



H·CUP

HEALTHCARE COST AND UTILIZATION PROJECT

HCUP Methods Series



Agency for Healthcare
Research and Quality



U.S. Department of Health and Human Services
Agency for Healthcare Research and Quality

Contact Information:
Healthcare Cost and Utilization Project (HCUP)
Agency for Healthcare Research and Quality
540 Gaither Road
Rockville, MD 20850
<http://www.hcup-us.ahrq.gov>

For Technical Assistance with HCUP Products:

Email: hcup@ahrq.gov

or

Phone: 1-866-290-HCUP

Recommended Citation: Barrett M, Hunter K, Coffey R, Levit K. *Population Denominator Data for Use with the HCUP Databases (Updated with 2009 Population Data)*. HCUP Methods Series Report # 2010-02. Online April 12, 2010. U.S. Agency for Healthcare Research and Quality. Available: <http://www.hcup-us.ahrq.gov/reports/methods.jsp>.

Table of Contents

Overview	1
Population Data Sources	3
AARP State Profiles	5
American Community Survey (ACS)	6
Area Resource File (ARF)	7
Behavioral Risk Factors Surveillance System (BRFSS)	8
Bureau of Economic Analysis (BEA)	9
Bureau of Labor Statistics (BLS)	10
Census	11
Centers for Medicare & Medicaid Services (CMS)	12
Current Population Survey (CPS)	13
Economic Research Service (ERS)	14
Health, United States	15
Health Resources and Services Administration (HRSA)	16
Kaiser Family Foundation (KFF) State Health Facts	17
Medical Expenditure Panel Survey (MEPS)	18
National Asthma Survey (NAS)	19
National Comorbidity Survey Replication (NCS-R)	20
National Health and Nutrition Examination Survey (NHANES)	21
National Health Interview Survey (NHIS)	22
National Survey on Drug Use and Health (NSDUH)	23
National Vital Statistics System (NVSS)	24
National Women’s Health Information Center (NWHIC)	25
Small Area Health Insurance Estimates (SAHIE)	26
State and Local Interview Integrated Telephone Survey (SLAITS)	27
Statistical Abstract of the United States (US Stat)	28
Surveillance, Epidemiology, and End Results (SEER)	29
Survey of Income and Program Participation (SIPP)	30
Vendor	31
Washington, Wyoming, Alaska, Montana, and Idaho Rural Health Research Center (WWAMI RHRC)	32
Appendix A. National Population Data	1
Appendix A.1 Annual Estimates of the Resident Population for the United States, Regions, and States	2
Table A.1.1 July 1, 2006 to July 1, 2009	2
Table A.1.2 July 1, 1998 to July 1, 2005	4
Table A.1.3 July 1, 1990 to July 1, 1997	6
Appendix A.2 Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States	8
Table A.2.1 July 1, 2006 to July 1, 2008	8
Table A.2.2 July 1, 2000 to July 1, 2005	9
Appendix A.3 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States	10
Table A.3.1 July 1, 2006 to July 1, 2008	10
Table A.3.2 July 1, 2000 to July 1, 2005	13
Table A.3.3 July 1, 1990 to July 1, 1999	15

Appendix A.4 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States.....	17
Table A.4.1 July 1, 2006 to July 1, 2008.....	17
Table A.4.2 July 1, 2000 to July 1, 2005.....	21
Table A.4.3 July 1, 1990 to July 1 1999.....	25
Appendix A.5 Annual Estimates of the U.S. Population by Community Income Quartile.....	27
Table A.5.1 2001 to 2009	27
Appendix A.6 Annual Estimates of the U.S. Population by Urban/Rural Designation.....	28
Table A.6.1 2006 to 2009	28
Table A.6.2 2000 to 2005	28
Appendix B. Using Payer Population Estimates From the CPS with HCUP Data	1
Payer vs. Insurance Conceptual Differences	1
Other Payer vs. Uninsured	2
Total vs. Non-Institutionalized Populations	2
Time Dimension Differences	3
Uniform Payer Tangent	3
Other Considerations	3
Appendix C. Calculating Standard Errors for Population-Based rates From HCUP Data.....	1
Step-By-Step Example	1

OVERVIEW

The Healthcare Cost and Utilization Project (HCUP) is a family of health care databases and related software tools and products developed through a Federal-State-Industry partnership and sponsored by the Agency for Healthcare Research and Quality (AHRQ). HCUP includes the largest collection of longitudinal hospital care data in the United States, with all-payer, encounter-level information beginning in 1988. These databases enable research on a broad range of health policy issues, including cost and quality of health services, medical practice patterns, access to health care programs, and outcomes of treatment at the national, state, and local market levels. The HCUP databases include the following:

- The Nationwide Inpatient Sample (NIS) – the largest all-payer inpatient care database in the United States, containing data on nearly eight million hospital stays per year from approximately 1,000 hospitals.
- The Kids' Inpatient Database (KID) – the only all-payer inpatient care database for children in the United States.
- The Nationwide Emergency Department Sample (NEDS) – the largest all-payer emergency department database publicly available in the United States, containing information from over 27 million records for ED visits in about 1,000 hospitals
- The State Inpatient Databases (SID) – inpatient discharges from a census of hospitals in participating states.
- The State Ambulatory Surgery Databases (SASD) – ambulatory surgery encounters from hospital-affiliated and sometimes freestanding ambulatory surgery sites from selected states.
- The State Emergency Department Databases (SEDD) – hospital-affiliated emergency department visits that do not result in hospitalizations, collected from participating states.

The objective of this report is to identify relevant sources of population data that can be used with the HCUP databases to calculate rates of hospital care events per population. This compilation includes data sources that provide nationwide population counts based on people, and not hospitals, physicians, or local resources. Not included are data sources collected by associations (e.g., the March of Dimes) or data collected by individual states. State surveys can be a valuable resource for information on specific subpopulations.

When possible, collections with a mixture of information (i.e., demographic, health status, resource information) or other helpful resources are also mentioned.

Table 1 lists the array of population data sources referenced in this report.

Table 1. Population Denominator Data Consistent with Information in the HCUP Databases

This table lists possible sources of population denominator data. Please consult the description of the data source for more details. A list of abbreviations appears at the conclusion of this table.

	National	Region	State	County	ZIP Code
DEMOGRAPHIC					
Age and Gender	Census ACS Vendor	Census	Census ACS Vendor	Census ACS ARF	Vendor
Race (modified 1990 definitions)	Vendor		Vendor	ARF	Vendor
Race (2000 Census definitions)	Census ACS		Census ACS	Census ACS	
Median Household Income	Vendor CPS ACS		Vendor CPS ACS	ACS	Vendor
Personal Income, Wages, Salaries	BEA BLS SIPP		BEA BLS	BEA BLS	
Health Insurance Payer/Coverage	CMS CPS (coverage) SAHIE SIPP MEPS		CMS CPS (coverage) SAHIE	SAHIE	
AREA CHARACTERISTICS					
Urban-Rural Location	Census ERS	Census ERS		Census ERS	WWAMI RHRC
Health Professionals Shortage Areas				HRSA	
DISEASE PREVALENCE (FROM SURVEY AND DISEASE REGISTRIES)					
Disease Prevalence	NHIS BRFSS NHANES NSDUH NCS-R SLAITS NAS	SLAITS	BRFSS NSDUH SEER		
OTHER					
Births	NVSS - Natality		NVSS - Natality	NVSS - Natality	
Deaths	NVSS - Mortality		NVSS - Mortality	NVSS - Mortality	
COMBINATION – COMPILATION OF DATA FROM OTHER SOURCES					
Collection of demographic, health status, and resource information	Health US KFF NWHIC US Stat	NWHIC US Stat	AARP Health US KFF NWHIC US Stat	ARF NWHIC	

Abbreviation	Data Source
AARP	AARP State Profiles
ACS	American Community Survey
ARF	Area Resource Files
BEA	Bureau of Economic Analysis
BLS	Bureau of Labor Statistics
BRFSS	Behavioral Risk Factors Surveillance System
Census	Census
CMS	Center for Medicare & Medicaid Services
CPS	Current Population Survey
ERS	Economic Research Service
Health US	Health, United States
HRSA	Health Resources and Services Administration
KFF	Kaiser Family Foundation
MEPS	Medical Expenditure Panel Survey
NAS	National Asthma Survey
NCS-R	National Comorbidity Survey – Replication
NHANES	National Health and Nutrition Examination Survey
NHIS	National Health Interview Survey
NSDUH	National Survey on Drug Use & Health
NVSS	National Vital Statistics System
NWHIC	National Women's Health Information Center
SAHIE	Small Area Health Insurance Estimates
SEER	Surveillance, Epidemiology, and End Result
SIPP	Survey of Income and Program Participation
SLAITS	State and Local Area Integrated Telephone Survey
US Stat	Statistical Abstract of the United States
Vendor	Third-party vendors for demographic and geographic data: Claritas, ESRI Business Information Solutions, General Data Tech (GDT), Tele Atlas
WWAMI RHRC	Washington, Wyoming, Alaska, Montana, and Idaho Rural Health Research Center

POPULATION DATA SOURCES

The descriptions on the following pages provide details on the data sources listed in Table 1 in alphabetic order. For each data source, the following information is provided:

- Sponsor organization
- Data collection method
- Population targeted
- Types of information available
 - Demographic – age, gender, race/ethnicity, income level, payer type, etc.
 - Geographic aggregation – national, regional, state, county, and ZIP Code
 - Diseases and health statistics – health status, diabetes, asthma, tobacco use, etc.

- Update cycle for data
- Web references (when available) for the data, published statistics, and online query tools.

NATIONAL POPULATION ESTIMATES

Appendix A provides commonly used estimates from the Bureau of the Census on the resident population for the U.S., for regions (Northeast, Midwest, South, and West), and for the States from 1990 to the most recent year for which data are available. In addition, estimates are provided by gender, five-year age groups, and race-ethnicity at the national level. These estimates are also available electronically on the HCUP User Support Web site under the Method Series (<http://www.hcup-us.ahrq.gov/reports/methods.jsp>).

AARP State Profiles
Sponsor: AARP
Data Collection Method: This is a secondary data source which is a compilation of data from Federal health agencies and private organizations
Population Targeted: Varies
Types of Available Information: Demographic Information: Age distribution, race/ethnic composition, and poverty Geographic Entity: State Diseases and Health: Infant mortality rate, low birth weight infants, deaths per 100,000 population for various diseases, utilization of health services, health insurance, managed care, health expenditures, health resources
Update Cycle: Annual, beginning in 1991
Data System Home Page: http://www.aarp.org/research/
Published Statistics (State Profiles): http://www.aarp.org/research/ppi/ltc/Other/articles/across_the_states_2009_profiles_of_long-term_care_and_independent_living.html
Online Query System: None

American Community Survey (ACS)
Sponsor: United States Census Bureau
Data Collection Method: Survey forms mailed, computer assisted telephone interviewing, and computer assisted personal interviewing
Population Targeted: Resident population in the United States
Types of Available Information: Demographic Information: Age, gender, race/ethnicity, annual household income, marital status, education, etc. Geographic Entity: National, state, county Diseases and Health: None
Update Cycle: Annual, beginning in 1999
Data System Home Page: http://www.census.gov/acs/www/
Published Statistics: http://factfinder.census.gov/home/saff/main.html?_lang=en
Online Query System: American Fact Finder http://factfinder.census.gov/home/saff/main.html?_lang=en DataFerrett: http://dataferrett.census.gov/index.html

Area Resource File (ARF)
<p>Sponsor:</p> <p>National Center for Health Workforce Analysis (NCHWA), Bureau of Health Professions (BHP) within the Health Resources and Services Administration (HRSA)</p>
<p>Data Collection Method:</p> <p>Data integrated from more than 50 primary data sources, including the National Center for Health Statistics (mortality and natality records), the American Hospital Association (facilities statistics), and the American Medical Association (physician specialty data)</p>
<p>Population Targeted:</p> <p>Total U.S. population</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, gender, race/ethnicity, employment and unemployment, housing statistics, distribution of families and individuals by income groups, and total, per capita, and median income</p> <p>Geographic Entity: County. This information can be easily aggregated into larger geographic units</p> <p>Diseases and Health: No specific disease information is available</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1980</p>
<p>Data System Home Page:</p> <p>http://www.arfsys.com/</p>
<p>Published Statistics:</p> <p>None</p>
<p>Online Query System:</p> <p>None</p>

Behavioral Risk Factors Surveillance System (BRFSS)
<p>Sponsor:</p> <p>Centers for Disease Control and Prevention (CDC), National Center for Chronic Disease Prevention and Health Promotion</p>
<p>Data Collection Method:</p> <p>Cross-sectional survey using computer-assisted telephone interviewing</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population residing in the United States</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, gender, race/ethnicity, annual household income, marital status, education, etc.</p> <p>Geographic Entity: National, state</p> <p>Diseases and Health: Examples include: health status, immunization, diabetes, tobacco use, HIV/AIDS, arthritis, asthma, and cardiovascular disease</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1984</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/brfss/index.htm</p>
<p>Published Statistics:</p> <p>http://www.cdc.gov/brfss/pubs/index.htm</p>
<p>Online Query System:</p> <p>Prevalence Data http://apps.nccd.cdc.gov/brfss/index.asp BRFSS Maps http://apps.nccd.cdc.gov/gisbrfss/default.aspx Trends Data http://apps.nccd.cdc.gov/brfss/ SMART: Selected Metropolitan/Micropolitan Area Risk Trends http://apps.nccd.cdc.gov/brfss-smart/index.asp</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

Bureau of Economic Analysis (BEA)
Sponsor: The U.S. Department of Commerce
Data Collection Method: Integration of various economic measures from various sources, including the Census Bureau, the Department of Education, and the Bureau of Labor Statistics (BLS)
Population Targeted: Varies
Types of Available Information: Demographic Information: Personal income, wages, and salaries Geographic Entity: National, state, county Diseases and Health: None
Update Cycle: Quarterly
Data System Home Page: http://www.bea.gov/index.htm
Published Statistics: http://www.bea.gov/scb/index.htm
Online Query System: None

Bureau of Labor Statistics (BLS)
Sponsor: The U.S. Department of Labor
Data Collection Method: Quarterly tax reports submitted to State Employment Security Agencies
Population Targeted: Employed population in the U.S.
Types of Available Information: Demographic Information: Wages and salaries Geographic Entity: National, state, county Diseases and Health: None
Update Cycle: Quarterly
Data System Home Page: http://www.bls.gov/cew/home.htm
Published Statistics: http://www.bls.gov/opub/
Online Query System: None

