the Previous 12 Months
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns With an Access Problem		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Unable to Get Care[2]	Number of Persons[3,4]	Percentage Distribution of Persons Unable to Get Care[4]
2003 Utah Population	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Sex					
Male	50.2%	1,181,516	15.7% ± *1.5%*	185,500	43.9%
Female	49.8%	1,173,259	20.2% ± *1.6%*	236,900	56.1%
Total, All Utahns	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Age Group					
17 and Under	31.5%	742,867	8.8% ± *1.7%*	65,700	15.5%
18 to 34	29.1%	685,764	22.8% ± *2.5%*	156,100	36.9%
35 to 49	18.8%	442,006	25.4% ± *2.7%*	112,300	26.5%
50 to 64	12.1%	285,779	20.3% ± *2.9%*	57,900	13.7%
65 and Over	8.4%	198,359	15.7% ± *3.2%*	31,200	7.4%
Total, All Utahns	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	9.1% ± *2.0%*	34,800	8.2%
Males, 18 to 34	14.7%	347,144	19.6% ± *3.0%*	68,000	16.1%
Males, 35 to 49	9.5%	223,919	22.1% ± *3.4%*	49,500	11.7%
Males 50 to 64	6.0%	141,427	15.8% ± *3.3%*	22,300	5.3%
Males, 65 and Over	3.7%	87,144	13.7% ± *4.0%*	11,900	2.8%
Females, 17 and Under	15.3%	360,985	8.6% ± *2.1%*	30,900	7.3%
Females, 18 to 34	14.4%	338,620	26.0% ± *3.2%*	88,000	20.8%
Females, 35 to 49	9.3%	218,087	28.7% ± *3.7%*	62,600	14.8%
Females 50 to 64	6.1%	144,352	24.6% ± *3.9%*	35,500	8.4%
Females, 65 and Over	4.7%	111,215	17.5% ± *4.3%*	19,500	4.6%
Total, All Utahns	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	15.0% ± *3.6%*	21,600	5.1%
Central	2.9%	69,140	20.8% ± *4.7%*	14,400	3.4%
Davis	10.7%	252,521	16.3% ± *3.8%*	41,100	9.7%
Salt Lake	39.6%	932,365	17.0% ± *2.2%*	158,800	37.5%
Southeastern	2.3%	53,675	30.9% ± *5.5%*	16,600	3.9%
Southwest	6.5%	154,152	23.8% ± *5.4%*	36,700	8.7%
Summit	1.4%	32,831	12.9% ± *4.5%*	4,200	1.0%
Tooele	2.0%	46,815	19.3% ± *3.9%*	9,000	2.1%
TriCounty	1.8%	42,241	20.8% ± *4.9%*	8,800	2.1%
Utah County	17.0%	400,670	18.8% ± *3.6%*	75,200	17.8%
Wasatch	0.7%	17,179	22.3% ± *5.3%*	3,800	0.9%
Weber-Morgan	8.9%	209,593	15.7% ± *4.3%*	32,900	7.8%
Total, All Utahns	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	39.5% ± *5.2%*	91,900	20.6%
$20,000 to <$45,000	30.7%	722,400	26.5% ± *2.8%*	191,800	43.1%
$45,000 to <$65,000	23.5%	552,500	15.9% ± *3.0%*	87,600	19.7%
$65,000 and Over	36.0%	847,100	8.7% ± *1.5%*	74,100	16.6%
Total, All Utahns	100.0%	2,354,800	18.0% ± *1.3%*	422,700	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	14.8% ± *1.3%*	317,000	73.4%
Uninsured	9.1%	214,500	53.4% ± *6.3%*	114,600	26.6%
Total, All Utahns	100.0%	2,354,800	18.0% ± *1.3%*	422,700	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

*An individual was defined as unable to get care if they indicated that they delayed or were unable to obtain care because 1) their insurance would not cover the service, 2) the service was not available in their area, or 3) they could not afford to pay for the service.

Figure 6.1 Average Number of Medical Visits in the Previous 12 Months, Utah, 1996, 2001, and 2003

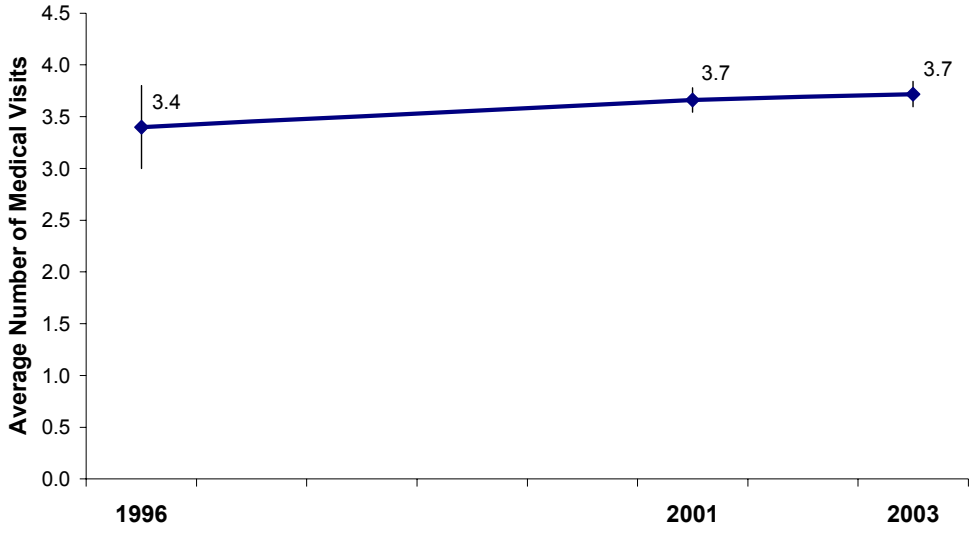
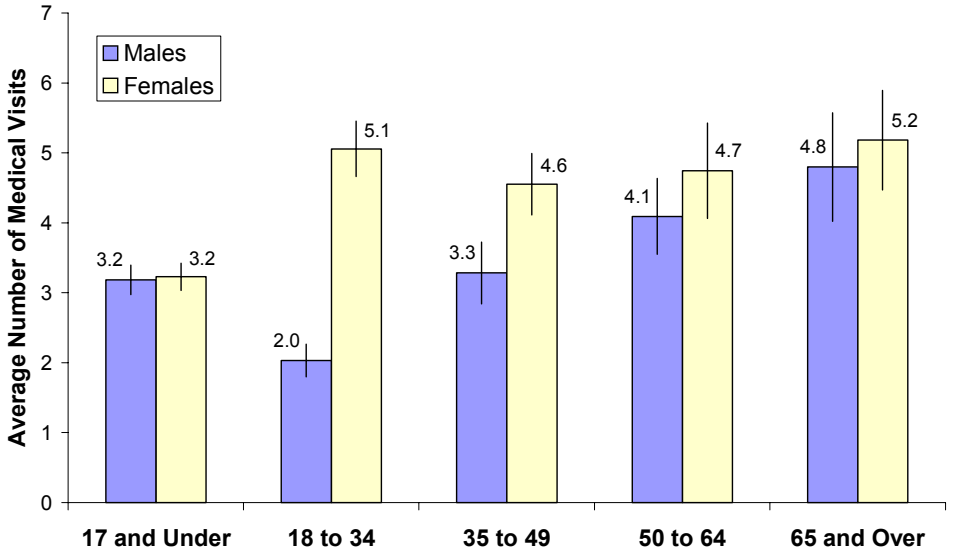


Figure 6.2 Average Number of Medical Visits in the Previous 12 Months by Age and Sex, Utah, 2003



- The average number of medical visits did not change from 2001 to 2003.
- Women aged 18 to 34 and 65 and over had the highest average number of medical visits.
- Women aged 18 to 34 had over twice as many medical visits than men the same age. This could be because these are prime childbearing years and probably include prenatal visits.

Table 6. Health Care Utilization: Average Number of Medical Visits in the Previous 12 Months by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Number of Medical Visits in Previous 12 Months		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Average Number of Medical Visits, Last 12 Months[2]	Total Number of Medical Visits[3,4]	Distribution of Average Number of Medical Visits by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.0%
Sex					
Male	50.2%	1,181,516	3.1 ± *0.2*	3,662,600	41.8%
Female	49.8%	1,173,259	4.3 ± *0.2*	5,094,800	58.2%
Total, All Utahns	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.0%
Age Group					
17 and Under	31.5%	742,867	3.2 ± *0.1*	2,381,600	27.1%
18 to 34	29.1%	685,764	3.5 ± *0.2*	2,405,100	27.4%
35 to 49	18.8%	442,006	3.9 ± *0.3*	1,730,300	19.7%
50 to 64	12.1%	285,779	4.4 ± *0.4*	1,265,500	14.4%
65 and Over	8.4%	198,359	5.0 ± *0.5*	993,000	11.3%
Total, All Utahns	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	3.2 ± *0.2*	1,216,200	13.8%
Males, 18 to 34	14.7%	347,144	2.0 ± *0.2*	704,600	8.0%
Males, 35 to 49	9.5%	223,919	3.3 ± *0.4*	735,300	8.4%
Males 50 to 64	6.0%	141,427	4.1 ± *0.5*	578,900	6.6%
Males, 65 and Over	3.7%	87,144	4.8 ± *0.8*	418,200	4.8%
Females, 17 and Under	15.3%	360,985	3.2 ± *0.2*	1,165,300	13.3%
Females, 18 to 34	14.4%	338,620	5.1 ± *0.4*	1,713,000	19.5%
Females, 35 to 49	9.3%	218,087	4.6 ± *0.4*	993,000	11.3%
Females 50 to 64	6.1%	144,352	4.7 ± *0.7*	685,300	7.8%
Females, 65 and Over	4.7%	111,215	5.2 ± *0.7*	576,500	6.6%
Total, All Utahns	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	3.7 ± *0.4*	530,100	6.1%
Central	2.9%	69,140	3.5 ± *0.4*	241,500	2.8%
Davis	10.7%	252,521	4.6 ± *0.5*	1,150,800	13.2%
Salt Lake	39.6%	932,365	3.8 ± *0.2*	3,586,800	41.0%
Southeastern	2.3%	53,675	3.4 ± *0.3*	183,800	2.1%
Southwest	6.5%	154,152	3.4 ± *0.4*	525,500	6.0%
Summit	1.4%	32,831	3.7 ± *0.4*	123,100	1.4%
Tooele	2.0%	46,815	3.7 ± *0.3*	171,000	2.0%
TriCounty	1.8%	42,241	3.7 ± *0.4*	156,900	1.8%
Utah County	17.0%	400,670	3.3 ± *0.2*	1,309,700	15.0%
Wasatch	0.7%	17,179	3.8 ± *0.5*	65,900	0.8%
Weber-Morgan	8.9%	209,593	3.4 ± *0.4*	705,200	8.1%
Total, All Utahns	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.1%
Annual Household Income					
Under $20,000	9.9%	232,800	4.5 ± *0.5*	1,041,300	11.6%
$20,000 to <$45,000	30.7%	722,400	3.9 ± *0.2*	2,850,900	31.9%
$45,000 to <$65,000	23.5%	552,500	3.5 ± *0.3*	1,920,500	21.5%
$65,000 and Over	36.0%	847,100	3.7 ± *0.2*	3,134,200	35.0%
Total, All Utahns	100.0%	2,354,800	3.7 ± *0.1*	8,756,400	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	3.9 ± *0.1*	8,259,700	94.0%
Uninsured	9.1%	214,500	2.5 ± *0.3*	529,300	6.0%
Total, All Utahns	100.0%	2,354,800	3.7 ± *0.1*	8,756,400	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Note: Does not include overnight hospital stays.

Figure 7.1 Percentage of Persons Who Received a Routine Medical Check-Up in the Previous 12 Months, Utah, 1996, 2001, and 2003

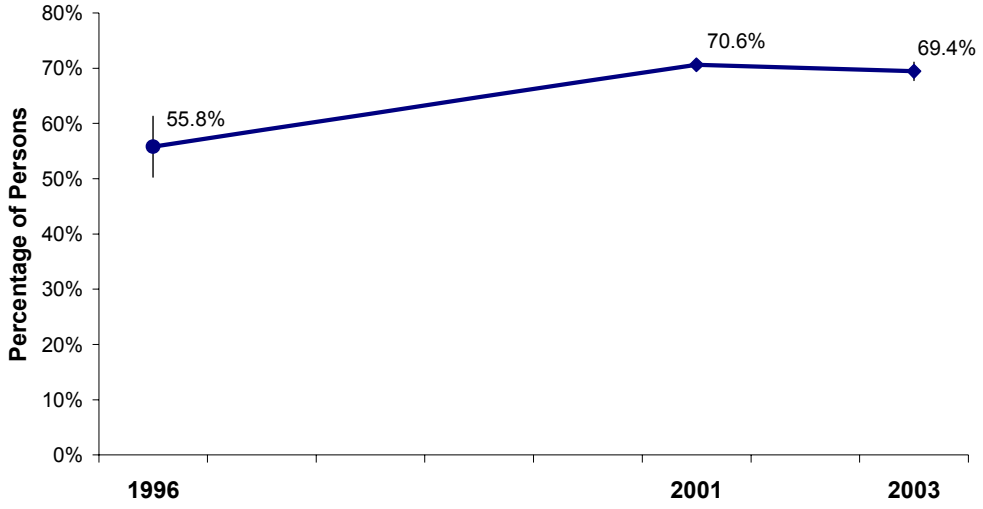
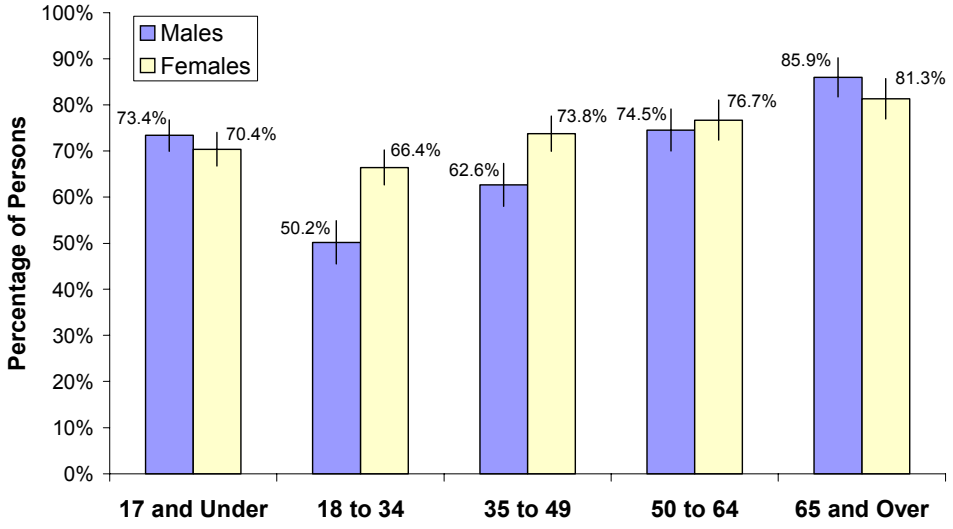


Figure 7.2 Percentage of Persons Who Received a Routine Medical Check-Up in the Previous 12 Months by Age and Sex, Utah, 2003



- Among adults, the percentage of Utahns who received a medical check-up increased with age, regardless of sex.
- Men and women aged 65 and over were the most likely to receive a routine medical check-up (85.9% and 81.3% respectively).