Census
Sponsor: United States Census Bureau
Data Collection Method: Mailed survey forms
Population Targeted: Resident population in the United States
Types of Available Information: Demographic Information: Age, gender, race/ethnicity, annual household income, marital status, education, etc. Geographic Entity: National, state, county Diseases and Health: None
Update Cycle: Decennial census with annual estimates. Decennial census long form will be replaced in 2010 census by the American Community Survey (ACS)
Data System Home Page: http://www.census.gov/
Published Statistics: http://www.census.gov/prod/www/titles.html
Online Query System: American Fact Finder http://factfinder.census.gov/home/saff/main.html?_lang=en

Centers for Medicare & Medicaid Services (CMS)
Sponsor: Department of Health & Human Services
Data Collection Method: Enrollment data and survey
Population Targeted: Medicare and Medicaid beneficiaries
Types of Available Information: Demographic Information: Age, gender, birth dates, race, residence (Medicare Utilization & Enrollment, Medicaid Utilization & Enrollment) Socioeconomic and demographic characteristics (Medicare Current Beneficiary Survey) Geographic Entity: National, state Diseases and Health: Health status and functioning, health care use and expenditures, health insurance coverage (Medicare Current Beneficiary Survey) Health spending by service type and state (National Health Expenditure Data)
Update Cycle: Fiscal year
Data System Home Page: CMS home page: www.cms.gov Research Data Assistance Center (ResDAC), CMS-sponsored Website for data files and documentation: http://www.resdac.umn.edu/Available_CMS_Data.asp
Published Statistics: CMS Research, Statistics, Data & Systems: http://www.cms.hhs.gov/home/rsds.asp Available through ResDAC: http://www.resdac.umn.edu/Tools/tech_pubs.asp
Online Query System: None

Current Population Survey (CPS)
<p>Sponsor:</p> <p>Bureau of Labor Statistics and Bureau of the Census</p>
<p>Data Collection Method:</p> <p>Phone survey, with periodic surveys conducted by an interviewer who visits the sample unit</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population in the United States</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, gender, race/ethnicity, marital status, education, etc.</p> <p>Geographic Entity: National, state</p> <p>Diseases and Health: Annual Demographic Survey (the March CPS supplement) includes income and health insurance coverage. See Appendix B for a discussion on using payer population estimates from the CPS with HCUP data.</p>
<p>Update Cycle:</p> <p>Monthly</p>
<p>Data System Home Page:</p> <p>http://www.census.gov/cps/</p>
<p>Published Statistics:</p> <p>http://www.bls.census.gov/cps/pubsmain.htm</p>
<p>Online Query System:</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

Economic Research Service (ERS)
Sponsor: United States Department of Agriculture
Data Collection Method: Urban-rural classifications based on Census data
Population Targeted: Resident population in the United States
Types of Available Information: Urban-rural classification methods: <ul style="list-style-type: none"> • Rural-Urban Continuum Codes (RUCC) – classifies U.S. counties by urbanization and nearness to a metropolitan area. • Urban Influence Codes (UIC) – classifies U.S. counties by size of the largest city and nearness to metropolitan and micropolitan areas. • Rural-Urban Commuting Area Codes (RUCA) – classifies U.S. census tracts using measures of urbanization, population density, and daily commuting. Geographic Entity: National, state, county
Update Cycle: A 10-year cycle; updates appear a few years after each decennial census
Data System Home Page: ERS Home Page: http://www.ers.usda.gov Urban-rural classifications are accessed through http://www.ers.usda.gov/briefing/Rurality/
Published Statistics: www.ers.usda.gov/Publications/
Online Query System: Online system that allows looking up RUCC county classifications: http://www.ers.usda.gov/Data/RuralUrbanContinuumCodes/2003/

Health, United States
<p>Sponsor:</p> <p>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC), and the Department of Health and Human Services</p>
<p>Data Collection Method:</p> <p>This is a secondary data source which is a compilation of data from Federal health agencies and private organizations</p>
<p>Population Targeted:</p> <p>Varies</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age distribution, race/ethnic composition, and poverty</p> <p>Geographic Entity: National, state</p> <p>Diseases and Health: Health insurance, preventive care, risk factors, limitation of activity, and mortality</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1975</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/nchs/hus.htm</p>
<p>Published Statistics:</p> <p>http://www.cdc.gov/nchs/hus.htm</p>
<p>Online Query System:</p> <p>None</p>

Health Resources and Services Administration (HRSA)
<p>Sponsor:</p> <p>The U.S. Department of Health and Human Services</p>
<p>Data Collection Method:</p> <p>Data extracted from various other data sources for demographic, spatial data, and health systems information</p>
<p>Population Targeted:</p> <p>Total U.S. population</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, race, gender, marital status, urban-rural location, income, poverty status, and the combinations of these demographic characteristics</p> <p>Geographic Entity: County</p> <p>Diseases and Health: Health Professional Shortage Areas (HPSAs) – shortages of primary medical care, dental, or mental health providers</p>
<p>Update Cycle:</p> <p>On-going</p>
<p>Data System Home Page:</p> <p>http://datawarehouse.hrsa.gov/</p> <p>Health Professional Shortage Areas: http://bhpr.hrsa.gov/shortage/</p>
<p>Published Statistics:</p> <p>View Maps from HRSA geospatial data http://gos2.geodata.gov/wps/portal/gos/kcxml/04_Sj9SPykssy0xPLMnMz0vM0Y_QjzKL9453dHIHSYGYfpb6kehCFhhCJpa-EDETRw-EmA9MzBEm5ujkitDr65Gfm6rvrR-gX5AbCgQR5Y6OiooAFYR56w!!/delta/base64xml/L3dJdyEvUUd3QndNQSEvNEIVRS82X0xfSV!</p>
<p>Online Query System:</p> <p>None</p>

Kaiser Family Foundation (KFF) State Health Facts
<p>Sponsor:</p> <p>Henry J. Kaiser Family Foundation</p>
<p>Data Collection Method:</p> <p>This is a secondary data source which is a compilation of data from Federal health agencies and private organizations</p>
<p>Population Targeted:</p> <p>Varies</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age distribution, race/ethnic composition, poverty, income, etc.</p> <p>Geographic Entity: National, state</p> <p>Diseases and Health: Health status, insurance coverage, health costs and budgets, utilization, minority health, women's health, HIV/AIDS, etc.</p>
<p>Update Cycle:</p> <p>Varies</p>
<p>Data System Home Page:</p> <p>http://www.statehealthfacts.org/cgi-bin/healthfacts.cgi</p>
<p>Published Statistics:</p> <p>http://www.statehealthfacts.org/cgi-bin/healthfacts.cgi</p>
<p>Online Query System:</p> <p>None</p>

Medical Expenditure Panel Survey (MEPS)
<p>Sponsor:</p> <p>Agency for Healthcare Research & Quality, U.S. Department of Health and Human Services</p>
<p>Data Collection Method:</p> <p>Survey with computer assisted personal interviewing</p>
<p>Population Targeted:</p> <p>U.S. civilian non-institutionalized population</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, race, sex, marital status, education, income, poverty status, employment status, etc.</p> <p>Geographic Entity: National, census region, and Metropolitan Statistical Area (MSA)</p> <p>Diseases and Health: Health status, mental health status, extensive information pertaining to health care utilization and expenditure. The Household Component provides data from individual households and their members. The Insurance Component is a separate survey of employers that provides data on employer-based health insurance.</p>
<p>Update Cycle:</p> <p>Annual</p>
<p>Data System Home Page:</p> <p>http://www.meps.ahrq.gov/</p>
<p>Published Statistics:</p> <p>http://www.meps.ahrq.gov/mepsweb/data_stats/publications.jsp</p>
<p>Online Query System:</p> <p>None</p>

National Asthma Survey (NAS)
<p>Sponsor:</p> <p>National Center for Environmental Health (NCEH) and the Centers for Disease Control and Prevention (CDC)</p>
<p>Data Collection Method:</p> <p>Random-Digit-Dial (RDD) telephone survey as part of the 2003 State and Local Interview Integrated Telephone Survey (SLAITS)</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population residing in the United States</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, sex, race/ethnicity</p> <p>Geographic Entity: National and four states (AL, CA, IL, TX)</p> <p>Diseases and Health: Asthma</p>
<p>Update Cycle:</p> <p>One time, 2003</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/nchs/slait/nas.htm</p>
<p>Published Statistics:</p> <p>None</p>
<p>Online Query System:</p> <p>None</p>

National Comorbidity Survey Replication (NCS-R)
Sponsor: National Institute of Mental Health
Data Collection Method: Survey using face-to-face computer-assisted personal interviews (CAPI)
Population Targeted: Adult and youth population in the United States
Types of Available Information: Demographic Information: Race/ethnicity, marital status, education, income, etc. Geographic Entity: National Diseases and Health: Mental disorders
Update Cycle: The baseline NCS-1 was fielded in 1990-92. The NCS-1 respondents were reinterviewed in 2001-02 for the NCS-2. The NCS Replication Survey (NCS-R) was carried out in a new national sample of 10,000 respondents. A survey of 10,000 adolescents (NCS-A) was added.
Data System Home Page: NIMH page http://www.nimh.nih.gov/index.shtml Substance Abuse and Mental Health Data Archive (SAMHDA) http://webapp.icpsr.umich.edu/cocoon/ICPSR/all/archives.xml?token=Substance+Abuse+%26+Mental+Health National Comorbidity Survey Program http://www.hcp.med.harvard.edu/ncs/
Published Statistics: Specific to NCS-R http://www.icpsr.umich.edu/cgi/CITATIONS/search?&study=4438&method=study&path=SA MHDA NCS 1993 forward http://www.hcp.med.harvard.edu/ncs/publications.php
Online Query System: http://webapp.icpsr.umich.edu/cocoon/SAMHDA-DAS/04438.xml

National Health and Nutrition Examination Survey (NHANES)
<p>Sponsor:</p> <p>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</p>
<p>Data Collection Method:</p> <p>Cross-sectional population-based survey</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population residing in the United States</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, gender, education, race/ethnicity, language, marital status, language, etc.</p> <p>Geographic Entity: National</p> <p>Diseases and Health: Health examinations (e.g., blood pressure, lower extremity disease, obesity, etc.) and laboratory tests (e.g., hepatitis, Human Immunodeficiency Virus, measles, etc.)</p>
<p>Update Cycle:</p> <p>Annual, since 1999, but released in two-year increments (e.g., NHANES 2003-2004)</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/nchs/nhanes.htm</p>
<p>Published Statistics:</p> <p>http://www.cdc.gov/nchs/nhanes/nhanes_products.htm</p> <p>NCHS Health e-Stats: http://www.cdc.gov/nchs/nhanes/nhanes_products.htm</p>
<p>Online Query System:</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

National Health Interview Survey (NHIS)
Sponsor: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)
Data Collection Method: Cross-sectional survey consisting of computer-assisted individual interviews
Population Targeted: Civilian non-institutionalized population residing in the United States, all ages
Types of Available Information: Demographic Information: Gender, age, race/ethnicity, income, marital status Geographic Entity: National Diseases and Health: Adult conditions (e.g., hypertension, coronary heart disease, diabetes, cancer, asthma, alcohol use, smoking, AIDS, etc.) and pediatric conditions (e.g., sickle cell anemia, autism, diabetes, stuttering, etc.). Also insurance coverage and health care use (number of physician visits, dental visits, etc.).
Update Cycle: Annual, beginning in 1969
Data System Home Page: http://www.cdc.gov/nchs/nhis.htm
Published Statistics: NCHS Series 10 Data from NHIS: http://www.cdc.gov/nchs/products/series.htm#sr10 Advance Data Reports: http://www.cdc.gov/nchs/nhis/nhis_ad.htm NCHS Health e-Stats: http://www.cdc.gov/nchs/products/hestats.htm
Online Query System: DataFerrett: http://dataferrett.census.gov/index.html

<p>National Survey on Drug Use and Health (NSDUH) (formerly called the National Household Survey on Drug Abuse (NHSDA))</p>
<p>Sponsor: Substance Abuse and Mental Health Services Administration (SAMHSA), Office of Applied Studies, U.S. Department of Health and Human Services</p>
<p>Data Collection Method: In-person computer assisted interviewing or computer assisted self-interviewing</p>
<p>Population Targeted: Civilian, non-institutionalized population, aged 12 or older</p>
<p>Types of Available Information:</p> <p>Demographic Information: Gender, age, race/ethnicity, education, family income</p> <p>Geographic Entity: National, regional</p> <p>Diseases and Health: Mental illness and the use of alcohol, tobacco, marijuana, cocaine, prescription-type drugs used nonmedically (pain relievers, tranquilizers, stimulants, and sedatives), etc.</p>
<p>Update Cycle: Annual, beginning in 1990</p>
<p>Data System Home Page: http://www.oas.samhsa.gov/nsduh.htm</p>
<p>Published Statistics: http://www.oas.samhsa.gov/nsduh.htm</p>
<p>Online Query System: http://www.oas.samhsa.gov/samhda.htm</p>

National Vital Statistics System (NVSS)
Sponsor: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)
Data Collection Method: Standardized form
Population Targeted: Total U.S. population
Types of Available Information: Demographic Information: Age, gender, race, education, marital status Geographic Entity: National, state, city (100,000 persons or more), county Diseases and Health: Births, deaths (including cause), fetal deaths, linked birth/infant death, matched multiple births
Update Cycle: Annual, beginning in 1968
Data System Home Page: http://www.cdc.gov/nchs/nvss.htm
Published Statistics: http://www.cdc.gov/nchs/products.htm
Online Query System: None

National Women's Health Information Center (NWHIC)
Sponsor: Office of Women's Health, U.S. Department of Health and Human Services
Data Collection Method: This is a secondary data source which is a compilation of data from Federal health agencies and private organizations
Population Targeted: Varies
Types of Available Information: Demographic Information: Age, gender, race/ethnicity Geographic Entity: National, regional, state, county Diseases and Health: Variety of infectious and chronic diseases, mental health, reproductive health, maternal health, illness prevention, mortality and indicators of access to care
Update Cycle: Varies
Data System Home Page: http://www.womenshealth.gov/owh/
Published Statistics: http://www.womenshealth.gov/statistics/
Online Query System: Quick Health Data Online: http://www.healthstatus2010.com/owh/

Small Area Health Insurance Estimates (SAHIE)
<p>Sponsor:</p> <p>Housing and Household Economic Statistics Division, U.S. Census Bureau</p>
<p>Data Collection Method:</p> <p>Health insurance coverage is estimated using the 3-year average of values from the Annual Social and Economic Supplement (ASEC) of the Current Population Survey (CPS)</p>
<p>Population Targeted:</p> <p>Insured individuals, both adults and children, in the U.S.</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age groups, insurance status (whether insured or uninsured)</p> <p>Geographic Entity: National, state, county</p> <p>Diseases and Health: None</p>
<p>Update Cycle:</p> <p>Only available for 2000</p>
<p>Data System Home Page:</p> <p>http://www.census.gov/hhes/www/sahie/index.html</p>
<p>Published Statistics:</p> <p>http://www.census.gov/did/www/sahie/publications/index.html</p>
<p>Online Query System:</p> <p>http://www.census.gov/did/www/sahie/data/2006/dataset.html</p>

State and Local Interview Integrated Telephone Survey (SLAITS)
<p>Sponsor:</p> <p>National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC)</p>
<p>Data Collection Method:</p> <p>Random-Digit-Dial (RDD) telephone survey</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population residing in the United States</p>
<p>Types of Available Information:</p> <p>Demographic Information: Age, gender, race/ethnicity, household income</p> <p>Geographic Entity: National, regional</p> <p>Diseases and Health: Varies by year</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1997</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/nchs/slaits.htm</p>
<p>Published Statistics:</p> <p>http://www.cdc.gov/nchs/slaits/slaits_products.htm</p>
<p>Online Query System:</p> <p>None</p>

Statistical Abstract of the United States (US Stat)
Sponsor: United States Census Bureau
Data Collection Method: This is a secondary data source which is a compilation of data from Census Bureau, other Federal agencies, and private organizations
Population Targeted: Varies
Types of Available Information: Demographic Information: Age, gender, race/ethnicity, marital status, education, income, etc. Geographic Entity: Nation, region, state Diseases and Health: Health care resources and utilization, in addition to health conditions, diseases, expenditures, insurance
Update Cycle: Annual, beginning in 1878
Data System Home Page: http://www.census.gov/compendia/statab/
Published Statistics: http://www.census.gov/compendia/statab/
Online Query System: None

Surveillance, Epidemiology, and End Results (SEER)
Sponsor: National Cancer Institute, U.S. National Institutes of Health
Data Collection Method: Population-based cancer registries
Population Targeted: Cancer patients
Types of Available Information: Demographic Information: Race, sex, age Geographic Entity: States Diseases and Health: Cancer incidence and survival
Update Cycle: Annual
Data System Home Page: http://seer.cancer.gov/
Published Statistics: Finding Cancer Statistics: http://seer.cancer.gov/statistics/ Statistical Resources: http://seer.cancer.gov/resources/
Online Query System: http://statecancerprofiles.cancer.gov/

Survey of Income and Program Participation (SIPP)
Sponsor: U.S. Census Bureau
Data Collection Method: Panel survey using personal and phone interviews
Population Targeted: U.S. civilian noninstitutionalized population, age 15 years and older
Types of Available Information: Demographic Information: Sex, age, marital status, education, extensive information of employment, earning, income sources Geographic Entity: National Diseases and Health: Topical modules sometimes include information on health, disability, and physical well-being
Update Cycle: 3 to 4 years, beginning in 1993
Data System Home Page: http://www.sipp.census.gov/sipp/index.html
Published Statistics: Publications: http://www.census.gov/sipp/pubs.html Statistical Briefs: http://www.sipp.census.gov/sipp/stat_briefs.html
Online Query System: DataFerrett: http://dataferrett.census.gov/index.html

<p>Vendor Third-party private organizations that provide demographic and/or geographic data</p>
<p>Sponsor: Varies</p>
<p>Data Collection Method: Varies</p>
<p>Population Targeted: Varies</p>
<p>Types of Available Information:</p> <p>Demographic Information: Claritas, ESRI Business Information Solutions</p> <p>Geographic Information: General Data Tech (GDT), Tele Atlas</p> <p>Diseases and Health: None</p>
<p>Update Cycle: Varies</p>
<p>Data System Home Page:</p> <p>Claritas: http://www.claritas.com/claritas/Default.jsp ESRI Business Information Solutions: http://www.esribis.com/reports/ziplookup.html General Data Tech: http://www.gdt.com/ Tele Atlas: http://www.teleatlas.com/Pub/Home</p>

Washington, Wyoming, Alaska, Montana, and Idaho Rural Health Research Center (WWAMI RHRC)
Sponsor: Federal Office of Rural Health Policy, Health Resources and Service Administration
Data Collection Method: Urban-rural classification based on Census data
Population Targeted: Populations in urban and rural areas
Types of Available Information: Urban-rural classification methods: Rural-Urban Commuting Area Codes (RUCA) – classifies U.S. census tracts using measures of urbanization, population density, and daily commuting Geographic Entity: ZIP Code
Update Cycle: 10-year cycle; updates appear a few years after each decennial census
Data System Home Page: WWAMI RHRC: http://depts.washington.edu/uwrhrc/ RUCA Project: http://depts.washington.edu/uwruca/index.html http://depts.washington.edu/uwruca/ruca-projects.php
Published Statistics: Study findings: http://depts.washington.edu/uwrhrc/rhrc-studies.php RUCA data demographics: http://depts.washington.edu/uwruca/ruca-demographics.php
Online Query System: None

APPENDIX A. NATIONAL POPULATION DATA

Appendix A includes a collection of national population tables to facilitate the use of this type of information. The following population data from the U.S. Census Bureau is available for 1990 to 2009 (or 2008, if 2009 is not available):

- Annual estimates of the resident population for the U.S., census regions, and states
 - Table A.1.1 Annual Estimates of the Population for the United States and States: July 1, 2006 to July 1, 2009
 - Table A.1.2 Annual Estimates of the Population for the United States and States: July 1, 1998 to July 1, 2005
 - Table A.1.3 Annual Estimates of the Population for the United States and States: July 1, 1990 to July 1, 1997
- Annual estimates of the resident U.S. population by gender and selected age groups
 - Table A.2.1 Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States: July 1, 2006 to July 1, 2008
 - Table A.2.1 Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States: July 1, 2000 to July 1, 2005
- Annual estimates of the resident U.S. population by gender and five-year age groups
 - Table A.3.1 Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: July 1, 2006 to July 1, 2008
 - Table A.3.2 Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: July 1, 2000 to July 1, 2005
 - Table A.3.3 Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: July 1, 1990 to July 1, 1999
- Annual estimates of the resident U.S. population by gender and race/ethnicity
 - Table A.4.1 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 2006 to July 1, 2008
 - Table A.4.2 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 2000 to July 1, 2005
 - Table A.4.3 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 1990 to July 1, 1999

HCUP sometimes uses Claritas population data, instead of Census, because the population information is available at the ZIP Code level and can be aggregated into national population counts that are consistent with the HCUP data elements. Population data tables from Claritas are available for 2000 to 2009:

- Table A.5.1 Annual Estimates of the U.S. Population by Median Household Income Quartile, 2000 to 2009
- Table A.5.2 Annual Estimates of the U.S. Population by Urban/Rural Location, 2000 to 2009

Appendix A.1 Annual Estimates of the Resident Population for the United States, Regions, and States

Table A.1.1 July 1, 2006 to July 1, 2009

Geographic Area	Population Estimates			
	1-Jul-09	1-Jul-08	1-Jul-07	1-Jul-06
United States	307,006,550	304,374,846	301,579,895	298,593,212
NORTHEAST	55,283,679	55,060,196	54,879,379	54,710,026
MIDWEST	66,836,911	66,595,597	66,359,247	66,082,058
SOUTH	113,317,879	112,021,022	110,573,419	108,930,843
WEST	71,568,081	70,698,031	69,767,850	68,870,285
Alabama	4,708,708	4,677,464	4,637,904	4,597,688
Alaska	698,473	688,125	682,297	677,325
Arizona	6,595,778	6,499,377	6,362,241	6,192,100
Arkansas	2,889,450	2,867,764	2,842,194	2,815,097
California	36,961,664	36,580,371	36,226,122	35,979,208
Colorado	5,024,748	4,935,213	4,842,259	4,753,044
Connecticut	3,518,288	3,502,932	3,488,633	3,485,162
Delaware	885,122	876,211	864,896	853,022
District of Columbia	599,657	590,074	586,409	583,978
Florida	18,537,969	18,423,878	18,277,888	18,088,505
Georgia	9,829,211	9,697,838	9,533,761	9,330,086
Hawaii	1,295,178	1,287,481	1,276,832	1,275,599
Idaho	1,545,801	1,527,506	1,499,245	1,464,413
Illinois	12,910,409	12,842,954	12,779,417	12,718,011
Indiana	6,423,113	6,388,309	6,346,113	6,301,700
Iowa	3,007,856	2,993,987	2,978,719	2,964,391
Kansas	2,818,747	2,797,375	2,775,586	2,755,700
Kentucky	4,314,113	4,287,931	4,256,278	4,219,374
Louisiana	4,492,076	4,451,513	4,376,122	4,240,327
Maine	1,318,301	1,319,691	1,317,308	1,314,963
Maryland	5,699,478	5,658,655	5,634,242	5,612,196
Massachusetts	6,593,587	6,543,595	6,499,275	6,466,399
Michigan	9,969,727	10,002,486	10,050,847	10,082,438
Minnesota	5,266,214	5,230,567	5,191,206	5,148,346

Geographic Area	Population Estimates			
	1-Jul-09	1-Jul-08	1-Jul-07	1-Jul-06
Mississippi	2,951,996	2,940,212	2,921,723	2,897,150
Missouri	5,987,580	5,956,335	5,909,824	5,861,572
Montana	974,989	968,035	957,225	946,230
Nebraska	1,796,619	1,781,949	1,769,912	1,760,435
Nevada	2,643,085	2,615,772	2,567,752	2,493,405
New Hampshire	1,324,575	1,321,872	1,317,343	1,311,894
New Jersey	8,707,739	8,663,398	8,636,043	8,623,721
New Mexico	2,009,671	1,986,763	1,968,731	1,942,608
New York	19,541,453	19,467,789	19,422,777	19,356,564
North Carolina	9,380,884	9,247,134	9,064,074	8,866,977
North Dakota	646,844	641,421	638,202	636,771
Ohio	11,542,645	11,528,072	11,520,815	11,492,495
Oklahoma	3,687,050	3,644,025	3,612,186	3,574,334
Oregon	3,825,657	3,782,991	3,732,957	3,677,545
Pennsylvania	12,604,767	12,566,368	12,522,531	12,471,142
Rhode Island	1,053,209	1,053,502	1,055,009	1,060,196
South Carolina	4,561,242	4,503,280	4,424,232	4,339,399
South Dakota	812,383	804,532	797,035	788,519
Tennessee	6,296,254	6,240,456	6,172,862	6,089,453
Texas	24,782,302	24,304,290	23,837,701	23,369,024
Utah	2,784,572	2,727,343	2,663,796	2,583,724
Vermont	621,760	621,049	620,460	619,985
Virginia	7,882,590	7,795,424	7,719,749	7,646,996
Washington	6,664,195	6,566,073	6,464,979	6,372,243
West Virginia	1,819,777	1,814,873	1,811,198	1,807,237
Wisconsin	5,654,774	5,627,610	5,601,571	5,571,680
Wyoming	544,270	532,981	523,414	512,841

Source:

2006 to 2009 States and Regions: Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2009 (NST-EST2009-01) Population Division, U.S. Census Bureau, Release Date: December 2009 (<http://www.census.gov/popest/states/NST-ann-est.html>)

Appendix A.1 Annual Estimates of the Resident Population for the United States and States

Table A.1.2 July 1, 1998 to July 1, 2005

Geographic Area	Population Estimates							
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00	1-Jul-99	1-Jul-98
United States	295,753,151	293,045,739	290,326,418	287,803,914	285,081,556	282,171,957	272,690,813	270,248,003
NORTHEAST	54,598,185	54,514,298	54,364,452	54,167,735	53,930,017	53,667,506	51,829,962	51,685,676
MIDWEST	65,806,421	65,587,713	65,319,024	65,074,729	64,815,413	64,493,956	63,242,284	62,950,532
SOUTH	107,411,036	105,874,018	104,431,612	103,185,017	101,868,637	100,559,939	96,468,455	95,348,823
WEST	67,937,509	67,069,710	66,211,330	65,376,433	64,467,489	63,450,556	61,150,112	60,262,972
Alabama	4,545,049	4,512,190	4,490,591	4,472,420	4,464,034	4,451,849	4,369,862	4,351,037
Alaska	669,488	661,569	650,884	642,691	633,316	627,499	619,500	615,205
Arizona	5,974,834	5,759,425	5,591,206	5,452,108	5,304,417	5,166,697	4,778,332	4,667,277
Arkansas	2,776,221	2,746,161	2,722,291	2,704,732	2,691,068	2,678,288	2,551,373	2,538,202
California	35,795,255	35,558,419	35,251,107	34,876,194	34,485,623	33,994,571	33,145,121	32,682,794
Colorado	4,660,780	4,599,681	4,548,775	4,504,265	4,433,068	4,328,070	4,056,133	3,968,967
Connecticut	3,477,416	3,474,610	3,467,673	3,448,382	3,428,433	3,411,726	3,282,031	3,272,563
Delaware	839,906	826,639	814,905	804,131	794,620	786,411	753,538	744,066
District of Columbia	582,049	579,796	577,777	579,585	578,042	571,744	519,000	521,426
Florida	17,783,868	17,375,259	16,981,183	16,680,309	16,353,869	16,047,118	15,111,244	14,908,230
Georgia	9,097,428	8,913,676	8,735,259	8,585,535	8,419,594	8,230,161	7,788,240	7,636,522
Hawaii	1,266,117	1,252,782	1,239,298	1,228,069	1,218,305	1,211,566	1,185,497	1,190,472
Idaho	1,425,862	1,391,718	1,364,109	1,342,149	1,321,170	1,299,551	1,251,700	1,230,923
Illinois	12,674,452	12,645,295	12,597,981	12,558,229	12,507,833	12,437,645	12,128,370	12,069,774
Indiana	6,253,120	6,214,454	6,181,789	6,149,007	6,124,967	6,091,649	5,942,901	5,907,617
Iowa	2,949,450	2,941,358	2,932,799	2,929,264	2,929,424	2,928,184	2,869,413	2,861,025
Kansas	2,741,771	2,730,765	2,721,955	2,712,598	2,701,456	2,692,810	2,654,052	2,638,667
Kentucky	4,182,293	4,147,970	4,118,627	4,091,330	4,069,191	4,048,903	3,960,825	3,934,310
Louisiana	4,497,691	4,489,327	4,474,726	4,466,068	4,460,816	4,468,979	4,372,035	4,362,758
Maine	1,311,631	1,308,253	1,303,102	1,293,938	1,284,791	1,277,211	1,253,040	1,247,554
Maryland	5,582,520	5,542,659	5,496,708	5,439,913	5,375,033	5,310,579	5,171,634	5,130,072
Massachusetts	6,453,031	6,451,279	6,451,637	6,440,978	6,411,730	6,363,015	6,175,169	6,144,407
Michigan	10,090,554	10,089,305	10,066,351	10,038,767	10,006,093	9,955,308	9,863,775	9,820,231
Minnesota	5,106,560	5,079,344	5,047,862	5,017,458	4,982,813	4,933,958	4,775,508	4,726,411