Table 7. Preventive Medical Visit: Percentage of Persons Who Received a Routine Medical Check-Up in the Previous 12 Months
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns With a Routine Medical Check-Up		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons With a Routine Exam[2]	Number of Persons[3,4]	Percentage Distribution of Persons With a Routine Exam by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Sex					
Male	50.2%	1,181,516	66.8% ± *2.2%*	789,700	48.4%
Female	49.8%	1,173,259	71.8% ± *2.0%*	842,500	51.6%
Total, All Utahns	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Age Group					
17 and Under	31.5%	742,867	71.9% ± *2.8%*	534,200	32.9%
18 to 34	29.1%	685,764	59.0% ± *3.2%*	404,400	24.9%
35 to 49	18.8%	442,006	68.6% ± *3.2%*	303,200	18.7%
50 to 64	12.1%	285,779	75.7% ± *3.3%*	216,300	13.3%
65 and Over	8.4%	198,359	83.4% ± *3.3%*	165,500	10.2%
Total, All Utahns	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	73.4% ± *3.4%*	280,100	17.3%
Males, 18 to 34	14.7%	347,144	50.2% ± *4.7%*	174,200	10.8%
Males, 35 to 49	9.5%	223,919	62.6% ± *4.7%*	140,200	8.7%
Males 50 to 64	6.0%	141,427	74.5% ± *4.5%*	105,400	6.5%
Males, 65 and Over	3.7%	87,144	85.9% ± *4.2%*	74,900	4.6%
Females, 17 and Under	15.3%	360,985	70.4% ± *3.6%*	254,100	15.7%
Females, 18 to 34	14.4%	338,620	66.4% ± *3.8%*	224,900	13.9%
Females, 35 to 49	9.3%	218,087	73.8% ± *3.8%*	160,800	10.0%
Females 50 to 64	6.1%	144,352	76.7% ± *4.4%*	110,700	6.9%
Females, 65 and Over	4.7%	111,215	81.3% ± *4.4%*	90,500	5.6%
Total, All Utahns	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	68.1% ± *5.3%*	97,700	6.0%
Central	2.9%	69,140	68.9% ± *5.2%*	47,700	2.9%
Davis	10.7%	252,521	64.3% ± *5.3%*	162,400	9.9%
Salt Lake	39.6%	932,365	71.6% ± *2.9%*	667,600	40.8%
Southeastern	2.3%	53,675	62.8% ± *5.9%*	33,700	2.1%
Southwest	6.5%	154,152	67.7% ± *5.8%*	104,300	6.4%
Summit	1.4%	32,831	77.6% ± *5.0%*	25,500	1.6%
Tooele	2.0%	46,815	71.1% ± *4.7%*	33,300	2.0%
TriCounty	1.8%	42,241	67.5% ± *5.6%*	28,500	1.7%
Utah County	17.0%	400,670	70.4% ± *3.6%*	282,000	17.2%
Wasatch	0.7%	17,179	63.8% ± *5.6%*	11,000	0.7%
Weber-Morgan	8.9%	209,593	67.5% ± *6.2%*	141,400	8.6%
Total, All Utahns	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	69.3% ± *5.0%*	161,300	9.9%
$20,000 to <$45,000	30.7%	722,400	67.7% ± *3.3%*	489,300	30.0%
$45,000 to <$65,000	23.5%	552,500	70.3% ± *3.6%*	388,300	23.8%
$65,000 and Over	36.0%	847,100	70.0% ± *3.0%*	593,000	36.3%
Total, All Utahns	100.0%	2,354,800	69.4% ± *1.6%*	1,635,100	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	70.9% ± *1.7%*	1,516,600	93.0%
Uninsured	9.1%	214,500	52.9% ± *5.9%*	113,500	7.0%
Total, All Utahns	100.0%	2,354,800	69.4% ± *1.6%*	1,635,100	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 8.1 Percentage of Persons Who Had No Usual Place of Medical Care, Utah, 2001 and 2003

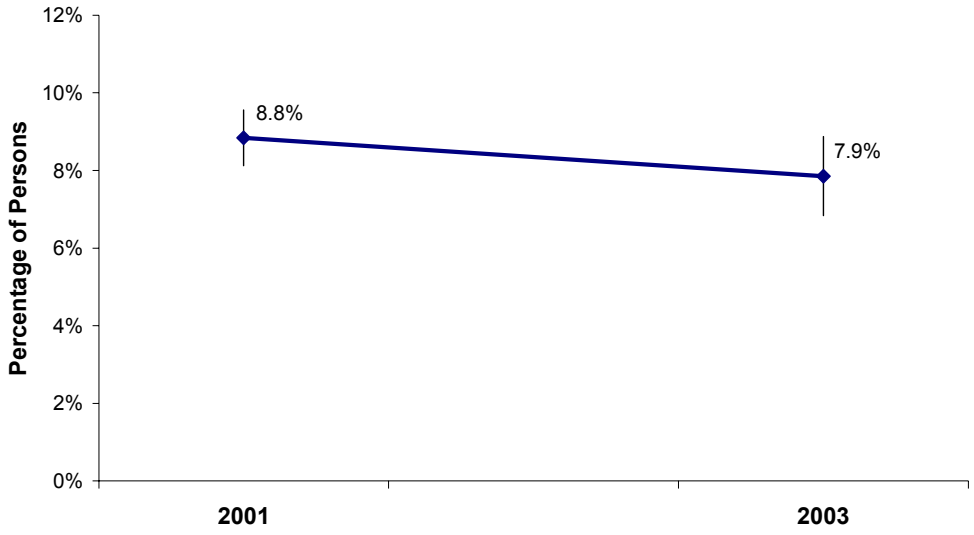
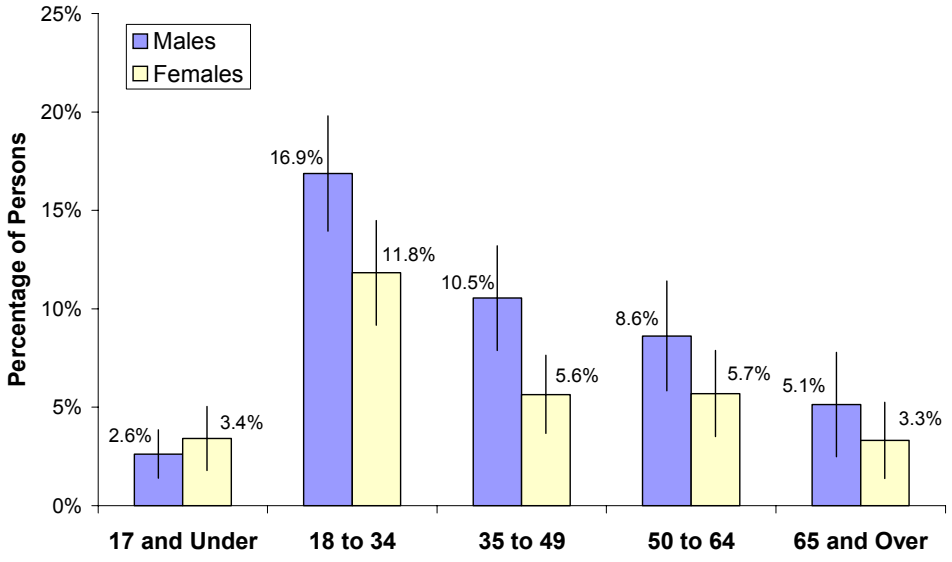


Figure 8.2 Percentage of Persons Who Had No Usual Place of Medical Care by Age and Sex, Utah, 2003



- There was a slight drop in the percentage of persons without a usual place of medical care between 2001 and 2003; however, the decrease was more than offset by the percentage of Utahns who indicated that their usual source of care was a hospital emergency department (see page 24).
- Males aged 18 to 34 were the most likely to not have a usual place of care.

Table 8. Place of Care: Percentage of Persons Who Had No Usual Place of Medical Care
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns With No Usual Place of Medical Care		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons With No Usual Place of Care[2]	Number of Persons[3,4]	Percentage Distribution of Persons With No Usual Place of Care by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Sex					
Male	50.2%	1,181,516	9.2% ± *1.2%*	108,500	58.6%
Female	49.8%	1,173,259	6.5% ± *1.2%*	76,500	41.4%
Total, All Utahns	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Age Group					
17 and Under	31.5%	742,867	3.0% ± *1.2%*	22,300	12.0%
18 to 34	29.1%	685,764	14.4% ± *2.3%*	98,500	53.2%
35 to 49	18.8%	442,006	8.1% ± *1.9%*	35,800	19.3%
50 to 64	12.1%	285,779	7.1% ± *2.0%*	20,300	11.0%
65 and Over	8.4%	198,359	4.1% ± *1.7%*	8,200	4.4%
Total, All Utahns	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	2.6% ± *1.2%*	10,000	5.4%
Males, 18 to 34	14.7%	347,144	16.9% ± *2.9%*	58,600	31.6%
Males, 35 to 49	9.5%	223,919	10.5% ± *2.7%*	23,600	12.7%
Males 50 to 64	6.0%	141,427	8.6% ± *2.8%*	12,200	6.6%
Males, 65 and Over	3.7%	87,144	5.1% ± *2.7%*	4,500	2.4%
Females, 17 and Under	15.3%	360,985	3.4% ± *1.6%*	12,300	6.6%
Females, 18 to 34	14.4%	338,620	11.8% ± *2.7%*	40,000	21.6%
Females, 35 to 49	9.3%	218,087	5.6% ± *2.0%*	12,300	6.6%
Females 50 to 64	6.1%	144,352	5.7% ± *2.2%*	8,200	4.4%
Females, 65 and Over	4.7%	111,215	3.3% ± *1.9%*	3,700	2.0%
Total, All Utahns	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	5.5% ± *2.9%*	7,900	4.3%
Central	2.9%	69,140	6.7% ± *3.5%*	4,600	2.5%
Davis	10.7%	252,521	3.8% ± *1.8%*	9,600	5.2%
Salt Lake	39.6%	932,365	9.6% ± *1.9%*	89,200	48.1%
Southeastern	2.3%	53,675	9.5% ± *3.3%*	5,100	2.8%
Southwest	6.5%	154,152	6.7% ± *3.0%*	10,300	5.6%
Summit	1.4%	32,831	8.0% ± *4.0%*	2,600	1.4%
Tooele	2.0%	46,815	7.5% ± *2.9%*	3,500	1.9%
TriCounty	1.8%	42,241	5.9% ± *3.0%*	2,500	1.3%
Utah County	17.0%	400,670	9.0% ± *3.0%*	36,100	19.5%
Wasatch	0.7%	17,179	7.4% ± *2.9%*	1,300	0.7%
Weber-Morgan	8.9%	209,593	6.1% ± *2.8%*	12,700	6.9%
Total, All Utahns	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	10.0% ± *3.3%*	23,400	12.7%
$20,000 to <$45,000	30.7%	722,400	10.5% ± *2.5%*	76,100	41.3%
$45,000 to <$65,000	23.5%	552,500	6.0% ± *1.8%*	33,000	17.9%
$65,000 and Over	36.0%	847,100	6.1% ± *1.5%*	51,700	28.1%
Total, All Utahns	100.0%	2,354,800	7.9% ± *1.0%*	184,900	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	6.0% ± *0.9%*	128,000	69.8%
Uninsured	9.1%	214,500	25.8% ± *5.9%*	55,300	30.2%
Total, All Utahns	100.0%	2,354,800	7.9% ± *1.0%*	184,900	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 9.1 Percentage of Persons Whose Usual Point of Access to Medical Care Was a Hospital Emergency Department or an Urgent Care Center, Utah, 2001 and 2003

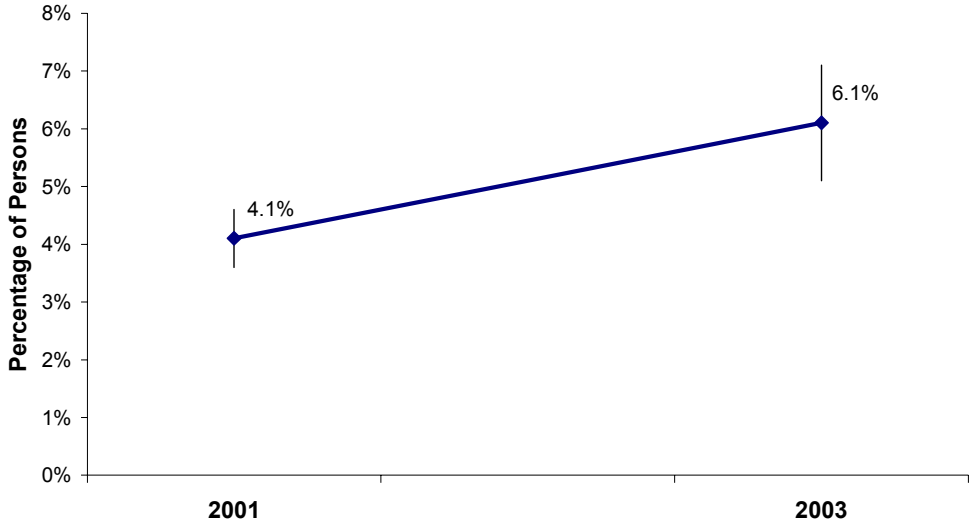
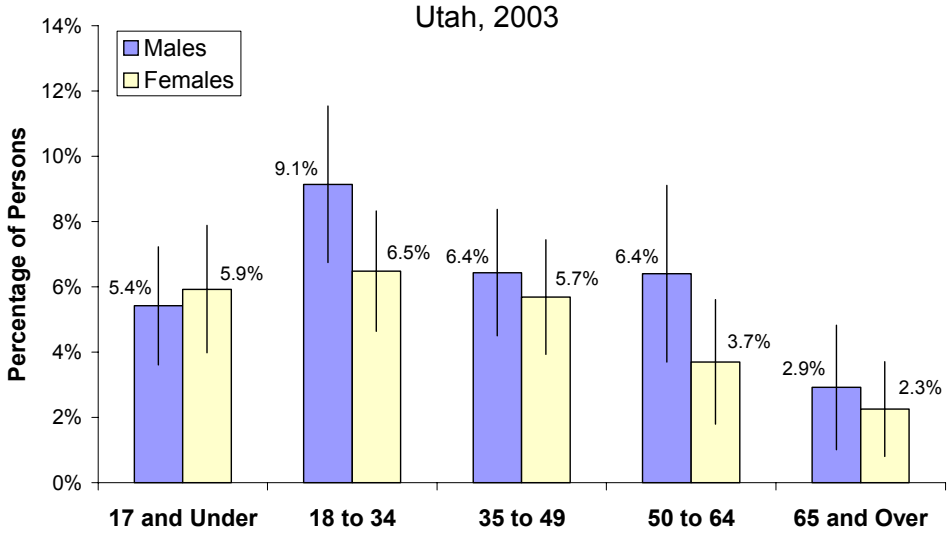


Figure 9.2 Percentage of Persons Whose Usual Point of Access to Medical Care Was a Hospital Emergency Department or an Urgent Care Center by Age and Sex, Utah, 2003



- Those aged 18 to 34 were most likely to use a hospital emergency department or urgent care center as their usual point of access.
- With the exception of those 17 and under, men were more likely than women to use an emergency department or urgent care center as their primary source of medical care.