Geographic Area	Population Estimates							
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00	1-Jul-99	1-Jul-98
Mississippi	2,900,116	2,886,006	2,867,678	2,858,643	2,853,313	2,848,310	2,768,619	2,751,335
Missouri	5,806,639	5,758,444	5,714,847	5,680,852	5,643,986	5,606,065	5,468,338	5,437,562
Montana	934,801	925,887	916,750	909,868	905,873	903,293	882,779	879,533
Nebraska	1,751,721	1,742,184	1,733,680	1,725,083	1,717,948	1,713,345	1,666,028	1,660,772
Nevada	2,408,804	2,328,703	2,236,949	2,166,214	2,094,509	2,018,211	1,809,253	1,743,772
New Hampshire	1,301,415	1,292,766	1,281,871	1,271,163	1,256,879	1,240,446	1,201,134	1,185,823
New Jersey	8,621,837	8,611,530	8,583,481	8,544,115	8,489,469	8,430,921	8,143,412	8,095,542
New Mexico	1,916,538	1,891,829	1,869,683	1,850,035	1,828,809	1,820,813	1,739,844	1,733,535
New York	19,330,891	19,297,933	19,231,101	19,161,873	19,088,978	18,998,044	18,196,601	18,159,175
North Carolina	8,669,452	8,531,283	8,416,451	8,316,617	8,203,451	8,079,383	7,650,789	7,545,828
North Dakota	635,365	636,303	632,809	633,617	636,267	641,200	633,666	637,808
Ohio	11,475,262	11,464,593	11,445,180	11,420,981	11,396,874	11,363,844	11,256,654	11,237,752
Oklahoma	3,532,769	3,514,449	3,498,687	3,484,754	3,464,729	3,453,943	3,358,044	3,339,478
Oregon	3,617,869	3,573,505	3,550,180	3,517,111	3,470,382	3,430,891	3,316,154	3,282,055
Pennsylvania	12,418,161	12,388,368	12,357,524	12,326,302	12,299,533	12,285,504	11,994,016	12,002,329
Rhode Island	1,064,989	1,071,414	1,071,504	1,066,034	1,058,051	1,050,736	990,819	987,704
South Carolina	4,256,199	4,201,306	4,146,474	4,103,934	4,062,701	4,023,570	3,885,736	3,839,578
South Dakota	780,084	774,283	766,975	762,107	758,983	755,694	733,133	730,789
Tennessee	5,995,748	5,916,762	5,856,522	5,803,306	5,755,443	5,703,243	5,483,535	5,432,679
Texas	22,801,920	22,418,319	22,057,801	21,710,788	21,332,847	20,945,963	20,044,141	19,712,389
Utah	2,499,637	2,438,915	2,379,938	2,334,473	2,291,250	2,244,314	2,129,836	2,100,562
Vermont	618,814	618,145	616,559	614,950	612,153	609,903	593,740	590,579
Virginia	7,563,887	7,468,914	7,373,694	7,283,541	7,191,304	7,104,533	6,872,912	6,789,225
Washington	6,261,282	6,184,289	6,113,262	6,056,187	5,987,785	5,911,122	5,756,361	5,687,832
West Virginia	1,803,920	1,803,302	1,802,238	1,799,411	1,798,582	1,806,962	1,806,928	1,811,688
Wisconsin	5,541,443	5,511,385	5,476,796	5,446,766	5,408,769	5,374,254	5,250,446	5,222,124
Wyoming	506,242	502,988	499,189	497,069	492,982	493,958	479,602	480,045

Source:

1998 to 2005 States: Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2009 (NST-EST2008-01), Population Division, U.S. Census Bureau, Release Date: December 2009. (<http://www.census.gov/popest/states/NST-ann-est.html>)

Appendix A.1 Annual Estimates of the Resident Population for the United States and States

Table A.1.3 July 1, 1990 to July 1, 1997

Geographic Area	Population Estimates							
	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
United States	267,783,607	265,228,572	262,803,276	260,327,021	257,782,608	255,029,699	252,153,092	249,464,396
NORTHEAST	51,591,325	51,520,274	51,443,931	51,360,744	51,253,425	51,078,292	50,957,878	50,875,639
MIDWEST	62,675,478	62,371,519	61,991,920	61,572,173	61,176,124	60,711,099	60,217,499	59,765,440
SOUTH	94,176,777	92,947,197	91,777,714	90,573,372	89,329,642	88,101,757	86,892,174	85,731,747
WEST	59,340,027	58,389,582	57,589,711	56,820,732	56,023,417	55,138,551	54,085,541	53,091,570
Alabama	4,320,281	4,290,403	4,262,731	4,232,965	4,193,114	4,139,269	4,091,025	4,048,508
Alaska	608,846	604,918	601,345	600,624	596,993	587,073	569,273	553,120
Arizona	4,552,207	4,432,308	4,306,908	4,147,561	3,993,390	3,867,333	3,762,394	3,679,056
Arkansas	2,524,007	2,504,858	2,480,121	2,450,605	2,423,743	2,394,098	2,370,666	2,354,343
California	32,217,708	31,780,829	31,493,525	31,317,179	31,147,208	30,875,920	30,414,114	29,950,111
Colorado	3,891,293	3,812,716	3,738,061	3,653,910	3,560,884	3,459,995	3,367,567	3,303,862
Connecticut	3,268,514	3,267,030	3,265,293	3,268,346	3,272,325	3,274,997	3,288,640	3,289,056
Delaware	735,024	727,090	718,265	708,416	699,475	690,158	680,495	669,063
District of Columbia	528,752	538,273	551,273	564,982	576,358	584,183	593,239	603,814
Florida	14,683,350	14,426,911	14,185,403	13,961,798	13,713,593	13,504,775	13,289,497	13,018,365
Georgia	7,486,094	7,332,225	7,188,538	7,045,900	6,894,092	6,759,474	6,621,279	6,506,531
Hawaii	1,189,322	1,184,434	1,180,490	1,173,903	1,161,508	1,149,926	1,131,412	1,112,703
Idaho	1,210,638	1,187,706	1,165,000	1,135,459	1,101,204	1,066,490	1,038,915	1,011,882
Illinois	12,011,509	11,953,003	11,884,935	11,804,986	11,725,984	11,635,197	11,535,973	11,446,979
Indiana	5,872,370	5,834,908	5,791,819	5,745,626	5,701,965	5,648,649	5,602,062	5,555,097
Iowa	2,854,396	2,848,473	2,840,860	2,829,422	2,820,525	2,806,923	2,791,227	2,779,769
Kansas	2,616,339	2,598,266	2,586,942	2,569,118	2,547,605	2,526,042	2,495,209	2,480,683
Kentucky	3,907,816	3,881,051	3,855,248	3,823,215	3,792,288	3,756,358	3,714,686	3,692,584
Louisiana	4,351,390	4,338,763	4,327,978	4,306,500	4,284,749	4,270,849	4,240,950	4,219,179
Maine	1,245,215	1,241,436	1,237,438	1,237,687	1,238,256	1,235,748	1,235,439	1,231,296
Maryland	5,092,914	5,057,142	5,023,650	4,985,411	4,942,504	4,902,545	4,856,176	4,797,431
Massachusetts	6,115,476	6,085,393	6,062,335	6,031,352	6,010,884	5,993,474	5,998,652	6,018,664
Michigan	9,785,450	9,739,184	9,659,871	9,584,481	9,529,240	9,470,323	9,395,022	9,310,462
Minnesota	4,687,726	4,647,723	4,605,445	4,566,028	4,521,709	4,471,503	4,427,429	4,387,283

Geographic Area	Population Estimates							
	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
Mississippi	2,731,826	2,709,925	2,690,788	2,663,450	2,635,574	2,610,193	2,591,230	2,577,426
Missouri	5,407,113	5,367,888	5,324,610	5,281,206	5,237,757	5,193,686	5,157,770	5,126,370
Montana	878,706	876,656	868,522	854,923	839,876	822,436	807,837	799,824
Nebraska	1,656,042	1,647,657	1,635,142	1,621,551	1,612,149	1,602,406	1,590,805	1,580,664
Nevada	1,675,581	1,596,476	1,525,777	1,456,388	1,380,197	1,330,694	1,285,046	1,218,629
New Hampshire	1,173,239	1,160,768	1,145,604	1,133,054	1,122,191	1,112,766	1,107,055	1,111,831
New Jersey	8,054,178	8,009,624	7,965,523	7,918,796	7,874,891	7,827,770	7,784,269	7,757,158
New Mexico	1,722,939	1,706,151	1,682,417	1,653,329	1,614,937	1,580,750	1,547,115	1,519,933
New York	18,143,184	18,143,805	18,150,928	18,156,652	18,140,894	18,082,032	18,029,532	18,002,855
North Carolina	7,428,672	7,307,658	7,185,403	7,060,959	6,947,412	6,831,850	6,748,135	6,656,987
North Dakota	640,945	642,858	641,548	639,762	637,229	635,427	634,199	637,364
Ohio	11,212,498	11,187,032	11,155,493	11,111,451	11,070,385	11,007,609	10,933,683	10,861,837
Oklahoma	3,314,259	3,289,634	3,265,547	3,246,119	3,228,829	3,204,174	3,166,471	3,147,105
Oregon	3,243,254	3,195,087	3,141,421	3,087,142	3,034,490	2,973,934	2,918,745	2,858,547
Pennsylvania	12,015,888	12,038,008	12,044,780	12,042,545	12,022,128	11,980,819	11,943,160	11,895,604
Rhode Island	986,966	987,858	989,203	993,412	997,852	1,000,571	1,003,990	1,004,649
South Carolina	3,790,066	3,738,974	3,699,943	3,666,456	3,634,507	3,600,576	3,559,470	3,499,064
South Dakota	730,855	730,699	728,251	723,038	716,258	708,698	701,445	696,667
Tennessee	5,378,433	5,313,576	5,241,168	5,163,016	5,085,666	5,013,999	4,946,886	4,890,626
Texas	19,355,427	19,006,240	18,679,706	18,338,319	17,996,764	17,650,479	17,339,904	17,044,714
Utah	2,065,397	2,022,253	1,976,774	1,930,436	1,875,993	1,821,498	1,771,941	1,729,722
Vermont	588,665	586,352	582,827	578,900	574,004	570,115	567,141	564,526
Virginia	6,732,878	6,665,491	6,601,392	6,536,771	6,464,795	6,383,315	6,283,853	6,213,526
Washington	5,604,105	5,509,963	5,431,024	5,334,896	5,247,704	5,139,011	5,013,443	4,900,780
West Virginia	1,815,588	1,818,983	1,820,560	1,818,490	1,816,179	1,805,462	1,798,212	1,792,481
Wisconsin	5,200,235	5,173,828	5,137,004	5,095,504	5,055,318	5,004,636	4,952,675	4,902,265
Wyoming	480,031	480,085	478,447	474,982	469,033	463,491	457,739	453,401

Source:

1990 to 1999: State Population Estimates: Annual Time Series, July 1, 1990 to July 1, 1999 (ST-99-3), Population Division, U.S. Census Bureau, Release date December 29, 1999. (<http://www.census.gov/popest/archives/1990s/#state>)

Appendix A.2 Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States

Table A.2.1 July 1, 2006 to July 1, 2008

Sex and Age	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
BOTH SEXES	304,059,724	301,290,332	298,362,973
Under 1 year	4,201,170	4,146,043	4,087,143
1-17	69,740,678	69,713,176	69,506,551
0-17	73,941,848	73,859,219	73,593,694
18-44	113,189,914	112,890,919	112,736,765
45-64	78,058,246	76,597,783	74,768,298
65-84	33,147,948	32,427,161	31,983,212
85 and above	5,721,768	5,515,250	5,281,004
MALE	149,924,604	148,466,361	146,946,194
Under 1 year	2,149,572	2,121,233	2,090,538
1-17	35,683,945	35,674,183	35,571,939
0-17	37,833,517	37,795,416	37,662,477
18-44	57,523,012	57,296,414	57,161,408
45-64	38,103,272	37,375,414	36,465,150
65-84	14,601,238	14,224,218	13,979,102
85 and above	1,863,565	1,774,899	1,678,057
FEMALE	154,135,120	152,823,971	151,416,779
Under 1 year	2,051,599	2,024,810	1,996,605
1-17	34,056,732	34,038,993	33,934,612
0-17	36,108,331	36,063,803	35,931,217
18-44	55,666,902	55,594,505	55,575,357
45-64	39,954,974	39,222,369	38,303,148
65-84	18,546,710	18,202,943	18,004,110
85 and above	3,858,203	3,740,351	3,602,947

Source:

2006 to 2008: Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-02), Population Division, U.S. Census Bureau, Release Date: May 14, 2009 (<http://www.census.gov/popest/national/asrh/NC-EST2008-sa.html>)

Appendix A.2 Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States

Table A.2.2 July 1, 2000 to July 1, 2005

Sex and Age	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
BOTH SEXES	295,560,549	292,892,127	290,210,914	287,726,647	285,039,803	282,171,936
Under 1 year	4,060,289	4,011,746	3,954,056	3,906,734	3,869,666	3,837,273
1-17	69,318,128	69,154,345	69,024,830	68,923,588	68,729,227	68,518,337
0-17	73,378,417	73,166,091	72,978,886	72,830,322	72,598,893	72,355,610
18-44	112,664,613	112,788,199	112,676,959	112,762,972	112,701,999	112,329,017
45-64	72,765,367	70,636,368	68,602,939	66,542,344	64,407,072	62,410,319
65-84	31,695,435	31,452,802	31,236,249	31,043,943	30,914,100	30,790,994
85 and above	5,056,717	4,848,667	4,715,881	4,547,066	4,417,739	4,285,996
MALE	145,464,657	144,060,672	142,618,767	141,374,439	139,976,991	138,458,150
Under 1 year	2,076,297	2,051,607	2,021,991	1,997,734	1,978,857	1,963,021
1-17	35,478,835	35,396,317	35,335,741	35,292,343	35,208,944	35,122,420
0-17	37,555,132	37,447,924	37,357,732	37,290,077	37,187,801	37,085,441
18-44	57,039,079	57,042,629	56,887,466	56,922,920	56,828,285	56,546,782
45-64	35,475,721	34,415,403	33,414,782	32,401,391	31,353,639	30,371,026
65-84	13,808,811	13,655,138	13,518,700	13,394,135	13,300,401	13,208,742
85 and above	1,585,914	1,499,578	1,440,087	1,365,916	1,306,865	1,246,159
FEMALE	150,095,892	148,831,455	147,592,147	146,352,208	145,062,812	143,713,786
Under 1 year	1,983,992	1,960,140	1,932,065	1,909,000	1,890,809	1,874,252
1-17	33,839,293	33,758,027	33,689,089	33,631,245	33,520,283	33,395,917
0-17	35,823,285	35,718,167	35,621,154	35,540,245	35,411,092	35,270,169
18-44	55,625,534	55,745,570	55,789,493	55,840,052	55,873,714	55,782,235
45-64	37,289,646	36,220,965	35,188,157	34,140,953	33,053,433	32,039,293
65-84	17,886,624	17,797,664	17,717,549	17,649,808	17,613,699	17,582,252
85 and above	3,470,803	3,349,089	3,275,794	3,181,150	3,110,874	3,039,837

Source:

2000 to 2005: Annual Estimates of the Resident Population by Sex and Selected Age Groups for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-02), Population Division, U.S. Census Bureau, Release Date: May 14, 2009 (<http://www.census.gov/popest/national/asrh/NC-EST2008-sa.html>)

Appendix A.3 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States

Table A.3.1 July 1, 2006 to July 1, 2008

Sex and Age (Years)	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
BOTH SEXES	304,059,724	301,290,332	298,362,973
Under 5	21,005,852	20,730,216	20,435,715
5 to 9	20,065,249	19,836,930	19,654,941
10 to 14	20,054,627	20,291,912	20,562,276
15 to 19	21,514,358	21,445,610	21,246,129
20 to 24	21,058,981	20,961,811	20,930,788
25 to 29	21,333,743	20,956,207	20,487,531
30 to 34	19,597,822	19,444,992	19,532,489
35 to 39	20,993,781	21,123,246	21,071,835
40 to 44	21,507,349	21,959,214	22,408,755
45 to 49	22,879,874	22,855,384	22,755,127
50 to 54	21,492,191	21,016,461	20,455,141
55 to 59	18,583,445	18,244,457	18,206,835
60 to 64	15,102,736	14,481,481	13,351,195
65 to 69	11,348,682	10,758,338	10,369,927
70 to 74	8,774,259	8,611,388	8,545,240
75 to 79	7,275,163	7,342,877	7,392,914
80 to 84	5,749,844	5,714,558	5,675,131
85-89 years	3,571,977	3,478,925	3,335,935
90 to 94 years	1,574,705	1,505,323	1,453,258
95 to 99 years	482,959	450,879	419,777
100 years and over	92,127	80,123	72,034
MALE	149,924,604	148,466,361	146,946,194
Under 5	10,747,858	10,606,164	10,452,692
5 to 9	10,259,114	10,142,052	10,049,281
10 to 14	10,262,469	10,388,301	10,529,025
15 to 19	11,027,264	10,990,585	10,891,624
20 to 24	10,845,428	10,809,578	10,803,745
25 to 29	10,940,956	10,718,697	10,459,178
30 to 34	9,959,083	9,859,688	9,886,954

Sex and Age (Years)	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
35 to 39	10,568,801	10,626,443	10,588,993
40 to 44	10,745,556	10,950,322	11,162,393
45 to 49	11,314,075	11,299,780	11,240,279
50 to 54	10,538,558	10,293,519	10,014,972
55 to 59	9,014,715	8,851,435	8,836,165
60 to 64	7,235,924	6,930,680	6,373,734
65 to 69	5,306,217	5,022,262	4,837,027
70 to 74	3,958,711	3,873,974	3,834,210
75 to 79	3,096,817	3,115,556	3,124,901
80 to 84	2,239,493	2,212,426	2,182,964
85 to 89 years	1,247,456	1,204,940	1,144,693
90 to 94 years	476,402	444,651	420,679
95 to 99 years	120,471	109,200	98,614
100 years and over	19,236	16,108	14,071
FEMALE	154,135,120	152,823,971	151,416,779
Under 5	10,257,994	10,124,052	9,983,023
5 to 9	9,806,135	9,694,878	9,605,660
10 to 14	9,792,158	9,903,611	10,033,251
15 to 19	10,487,094	10,455,025	10,354,505
20 to 24	10,213,553	10,152,233	10,127,043
25 to 29	10,392,787	10,237,510	10,028,353
30 to 34	9,638,739	9,585,304	9,645,535
35 to 39	10,424,980	10,496,803	10,482,842
40 to 44	10,761,793	11,008,892	11,246,362
45 to 49	11,565,799	11,555,604	11,514,848
50 to 54	10,953,633	10,722,942	10,440,169
55 to 59	9,568,730	9,393,022	9,370,670
60 to 64	7,866,812	7,550,801	6,977,461
65 to 69	6,042,465	5,736,076	5,532,900
70 to 74	4,815,548	4,737,414	4,711,030
75 to 79	4,178,346	4,227,321	4,268,013
80 to 84	3,510,351	3,502,132	3,492,167
85 to 89 years	2,324,521	2,273,985	2,191,242
90 to 94 years	1,098,303	1,060,672	1,032,579

Sex and Age (Years)	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
95 to 99 years	362,488	341,679	321,163
100 years and over	72,891	64,015	57,963

Source:
2006 to 2008: Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-01), Population Division, U.S. Census Bureau, Release Date: May 14, 2009 (<http://www.census.gov/popest/national/asrh/NC-EST2008-sa.html>)

Appendix A.3 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.

Table A.3.2 July 1, 2000 to July 1, 2005

Sex and Age (Years)	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
BOTH SEXES	295,560,549	292,892,127	290,210,914	287,726,647	285,039,803	282,171,936
Under 5	20,301,446	20,058,731	19,770,278	19,533,670	19,348,331	19,186,365
5 to 9	19,505,775	19,579,623	19,737,870	19,965,243	20,229,583	20,474,990
10 to 14	20,823,279	21,098,577	21,178,064	21,098,045	20,887,927	20,618,738
15 to 19	20,993,786	20,677,486	20,446,240	20,346,043	20,297,606	20,259,270
20 to 24	20,888,280	20,814,308	20,590,627	20,266,098	19,781,537	19,123,840
25 to 29	19,868,938	19,391,195	18,999,502	18,860,998	18,922,077	19,302,216
30 to 34	19,947,731	20,356,136	20,634,366	20,777,337	20,720,756	20,538,149
35 to 39	20,912,834	20,974,431	21,348,409	21,813,918	22,273,147	22,658,230
40 to 44	22,800,961	23,003,803	22,950,489	22,931,942	22,839,928	22,522,829
45 to 49	22,450,997	22,093,428	21,745,258	21,267,443	20,707,327	20,221,013
50 to 54	19,980,832	19,481,439	19,031,192	18,692,750	18,661,789	17,774,074
55 to 59	17,340,463	16,478,842	15,718,310	15,081,786	13,933,556	13,558,753
60 to 64	12,993,075	12,582,659	12,108,179	11,500,365	11,104,400	10,856,479
65 to 69	10,127,031	9,955,168	9,743,483	9,580,972	9,531,609	9,517,421
70 to 74	8,512,846	8,516,798	8,605,870	8,701,562	8,791,332	8,851,629
75 to 79	7,417,621	7,421,451	7,468,842	7,451,132	7,443,412	7,435,511
80 to 84	5,637,937	5,559,385	5,418,054	5,310,277	5,147,747	4,986,433
85 to 89 years	3,198,235	3,077,139	3,025,456	2,938,778	2,878,240	2,813,678
90 to 94 years	1,401,683	1,344,285	1,285,319	1,230,702	1,180,313	1,128,675
95 to 99 years	390,980	366,818	348,751	324,598	307,165	292,194
100 years and over	65,819	60,425	56,355	52,988	52,021	51,449
MALE	145,464,657	144,060,672	142,618,767	141,374,439	139,976,991	138,458,150
Under 5	10,381,485	10,258,033	10,109,955	9,988,672	9,894,284	9,815,103
5 to 9	9,976,552	10,015,761	10,099,830	10,220,547	10,358,194	10,485,154
10 to 14	10,663,960	10,806,773	10,848,586	10,805,942	10,700,162	10,564,757
15 to 19	10,764,907	10,606,240	10,497,679	10,466,019	10,449,525	10,417,633
20 to 24	10,761,177	10,699,574	10,552,776	10,385,476	10,121,597	9,777,008
25 to 29	10,135,377	9,885,184	9,663,328	9,584,109	9,597,504	9,764,435
30 to 34	10,070,908	10,269,691	10,396,906	10,471,817	10,435,246	10,338,683
35 to 39	10,504,019	10,520,370	10,684,341	10,904,888	11,127,117	11,299,559

40 to 44	11,335,826	11,428,927	11,391,797	11,385,527	11,332,457	11,169,891
45 to 49	11,084,210	10,899,287	10,719,465	10,475,496	10,197,824	9,954,290
50 to 54	9,777,902	9,526,157	9,305,036	9,143,436	9,132,391	8,700,326
55 to 59	8,416,624	7,995,055	7,623,121	7,309,262	6,740,419	6,553,451
60 to 64	6,196,985	5,994,904	5,767,160	5,473,197	5,283,005	5,162,959
65 to 69	4,719,797	4,632,937	4,525,227	4,440,117	4,408,941	4,394,497
70 to 74	3,810,268	3,800,315	3,831,884	3,865,181	3,893,654	3,905,174
75 to 79	3,119,908	3,103,425	3,105,168	3,084,410	3,067,331	3,054,869
80 to 84	2,158,838	2,118,461	2,056,421	2,004,427	1,930,475	1,854,202
85 to 89 years	1,085,154	1,032,255	1,003,248	958,716	924,948	888,474
90 to 94 years	398,256	373,960	349,941	328,026	307,775	287,955
95 to 99 years	89,818	81,886	76,292	68,948	63,961	59,557
100 years and over	12,686	11,477	10,606	10,226	10,181	10,173
FEMALE	150,095,892	148,831,455	147,592,147	146,352,208	145,062,812	143,713,786
Under 5	9,919,961	9,800,698	9,660,323	9,544,998	9,454,047	9,371,262
5 to 9	9,529,223	9,563,862	9,638,040	9,744,696	9,871,389	9,989,836
10 to 14	10,159,319	10,291,804	10,329,478	10,292,103	10,187,765	10,053,981
15 to 19	10,228,879	10,071,246	9,948,561	9,880,024	9,848,081	9,841,637
20 to 24	10,127,103	10,114,734	10,037,851	9,880,622	9,659,940	9,346,832
25 to 29	9,733,561	9,506,011	9,336,174	9,276,889	9,324,573	9,537,781
30 to 34	9,876,823	10,086,445	10,237,460	10,305,520	10,285,510	10,199,466
35 to 39	10,408,815	10,454,061	10,664,068	10,909,030	11,146,030	11,358,671
40 to 44	11,465,135	11,574,876	11,558,692	11,546,415	11,507,471	11,352,938
45 to 49	11,366,787	11,194,141	11,025,793	10,791,947	10,509,503	10,266,723
50 to 54	10,202,930	9,955,282	9,726,156	9,549,314	9,529,398	9,073,748
55 to 59	8,923,839	8,483,787	8,095,189	7,772,524	7,193,137	7,005,302
60 to 64	6,796,090	6,587,755	6,341,019	6,027,168	5,821,395	5,693,520
65 to 69	5,407,234	5,322,231	5,218,256	5,140,855	5,122,668	5,122,924
70 to 74	4,702,578	4,716,483	4,773,986	4,836,381	4,897,678	4,946,455
75 to 79	4,297,713	4,318,026	4,363,674	4,366,722	4,376,081	4,380,642
80 to 84	3,479,099	3,440,924	3,361,633	3,305,850	3,217,272	3,132,231
85 to 89 years	2,113,081	2,044,884	2,022,208	1,980,062	1,953,292	1,925,204
90 to 94 years	1,003,427	970,325	935,378	902,676	872,538	840,720
95 to 99 years	301,162	284,932	272,459	255,650	243,204	232,637
100 years and over	53,133	48,948	45,749	42,762	41,840	41,276

Source:

2000 to 2005: Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-01) , Population Division, U.S. Census Bureau, Release Date: May 14, 2009
<http://www.census.gov/popest/national/asrh/NC-EST2008-sa.html>

Appendix A.3 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.