Table 9. Point of Access to Medical Care: Percentage of Persons Whose Usual Point of Access to Medical Care Was a Hospital Emergency Department or an Urgent Care Center by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Accessed Care in ED or Urgent Care Center		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Accessed Care in ED or Urgent Care Center[2]	Number of Persons[3,4]	Percentage Distribution of Persons Who Accessed Care in ED or Urgent Care Center by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%
Sex					
Male	50.2%	1,181,516	6.6% ± *1.2%*	78,600	54.7%
Female	49.8%	1,173,259	5.5% ± *1.1%*	65,100	45.3%
Total, All Utahns	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%
Age Group					
17 and Under	31.5%	742,867	5.7% ± *1.7%*	42,100	29.6%
18 to 34	29.1%	685,764	7.8% ± *1.8%*	53,700	37.8%
35 to 49	18.8%	442,006	6.1% ± *1.6%*	26,800	18.9%
50 to 64	12.1%	285,779	5.0% ± *1.8%*	14,300	10.1%
65 and Over	8.4%	198,359	2.6% ± *1.4%*	5,100	3.6%
Total, All Utahns	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	5.4% ± *1.8%*	20,700	14.6%
Males, 18 to 34	14.7%	347,144	9.1% ± *2.4%*	31,700	22.4%
Males, 35 to 49	9.5%	223,919	6.4% ± *1.9%*	14,400	10.2%
Males 50 to 64	6.0%	141,427	6.4% ± *2.7%*	9,000	6.3%
Males, 65 and Over	3.7%	87,144	2.9% ± *1.9%*	2,500	1.8%
Females, 17 and Under	15.3%	360,985	5.9% ± *1.9%*	21,400	15.1%
Females, 18 to 34	14.4%	338,620	6.5% ± *1.8%*	21,900	15.4%
Females, 35 to 49	9.3%	218,087	5.7% ± *1.8%*	12,400	8.7%
Females 50 to 64	6.1%	144,352	3.7% ± *1.9%*	5,300	3.7%
Females, 65 and Over	4.7%	111,215	2.3% ± *1.4%*	2,500	1.8%
Total, All Utahns	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	4.2% ± *2.7%*	6,000	4.2%
Central	2.9%	69,140	3.7% ± *2.6%*	2,600	1.8%
Davis	10.7%	252,521	5.4% ± *2.8%*	13,600	9.5%
Salt Lake	39.6%	932,365	5.7% ± *1.6%*	53,400	37.2%
Southeastern	2.3%	53,675	2.7% ± *2.1%*	1,400	1.0%
Southwest	6.5%	154,152	3.7% ± *2.4%*	5,700	4.0%
Summit	1.4%	32,831	9.7% ± *5.5%*	3,200	2.2%
Tooele	2.0%	46,815	7.3% ± *3.7%*	3,400	2.4%
TriCounty	1.8%	42,241	4.0% ± *2.9%*	1,700	1.2%
Utah County	17.0%	400,670	2.6% ± *1.3%*	10,500	7.3%
Wasatch	0.7%	17,179	3.4% ± *2.4%*	600	0.4%
Weber-Morgan	8.9%	209,593	19.7% ± *6.7%*	41,400	28.9%
Total, All Utahns	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	6.9% ± *3.2%*	15,900	11.6%
$20,000 to <$45,000	30.7%	722,400	5.0% ± *1.8%*	36,000	26.3%
$45,000 to <$65,000	23.5%	552,500	6.7% ± *2.2%*	37,200	27.2%
$65,000 and Over	36.0%	847,100	5.6% ± *1.7%*	47,600	34.8%
Total, All Utahns	100.0%	2,354,800	6.1% ± *1.0%*	143,600	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	5.8% ± *1.1%*	124,100	86.6%
Uninsured	9.1%	214,500	9.0% ± *3.1%*	19,200	13.4%
Total, All Utahns	100.0%	2,354,800	6.1% ± *1.0%*	143,600	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 10.1 Percentage of Persons Who Have Ever Been Diagnosed With Arthritis, Utah, 2001 and 2003

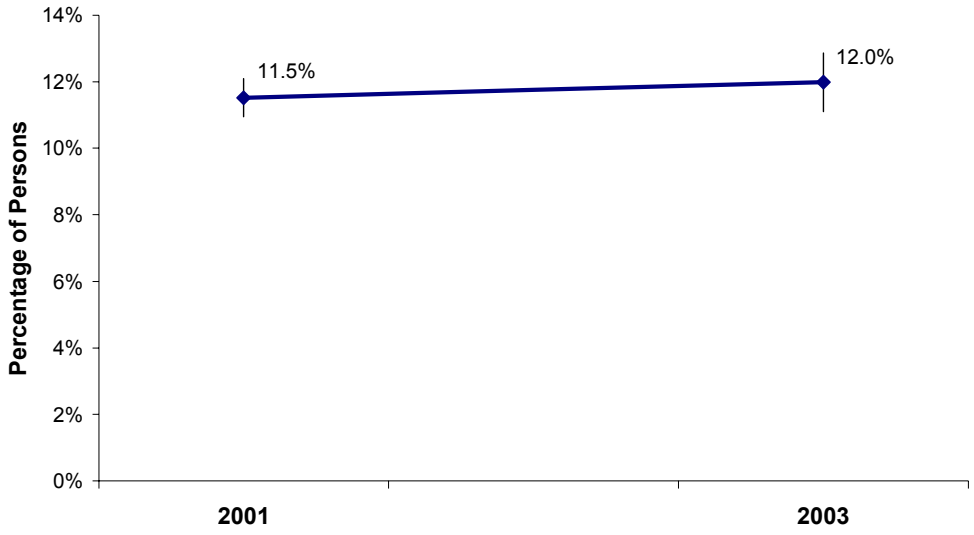
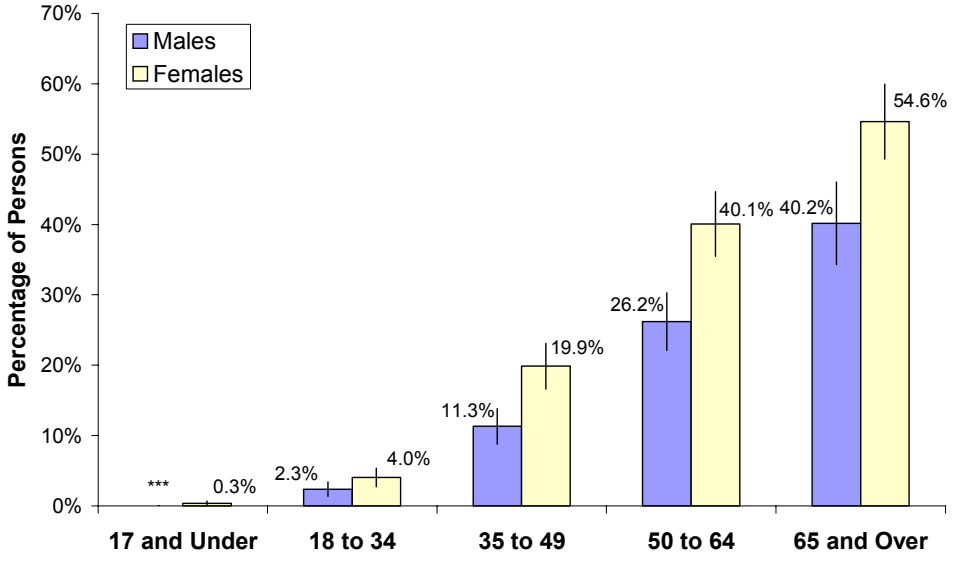


Figure 10.1 Percentage of Persons Who Have Ever Been Diagnosed With Arthritis by Age and Sex, Utah, 2003



*** Insufficient sample size for calculation of population estimates.

- For those aged 35 and over, women were significantly more likely than men to have been diagnosed with arthritis.
- Over half of women aged 65 years and over had been diagnosed with arthritis.

Table 10. Arthritis: Percentage of Persons Who Have Ever Been Diagnosed With Arthritis
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Have Ever Been Diagnosed With Arthritis		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Have Arthritis[2]	Number of Persons[3,4]	Percentage Distribution of Persons Who Have Arthritis by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Sex					
Male	50.2%	1,181,516	9.0% ± *1.0%*	106,900	37.9%
Female	49.8%	1,173,259	14.9% ± *1.3%*	175,200	62.1%
Total, All Utahns	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Age Group					
17 and Under	31.5%	742,867	0.2% ± *0.2%*	1,700	0.6%
18 to 34	29.1%	685,764	3.2% ± *0.8%*	21,800	7.7%
35 to 49	18.8%	442,006	15.6% ± *2.1%*	68,800	24.4%
50 to 64	12.1%	285,779	33.3% ± *3.2%*	95,100	33.7%
65 and Over	8.4%	198,359	48.0% ± *4.1%*	95,100	33.7%
Total, All Utahns	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	*** ± ***	***	***
Males, 18 to 34	14.7%	347,144	2.3% ± *1.0%*	8,100	2.9%
Males, 35 to 49	9.5%	223,919	11.3% ± *2.5%*	25,300	9.0%
Males 50 to 64	6.0%	141,427	26.2% ± *4.1%*	37,000	13.1%
Males, 65 and Over	3.7%	87,144	40.2% ± *5.9%*	35,000	12.4%
Females, 17 and Under	15.3%	360,985	0.3% ± *0.3%*	1,200	0.4%
Females, 18 to 34	14.4%	338,620	4.0% ± *1.3%*	13,600	4.8%
Females, 35 to 49	9.3%	218,087	19.9% ± *3.3%*	43,300	15.3%
Females 50 to 64	6.1%	144,352	40.1% ± *4.6%*	57,800	20.5%
Females, 65 and Over	4.7%	111,215	54.6% ± *5.3%*	60,800	21.5%
Total, All Utahns	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	9.8% ± *2.5%*	14,000	5.0%
Central	2.9%	69,140	12.0% ± *2.7%*	8,300	2.9%
Davis	10.7%	252,521	12.1% ± *3.2%*	30,500	10.8%
Salt Lake	39.6%	932,365	12.2% ± *1.6%*	114,000	40.4%
Southeastern	2.3%	53,675	16.9% ± *3.5%*	9,100	3.2%
Southwest	6.5%	154,152	15.7% ± *3.5%*	24,200	8.6%
Summit	1.4%	32,831	10.7% ± *2.9%*	3,500	1.2%
Tooele	2.0%	46,815	10.1% ± *2.4%*	4,800	1.7%
TriCounty	1.8%	42,241	11.7% ± *2.7%*	5,000	1.8%
Utah County	17.0%	400,670	9.8% ± *1.7%*	39,200	13.9%
Wasatch	0.7%	17,179	12.4% ± *2.8%*	2,100	0.7%
Weber-Morgan	8.9%	209,593	13.1% ± *3.2%*	27,600	9.8%
Total, All Utahns	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	19.4% ± *3.8%*	45,100	16.5%
$20,000 to <$45,000	30.7%	722,400	12.8% ± *1.7%*	92,500	33.8%
$45,000 to <$65,000	23.5%	552,500	11.3% ± *1.9%*	62,200	22.7%
$65,000 and Over	36.0%	847,100	8.7% ± *1.3%*	73,800	27.0%
Total, All Utahns	100.0%	2,354,800	12.0% ± *0.9%*	282,300	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	12.7% ± *1.0%*	271,800	94.2%
Uninsured	9.1%	214,500	7.7% ± *2.4%*	16,600	5.8%
Total, All Utahns	100.0%	2,354,800	12.0% ± *0.9%*	282,300	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

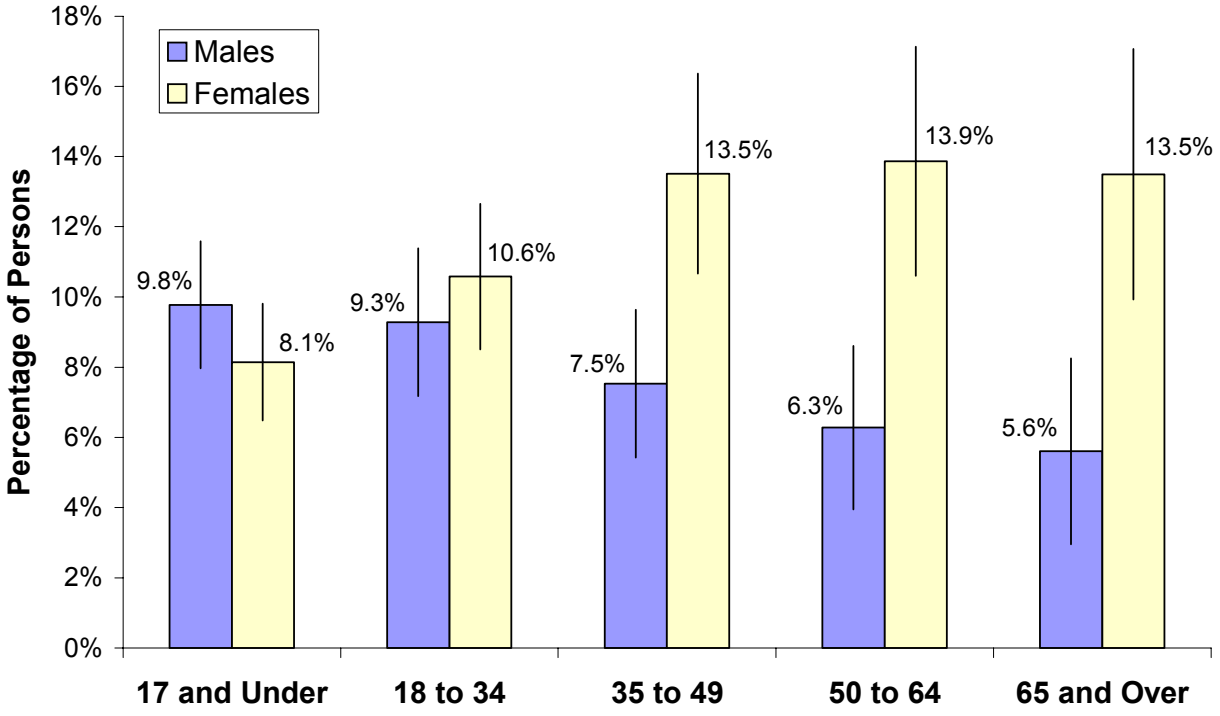
3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

*** Insufficient sample size for calculation of population estimates.

Figure 11.1 Percentage of Persons Who Had Ever Been Diagnosed With Asthma by Age and Sex, Utah, 2003



- In 2003, nearly one in ten Utahns, or almost 230,000 individuals, reported ever being diagnosed with asthma.
- Starting at age 35, the percentage of women who reported they had been diagnosed with asthma was nearly twice that reported by men.

Table 11. Asthma: Percentage of Persons Who Had Ever Been Diagnosed With Asthma
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Had Ever Been Told That They Had Asthma		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Persons Who Had Ever Been Told That They Had Asthma[2]	Number of Persons[3,4]	Percentage Distribution of Persons Who Had Ever Been Diagnosed With Asthma by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Sex					
Male	50.2%	1,181,516	8.4% ± *1.0%*	99,400	43.3%
Female	49.8%	1,173,259	11.1% ± *1.1%*	130,200	56.7%
Total, All Utahns	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Age Group					
17 and Under	31.5%	742,867	9.0% ± *1.3%*	66,700	29.0%
18 to 34	29.1%	685,764	9.9% ± *1.5%*	68,000	29.6%
35 to 49	18.8%	442,006	10.5% ± *1.8%*	46,500	20.2%
50 to 64	12.1%	285,779	10.2% ± *2.0%*	29,000	12.6%
65 and Over	8.4%	198,359	9.9% ± *2.4%*	19,600	8.5%
Total, All Utahns	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	9.8% ± *1.8%*	37,300	16.2%
Males, 18 to 34	14.7%	347,144	9.3% ± *2.1%*	32,200	14.0%
Males, 35 to 49	9.5%	223,919	7.5% ± *2.1%*	16,900	7.4%
Males 50 to 64	6.0%	141,427	6.3% ± *2.3%*	8,900	3.9%
Males, 65 and Over	3.7%	87,144	5.6% ± *2.6%*	4,900	2.1%
Females, 17 and Under	15.3%	360,985	8.1% ± *1.7%*	29,400	12.8%
Females, 18 to 34	14.4%	338,620	10.6% ± *2.1%*	35,800	15.6%
Females, 35 to 49	9.3%	218,087	13.5% ± *2.9%*	29,500	12.8%
Females 50 to 64	6.1%	144,352	13.9% ± *3.3%*	20,000	8.7%
Females, 65 and Over	4.7%	111,215	13.5% ± *3.6%*	15,000	6.5%
Total, All Utahns	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	9.7% ± *2.4%*	13,900	6.1%
Central	2.9%	69,140	9.2% ± *2.8%*	6,400	2.8%
Davis	10.7%	252,521	7.3% ± *2.3%*	18,400	8.0%
Salt Lake	39.6%	932,365	10.9% ± *1.5%*	101,500	44.2%
Southeastern	2.3%	53,675	7.9% ± *2.3%*	4,300	1.9%
Southwest	6.5%	154,152	8.5% ± *2.7%*	13,100	5.7%
Summit	1.4%	32,831	10.4% ± *3.7%*	3,400	1.5%
Tooele	2.0%	46,815	12.4% ± *2.7%*	5,800	2.5%
TriCounty	1.8%	42,241	8.5% ± *2.3%*	3,600	1.6%
Utah County	17.0%	400,670	8.9% ± *1.9%*	35,700	15.5%
Wasatch	0.7%	17,179	6.8% ± *2.1%*	1,200	0.5%
Weber-Morgan	8.9%	209,593	10.7% ± *3.1%*	22,400	9.8%
Total, All Utahns	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	11.6% ± *2.9%*	27,100	11.5%
$20,000 to <$45,000	30.7%	722,400	10.6% ± *1.6%*	76,600	32.5%
$45,000 to <$65,000	23.5%	552,500	10.4% ± *2.0%*	57,300	24.3%
$65,000 and Over	36.0%	847,100	8.8% ± *1.4%*	74,800	31.7%
Total, All Utahns	100.0%	2,354,800	9.8% ± *0.8%*	229,600	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	9.7% ± *0.8%*	206,800	89.7%
Uninsured	9.1%	214,500	11.1% ± *3.1%*	23,800	10.3%
Total, All Utahns	100.0%	2,354,800	9.8% ± *0.8%*	229,600	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Figure 12.1 Percentage of Persons Who Had Been Diagnosed With Diabetes, Utah, 1996, 2001, and 2003