Table A.3.3 July 1, 1990 to July 1, 1999

Sex and Age (Years)	Population Estimates									
	1-Jul-99	1-Jul-98	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
BOTH SEXES	272690813	270248003	267783607	265228572	262803276	260327021	257782608	255029699	252153092	249464396
Under 5	18942142	18989257	19099249	19291502	19532169	19700108	19673867	19491502	19188843	18852851
5 to 9	19946746	19928847	19754207	19439035	19096223	18752341	18442266	18293025	18205189	18061843
10 to 14	19548484	19241660	19096798	19004243	18853020	18716418	18508355	18101979	17678757	17198108
15 to 19	19747923	19542440	19145541	18707606	18203372	17743433	17375467	17180337	17234545	17764520
20 to 24	18025589	17677919	17488230	17508039	17982219	18389381	18785250	19046759	19155834	19134952
25 to 29	18209100	18575490	18819546	18932709	18904773	19106616	19569992	20140008	20712833	21235575
30 to 34	19726712	20167644	20738793	21313162	21825415	22133354	22227090	22240333	22157083	21912156
35 to 39	22544607	22614989	22635710	22552740	22295957	21977726	21605134	21098465	20529533	19982168
40 to 44	22268042	21883387	21378319	20811935	20259474	19715739	19208998	18807044	18761252	17794548
45 to 49	19356220	18852790	18467213	18429568	17457759	16678468	15930626	15358613	14099374	13823785
50 to 54	16446138	15721545	15158420	13927628	13641557	13194708	12728287	12055115	11648304	11369647
55 to 59	12875299	12403383	11755421	11356458	11085969	10931364	10677528	10483139	10421869	10474089
60 to 64	10513786	10263413	10060752	9996771	10046058	10076850	10235836	10437743	10580835	10619134
65 to 69	9447220	9591688	9776591	9900853	9925554	9966670	10013239	9974420	10026944	10076737
70 to 74	8771028	8798280	8751096	8789240	8830969	8736312	8616309	8468195	8243536	8022791
75 to 79	7329496	7214680	7083334	6891267	6700096	6585524	6483139	6397718	6280414	6146687
80 to 84	4817199	4731566	4661019	4575336	4478096	4359501	4254980	4140372	4038804	3935220
85 and over	4175082	4049025	3913368	3800480	3684596	3562508	3446245	3314932	3189143	3059585
MALE	133276559	132029729	130783107	129504353	128293712	127049175	125787805	124423544	122956043	121626118
Under 5	9682675	9709498	9769920	9868521	9992754	10079810	10066665	9970476	9817974	9647699
5 to 9	10207957	10199013	10107140	9948347	9775021	9598441	9439850	9364515	9319765	9246147
10 to 14	10011707	9854546	9781492	9734881	9657597	9588142	9482687	9274387	9057319	8809631
15 to 19	10150997	10047136	9843696	9618771	9358564	9120060	8928357	8824776	8845250	9112608
20 to 24	9183052	8997009	8897077	8903850	9139731	9342109	9550314	9694624	9740632	9745780
25 to 29	9055292	9241874	9373687	9442254	9444002	9554525	9798370	10096362	10387056	10657551
30 to 34	9770996	9998726	10292264	10591770	10855762	11018219	11069829	11080075	11032866	10904589
35 to 39	11215732	11251693	11262884	11220622	11089178	10926187	10736041	10476402	10181766	9904304
40 to 44	11038584	10839044	10577932	10288927	10011832	9738197	9484827	9285454	9263889	8780143
45 to 49	9500663	9248723	9058661	9044980	8566288	8183643	7817621	7538660	6911390	6778877
50 to 54	7998425	7645907	7372734	6765810	6629362	6412536	6186866	5856145	5658121	5521381
55 to 59	6182625	5954985	5639517	5446957	5315445	5239862	5117318	5019791	4985034	5004238

Sex and Age (Years)	Population Estimates									
	1-Jul-99	1-Jul-98	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
60 to 64	4967782	4847212	4745290	4707672	4723625	4735244	4801715	4888513	4944271	4947718
65 to 69	4336705	4392318	4466811	4510551	4505580	4500541	4506211	4473889	4491005	4512573
70 to 74	3861991	3855823	3817155	3824557	3838722	3790312	3728740	3651187	3539030	3423328
75 to 79	3057003	2995971	2925182	2828602	2729185	2662639	2602378	2550072	2485665	2411677
80 to 84	1814131	1763682	1719526	1670920	1616136	1556195	1506088	1454604	1407749	1366013
85 and over	1240242	1186569	1132139	1086361	1044928	1002513	963928	923612	887261	851861
FEMALE	139414254	138218274	137000500	135724219	134509564	133277846	131994803	130606155	129197049	127838278
Under 5	9259467	9279759	9329329	9422981	9539415	9620298	9607202	9521026	9370869	9205152
5 to 9	9738789	9729834	9647067	9490688	9321202	9153900	9002416	8928510	8885424	8815696
10 to 14	9536777	9387114	9315306	9269362	9195423	9128276	9025668	8827592	8621438	8388477
15 to 19	9596926	9495304	9301845	9088835	8844808	8623373	8447110	8355561	8389295	8651912
20 to 24	8842537	8680910	8591153	8604189	8842488	9047272	9234936	9352135	9415202	9389172
25 to 29	9153808	9333616	9445859	9490455	9460771	9552091	9771622	10043646	10325777	10578024
30 to 34	9955716	10168918	10446529	10721392	10969653	11115135	11157261	11160258	11124217	11007567
35 to 39	11328875	11363296	11372826	11332118	11206779	11051539	10869093	10622063	10347767	10077864
40 to 44	11229458	11044343	10800387	10523008	10247642	9977542	9724171	9521590	9497363	9014405
45 to 49	9855557	9604067	9408552	9384588	8891471	8494825	8113005	7819953	7187984	7044908
50 to 54	8447713	8075638	7785686	7161818	7012195	6782172	6541421	6198970	5990183	5848266
55 to 59	6692674	6448398	6115904	5909501	5770524	5691502	5560210	5463348	5436835	5469851
60 to 64	5546004	5416201	5315462	5289099	5322433	5341606	5434121	5549230	5636564	5671416
65 to 69	5110515	5199370	5309780	5390302	5419974	5466129	5507028	5500531	5535939	5564164
70 to 74	4909037	4942457	4933941	4964683	4992247	4946000	4887569	4817008	4704506	4599463
75 to 79	4272493	4218709	4158152	4062665	3970911	3922885	3880761	3847646	3794749	3735010
80 to 84	3003068	2967884	2941493	2904416	2861960	2803306	2748892	2685768	2631055	2569207
85 and over	2934840	2862456	2781229	2714119	2639668	2559995	2482317	2391320	2301882	2207724

Source:

1990 to 1999: Population Estimates for the U.S., Regions, Divisions, and States by 5-year Age Groups and Sex: Time Series Estimates, July 1, 1990 to July 1, 1999 and April 1, 1990 Census Population Counts, Population Estimates Program, Population Division, U.S. Census Bureau, Washington, DC 20233, Internet Release Date: March 9, 2000.
(<http://www.census.gov/popest/archives/1990s/#state>)

Appendix A.4 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States

Table A.4.1 July 1, 2006 to July 1, 2008

Sex, Hispanic or Latino origin, and race	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
BOTH SEXES	304,059,724	301,290,332	298,362,973
One race	298,892,695	296,292,051	293,532,633
White	242,639,242	240,881,563	238,998,562
Black	39,058,834	38,621,603	38,160,182
AIAN	3,083,434	3,028,178	2,971,631
Asian	13,549,064	13,210,746	12,864,663
NHPI	562,121	549,961	537,595
Two or more races	5,167,029	4,998,281	4,830,340
Race alone or in combination:(1)			
White	247,112,954	245,202,728	243,168,230
Black	41,126,808	40,598,730	40,047,296
AIAN	4,861,963	4,778,713	4,693,618
Asian	15,480,349	15,074,845	14,662,015
NHPI	1,112,297	1,086,516	1,060,576
NOT HISPANIC OR LATINO	257,116,111	255,817,948	254,377,807
One race	252,664,449	251,504,047	250,201,093
White	199,491,458	199,059,764	198,518,169
Black	37,171,750	36,808,839	36,422,201
AIAN	2,328,982	2,299,352	2,268,614
Asian	13,237,698	12,909,770	12,574,205
NHPI	434,561	426,322	417,904
Two or more races	4,451,662	4,313,901	4,176,714
Race alone or in combination:(1)			
White	203,336,299	202,779,514	202,113,733
Black	38,915,749	38,477,100	38,015,441
AIAN	3,827,922	3,780,834	3,731,996
Asian	14,956,889	14,571,651	14,179,085
NHPI	899,371	881,159	862,719
HISPANIC OR LATINO	46,943,613	45,472,384	43,985,166

Sex, Hispanic or Latino origin, and race	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
One race	46,228,246	44,788,004	43,331,540
White	43,147,784	41,821,799	40,480,393
Black	1,887,084	1,812,764	1,737,981
AIAN	754,452	728,826	703,017
Asian	311,366	300,976	290,458
NHPI	127,560	123,639	119,691
Two or more races	715,367	684,380	653,626
Race alone or in combination:(1)			
White	43,776,655	42,423,214	41,054,497
Black	2,211,059	2,121,630	2,031,855
AIAN	1,034,041	997,879	961,622
Asian	523,460	503,194	482,930
NHPI	212,926	205,357	197,857
MALE	149,924,604	148,466,361	146,946,194
One race	147,369,737	145,997,475	144,562,509
White	120,326,022	119,375,244	118,373,824
Black	18,639,632	18,418,374	18,189,073
AIAN	1,544,661	1,516,549	1,487,990
Asian	6,573,734	6,407,843	6,238,431
NHPI	285,688	279,465	273,191
Two or more races	2,554,867	2,468,886	2,383,685
Race alone or in combination:(1)			
White	122,545,020	121,516,467	120,438,123
Black	19,651,276	19,383,649	19,108,578
AIAN	2,410,335	2,367,861	2,324,816
Asian	7,540,644	7,340,627	7,137,440
NHPI	559,750	546,683	533,549
NOT HISPANIC OR LATINO	125,670,207	124,981,195	124,234,519
One race	123,472,302	122,853,342	122,176,121
White	97,978,191	97,721,475	97,418,681
Black	17,708,252	17,525,237	17,334,055
AIAN	1,148,428	1,133,863	1,118,865
Asian	6,418,554	6,258,008	6,093,946
NHPI	218,877	214,759	210,574
Two or more races	2,197,905	2,127,853	2,058,398
Race alone or in combination:(1)			

Sex, Hispanic or Latino origin, and race	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
White	99,882,419	99,562,071	99,196,337
Black	18,559,060	18,337,429	18,108,145
AIAN	1,874,527	1,851,049	1,826,925
Asian	7,280,319	7,090,682	6,897,829
NHPI	450,389	441,286	432,068
HISPANIC OR LATINO	24,254,397	23,485,166	22,711,675
One race	23,897,435	23,144,133	22,386,388
White	22,347,831	21,653,769	20,955,143
Black	931,380	893,137	855,018
AIAN	396,233	382,686	369,125
Asian	155,180	149,835	144,485
NHPI	66,811	64,706	62,617
Two or more races	356,962	341,033	325,287
Race alone or in combination:(1)			
White	22,662,601	21,954,396	21,241,786
Black	1,092,216	1,046,220	1,000,433
AIAN	535,808	516,812	497,891
Asian	260,325	249,945	239,611
NHPI	109,361	105,397	101,481
FEMALE	154,135,120	152,823,971	151,416,779
One race	151,522,958	150,294,576	148,970,124
White	122,313,220	121,506,319	120,624,738
Black	20,419,202	20,203,229	19,971,109
AIAN	1,538,773	1,511,629	1,483,641
Asian	6,975,330	6,802,903	6,626,232
NHPI	276,433	270,496	264,404
Two or more races	2,612,162	2,529,395	2,446,655
Race alone or in combination:(1)			
White	124,567,934	123,686,261	122,730,107
Black	21,475,532	21,215,081	20,938,718
AIAN	2,451,628	2,410,852	2,368,802
Asian	7,939,705	7,734,218	7,524,575
NHPI	552,547	539,833	527,027
NOT HISPANIC OR LATINO	131,445,904	130,836,753	130,143,288
One race	129,192,147	128,650,705	128,024,972
White	101,513,267	101,338,289	101,099,488

Sex, Hispanic or Latino origin, and race	Population Estimates		
	1-Jul-08	1-Jul-07	1-Jul-06
Black	19,463,498	19,283,602	19,088,146
AIAN	1,180,554	1,165,489	1,149,749
Asian	6,819,144	6,651,762	6,480,259
NHPI	215,684	211,563	207,330
Two or more races	2,253,757	2,186,048	2,118,316
Race alone or in combination:(1)			
White	103,453,880	103,217,443	102,917,396
Black	20,356,689	20,139,671	19,907,296
AIAN	1,953,395	1,929,785	1,905,071
Asian	7,676,570	7,480,969	7,281,256
NHPI	448,982	439,873	430,651
HISPANIC OR LATINO	22,689,216	21,987,218	21,273,491
One race	22,330,811	21,643,871	20,945,152
White	20,799,953	20,168,030	19,525,250
Black	955,704	919,627	882,963
AIAN	358,219	346,140	333,892
Asian	156,186	151,141	145,973
NHPI	60,749	58,933	57,074
Two or more races	358,405	343,347	328,339
Race alone or in combination:(1)			
White	21,114,054	20,468,818	19,812,711
Black	1,118,843	1,075,410	1,031,422
AIAN	498,233	481,067	463,731
Asian	263,135	253,249	243,319
NHPI	103,565	99,960	96,376

(1) 'In combination' means in combination with one or more other races. The sum of the five race groups adds to more than the total population because individuals may report more than one race.