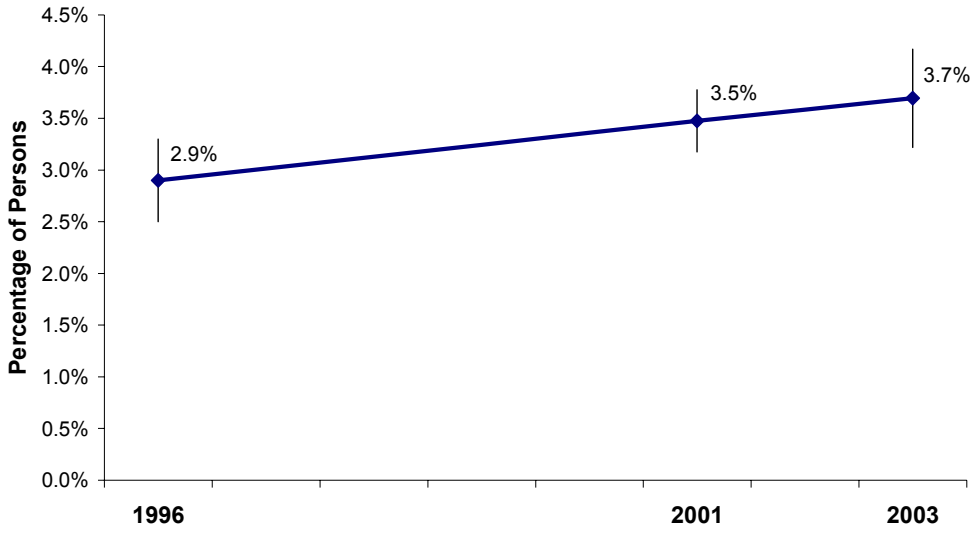
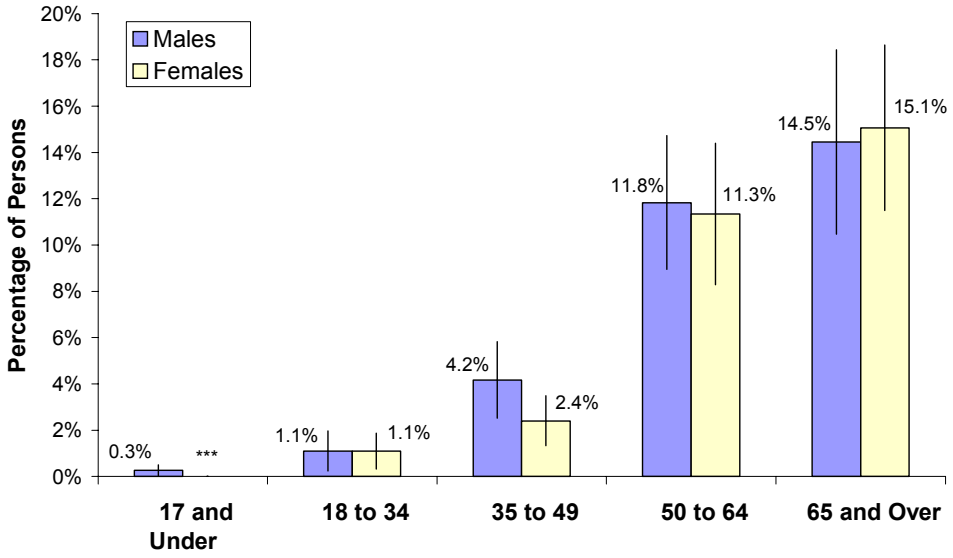


Figure 12.2 Percentage of Persons Who Had Been Diagnosed With Diabetes by Age and Sex, Utah, 2003



Note: Does not include gestational diabetes.
*** Insufficient sample size for calculation of population estimates.

- Diabetes prevalence has shown a steady increase from 1996 to 2003. Men were slightly more likely than women to be diagnosed with diabetes for those aged 35 to 49 and 50 to 64. However, for those aged 65 and over, women were more likely to be diagnosed with diabetes.
- As age increased, so did the incidence of diabetes.

Table 12. Diabetes: Percentage of Persons Who Had Been Diagnosed With Diabetes
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Had Diabetes		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Had Diabetes[2]	Number of Persons[3,4]	Percentage Distribution of Persons Who Had Diabetes by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	3.7% ± 0.5%	87,000	100.0%
Sex					
Male	50.2%	1,181,516	3.7% ± 0.6%	44,000	50.6%
Female	49.8%	1,173,259	3.7% ± 0.6%	43,000	49.4%
Total, All Utahns	100.0%	2,354,775	3.7% ± 0.5%	87,000	100.0%
Age Group					
17 and Under	31.5%	742,867	0.3% ± 0.2%	2,100	2.4%
18 to 34	29.1%	685,764	1.1% ± 0.6%	7,500	8.7%
35 to 49	18.8%	442,006	3.3% ± 1.0%	14,500	16.8%
50 to 64	12.1%	285,779	11.6% ± 2.1%	33,100	38.3%
65 and Over	8.4%	198,359	14.8% ± 2.8%	29,300	33.9%
Total, All Utahns	100.0%	2,354,775	3.7% ± 0.5%	87,000	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	0.3% ± 0.2%	1,000	1.2%
Males, 18 to 34	14.7%	347,144	1.1% ± 0.9%	3,800	4.4%
Males, 35 to 49	9.5%	223,919	4.2% ± 1.7%	9,300	10.7%
Males 50 to 64	6.0%	141,427	11.8% ± 2.9%	16,700	19.3%
Males, 65 and Over	3.7%	87,144	14.5% ± 4.0%	12,600	14.5%
Females, 17 and Under	15.3%	360,985	*** ± ***	***	***
Females, 18 to 34	14.4%	338,620	1.1% ± 0.8%	3,700	4.3%
Females, 35 to 49	9.3%	218,087	2.4% ± 1.1%	5,200	6.0%
Females 50 to 64	6.1%	144,352	11.3% ± 3.1%	16,400	18.9%
Females, 65 and Over	4.7%	111,215	15.1% ± 3.6%	16,800	19.4%
Total, All Utahns	100.0%	2,354,775	3.7% ± 0.5%	87,000	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	4.0% ± 1.5%	5,700	6.5%
Central	2.9%	69,140	5.1% ± 1.8%	3,600	4.1%
Davis	10.7%	252,521	4.4% ± 1.6%	11,100	12.7%
Salt Lake	39.6%	932,365	3.4% ± 0.9%	31,300	35.9%
Southeastern	2.3%	53,675	4.1% ± 1.7%	2,200	2.5%
Southwest	6.5%	154,152	4.2% ± 2.0%	6,400	7.3%
Summit	1.4%	32,831	2.1% ± 1.3%	700	0.8%
Tooele	2.0%	46,815	4.7% ± 1.5%	2,200	2.5%
TriCounty	1.8%	42,241	4.9% ± 1.8%	2,100	2.4%
Utah County	17.0%	400,670	3.2% ± 0.9%	12,800	14.7%
Wasatch	0.7%	17,179	2.1% ± 1.1%	400	0.5%
Weber-Morgan	8.9%	209,593	4.2% ± 1.7%	8,700	10.0%
Total, All Utahns	100.0%	2,354,775	3.7% ± 0.5%	87,000	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	5.5% ± 1.9%	12,700	15.4%
$20,000 to <$45,000	30.7%	722,400	4.2% ± 1.0%	30,500	36.9%
$45,000 to <$65,000	23.5%	552,500	3.0% ± 0.9%	16,600	20.1%
$65,000 and Over	36.0%	847,100	2.7% ± 0.7%	22,800	27.6%
Total, All Utahns	100.0%	2,354,800	3.7% ± 0.5%	87,000	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	3.8% ± 0.5%	81,100	93.4%
Uninsured	9.1%	214,500	2.7% ± 1.3%	5,700	6.6%
Total, All Utahns	100.0%	2,354,800	3.7% ± 0.5%	87,000	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Note: Does not include gestational diabetes.

*** Insufficient sample size for calculation of population estimates.

Figure 13.1 Percentage of Persons Currently Under Medical Care for Chronic Obstructive Pulmonary Disease (COPD), Utah, 1996, 2001, and 2003

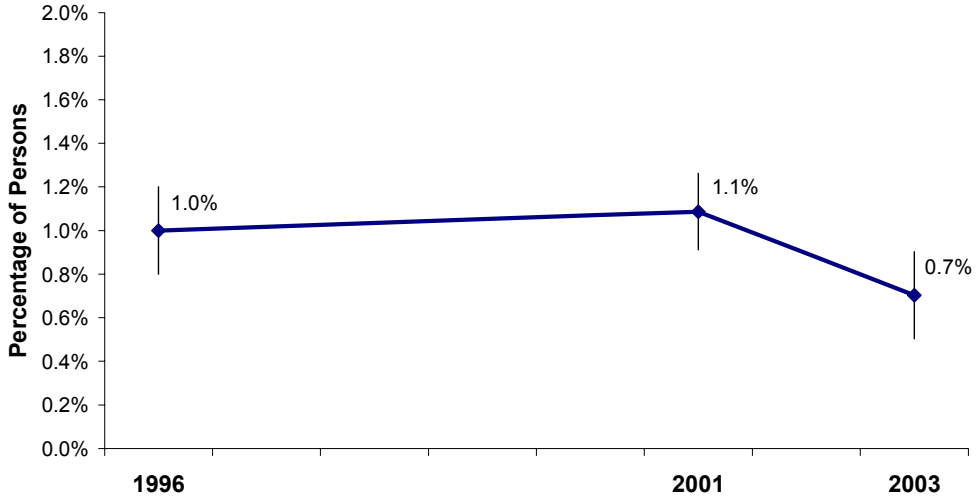
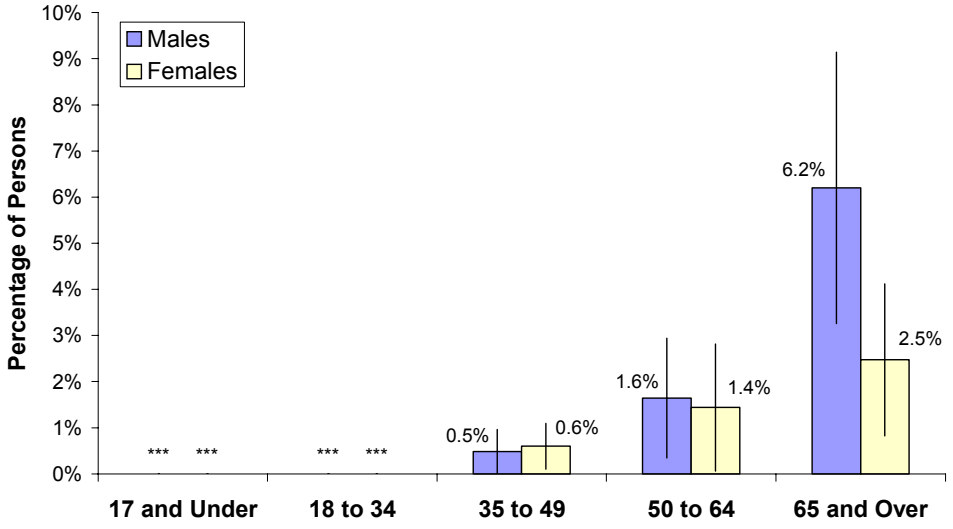


Figure 13.2 Percentage of Persons Currently Under Medical Care for Chronic Obstructive Pulmonary Disease (COPD) by Age and Sex, Utah, 2003



Note: COPD includes emphysema and chronic bronchitis.
*** Insufficient sample size for calculation of population estimates.

- The percentage of people under medical care for COPD decreased slightly between 1996 and 2003.
- As age increased, the likelihood of being under care for COPD also increased.
- Men aged 65 and over were almost three times as likely as women to be under care for COPD.

Table 13. Chronic Obstructive Pulmonary Disease: Percentage of Persons Currently Under Medical Care for Chronic Obstructive Pulmonary Disease (COPD)
by Selected Demographic Characteristics, Utah Residents, 2003.

	Utah Population Distribution		Survey Estimates of Utahns Who Had COPD		
Demographic Subgroup	Percentage Distribution	Number of Persons[1]	Percentage of Persons Who Had COPD[2]	Number of Persons[3,4]	Percentage Distribution of Persons Who Had COPD by Subgroup[4]
2003 Utah Population	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Sex					
Male	50.2%	1,181,516	0.8% ± *0.3%*	9,100	54.8%
Female	49.8%	1,173,259	0.6% ± *0.3%*	7,500	45.2%
Total, All Utahns	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Age Group					
17 and Under	31.5%	742,867	*** ± ***	***	***
18 to 34	29.1%	685,764	*** ± ***	***	***
35 to 49	18.8%	442,006	0.5% ± *0.3%*	2,400	14.8%
50 to 64	12.1%	285,779	1.5% ± *0.9%*	4,400	27.2%
65 and Over	8.4%	198,359	4.2% ± *1.6%*	8,300	51.2%
Total, All Utahns	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Sex and Age					
Males, 17 and Under	16.2%	381,882	*** ± ***	***	***
Males, 18 to 34	14.7%	347,144	*** ± ***	***	***
Males, 35 to 49	9.5%	223,919	0.5% ± *0.5%*	1,100	6.9%
Males 50 to 64	6.0%	141,427	1.6% ± *1.3%*	2,300	14.4%
Males, 65 and Over	3.7%	87,144	6.2% ± *2.9%*	5,400	33.8%
Females, 17 and Under	15.3%	360,985	*** ± ***	***	***
Females, 18 to 34	14.4%	338,620	*** ± ***	***	***
Females, 35 to 49	9.3%	218,087	0.6% ± *0.5%*	1,300	8.1%
Females 50 to 64	6.1%	144,352	1.4% ± *1.4%*	2,100	13.1%
Females, 65 and Over	4.7%	111,215	2.5% ± *1.6%*	2,700	16.9%
Total, All Utahns	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Local Health District[5]					
Bear River	6.1%	143,593	0.5% ± *0.5%*	800	4.8%
Central	2.9%	69,140	*** ± ***	***	***
Davis	10.7%	252,521	0.7% ± *0.6%*	1,800	10.9%
Salt Lake	39.6%	932,365	0.6% ± *0.3%*	5,500	33.3%
Southeastern	2.3%	53,675	*** ± ***	***	***
Southwest	6.5%	154,152	1.9% ± *1.1%*	2,900	17.6%
Summit	1.4%	32,831	*** ± ***	***	***
Tooele	2.0%	46,815	1.2% ± *0.7%*	500	3.0%
TriCounty	1.8%	42,241	*** ± ***	***	***
Utah County	17.0%	400,670	0.5% ± *0.3%*	2,000	12.1%
Wasatch	0.7%	17,179	*** ± ***	***	***
Weber-Morgan	8.9%	209,593	1.0% ± *1.0%*	2,000	12.1%
Total, All Utahns	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Annual Household Income					
Under $20,000	9.9%	232,800	2.2% ± *1.2%*	5,100	31.9%
$20,000 to <$45,000	30.7%	722,400	1.0% ± *0.5%*	6,900	43.1%
$45,000 to <$65,000	23.5%	552,500	0.5% ± *0.4%*	2,600	16.3%
$65,000 and Over	36.0%	847,100	0.2% ± *0.2%*	1,400	8.8%
Total, All Utahns	100.0%	2,354,800	0.7% ± *0.2%*	16,600	100.0%
Health Insurance Coverage					
Insured	90.9%	2,140,300	0.7% ± *0.2%*	14,500	88.4%
Uninsured	9.1%	214,500	*** ± ***	***	***
Total, All Utahns	100.0%	2,354,800	0.7% ± *0.2%*	16,600	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Note: COPD includes emphysema and chronic bronchitis.