Source:

Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-03) Population Division, U.S. Census Bureau, Release Date: May 14, 2009. (<http://www.census.gov/popest/national/asrh/NC-EST2008-srh.html>)

Appendix A.4 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States

Table A.4.2 July 1, 2000 to July 1, 2005

Sex, Hispanic or Latino origin, and race	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
BOTH SEXES	295,560,549	292,892,127	290,210,914	287,726,647	285,039,803	282,171,936
One race	290,891,171	288,377,454	285,848,783	283,507,536	280,963,436	278,239,646
White	237,203,548	235,503,615	233,774,003	232,180,864	230,454,807	228,604,110
Black	37,732,116	37,335,214	36,939,439	36,603,681	36,222,802	35,806,848
AIAN	2,918,423	2,867,353	2,817,996	2,771,807	2,724,275	2,675,743
Asian	12,511,870	12,158,373	11,816,885	11,461,660	11,083,699	10,687,434
NHPI	525,214	512,899	500,460	489,524	477,853	465,511
Two or more races	4,669,378	4,514,673	4,362,131	4,219,111	4,076,367	3,932,290
Race alone or in combination:(1)						
White	241,228,151	239,388,844	237,521,836	235,799,309	233,945,047	231,965,180
Black	39,534,132	39,056,228	38,581,169	38,170,579	37,715,327	37,224,692
AIAN	4,613,113	4,535,891	4,460,087	4,390,012	4,317,537	4,243,326
Asian	14,244,202	13,827,288	13,423,521	13,009,894	12,573,938	12,119,080
NHPI	1,034,925	1,009,728	984,356	961,490	937,571	912,758
NOT HISPANIC OR LATINO	253,031,970	251,768,385	250,433,301	249,284,399	247,987,561	246,528,116
One race	248,986,747	247,849,949	246,641,065	245,610,649	244,432,175	243,092,814
White	198,037,466	197,607,714	197,108,548	196,748,769	196,310,974	195,762,721
Black	36,068,376	35,740,456	35,399,084	35,107,727	34,771,449	34,404,007
AIAN	2,239,622	2,211,486	2,183,401	2,158,150	2,131,522	2,104,175
Asian	12,231,732	11,888,798	11,556,968	11,210,202	10,840,545	10,452,788
NHPI	409,551	401,495	393,064	385,801	377,685	369,123
Two or more races	4,045,223	3,918,436	3,792,236	3,673,750	3,555,386	3,435,302
Race alone or in combination:(1)						
White	201,514,080	200,969,683	200,356,504	199,889,257	199,345,039	198,689,027
Black	37,590,977	37,195,592	36,787,645	36,433,352	36,034,601	35,604,204
AIAN	3,685,681	3,640,926	3,595,410	3,554,680	3,511,515	3,466,688
Asian	13,780,814	13,383,338	12,997,489	12,599,867	12,179,443	11,740,232
NHPI	844,500	826,778	808,527	792,139	774,540	756,229
HISPANIC OR LATINO	42,528,579	41,123,742	39,777,613	38,442,248	37,052,242	35,643,820
One race	41,904,424	40,527,505	39,207,718	37,896,887	36,531,261	35,146,832
White	39,166,082	37,895,901	36,665,455	35,432,095	34,143,833	32,841,389
Black	1,663,740	1,594,758	1,540,355	1,495,954	1,451,353	1,402,841
AIAN	678,801	655,867	634,595	613,657	592,753	571,568

Sex, Hispanic or Latino origin, and race	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
Asian	280,138	269,575	259,917	251,458	243,154	234,646
NHPI	115,663	111,404	107,396	103,723	100,168	96,388
Two or more races	624,155	596,237	569,895	545,361	520,981	496,988
Race alone or in combination:(1)						
White	39,714,071	38,419,161	37,165,332	35,910,052	34,600,008	33,276,153
Black	1,943,155	1,860,636	1,793,524	1,737,227	1,680,726	1,620,488
AIAN	927,432	894,965	864,677	835,332	806,022	776,638
Asian	463,388	443,950	426,032	410,027	394,495	378,848
NHPI	190,425	182,950	175,829	169,351	163,031	156,529
MALE	145,464,657	144,060,672	142,618,767	141,374,439	139,976,991	138,458,150
One race	143,163,082	141,837,608	140,473,867	139,301,182	137,975,766	136,530,070
White	117,397,175	116,474,121	115,512,463	114,694,700	113,768,111	112,754,319
Black	17,972,942	17,775,529	17,573,045	17,417,970	17,232,010	17,024,057
AIAN	1,460,869	1,435,266	1,410,034	1,387,578	1,363,748	1,339,118
Asian	6,065,289	5,892,071	5,724,164	5,552,054	5,368,843	5,175,857
NHPI	266,807	260,621	254,161	248,880	243,054	236,719
Two or more races	2,301,575	2,223,064	2,144,900	2,073,257	2,001,225	1,928,080
Race alone or in combination:(1)						
White	119,387,414	118,393,520	117,361,466	116,478,726	115,487,279	114,407,860
Black	18,849,095	18,610,544	18,367,486	18,174,675	17,951,067	17,705,159
AIAN	2,283,681	2,244,770	2,205,852	2,171,686	2,135,364	2,097,656
Asian	6,931,225	6,725,838	6,526,067	6,324,706	6,112,270	5,889,549
NHPI	520,432	507,829	494,782	483,640	471,790	459,222
NOT HISPANIC OR LATINO	123,513,931	122,846,697	122,111,196	121,559,185	120,891,382	120,116,154
One race	121,522,483	120,919,434	120,248,571	119,755,740	119,147,523	118,433,075
White	97,129,451	96,873,717	96,558,428	96,381,428	96,132,108	95,806,975
Black	17,155,910	16,993,824	16,819,387	16,686,389	16,523,066	16,339,897
AIAN	1,104,611	1,091,105	1,077,204	1,065,563	1,052,889	1,039,609
Asian	5,926,141	5,758,354	5,595,424	5,427,555	5,248,565	5,059,966
NHPI	206,370	202,434	198,128	194,805	190,895	186,628
Two or more races	1,991,448	1,927,263	1,862,625	1,803,445	1,743,859	1,683,079
Race alone or in combination:(1)						
White	98,846,513	98,532,664	98,159,011	97,928,211	97,625,185	97,245,468
Black	17,894,067	17,697,816	17,489,333	17,324,642	17,129,759	16,914,677
AIAN	1,803,797	1,781,895	1,758,938	1,739,858	1,718,993	1,696,873
Asian	6,701,662	6,506,213	6,315,612	6,122,307	5,917,737	5,703,053
NHPI	422,894	414,178	404,889	397,131	388,593	379,510

Sex, Hispanic or Latino origin, and race	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
HISPANIC OR LATINO	21,950,726	21,213,975	20,507,571	19,815,254	19,085,609	18,341,996
One race	21,640,599	20,918,174	20,225,296	19,545,442	18,828,243	18,096,995
White	20,267,724	19,600,404	18,954,035	18,313,272	17,636,003	16,947,344
Black	817,032	781,705	753,658	731,581	708,944	684,160
AIAN	356,258	344,161	332,830	322,015	310,859	299,509
Asian	139,148	133,717	128,740	124,499	120,278	115,891
NHPI	60,437	58,187	56,033	54,075	52,159	50,091
Two or more races	310,127	295,801	282,275	269,812	257,366	245,001
Race alone or in combination:(1)						
White	20,540,901	19,860,856	19,202,455	18,550,515	17,862,094	17,162,392
Black	955,028	912,728	878,153	850,033	821,308	790,482
AIAN	479,884	462,875	446,914	431,828	416,371	400,783
Asian	229,563	219,625	210,455	202,399	194,533	186,496
NHPI	97,538	93,651	89,893	86,509	83,197	79,712
FEMALE	150,095,892	148,831,455	147,592,147	146,352,208	145,062,812	143,713,786
One race	147,728,089	146,539,846	145,374,916	144,206,354	142,987,670	141,709,576
White	119,806,373	119,029,494	118,261,540	117,486,164	116,686,696	115,849,791
Black	19,759,174	19,559,685	19,366,394	19,185,711	18,990,792	18,782,791
AIAN	1,457,554	1,432,087	1,407,962	1,384,229	1,360,527	1,336,625
Asian	6,446,581	6,266,302	6,092,721	5,909,606	5,714,856	5,511,577
NHPI	258,407	252,278	246,299	240,644	234,799	228,792
Two or more races	2,367,803	2,291,609	2,217,231	2,145,854	2,075,142	2,004,210
Race alone or in combination:(1)						
White	121,840,737	120,995,324	120,160,370	119,320,583	118,457,768	117,557,320
Black	20,685,037	20,445,684	20,213,683	19,995,904	19,764,260	19,519,533
AIAN	2,329,432	2,291,121	2,254,235	2,218,326	2,182,173	2,145,670
Asian	7,312,977	7,101,450	6,897,454	6,685,188	6,461,668	6,229,531
NHPI	514,493	501,899	489,574	477,850	465,781	453,536
NOT HISPANIC OR LATINO	129,518,039	128,921,688	128,322,105	127,725,214	127,096,179	126,411,962
One race	127,464,264	126,930,515	126,392,494	125,854,909	125,284,652	124,659,739
White	100,908,015	100,733,997	100,550,120	100,367,341	100,178,866	99,955,746
Black	18,912,466	18,746,632	18,579,697	18,421,338	18,248,383	18,064,110
AIAN	1,135,011	1,120,381	1,106,197	1,092,587	1,078,633	1,064,566
Asian	6,305,591	6,130,444	5,961,544	5,782,647	5,591,980	5,392,822
NHPI	203,181	199,061	194,936	190,996	186,790	182,495
Two or more races	2,053,775	1,991,173	1,929,611	1,870,305	1,811,527	1,752,223
Race alone or in combination:(1)						

Sex, Hispanic or Latino origin, and race	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
White	102,667,567	102,437,019	102,197,493	101,961,046	101,719,854	101,443,559
Black	19,696,910	19,497,776	19,298,312	19,108,710	18,904,842	18,689,527
AIAN	1,881,884	1,859,031	1,836,472	1,814,822	1,792,522	1,769,815
Asian	7,079,152	6,877,125	6,681,877	6,477,560	6,261,706	6,037,179
NHPI	421,606	412,600	403,638	395,008	385,947	376,719
HISPANIC OR LATINO	20,577,853	19,909,767	19,270,042	18,626,994	17,966,633	17,301,824
One race	20,263,825	19,609,331	18,982,422	18,351,445	17,703,018	17,049,837
White	18,898,358	18,295,497	17,711,420	17,118,823	16,507,830	15,894,045
Black	846,708	813,053	786,697	764,373	742,409	718,681
AIAN	322,543	311,706	301,765	291,642	281,894	272,059
Asian	140,990	135,858	131,177	126,959	122,876	118,755
NHPI	55,226	53,217	51,363	49,648	48,009	46,297
Two or more races	314,028	300,436	287,620	275,549	263,615	251,987
Race alone or in combination:(1)						
White	19,173,170	18,558,305	17,962,877	17,359,537	16,737,914	16,113,761
Black	988,127	947,908	915,371	887,194	859,418	830,006
AIAN	447,548	432,090	417,763	403,504	389,651	375,855
Asian	233,825	224,325	215,577	207,628	199,962	192,352
NHPI	92,887	89,299	85,936	82,842	79,834	76,817

(1) 'In combination' means in combination with one or more other races. The sum of the five race groups adds to more than the total population because individuals may report more than one race.

Source:

Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: April 1, 2000 to July 1, 2008 (NC-EST2008-03) Population Division, U.S. Census Bureau, Release Date: May 14, 2009. (<http://www.census.gov/popest/national/asrh/NC-EST2008-srh.html>)

Appendix A.4 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.

Table A.4.3 July 1, 1990 to July 1 1999

Sex and Race/Ethnicity	Population Estimates									
	1-Jul-99	1-Jul-98	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
ALL RACES	272,691,000	270,248,000	267,784,000	265,229,000	262,803,000	260,327,000	257,783,000	255,030,000	252,153,000	249,464,000
Male	133,277,000	132,030,000	130,783,000	129,504,000	128,294,000	127,049,000	125,788,000	124,424,000	122,956,000	121,626,000
Female	139,414,000	138,218,000	137,001,000	135,724,000	134,510,000	133,278,000	131,995,000	130,606,000	129,197,000	127,838,000
WHITE	224,611,000	222,980,000	221,333,000	219,636,000	218,023,000	216,379,000	214,691,000	212,874,000	210,975,000	209,196,000
Male	110,336,000	109,480,000	108,624,000	107,749,000	106,920,000	106,067,000	105,208,000	104,287,000	103,297,000	102,399,000
Female	114,275,000	113,500,000	112,710,000	111,888,000	111,104,000	110,312,000	109,483,000	108,586,000	107,678,000	106,796,000
WHITE, NON-HISPANIC	196,049,000	195,414,000	194,746,000	194,037,000	193,328,000	192,538,000	191,697,000	190,726,000	189,634,000	188,596,000
Male	95,962,000	95,590,000	95,207,000	94,810,000	94,418,000	93,985,000	93,539,000	93,028,000	92,433,000	91,901,000
Female	100,087,000	99,824,000	99,539,000	99,228,000	98,909,000	98,552,000	98,158,000	97,698,000	97,201,000	96,694,000
BLACK	34,862,000	34,427,000	33,989,000	33,537,000	33,116,000	32,672,000	32,195,000	31,683,000	31,137,000	30,629,000
Male	16,557,000	16,342,000	16,127,000	15,907,000	15,706,000	15,491,000	15,262,000	15,014,000	14,738,000	14,495,000
Female	18,305,000	18,085,000	17,863,000	17,630,000	17,411,000	17,181,000	16,933,000	16,669,000	16,399,000	16,134,000
BLACK, NON-HISPANIC	196,049,000	195,414,000	194,746,000	194,037,000	193,328,000	192,538,000	191,697,000	190,726,000	189,634,000	188,596,000
Male	15,674,000	15,488,000	15,302,000	15,113,000	14,940,000	14,756,000	14,557,000	14,339,000	14,092,000	13,874,000
Female	17,418,000	17,230,000	17,038,000	16,838,000	16,650,000	16,454,000	16,238,000	16,007,000	15,767,000	15,529,000
AMERICAN INDIAN	2,397,000	2,361,000	2,326,000	2,290,000	2,256,000	2,222,000	2,187,000	2,149,000	2,112,000	2,075,000
Male	1,187,000	1,169,000	1,152,000	1,134,000	1,117,000	1,101,000	1,084,000	1,065,000	1,047,000	1,029,000
Female	1,211,000	1,192,000	1,174,000	1,156,000	1,138,000	1,121,000	1,103,000	1,084,000	1,065,000	1,046,000
AMERICAN INDIAN, NON-HISPANIC	2,026,000	2,002,000	1,979,000	1,956,000	1,932,000	1,909,000	1,884,000	1,858,000	1,831,000	1,804,000
Male	996,000	985,000	973,000	962,000	951,000	939,000	927,000	915,000	901,000	888,000
Female	1,030,000	1,018,000	1,006,000	994,000	982,000	970,000	957,000	944,000	930,000	916,000
ASIAN	10,820,000	10,479,000	10,135,000	9,765,000	9,408,000	9,054,000	8,710,000	8,324,000	7,929,000	7,564,000
Male	5,196,000	5,039,000	4,881,000	4,714,000	4,551,000	4,390,000	4,234,000	4,057,000	3,874,000	3,703,000
Female	5,624,000	5,441,000	5,254,000	5,051,000	4,857,000	4,664,000	4,476,000	4,267,000	4,055,000	3,861,000
ASIAN, NON-HISPANIC	10,186,000	9,863,000	9,537,000	9,186,000	8,846,000	8,511,000	8,184,000	7,817,000	7,439,000	7,090,000
Male	4,883,000	4,734,000	4,585,000	4,427,000	4,272,000	4,120,000	3,972,000	3,804,000	3,629,000	3,466,000
Female	5,303,000	5,129,000	4,952,000	4,759,000	4,574,000	4,390,000	4,212,000	4,013,000	3,810,000	3,624,000
HISPANIC	31,337,000	30,252,000	29,182,000	28,099,000	27,107,000	26,160,000	25,222,000	24,283,000	23,391,000	22,571,000