*** Insufficient sample size for calculation of population estimates.

Figure 14.1 Percentage of Children Who Had Been Exposed to Cigarette Smoke Inside the Home, Utah Children Age 17 and Under, 2001 and 2003

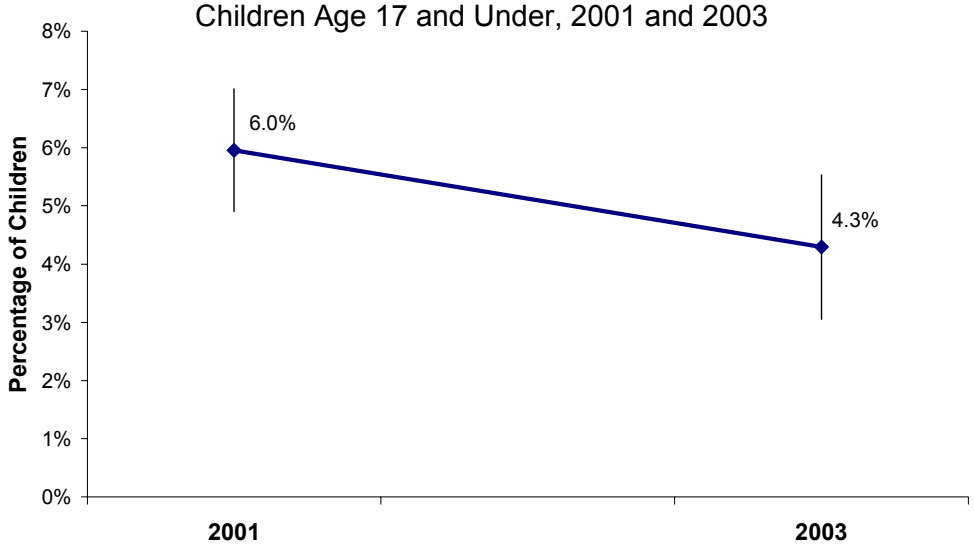
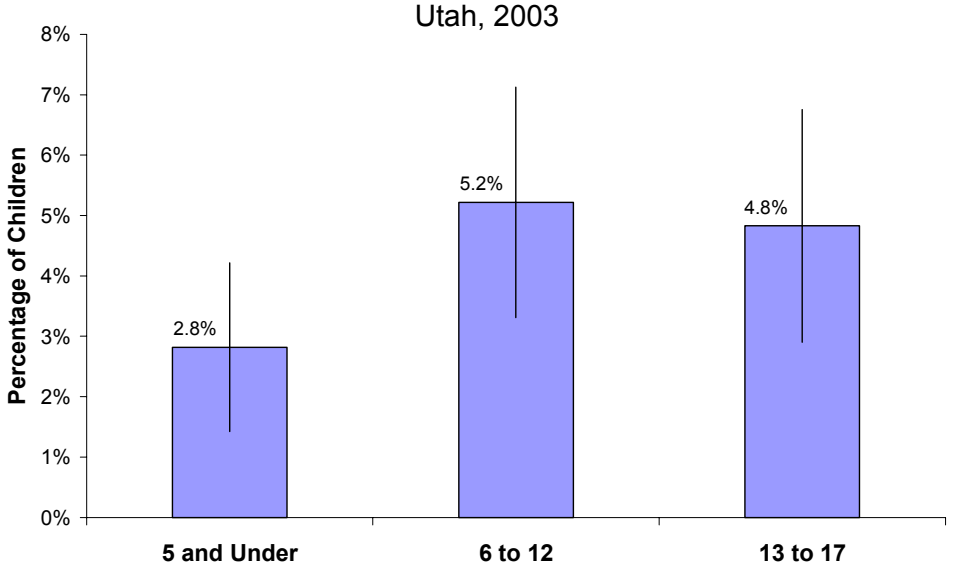


Figure 14.2 Percentage of Children Who Had Been Exposed to Cigarette Smoke Inside the Home by Age, Utah, 2003



- There was a decrease in the percentage of children 17 and under who were exposed to cigarette smoke in the home between 2001 and 2003.
- Children aged 6 to 12 were the most likely to be exposed to cigarette smoke in the home, followed by those 13 to 17.

Table 14. Exposure to Cigarette Smoke: Percentage of Children Who Had Been Exposed to Cigarette Smoke Inside the Home
Utah Children Age 17 or Less, 2003.

	Utah Population Distribution		Survey Estimates of Children Who Had Been Exposed to Cigarette Smoke Inside the Home		
Demographic Subgroup	Percentage Distribution	Number of Children[1]	Percentage of Children Who Had Been Exposed to Cigarette Smoke[2]	Number of Children[3,4]	Percentage Distribution of Children Who Had Been Exposed to Cigarette Smoke by Category[4]
2003 Utah Population, Age 17 and Under	100.0%	742,867	4.3% ± *1.2%*	31,900	100.0%
Age Group					
5 and Under	37.2%	276,019	2.8% ± *1.4%*	7,800	24.8%
6 to 12	36.9%	273,899	5.2% ± *1.9%*	14,300	45.5%
13 to 17	26.0%	192,949	4.8% ± *1.9%*	9,300	29.6%
Total, All Utahns Age 17 and Under	100.0%	742,867	4.3% ± *1.2%*	31,900	100.0%
Local Health District[5]					
Bear River	6.2%	46,331	2.7% ± *2.6%*	1,300	4.1%
Central	3.0%	22,482	7.4% ± *6.0%*	1,700	5.3%
Davis	11.3%	84,172	2.8% ± *3.2%*	2,400	7.5%
Salt Lake	37.8%	280,441	5.8% ± *2.6%*	16,100	50.6%
Southeastern	2.2%	16,456	5.0% ± *3.9%*	800	2.5%
Southwest	6.4%	47,210	3.0% ± *3.1%*	1,400	4.4%
Summit	1.2%	9,015	*** ± ***	***	***
Tooele	2.1%	15,702	7.7% ± *5.0%*	1,200	3.8%
TriCounty	1.9%	13,866	9.5% ± *6.5%*	1,300	4.1%
Utah County	18.6%	137,986	*** ± ***	***	***
Wasatch	0.7%	5,469	7.6% ± *6.3%*	400	1.3%
Weber-Morgan	8.6%	63,737	5.3% ± *4.9%*	3,400	10.7%
Total, All Utahns Age 17 and Under	100.0%	742,867	4.3% ± *1.2%*	31,900	100.0%
Annual Household Income					
Under $20,000	8.4%	62,400	9.5% ± *5.8%*	5,900	17.9%
$20,000 to <$45,000	29.6%	219,800	6.3% ± *2.8%*	13,900	42.1%
$45,000 to <$65,000	24.7%	183,300	4.9% ± *3.1%*	9,000	27.3%
$65,000 and Over	37.3%	277,400	1.5% ± *1.2%*	4,200	12.7%
Total, All Utahns Age 17 and Under	100.0%	742,900	4.3% ± *1.2%*	31,900	100.0%
Health Insurance Coverage					
Insured	92.7%	688,400	4.1% ± *1.3%*	28,200	89.0%
Uninsured	7.3%	54,500	6.5% ± *5.2%*	3,500	11.0%
Total, All Utahns Age 17 and Under	100.0%	742,900	4.3% ± *1.2%*	31,900	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

*** Insufficient sample size for calculation of population estimates.

Figure 15.1 Percentage of Adults Who Were Obese, Utah Adults Age 18 and Over, 1991, 1996, 2001, and 2003

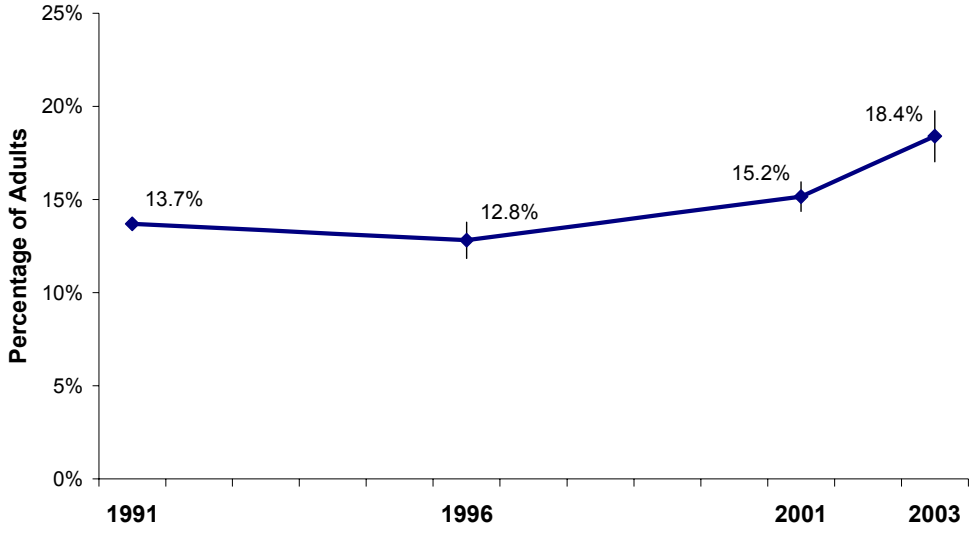
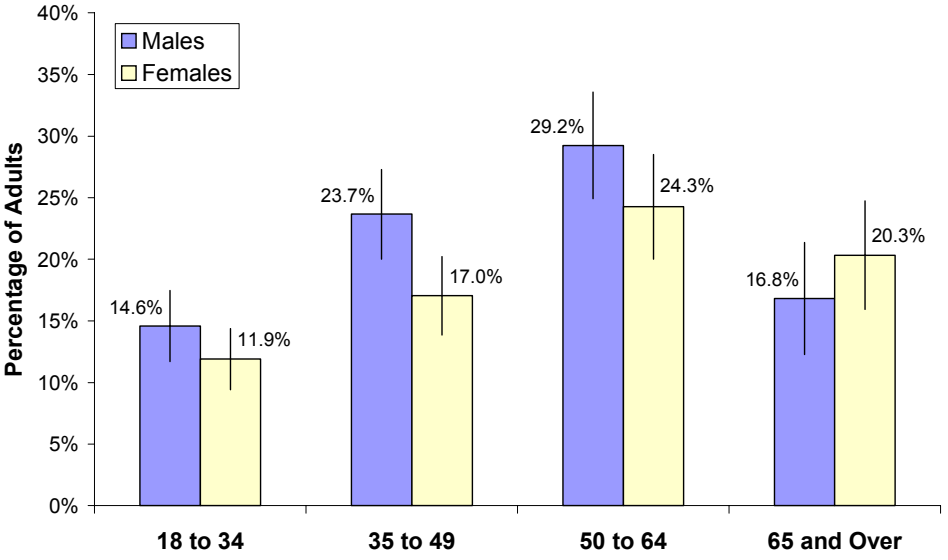


Figure 15.2 Percentage of Adults Who Were Obese by Age and Sex, Utah, 2003



Note: Obesity was defined as a body mass index (BMI) of 30 or more. BMI is calculated by dividing weight in kilograms by the square of height in meters. For example, a person who is 5'8" is considered obese if he or she weighs 197.5 or more pounds.

- Nearly one in five of all adult Utahns were obese in 2003, almost 300,000 persons.
- Those aged 50 to 64 were most likely to be obese regardless of sex. One third of males and one quarter of females aged 50 to 64 were obese.

Table 15. Obesity: Percentage of Adults Who Were Obese
by Selected Demographic Characteristics, Utah Residents, Age 18 and Over, 2003.

	Utah Population Distribution		Survey Estimates of Adults Who Were Obese		
Demographic Subgroup	Percentage Distribution	Number of Adults[1]	Percentage of Adults Who Were Obese[2]	Number of Adults[3,4]	Percentage Distribution of Adults Who Were Obese by Subgroup[4]
2003 Utah Population, Adults 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.0%
Sex					
Male	49.6%	799,634	20.0% ± *1.9%*	160,100	54.2%
Female	50.4%	812,274	16.7% ± *1.8%*	135,400	45.8%
Total, All Utahns Age 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.0%
Age Group					
18 to 34	42.5%	685,764	13.3% ± *1.9%*	91,200	30.9%
35 to 49	27.4%	442,006	20.5% ± *2.5%*	90,700	30.7%
50 to 64	17.7%	285,779	26.8% ± *3.2%*	76,500	25.9%
65 and Over	12.3%	198,359	18.7% ± *3.2%*	37,000	12.5%
Total, All Utahns Age 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.0%
Sex and Age					
Males, 18 to 34	21.5%	347,144	14.6% ± *2.9%*	50,600	17.2%
Males, 35 to 49	13.9%	223,919	23.7% ± *3.6%*	53,000	18.0%
Males 50 to 64	8.8%	141,427	29.2% ± *4.3%*	41,300	14.0%
Males, 65 and Over	5.4%	87,144	16.8% ± *4.5%*	14,700	5.0%
Females, 18 to 34	21.0%	338,620	11.9% ± *2.5%*	40,300	13.7%
Females, 35 to 49	13.5%	218,087	17.0% ± *3.2%*	37,200	12.6%
Females 50 to 64	9.0%	144,352	24.3% ± *4.3%*	35,000	11.9%
Females, 65 and Over	6.9%	111,215	20.3% ± *4.4%*	22,600	7.7%
Total, All Utahns Age 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.0%
Local Health District[5]					
Bear River	6.0%	97,262	16.5% ± *4.0%*	16,100	5.4%
Central	2.9%	46,658	20.7% ± *4.7%*	9,600	3.2%
Davis	10.4%	168,349	19.2% ± *4.5%*	32,400	10.9%
Salt Lake	40.4%	651,924	19.6% ± *2.6%*	127,700	43.1%
Southeastern	2.3%	37,219	17.8% ± *4.2%*	6,600	2.2%
Southwest	6.6%	106,942	17.9% ± *4.5%*	19,100	6.5%
Summit	1.5%	23,816	9.0% ± *3.1%*	2,100	0.7%
Tooele	1.9%	31,113	24.6% ± *4.5%*	7,600	2.6%
TriCounty	1.8%	28,375	21.8% ± *4.6%*	6,200	2.1%
Utah County	16.3%	262,684	16.4% ± *2.9%*	43,100	14.6%
Wasatch	0.7%	11,710	15.1% ± *3.7%*	1,800	0.6%
Weber-Morgan	9.0%	145,856	16.3% ± *4.0%*	23,800	8.0%
Total, All Utahns Age 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.1%
Annual Household Income					
Under $20,000	10.6%	170,600	21.0% ± *4.5%*	35,800	12.0%
$20,000 to <$45,000	31.2%	502,500	20.4% ± *2.7%*	102,500	34.2%
$45,000 to <$65,000	22.8%	368,200	20.0% ± *3.0%*	73,500	24.5%
$65,000 and Over	35.4%	570,600	15.4% ± *2.2%*	87,600	29.3%
Total, All Utahns Age 18+	100.0%	1,611,900	18.4% ± *1.4%*	296,500	100.0%
Health Insurance Coverage					
Insured	90.0%	1,451,200	18.3% ± *1.4%*	266,200	89.0%
Uninsured	10.0%	160,700	20.5% ± *4.5%*	33,000	11.0%
Total, All Utahns Age 18+	100.0%	1,611,900	18.4% ± *1.4%*	296,500	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

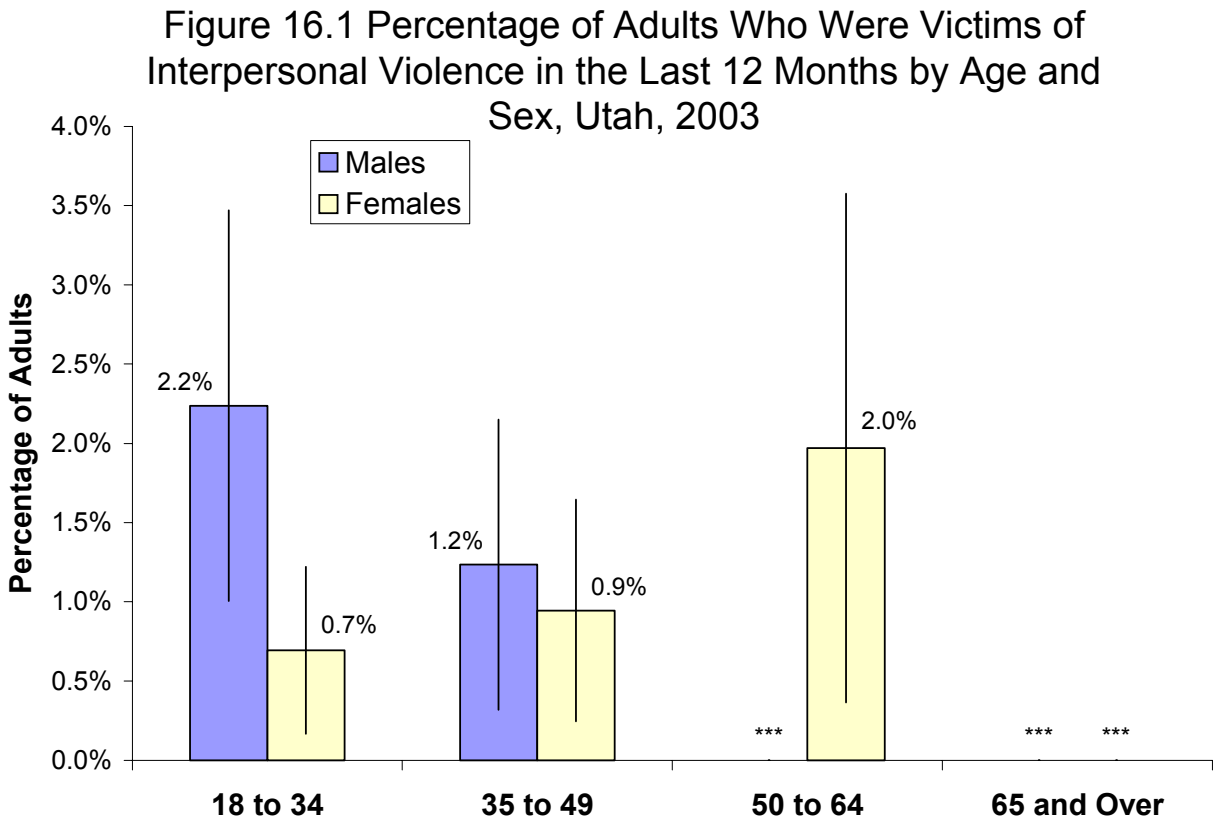
2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Note: Obesity was defined as a body mass index (BMI) of 30 or more. BMI is calculated by dividing weight in kilograms by the square of height in meters. For example, a person who is 5'8" is considered obese if he or she weighs 197.5 or more pounds.



Note: Interpersonal Violence was defined as any intentional hit, slap, push, or kick to a person, or any other intentional hurt inflicted to a person, during the last 12 months.
*** Insufficient sample size for calculation of population estimates.

- Males were more likely to be victims of interpersonal violence at younger ages (18-34), whereas females were more likely to be victims as age increased.
- Overall, nearly 20,000 Utahns had been victims of interpersonal violence in the 12 months prior to the survey interview.

Table 16. Interpersonal Violence: Percentage of Adults Who Were Victims of Interpersonal Violence in the Last 12 Months
by Selected Demographic Characteristics, Utah Residents, Age 18 and Over, 2003.

	Utah Population Distribution		Survey Estimates of Utah Adults Who Were Injured		
Demographic Subgroup	Percentage Distribution	Number of Adults[1]	Percentage of Adults Who Were Injured[2]	Number of Adults[3,4]	Percentage Distribution of Adults Who Were Injured by Subgroup[4]
2003 Utah Population, Adults 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%
Sex					
Male	49.6%	799,634	1.3% ± *0.6%*	10,800	59.0%
Female	50.4%	812,274	0.9% ± *0.4%*	7,500	41.0%
Total, All Utahns Age 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%
Age Group					
18 to 34	42.5%	685,764	1.5% ± *0.7%*	10,100	55.8%
35 to 49	27.4%	442,006	1.1% ± *0.6%*	4,800	26.5%
50 to 64	17.7%	285,779	1.1% ± *0.8%*	3,100	17.1%
65 and Over	12.3%	198,359	*** ± ***	***	***
Total, All Utahns Age 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%
Sex and Age					
Males, 18 to 34	21.5%	347,144	2.2% ± *1.2%*	7,800	43.1%
Males, 35 to 49	13.9%	223,919	1.2% ± *0.9%*	2,800	15.5%
Males 50 to 64	8.8%	141,427	*** ± ***	***	***
Males, 65 and Over	5.4%	87,144	*** ± ***	***	***
Females, 18 to 34	21.0%	338,620	0.7% ± *0.5%*	2,300	12.7%
Females, 35 to 49	13.5%	218,087	0.9% ± *0.7%*	2,100	11.6%
Females 50 to 64	9.0%	144,352	2.0% ± *1.6%*	2,800	15.5%
Females, 65 and Over	6.9%	111,215	*** ± ***	***	***
Total, All Utahns Age 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%
Local Health District[5]					
Bear River	6.0%	97,262	*** ± ***	***	***
Central	2.9%	46,658	*** ± ***	***	***
Davis	10.4%	168,349	*** ± ***	***	***
Salt Lake	40.4%	651,924	1.4% ± *0.8%*	9,100	49.7%
Southeastern	2.3%	37,219	*** ± ***	***	***
Southwest	6.6%	106,942	1.0% ± *0.9%*	1,100	6.0%
Summit	1.5%	23,816	*** ± ***	***	***
Tooele	1.9%	31,113	*** ± ***	***	***
TriCounty	1.8%	28,375	*** ± ***	***	***
Utah County	16.3%	262,684	1.0% ± *0.7%*	2,500	13.7%
Wasatch	0.7%	11,710	0.9% ± *0.9%*	100	0.5%
Weber-Morgan	9.0%	145,856	*** ± ***	***	***
Total, All Utahns Age 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%
Annual Household Income					
Under $20,000	10.6%	170,600	1.4% ± *1.1%*	2,400	12.3%
$20,000 to <$45,000	31.2%	502,500	1.5% ± *0.9%*	7,800	40.0%
$45,000 to <$65,000	22.8%	368,200	1.0% ± *0.9%*	3,900	20.0%
$65,000 and Over	35.4%	570,600	0.9% ± *0.7%*	5,400	27.7%
Total, All Utahns Age 18+	100.0%	1,611,900	1.1% ± *0.4%*	18,200	100.0%
Health Insurance Coverage					
Insured	90.0%	1,451,200	0.9% ± *0.4%*	13,600	74.7%
Uninsured	10.0%	160,700	2.9% ± *1.9%*	4,600	25.3%
Total, All Utahns Age 18+	100.0%	1,611,900	1.1% ± *0.4%*	18,200	100.0%

1 Population estimates of sex, age groups, and LHD based on 2003 Baseline Projections, Governor's Office of Planning and Budget, UPED Model System; all others based on the 2003 UHSS and rounded to the nearest 100 persons.

2 Plus or minus 95% confidence interval.

3 Rounded to the nearest 100 persons.

4 Figures in these columns may not sum to the total because of data weighting and missing values on the grouping variables.

5 These rates have not been age-adjusted. Age-adjusted rates are available upon request.

Note: Interpersonal Violence was defined as any intentional hit, slap, push, or kick to a person, or any other intentional hurt inflicted to a person, during the last 12 months.

*** Insufficient sample size for calculation of population estimates.

Technical Notes

General Technical Background to the 2003 Health Status Survey

Introduction

The purpose of this section is to provide the reader with a general methodological overview of the project. Persons interested in obtaining additional or more detailed information may contact:

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Center for Health Data
Utah Department of Health
P O Box 142101
Salt Lake City, UT 84114-2101
Phone: (801) 538-6108
E-mail: phdata@utah.gov

Sample Design

The 2003 Utah Health Status Survey represents the fifth such survey: previous surveys were conducted in 1986, 1991, 1996, and 2001. The statistical estimates in this report are based on *2003 Utah Health Status Survey* data.

The sample was a **complex survey sample** designed to be representative of all Utahns. It is best described as a weighted probability sample of 3,175 households disproportionately stratified by twelve local health districts that cover the entire state. The sample was stratified so that the survey estimates could be provided for each local health district.

		Unweighted Counts	
	Health District/Small Area	Households	Persons
1	Bear River Health District	201	675
2	Central Utah Health District	210	664
3	Davis County Health District	196	658
4	Salt Lake Valley Health District	704	2,163
5	Southeastern Utah Health District	213	621
6	Southwest Utah Health District	204	618
7	Summit County Health District	195	550
8	Tooele County Health District	233	755
9	TriCounty Health District	205	590
10	Utah County Health District	390	1,379
11	Wasatch County Health District	214	691
12	Weber-Morgan Health District	210	594
	State Total	3,175	9,958

A **single stage, non-clustered, equal probability of selection telephone calling design**, more specifically referred to as the Casady-Lepkowski (1993) calling design, was used to generate telephone numbers in each local health district. This method begins by building a base sampling frame consisting of all possible telephone numbers from all working prefixes in Utah. Telephone

numbers are arranged sequentially into groups of 100 by selecting all telephone numbers within an area code and prefix, plus the first and second digits of the suffix (e.g., 801-538-10XX represents a group that includes all 100 phone numbers between 801-538-1000 and 801-538-1099). Each group of 100 telephone numbers is classified as either high density (at least one residential listing) or low density (no listed residential phone numbers in the group). All low density groups are removed, and high density groups are retained. Telephone numbers are randomly selected from the high-density list. This sampling design ensures that both listed and unlisted phone numbers are included in the sample.

The Utah Department of Health Survey Center collected the survey data. The survey interview was conducted with **one randomly selected adult** (age 18 or older) in each household. To select this person, interviewers collected household membership information from the household contact person (the person who answered the phone). The adult household member who had celebrated the most recent birthday was then selected from the list of all household members age 18 or over. Survey questions were then asked of the respondent about either, 1) all household members, 2) the survey respondent only, 3) a randomly selected adult or child household member (used only in the injuries section), or 4) the household as a whole. Data were collected on all household members through the respondent. Thus, the survey sample varies, depending on the within-household sample that was used for each set of survey questions. Each within-household sample has known probabilities of selection and has been weighted appropriately so it can be generalized to the Utah population.

Questionnaire Construction

The 2003 Utah Health Status Survey was based on the 2001 and 1996 Utah Health Status Survey questionnaires. For the 2003 questionnaire, some changes were made based on input from the Health Surveys Advisory Committee and the Health Status Survey staff. These changes were made in order to obtain more detailed information and to allow for comparison with large, federal surveys, such as the Current Population Survey (CPS). The entire survey questionnaire may be found on-line at http://health.utah.gov/ibis-ph/opha_pubs.html.

Survey Data Collection

The Utah Department of Health Survey Center integrated the survey questionnaire into a **computer-assisted telephone interviewing (CATI)** software program. Interviews were conducted by trained interviewers in a supervised and monitored environment at the Utah Department of Health Survey Center.

Computer assisted telephone interviewing was chosen as the method of data collection for several reasons. First, it yields high response rates, thus resulting in a more representative sample and reducing the amount of bias inherent in mail survey response rates. Second, it helps reduce non-sampling error by standardizing the data collection process. Data-entry errors are reduced because interviewers are not allowed to enter non-valid codes. It was also efficient because it allowed interviewers to enter responses directly into the database.

Response Rate

The interview process took place over a ten-month period (from March to December, 2003), and resulted in a response rate of 65.9%. If necessary, up to fifteen telephone attempts were made to contact a selected household.

Weighting Methods

Post-survey weighting adjustments were made so that the Health Status Survey findings could be more accurately generalized to Utah's population. Two types of post-survey weighting adjustments were made: one that adjusted for random sampling variation and one that adjusted for disproportionate sampling (such as the over-sampling of the smaller local health districts across the state). Although the two types of adjustments are distinct conceptually, they are accomplished in a series of steps that does not distinguish between the two types.

The post-survey weighting variables adjusted for the following factors:

1. The number of **phone lines** in the household.
2. The total **number of adults in the household** (for questions that were asked only of the respondent, but were meant to be generalized to all adults in the household).
3. The proportion of **Hispanic persons** in each local health district.
4. The population **age and sex** distribution of each local health district.
5. The probabilities of selection for each **local health district**.

Calculation of Survey Estimates

Population count estimates. Once a percentage was calculated for a variable of interest (e.g., the percentage uninsured) using appropriately weighted survey data, it was applied to a population count to derive the estimate for the number of Utahns affected. In some cases analyses referenced certain age or sex groups, Hispanic persons or combinations of Utah counties. The population count estimates for these groups were readily available from the Utah Governor's Office of Planning and Budget. However, for other groups where population counts were largely unavailable (e.g., analyses that examined the distribution of adult males by marital status), survey data were used to estimate the population counts. This was achieved by multiplying the appropriate 2003 population total for that group (from 2003 GOPB estimates) by a proportion obtained from a frequency distribution or cross tabulation analysis of Utah Health Status Survey data. For instance, to calculate a population count for adult males who were married, the population of adult males from GOPB estimates was multiplied by percentage of married adult males in the 2003 Utah Health Status Survey sample. Thus, any population count estimates not derived directly from existing age, sex, Hispanic status or county population estimates were derived from 2003 Health Status Survey data, and were rounded to the nearest 100 persons.

Missing Values. Another consideration that affected the presentation of the population estimates in table format was the inclusion or exclusion of missing values ("don't know" and "refused to answer"). Population percentage estimates were calculated after removing the "don't know" and "refused to answer" responses from the denominator. This, in effect, assumes that persons who gave those answers were distributed identically on the variable of interest to those who gave a valid answer to that variable. For instance, that among those who did not know whether they were insured, we assumed that 90.9% of them were insured and 9.1% were not insured—percentages identical to those found among the sample members who answered the question with a valid response.

Readers may have noticed that the numbers in the last two columns of the reference tables do not always sum to the total as they should. This was unavoidable for two reasons:

1) If there were missing values on the demographic grouping variable, the sum of the parts is derived from a slightly different sample than the estimate for the overall number.
2) The post-survey weighting adjustments cause certain irregularities in the tables.

Limitations and Other Special Considerations

Estimates developed from the sample may differ from the results of a complete census of all households in Utah due to two types of error, sampling and non-sampling error. Each type of error is present in estimates based on a survey sample. Good survey design and data collection techniques serve to minimize both sources of error.

Sampling error refers to random variation that occurs because only a subset of the entire population is sampled and used to estimate the finding, or parameter, in the entire population. It is often termed "margin of error" in popular use. Sampling error has been expressed in this report as a confidence interval. The 95% confidence interval (calculated as 1.96 times the standard error of a statistic) indicates the range of values within which the statistic would fall 95% of the time if the researcher were to calculate the statistic (e.g., a percentage) from an infinite number of samples of the same size drawn from the same base population. It is typically expressed as the "plus or minus" term, as in the following example:

> "The percentage of those polled who said they would vote for George W. Bush was 47%, plus or minus 2%".

Because the sample was clustered within households, and because local health districts were disproportionately stratified and then weighted to reflect the Utah population, the sample is considered a complex survey sample design. Estimating the sampling error for a complex survey design requires special statistical techniques. SAS software, using "proc surveymeans," was used to estimate the standard errors of the survey estimates because it employs a statistical routine (Taylor-series expansion) that accounts for the complex survey design.

Figures in this report include error bars showing this estimated confidence interval around the parameter estimate. In cases where the confidence interval was greater in magnitude than the estimate, the estimate was not given. Additionally, estimates were not computed where the sample denominators were less than n=50. Readers should note that we have always presented the confidence interval as though it were symmetric, that is, of equal value both above and below (plus and minus) the estimate. It is often the case, however, that a confidence interval will be nonsymmetric. This occurs when the distribution is positively or negatively skewed, such as when a percentage is close to 0% or 100%. However, because the software program we use provides only symmetric confidence intervals, we have not provided the asymmetric estimates.

Non-sampling error also exists in survey estimates. Sources of non-sampling error include idiosyncratic interpretation of survey questions by respondents, variations in interviewer technique, household non-response to questions, coding errors, and so forth. No specific efforts were made to quantify the magnitude of non-sampling error. Non-sampling error was minimized by good questionnaire design, use of standardization in interviewer behavior and frequent, on-site, interviewer monitoring and supervision.

Comparability with other surveys is an issue with all surveys. Differences in survey design, survey questions, estimation procedures, the socio-demographic and economic context, and changes in the structure and financing of the health care delivery system may all affect comparison between the 2003 Utah Health Status Survey and other surveys, including those conducted by the U.S. Bureau of the Census, the Behavioral Risk Factor Surveillance System surveys, and previous Utah Department of Health, Health Status Surveys.

Telephone surveys exclude certain population segments from the sampling frame, such as persons in group living quarters (e.g., military barracks, nursing homes) and households without telephones. At the time of the 2000 Decennial Census, only two percent of Utah households were without telephone service. Typically, telephone surveys are biased because telephone households under-represent lower income and certain minority populations. In addition, studies have shown that non-telephone households tend to have lower rates of health care utilization (especially dental care), poorer health habits and health status, and lower rates of health insurance coverage (Thornberry and Massey, 1988).

Despite these overall disparities between telephone and non-telephone households, the Utah Health Status Survey estimates may be considered adequately representative of all Utah households. Certain research (Keeter, 1995) suggests that a similarity exists between data from non-telephone households and telephone households that experienced an interruption in service over the past 12 months. This similarity exists because many, if not most, households currently without telephones did have service in the recent past, and will have service again in the future. Therefore, certain households with telephones (those that had a recent interruption in service) are representative of "non-phone" households, allowing health status survey estimates to be corrected for telephone non-coverage bias. This correction has typically not been made, and will be clearly indicated when it is used.

Appendix A:
Comparison of 2001 and 2003 Health Status Survey Results: Overview Report

Comparison of 2001 and 2003 Health Status Survey Results: Overview Report

Demographic Subgroup	Utah Population Distribution: Percentage Distribution	Utah Population Distribution: Number of Persons[1]	Survey Estimates of Utahns: Percentage of Persons	Survey Estimates of Utahns: Number of Persons[3,4]	Survey Estimates of Utahns: Percentage Distribution of Persons
Table 1. General Health Status: Percentage of Persons Who Were in Fair or Poor Health					
1996 Utah Population	100.0%	1,991,800	8.6% ± *0.7%*	171,300	100.0%
2001 Utah Population	100.0%	2,295,967	9.1% ± *0.5%*	207,900	100.0%
2003 Utah Population	100.0%	2,354,775	8.3% ± *0.8%*	196,500	100.0%
Table 2. General Physical Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Physical Health					
1996 Utah Population, Adults 18+	100.0%	1,343,195	21.4% ± *1.6%*	287,400	100.0%
2001 Utah Population, Adults 18+	100.0%	1,565,550	23.1% ± *1.3%*	361,900	100.0%
2003 Utah Population, Adults 18+	100.0%	1,611,908	21.9% ± *2.0%*	352,600	100.0%
Table 3. General Mental Functional Status: Percentage of Adults Who Accomplished Less as a Result of Their Mental Health					
1996 Utah Population, Adults 18+	100.0%	1,343,195	14.9% ± *1.4%*	200,100	100.0%
2001 Utah Population, Adults 18+	100.0%	1,565,550	14.6% ± *1.1%*	228,600	100.0%
2003 Utah Population, Adults 18+	100.0%	1,611,908	13.6% + *1.6%*	219,500	100.0%
Table 4a. Health Insurance: Percentage of Persons With No Health Insurance Coverage					
2001 Utah Population	100.0%	2,295,967	8.7% ± *0.8%*	199,100	100.0%
2003 Utah Population	100.0%	2,354,775	9.1% ± *1.2%*	214,500	100.0%
Table 4b. Health Insurance Carrier: Percentage of Persons With Each Type of Health Insurance					
2001 Utah Insured Population					
Current or Former Employer or Union		2,096,900	71.5% ± *1.3%*	1,640,500	
Purchased Directly From an Insurance Company		2,096,900	9.8% ± *0.8%*	224,300	
Through Someone Not Living in Household		2,096,900	3.2% ± *0.4%*	73,000	
Medicaid		2,096,900	6.0% ± *0.6%*	137,700	
Medicare		2,096,900	9.2% ± *0.6%*	211,400	
CHIP		2,096,900	1.2% ± *0.3%*	28,100	
Other Government Plan		2,096,900	3.7% ± *0.5%*	84,000	
2003 Utah Insured Population					
Current or Former Employer or Union		2,140,300	70.8% ± *2.1%*	1,668,100	
Purchased Directly From an Insurance Company		2,140,300	9.6% ± *1.3%*	225,400	
Through Someone Not Living in Household		2,140,300	3.2% ± *0.7%*	75,700	
Medicaid		2,140,300	7.2% ± *1.0%*	170,500	
Medicare		2,140,300	8.5% ± *0.8%*	199,900	
CHIP		2,140,300	1.0% ± *0.4%*	23,800	
Other Government Plan		2,140,300	3.7% ± *0.7%*	87,200	

Comparison of 2001 and 2003 Health Status Survey Results: Overview Report (continued)

Demographic Subgroup	Utah Population Distribution: Percentage Distribution	Utah Population Distribution: Number of Persons[1]	Survey Estimates of Utahns: Percentage of Persons	Survey Estimates of Utahns: Number of Persons[3,4]	Survey Estimates of Utahns: Percentage Distribution of Persons
Table 4c. Reasons for Lack of Health Insurance: Percentage of Persons Who Gave Each Reason as a Reason That They Lacked Health Insurance					
2001, Persons Who Lacked Health Insurance Coverage					
Cannot Afford Insurance		199,100	52.1% ± *4.7%*	103,600	
Employer Does Not Offer Insurance		199,100	33.1% ± *4.4%*	65,800	
Lost Job		199,100	29.5% ± *4.0%*	58,700	
Don't Need/Don't Want Insurance		199,100	21.5% ± *3.7%*	42,900	
Employed Part Time		199,100	14.6% ± *2.7%*	29,100	
Lost Eligibility		199,100	6.9% ± *1.9%*	13,800	
Insurance Company Refused to Cover		199,100	3.6% ± *1.2%*	7,200	
2003, Persons Who Lacked Health Insurance Coverage					
Cannot Afford Insurance		214,500	66.3% ± *6.5%*	142,200	
Employer Does Not Offer Insurance		214,500	29.0% ± *6.6%*	62,100	
Lost Job		214,500	47.5% ± *7.1%*	101,800	
Don't Need/Don't Want Insurance		214,500	16.6% ± *4.9%*	35,500	
Employed Part Time		214,500	17.5% ± *5.1%*	37,600	
Lost Eligibility		214,500	9.6% ± *3.6%*	20,600	
Insurance Company Refused to Cover		214,500	7.8% ± *3.1%*	16,700	
Table 5. Access to Health Care: Percentage of Persons Who Were Unable to Get Needed Medical, Dental, or Mental Health Care in the Previous 12 Months					
2001 NOT COMARABLE with 2003	N/A	N/A	N/A	N/A	N/A
2003 Utah Population	100.0%	2,354,775	18.0% ± *1.3%*	422,700	100.0%
Table 6. Health Care Utilization: Average Number of Medical Visits in the Previous 12 Months					
1996 Utah Population	100.0%	1,991,800	3.4 ± *0.4*	6,831,900	100.0%
2001 Utah Population	100.0%	2,295,967	3.7 ± *0.1*	8,406,900	100.0%
2003 Utah Population	100.0%	2,354,775	3.7 ± *0.1*	8,756,400	100.0%
Table 7. Preventive Medical Visit: Percentage of Persons Who Received a Routine Medical Check-Up in the Previous 12 Months					
1996 Utah Population	100.0%	1,991,800	55.8% ± *5.5%*	1,110,400	100.0%
2001 Utah Population	100.0%	2,295,967	70.7% ± *1.1%*	1,623,300	100.0%
2003 Utah Population	100.0%	2,354,775	69.4% ± *1.6%*	1,635,100	100.0%
Table 8. Place of Care: Percentage of Persons Who Had No Usual Place of Medical Care					
2001 Utah Population	100.0%	2,295,967	8.8% ± *0.7%*	202,900	100.0%
2003 Utah Population	100.0%	2,354,775	7.9% ± *1.0%*	184,900	100.0%
Table 9. Point of Access to Medical Care: Percentage of Persons Whose Usual Point of Access to Medical Care Was a Hospital Emergency Department or an Urgent Care Center					
2001 Utah Population	100.0%	2,295,967	4.1% ± *0.5%*	94,300	100.0%
2003 Utah Population	100.0%	2,354,775	6.1% ± *1.0%*	143,600	100.0%

Comparison of 2001 and 2003 Health Status Survey Results: Overview Report (continued)

Demographic Subgroup	Utah Population Distribution: Percentage Distribution	Utah Population Distribution: Number of Persons[1]	Survey Estimates of Utahns: Percentage of Persons	Survey Estimates of Utahns: Number of Persons[3,4]	Survey Estimates of Utahns: Percentage Distribution of Persons
Table 10. Arthritis: Percentage of Persons Who Have Ever Been Diagnosed With Arthritis					
2001 Utah Population	100.0%	2,295,967	11.5% ± *0.6%*	264,400	100.0%
2003 Utah Population	100.0%	2,354,775	12.0% ± *0.9%*	282,300	100.0%
Table 11. Asthma: Percentage of Persons Who Had Ever Been Diagnosed With Asthma					
2001 NOT COMARABLE with 2003	N/A	N/A	N/A N/A	N/A	N/A
2003 Utah Population	100.0%	2,354,775	9.8% ± *0.8%*	229,600	100.0%
Table 12. Diabetes: Percentage of Persons Who Had Been Diagnosed With Diabetes					
1996 Utah Population	100.0%	1,991,800	2.9% ± *0.4%*	58,000	100.0%
2001 Utah Population	100.0%	2,295,967	3.5% ± *0.3%*	79,800	100.0%
2003 Utah Population	100.0%	2,354,775	3.7% ± *0.5%*	87,000	100.0%
Table 13. Chronic Obstructive Pulmonary Disease: Percentage of Persons Currently Under Medical Care for Chronic Obstructive Pulmonary Disease (COPD)					
1996 Utah Population	100.0%	1,991,800	1.0% ± *0.2%*	19,500	100.0%
2001 Utah Population	100.0%	2,295,967	1.1% ± *0.2%*	25,000	100.0%
2003 Utah Population	100.0%	2,354,775	0.7% ± *0.2%*	16,600	100.0%
Table 14. Exposure to Cigarette Smoke: Percentage of Children Who Had Been Exposed to Cigarette Smoke Inside the Home					
2001 Utah Population, Age 17 & Under	100.0%	730,417	6.0% ± *1.1%*	43,500	100.0%
2003 Utah Population, Age 17 & Under	100.0%	742,867	4.3% ± *1.2%*	31,900	100.0%
Table 15. Obesity: Percentage of Adults Who Were Obese					
1986 Utah Population, Adults 18+	100.0%	1,063,391	7.0% ± *N/A*	74,500	100.0%
1991 Utah Population, Adults 18+	100.0%	1,137,323	13.7% ± *N/A*	155,800	100.0%
1996 Utah Population, Adults 18+	100.0%	1,343,195	12.8% ± *1.0%*	172,100	100.0%
2001 Utah Population, Adults 18+	100.0%	1,565,550	15.2% ± *0.8%*	237,300	100.0%
2003 Utah Population, Adults 18+	100.0%	1,611,908	18.4% ± *1.4%*	296,500	100.0%
Table 16. Interpersonal Violence: Percentage of Adults Who Were Victims of Interpersonal Violence in the last 12 Months					
Not on 2001 Survey	N/A	N/A	N/A N/A	N/A	N/A
2003 Utah Population, Adults 18+	100.0%	1,611,908	1.1% ± *0.4%*	18,300	100.0%

Appendix B:
Selected Demographic Characteristics of Utahns

Table A-1. Utah Population Estimates
by Sex, Age, and Local Health District. 1996, 2000-2006.

	Utah Population Totals								Percentage Distribution
Demographic Subgroup	1996	2000	2001	2002	2003	2004	2005	2006	2003
Utah Population Total	2,042,889	2,246,553	2,295,964	2,321,707	2,354,775	2,411,619	2,464,633	2,519,875	100.0%
Sex									
Males	1,018,183	1,125,727	1,150,879	1,164,525	1,181,516	1,210,698	1,238,093	1,266,539	50.2%
Females	1,024,706	1,120,826	1,145,085	1,157,182	1,173,259	1,200,921	1,226,540	1,253,336	49.8%
Total, All Utahns	2,042,889	2,246,553	2,295,964	2,321,707	2,354,775	2,411,619	2,464,633	2,519,875	100.0%
Age Group									
17 and Under	689,762	723,028	730,418	734,591	742,867	758,999	776,004	794,479	31.5%
18 to 34	568,771	648,483	669,168	676,800	685,764	702,714	713,292	722,558	29.1%
35 to 49	406,885	433,724	439,987	440,897	442,006	447,560	453,802	462,215	18.8%
50 to 64	202,065	249,995	262,021	273,379	285,779	300,482	315,851	330,888	12.1%
65 and Over	175,406	191,323	194,370	196,040	198,359	201,864	205,684	209,735	8.4%
Total, All Utahns	2,042,889	2,246,553	2,295,964	2,321,707	2,354,775	2,411,619	2,464,633	2,519,875	100.0%
Sex and Age									
Males, 17 and Under	354,179	372,021	375,760	377,783	381,882	390,272	399,007	408,576	16.2%
Males, 18 to 34	285,761	327,964	338,359	342,618	347,144	355,807	361,294	366,176	14.7%
Males, 35 to 49	202,912	218,903	222,338	223,108	223,919	226,896	230,264	234,542	9.5%
Males 50 to 64	98,993	123,127	129,262	135,016	141,427	148,742	156,689	164,404	6.0%
Males, 65 and Over	76,338	83,712	85,160	86,000	87,144	88,981	90,839	92,841	3.7%
Females, 17 and Under	335,583	351,007	354,658	356,808	360,985	368,727	376,997	385,903	15.3%
Females, 18 to 34	283,010	320,519	330,809	334,182	338,620	346,907	351,998	356,382	14.4%
Females, 35 to 49	203,973	214,821	217,649	217,789	218,087	220,664	223,538	227,673	9.3%
Females 50 to 64	103,072	126,868	132,759	138,363	144,352	151,740	159,162	166,484	6.1%
Females, 65 and Over	99,068	107,611	109,210	110,040	111,215	112,883	114,845	116,894	4.7%
Total, All Utahns	2,042,889	2,246,553	2,295,964	2,321,707	2,354,775	2,411,619	2,464,633	2,519,875	100.0%
Local Health District									
Bear River	125,639	136,712	138,600	141,076	143,593	147,364	150,781	154,270	6.1%
Central	61,578	66,506	67,207	68,271	69,140	70,556	71,500	72,466	2.9%
Davis	219,684	240,204	244,844	250,007	252,521	257,664	262,241	267,276	10.7%
Salt Lake	840,646	902,777	918,278	923,931	932,365	950,731	967,390	985,806	39.6%
Southeastern	53,497	54,075	52,817	53,400	53,675	54,322	54,559	54,751	2.3%
Southwest	123,103	142,006	147,369	150,502	154,152	159,513	164,441	169,540	6.5%
Summit	25,049	30,048	31,278	31,986	32,831	34,028	35,162	36,368	1.4%
Tooele	31,431	41,549	44,430	45,617	46,815	48,513	50,119	51,826	2.0%
TriCounty	39,398	40,627	41,640	42,092	42,241	42,880	42,866	43,082	1.8%
Utah County	321,070	371,894	385,690	391,191	400,670	413,751	428,156	441,605	17.0%
Wasatch	13,075	15,433	15,947	16,604	17,179	17,908	18,705	19,465	0.7%
Weber-Morgan	188,719	204,722	207,864	207,030	209,593	214,389	218,713	223,420	8.9%
Total, All Utahns	2,042,889	2,246,553	2,295,964	2,321,707	2,354,775	2,411,619	2,464,633	2,519,875	100.0%

Source: Utah Governor's Office of Planning and Budget (GOPB). Population estimates for future years (projections) were based on the Utah Process Economic and Demographic (UPED) model. Numbers for past years (estimates) were produced by the Utah Population Estimates Committee (UPEC). Retrieved June 25, 2003 from Utah Department of Health, Center for Health Data, Indicator-Based Information System for Public Health Web site: http://ibis.health.utah.gov/.

Table A-2. Utah Population Estimates
by Sex and Local Health District. 1996, 2000-2006.

Demographic Subgroup	Utah Population Totals								Percentage Distribution
	1996	2000	2001	2002	2003	2004	2005	2006	2003
Local Health District and Sex									
Bear River, Male	63,074	67,862	68,865	70,182	71,489	73,397	75,143	76,929	49.8%
Bear River, Female	62,565	68,850	69,735	70,894	72,104	73,967	75,638	77,341	50.2%
Bear River, Total	125,639	136,712	138,600	141,076	143,593	147,364	150,781	154,270	100.0%
Central, Male	30,562	33,548	33,893	34,454	34,910	35,644	36,139	36,649	50.5%
Central, Female	31,016	32,958	33,314	33,817	34,230	34,912	35,361	35,817	49.5%
Central, Total	61,578	66,506	67,207	68,271	69,140	70,556	71,500	72,466	100.0%
Davis, Male	110,783	120,659	123,061	125,714	127,001	129,633	131,980	134,549	50.3%
Davis, Female	108,901	119,545	121,783	124,293	125,520	128,031	130,261	132,727	49.7%
Davis, Total	219,684	240,204	244,844	250,007	252,521	257,664	262,241	267,276	100.0%
Salt Lake, Male	418,655	455,170	463,137	466,104	470,494	479,979	488,608	498,129	50.5%
Salt Lake, Female	421,991	447,607	455,141	457,827	461,871	470,752	478,782	487,677	49.5%
Salt Lake, Total	840,646	902,777	918,278	923,931	932,365	950,731	967,390	985,806	100.0%
Southeastern, Male	26,423	26,734	26,099	26,394	26,538	26,863	26,987	27,091	49.4%
Southeastern, Female	27,074	27,341	26,718	27,006	27,137	27,459	27,572	27,660	50.6%
Southeastern, Total	53,497	54,075	52,817	53,400	53,675	54,322	54,559	54,751	100.0%
Southwest, Male	61,116	70,364	73,099	74,709	76,569	79,280	81,768	84,351	49.7%
Southwest, Female	61,987	71,642	74,270	75,793	77,583	80,233	82,673	85,189	50.3%
Southwest, Total	123,103	142,006	147,369	150,502	154,152	159,513	164,441	169,540	100.0%
Summit, Male	12,744	15,620	16,228	16,579	17,001	17,599	18,167	18,774	51.8%
Summit, Female	12,305	14,428	15,050	15,407	15,830	16,429	16,995	17,594	48.2%
Summit, Total	25,049	30,048	31,278	31,986	32,831	34,028	35,162	36,368	100.0%
Tooele, Male	15,831	20,457	21,994	22,598	23,207	24,074	24,881	25,733	49.6%
Tooele, Female	15,600	21,092	22,436	23,019	23,608	24,439	25,238	26,093	50.4%
Tooele, Total	31,431	41,549	44,430	45,617	46,815	48,513	50,119	51,826	100.0%
TriCounty, Male	19,596	20,421	20,924	21,132	21,205	21,527	21,508	21,604	50.2%
TriCounty, Female	19,802	20,206	20,716	20,960	21,036	21,353	21,358	21,478	49.8%
TriCounty, Total	39,398	40,627	41,640	42,092	42,241	42,880	42,866	43,082	100.0%
Utah County, Male	159,278	184,321	191,115	194,262	199,099	205,852	213,425	220,428	49.7%
Utah County, Female	161,792	187,573	194,575	196,929	201,571	207,899	214,731	221,177	50.3%
Utah County, Total	321,070	371,894	385,690	391,191	400,670	413,751	428,156	441,605	100.0%
Wasatch, Male	6,555	7,842	8,094	8,436	8,728	9,095	9,495	9,874	50.8%
Wasatch, Female	6,520	7,591	7,853	8,168	8,451	8,813	9,210	9,591	49.2%
Wasatch, Total	13,075	15,433	15,947	16,604	17,179	17,908	18,705	19,465	100.0%
Weber-Morgan, Male	93,566	102,729	104,370	103,961	105,275	107,755	109,992	112,428	50.2%
Weber-Morgan, Female	95,153	101,993	103,494	103,069	104,318	106,634	108,721	110,992	49.8%
Weber-Morgan, Total	188,719	204,722	207,864	207,030	209,593	214,389	218,713	223,420	100.0%

Source: Utah Governor's Office of Planning and Budget (GOPB). Population estimates for future years (projections) were based on the Utah Process Economic and Demographic (UPED) model. Numbers for past years (estimates) were produced by the Utah Population Estimates Committee (UPEC). Retrieved June 25, 2003 from Utah Department of Health, Center for Health Data, Indicator-Based Information System for Public Health Web site: http://ibis.health.utah.gov/.

Table A-3. Utah Population Estimates
by Age Group and Local Health District. 1996, 2000-2006.

Demographic Subgroup	Utah Population Totals								Percentage Distribution
	1996	2000	2001	2002	2003	2004	2005	2006	2003
Local Health District and Age Group									
Bear River, 17 and Under	44,941	44,895	45,045	45,588	46,331	47,595	48,946	50,418	32.3%
Bear River, 18 to 34	36,825	43,661	44,772	45,896	46,958	48,316	49,283	50,094	32.7%
Bear River, 35 to 49	22,160	23,585	23,605	23,700	23,663	23,801	23,975	24,236	16.5%
Bear River, 50 to 64	11,381	13,265	13,757	14,384	15,047	15,864	16,653	17,430	10.5%
Bear River, 65 and Over	10,332	11,306	11,421	11,508	11,594	11,788	11,924	12,092	8.1%
Bear River Total	125,639	136,712	138,600	141,076	143,593	147,364	150,781	154,270	100.0%
Central, 17 and Under	20,802	23,220	22,796	22,643	22,482	22,661	22,841	23,086	32.5%
Central, 18 to 34	15,036	14,638	15,502	16,269	17,021	17,817	18,293	18,686	24.6%
Central, 35 to 49	11,812	12,204	12,157	12,231	12,121	12,121	12,043	12,045	17.5%
Central, 50 to 64	6,288	8,574	8,803	9,102	9,403	9,748	10,056	10,310	13.6%
Central, 65 and Over	7,640	7,870	7,949	8,026	8,113	8,209	8,267	8,339	11.7%
Central Total	61,578	66,506	67,207	68,271	69,140	70,556	71,500	72,466	100.0%
Davis, 17 and Under	78,136	84,388	84,043	84,264	84,172	84,973	85,809	86,832	33.3%
Davis, 18 to 34	57,709	62,857	65,393	67,697	68,509	70,245	71,403	72,517	27.1%
Davis, 35 to 49	45,373	48,829	49,542	50,147	50,169	50,625	50,954	51,682	19.9%
Davis, 50 to 64	23,178	26,501	27,741	29,196	30,591	32,301	34,080	35,672	12.1%
Davis, 65 and Over	15,288	17,629	18,125	18,703	19,080	19,520	19,995	20,573	7.6%
Davis Total	219,684	240,204	244,844	250,007	252,521	257,664	262,241	267,276	100.0%
Salt Lake, 17 and Under	277,039	274,920	277,624	278,359	280,441	285,574	290,706	296,418	30.1%
Salt Lake, 18 to 34	222,279	261,552	266,005	265,548	265,712	269,400	270,741	272,228	28.5%
Salt Lake, 35 to 49	183,556	188,770	190,549	190,211	190,073	191,863	193,827	196,618	20.4%
Salt Lake, 50 to 64	86,621	104,499	110,249	115,475	121,034	127,384	133,986	140,692	13.0%
Salt Lake, 65 and Over	71,151	73,036	73,851	74,338	75,105	76,510	78,130	79,850	8.1%
Salt Lake Total	840,646	902,777	918,278	923,931	932,365	950,731	967,390	985,806	100.0%
Southeastern, 17 and Under	18,165	17,624	16,849	16,662	16,456	16,410	16,232	16,063	30.7%
Southeastern, 18 to 34	12,656	11,649	11,525	12,094	12,518	13,039	13,422	13,676	23.3%
Southeastern, 35 to 49	10,892	11,374	10,906	10,728	10,411	10,136	9,790	9,574	19.4%
Southeastern, 50 to 64	5,897	7,364	7,522	7,844	8,168	8,535	8,851	9,062	15.2%
Southeastern, 65 and Over	5,887	6,064	6,015	6,072	6,122	6,202	6,264	6,376	11.4%
Southeastern Total	53,497	54,075	52,817	53,400	53,675	54,322	54,559	54,751	100.0%
Southwest, 17 and Under	39,063	44,411	45,430	46,214	47,210	48,747	50,454	52,360	30.6%
Southwest, 18 to 34	34,992	35,219	37,821	39,363	41,067	43,210	44,765	46,252	26.6%
Southwest, 35 to 49	23,103	23,568	24,309	24,579	24,878	25,710	26,506	27,448	16.1%
Southwest, 50 to 64	11,539	17,904	18,446	18,895	19,429	20,079	20,821	21,508	12.6%
Southwest, 65 and Over	14,406	20,904	21,363	21,451	21,568	21,767	21,895	21,972	14.0%
Southwest Total	123,103	142,006	147,369	150,502	154,152	159,513	164,441	169,540	100.0%
Summit, 17 and Under	7,304	8,956	9,093	9,042	9,015	9,082	9,181	9,358	27.5%
Summit, 18 to 34	6,811	6,864	7,301	7,513	7,815	8,271	8,595	8,923	23.8%
Summit, 35 to 49	6,798	8,540	8,705	8,780	8,753	8,830	8,952	8,987	26.7%
Summit, 50 to 64	2,570	4,227	4,595	4,950	5,417	5,852	6,286	6,766	16.5%
Summit, 65 and Over	1,566	1,461	1,584	1,701	1,831	1,993	2,148	2,334	5.6%
Summit Total	25,049	30,048	31,278	31,986	32,831	34,028	35,162	36,368	100.0%
Tooele, 17 and Under	9,957	14,537	14,993	15,310	15,702	16,252	16,747	17,271	33.5%
Tooele, 18 to 34	8,178	11,285	12,566	12,819	12,984	13,342	13,608	13,899	27.7%
Tooele, 35 to 49	6,473	8,145	8,751	8,974	9,251	9,581	9,973	10,373	19.8%
Tooele, 50 to 64	3,874	4,548	4,930	5,230	5,480	5,791	6,119	6,460	11.7%
Tooele, 65 and Over	2,949	3,034	3,190	3,284	3,398	3,547	3,672	3,823	7.3%
Tooele Total	31,431	41,549	44,430	45,617	46,815	48,513	50,119	51,826	100.0%

Table A-3. Utah Population Estimates (continued)
by Age Group and Local Health District. 1996, 2000-2006.

Demographic Subgroup	Utah Population Totals								Percentage Distribution
	1996	2000	2001	2002	2003	2004	2005	2006	2003
Local Health District and Age Group (continued)									
TriCounty, 17 and Under	14,326	14,268	14,206	14,068	13,866	13,834	13,621	13,569	32.8%
TriCounty, 18 to 34	8,955	8,640	9,278	9,676	9,930	10,347	10,489	10,644	23.5%
TriCounty, 35 to 49	8,352	8,349	8,465	8,341	8,212	8,156	7,949	7,792	19.4%
TriCounty, 50 to 64	4,361	5,380	5,558	5,800	5,931	6,117	6,304	6,488	14.0%
TriCounty, 65 and Over	3,404	3,990	4,133	4,207	4,302	4,426	4,503	4,589	10.2%
TriCounty Total	39,398	40,627	41,640	42,092	42,241	42,880	42,866	43,082	100.0%
Utah County, 17 and Under	115,341	126,630	130,969	133,714	137,986	143,403	149,610	155,659	34.4%
Utah County, 18 to 34	111,489	134,742	139,427	140,032	142,034	145,287	147,609	149,016	35.4%
Utah County, 35 to 49	48,797	55,742	58,242	59,052	60,454	62,436	65,346	68,587	15.1%
Utah County, 50 to 64	24,227	31,063	32,759	34,028	35,586	37,652	39,973	42,148	8.9%
Utah County, 65 and Over	21,216	23,717	24,293	24,365	24,610	24,973	25,618	26,195	6.1%
Utah County Total	321,070	371,894	385,690	391,191	400,670	413,751	428,156	441,605	100.0%
Wasatch, 17 and Under	4,362	5,279	5,286	5,372	5,469	5,621	5,784	5,935	31.8%
Wasatch, 18 to 34	3,236	3,650	3,912	4,171	4,330	4,546	4,789	5,007	25.2%
Wasatch, 35 to 49	2,889	3,344	3,443	3,556	3,678	3,846	4,008	4,150	21.4%
Wasatch, 50 to 64	1,419	1,857	1,957	2,090	2,248	2,390	2,561	2,731	13.1%
Wasatch, 65 and Over	1,169	1,303	1,349	1,415	1,454	1,505	1,563	1,642	8.5%
Wasatch Total	13,075	15,433	15,947	16,604	17,179	17,908	18,705	19,465	100.0%
Weber-Morgan, 17 and Under	60,326	63,900	64,084	63,355	63,737	64,847	66,073	67,510	30.4%
Weber-Morgan, 18 to 34	50,605	53,726	55,666	55,722	56,886	58,894	60,295	61,616	27.1%
Weber-Morgan, 35 to 49	36,680	41,274	41,313	40,598	40,343	40,455	40,479	40,723	19.2%
Weber-Morgan, 50 to 64	20,710	24,813	25,704	26,385	27,445	28,769	30,161	31,621	13.1%
Weber-Morgan, 65 and Over	20,398	21,009	21,097	20,970	21,182	21,424	21,705	21,950	10.1%
Weber-Morgan Total	188,719	204,722	207,864	207,030	209,593	214,389	218,713	223,420	100.0%

Source: Utah Governor's Office of Planning and Budget (GOPB). Population estimates for future years (projections) were based on the Utah Process Economic and Demographic (UPED) model. Numbers for past years (estimates) were produced by the Utah Population Estimates Committee (UPEC). Retrieved June 25, 2003 from Utah Department of Health, Center for Health Data, Indicator-Based Information System for Public Health Web site: http://ibis.health.utah.gov/.

Table A-4. Persons Living in Poverty
by County. Utah, 2000.

County/Health District	Population Estimates for Utahns Living in Poverty	
	Percentage of Persons Living in Poverty	Number of Persons[1]
Beaver County	8.3%	481
Box Elder County	7.1%	3,011
Cache County	13.5%	12,017
Carbon County	13.4%	2,664
Daggett County	5.5%	46
Davis County	5.1%	11,984
Duchesne County	16.8%	2,371
Emery County	11.5%	1,234
Garfield County	8.1%	374
Grand County	14.8%	1,244
Iron County	19.2%	6,368
Juab County	10.4%	847
Kane County	7.9%	474
Millard County	13.1%	1,607
Morgan County	5.2%	369
Piute County	16.2%	233
Rich County	10.2%	198
Salt Lake County	8.0%	70,714
San Juan County	31.4%	4,443
Sanpete County	15.9%	3,393
Sevier County	10.8%	1,982
Summit County	5.4%	1,609
Tooele County	6.7%	2,615
Uintah County	14.5%	3,603
Utah County	12.0%	43,270
Wasatch County	5.2%	781
Washington County	11.2%	9,988
Wayne County	15.4%	386
Weber County	9.3%	18,022
State of Utah	9.4%	206,328

1 Totals represent population for whom poverty status is determined.

Source: U.S. Census Bureau; Custom Query, American Fact Finder, Census 2000 Summary File 4. Retrieved June 25, 2003 from http://factfinder.census.gov/.

Casady, R.,J., and J.M., Lepkowski (1993) Stratified telephone survey designs. Survey Methodology, 19 (1) 103-113.

Keeter, S. (1995) Estimating telephone noncoverage bias with a telephone survey. Public Opinion Quarterly, 59, 196-217.

Thornberry, O.T., and J.R., Massey (1988) Trends in United States telephone coverage across time and subgroups. In Robert M. Groves, P. Biermer, L. Lyberg, J.

Massey, W. Nichols II, and J. Waksberg (eds.) Telephone Survey Methodology. New York: John Wiley and Sons.