Sex and Race/Ethnicity	Population Estimates									
	1-Jul-99	1-Jul-98	1-Jul-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
Male	15,761,000	15,233,000	14,716,000	14,193,000	13,713,000	13,248,000	12,793,000	12,337,000	11,901,000	11,497,000
Female	15,576,000	15,018,000	14,466,000	13,906,000	13,394,000	12,912,000	12,430,000	11,945,000	11,490,000	11,074,000

Source:

Resident Population Estimates of the United States by Sex, Race, and Hispanic Origin: April 1, 1990 to July 1, 1999, with Short-Term Projection to November 1, 2000. Population Estimates Program, Population Division, U.S. Census Bureau, Washington, D.C. 20233, Internet Release Date: January 2, 2001. (<http://www.census.gov/popest/archives/1990s/#national>)

Appendix A.5 Annual Estimates of the U.S. Population by Community Income Quartile

Table A.5.1 2001 to 2009

Median Household Income Quartile	Population Estimates								
	2001	2002	2003	2004	2005	2006	2007	2008	2009
Missing(.)	0	0	0	0	0	0	9,075	9,190	9,795
Quartile 1	70,808,587	74,924,336	69,664,519	76,323,231	72,184,620	74,069,384	78,898,125	74,323,205	76,540,519
Quartile 2	72,417,821	67,591,640	73,559,081	73,175,783	73,179,269	72,324,060	73,098,292	79,674,949	78,172,879
Quartile 3	70,933,564	74,520,370	76,465,150	68,746,327	75,674,376	75,968,161	74,087,136	73,550,888	76,791,993
Quartile 4	69,738,298	69,706,370	70,937,808	74,642,649	74,058,028	75,615,954	74,907,340	76,508,631	75,038,638
Total U.S.	283,898,269	286,742,716	290,626,558	292,887,990	295,096,293	297,977,559	300,999,968	304,066,863	306,553,824

Source: Claritas Population Estimates, 2001 to 2009

Because the cut-points for the median household income quartiles are updated annually, the value ranges for the quartiles vary by year. The dollar ranges represented by each category are:

Median Household Income Quartile	Quartile Ranges								
	2001	2002	2003	2004	2005	2006	2007	2008	2009
Quartile 1	1- 33,999	1- 35,999	1- 35,999	1- 35,999	1- 36,999	1- 37,999	1- 38,999	1- 38,999	1- 39,999
Quartile 2	34,000- 43,999	36,000- 45,999	36,000- 44,999	36,000- 44,999	37,000- 45,999	38,000- 46,999	39,000- 47,999	39,000- 48,999	40,000- 49,999
Quartile 3	44,000- 58,999	46,000- 61,999	45,000- 59,999	45,000- 58,999	46,000- 60,999	47,000- 61,999	48,000- 62,999	49,000- 63,999	50,000- 65,999
Quartile 4	59,000+	62,000+	60,000+	59,000+	61,000+	62,000+	63,000+	64,000+	66,000+

In the HCUP databases, the data element ZIPINC_QRTL contains the median household income quartile, values 1 to 4, for the ZIP Code of the patient's residence. The above population data table uses the same definitions of median household income.

Appendix A.6 Annual Estimates of the U.S. Population by Urban/Rural Designation

Table A.6.1 2006 to 2009

Urban-Rural Designation	Population Estimates			
	2006	2007	2008	2009
Large metropolitan areas with at least 1 million residents	159,355,694	162,088,485	164,079,412	165,589,138
Small metropolitan areas with less than 1 million residents	88,627,068	88,650,898	89,549,946	90,581,938
Micropolitan	29,900,208	30,723,589	30,896,597	30,994,901
Not metropolitan or micropolitan	20,094,589	19,536,996	19,540,908	19,387,847
Total U.S.	297,977,559	300,999,968	304,066,863	306,553,824

Source: Claritas Population Estimates, 2006 to 2009

Table A.6.2 2000 to 2005

Urban-Rural Designation	Population Estimates					
	2000	2001	2002	2003	2004	2005
Large metropolitan areas with at least 1 million residents	148,719,266	150,561,933	152,424,045	154,950,524	156,588,524	157,808,829
Small metropolitan areas with less than 1 million residents	83,299,109	84,265,701	85,033,823	86,016,035	86,848,867	87,605,631
Micropolitan	28,841,168	29,095,533	29,288,910	29,542,228	29,502,573	29,686,671
Not metropolitan or micropolitan	19,832,671	19,975,102	19,995,938	20,117,771	19,948,026	19,995,162
Total U.S.	280,692,215	283,898,269	286,742,716	290,626,558	292,887,990	295,096,293

Source: Claritas Population Estimates, 2000 to 2005

In the HCUP databases, the data element PL_URCAT4 contains the four category urban-rural designation for the patient's county of residence. The above population data table uses the same definitions of urban-rural designation.

APPENDIX B. USING PAYER POPULATION ESTIMATES FROM THE CPS WITH HCUP DATA

Rosanna M. Coffey, Ph.D., Katharine Levit, and Marguerite Barrett

During the development of AHRQ Quality Indicator (QI) estimates from HCUP data for the first National Healthcare Quality Report (NHQR), the possibility of using the Current Population Survey (CPS) for population denominators related to QIs stratified by hospital bill payer was considered and abandoned. The difficulty was that the NHQR measures were categorized by the primary expected payer of the hospital bill (a mutually exclusive concept in HCUP), while the CPS captures the health insurance coverage of the population, where one respondent can have multiple types of coverage. Our assessment was that there was not a ready translation from CPS counts by health insurance coverage (including uninsured) to HCUP primary payer categories (including no payment, government subsidy programs, and liability insurance) and that a quick attempt at such a translation was not defensible. When we attempted to create mutually exclusive payer categories from CPS data, the payer categories underestimated some payer populations.

Below we raise some of the differences between HCUP and CPS that we are aware of. We present them here, in case HCUP data users are considering using the CPS as population denominators. Solutions to these issues would require an investment of resources and more exploration.

To understand the following discussion, it is important to be familiar with how HCUP retains information on the expected primary payer. The coding schemes utilized by state-specific data sources are retained as provided in the HCUP data element PAY1_X. During the processing of the data into HCUP uniform files, the state-specific coding in PAY1_X is mapped into a uniform coding scheme in the HCUP data element PAY1. For example, any state-specific values in PAY1_X that refer to either fee-for-service and managed care Medicare patients are mapped to the value one (1) for PAY1. The uniform coding scheme of PAY1 simplifies the analysis of the expected primary payer across states, but often obscures the additional detail available in PAY1_X.

Payer vs. Insurance Conceptual Differences

Problem: Because the concepts of HCUP “payer” and CPS “insurance” are inherently different, there will never be an exact match between the two. CPS represents health insurance coverage (including multiple coverages) plus an estimate of the uninsured. HCUP retains the hospital primary bill payers (including a category for when there is no payment). The devil is in the details.

Potential Solution: To address the issue of conceptual differences in payers, one could impute ‘primary’ insurance coverage for individuals in CPS who have multiple coverages. This would be done by employing a set of rules as to which insurance takes precedence over other insurance coverages when it comes to paying bills. Such an order of precedence would most likely be Medicare, other government insurance (CHAMPVA, CHAMPUS), private insurance, and Medicaid. After each individual with multiple coverages in CPS is assigned a primary insurer, then the CPS data can be tabulated to create “primary payer” denominators for Medicare, CHAMPVA/CHAMPUS, private insurance, and Medicaid.

Tabulations could also be made of the uninsured, which for CPS would be any person not covered by one of these previously mentioned insurance programs. Similar counts of the uninsured in HCUP include “no charge,” “self-pay,” and government program payments sometimes identified in the state-specific payer field (PAY1_X). In addition, CPS tabulations could be made of workers, which would be an appropriate denominator for analysis of certain states where the data element PAY1_X indicates workers’ compensation as the primary payer. (Ninety-six percent of all workers are covered by workers’ compensation, so this is a reasonable denominator for this payer type.)

Note that CPS would not be useful in creating population denominators similar to state-specific payer categories (PAY1_X) for programs that pay for services but are not insurance (e.g., maternal and child health programs, state-county run mental health and substance abuse programs, black lung program, corrections system, etc.) or for homeowners or automobile liability insurance payments. CPS respondents who only have coverage through these programs would be considered uninsured.

Other Payer vs. Uninsured

Problem: HCUP uniform coding of payer (PAY1) identifies the following government subsidy programs (other than Medicaid) in an “other” payer group: CHAMPUS, CHAMPVA, Indian Health Service, child health insurance programs, maternal and child health programs, state-county run mental health and substance abuse programs, black lung program, corrections system, and other general assistance state and county programs. Also included in the “other” payer group are non-government payers such as workers’ compensation¹, accident insurance, etc. CPS, which aims to measure health insurance coverage of the population, counts people in government assistance programs (other than Medicaid) as part of the uninsured population if they have no other health insurance coverage. HCUP uniform coding (PAY1) includes a category for “self-pay” and “no charge” (uninsured from the hospital perspective).

Potential Solution: For analyses of specific states, it would be possible to regroup the state-specific payer categories (PAY1_X) involving government subsidy programs (other than Medicare, Medicaid, and CHAMPUS/CHAMPVA) as uninsured for comparability with the CPS. This may or may not be helpful, depending on the purpose of the analysis.

Total vs. Non-Institutionalized Populations

Problem: The CPS universe covers only the non-institutionalized population, whereas HCUP covers hospital stays for the entire population. The most obvious segment of the population missing from the CPS universe but included in HCUP is the aged population residing in nursing homes.

Potential Solution: This mismatch is difficult to solve because the data provided to HCUP does not contain accurate information on which admissions are from or to nursing homes. Because many patients from nursing homes are admitted to the hospital through the emergency department, identifying admissions from and discharges to nursing homes from the HCUP data elements for the patient admission route and discharge disposition underestimates the actual number.

¹ Workers’ Compensation is state mandated, but is fully funded by employers. It becomes the sole payer of services once liability is established.

Time Dimension Differences

Problem: Another issue to consider is the time dimension of the two measures – a point in time for a HCUP discharge versus recall for a year in the CPS. Even if the two sources could be joined, the estimates will undoubtedly differ by a factor related to time dimension because some people change insurance categories during the year (e.g. uninsured to Medicaid).

Potential Solution: No immediate solution.

Uniform Payer Tangent

Problem: A tangential issue that is worth considering is the inconsistency in the state-specific reporting of payer categories which limits the creation of truly consistent uniform HCUP categories for PAY1. For example, in scrolling through state-specific HCUP documentation for the uniformly coded expected payer PAY1, Hill-Burton charity care is often classified as “no-charge,” but sometimes included under “other payer” when the state-specific data source combines Hill-Burton and other government programs into one “other government” category. In addition, state-specific data sources sometimes do not distinguish other government programs from other non-government programs. This distinction would be beneficial for HCUP and its consistency with CPS.

Solution: No immediate solution.

Other Considerations

There are two other considerations for better aligning HCUP to CPS and for using other, more definitive sources for some denominators:

Using HCUP Secondary Payer. There may be other ways to use HCUP payer data, depending on the purpose of the analysis. For example, analysts might use both the primary and secondary payer categories (available for some states) in HCUP to get a better idea of the number and types of discharges that are covered by various insurance payers and programs. All of the combinations of payers in the CPS could be compared with the relevant combinations in HCUP. This would allow for more careful construction of payer denominators for studies of specific populations. Rules (such as who is likely to pay the bill, as noted above) also could still be used to collapse to more manageable groups for analysis. Again the other payers would have to be grouped into no insurance, and people covered in the hospital by workers’ compensation would have to be paired with CPS “counts-of-workers” denominators or left out.

More Definitive Sources. Alternatively, beneficiary counts for major payers (Medicare, private insurance, Medicaid, no charge, and self-pay) should be able to be tied to population estimates nationally and at the state level from definitive programmatic and other survey sources. It may be best to use CMS Medicare and CMS or state Medicaid enrollment as the definitive source for those programs and to use CPS for private insurance and uninsured. For other payers, depending on the analytic need, it might be best to obtain counts (person-years) for many of these programs directly from the agencies involved. For example, the National Academy for Social Insurance develops counts of people covered by workers’ compensation in recent years (http://www.nasi.org/publications2763/publications_show.htm?doc_id=385937), while the Indian Health Services counts people eligible for IHS services. Counts for other populations might be explored (e.g., the nursing home population).

Some of the issues presented above need to be assessed. The more important issues that would have a major impact on population estimates would need to be dealt with in some effective way for HCUP numbers to be related to population insurance estimates in some reasonable manner.

APPENDIX C. CALCULATING STANDARD ERRORS FOR POPULATION-BASED RATES FROM HCUP DATA

When calculating population-based rates using HCUP data as the numerator and Census population data as the denominator, standard errors for each component must be carefully calculated. For estimates based on the HCUP nationwide databases – Nationwide Inpatient Sample (NIS), Kids' Inpatient Sample, and Nationwide Emergency Department Sample (NEDS) – the standard errors should be calculated as described in the HCUP report entitled *Calculating Nationwide Inpatient Sample (NIS) Variances* (Houchens, et al., 2005). This report will simply be referred to as the NIS Variance Report throughout this appendix. The method for calculating standard errors takes into account the cluster and stratification aspects of the NIS, KID, and NEDS sample design when calculating these statistics using the SAS procedure PROC SURVEYMEANS. For estimates based on the HCUP state databases – State Inpatient Databases (SID), State Emergency Department Databases (SEDD), and State Ambulatory Surgery Databases (SASD) – the same procedure omitting the cluster and stratification features should be used. For population counts based on Census data, there is no sampling error.

Step-By-Step Example

Consider the following example of calculating a population-based rate and standard error using the NIS as the numerator and Census data as the denominator. The rate for the adult admissions for diabetes in the US per 100,000 U.S. population, age 18 and above is defined as follows:

$$\frac{\text{Number of weighted NIS discharges age 18 and above with a diagnosis of diabetes}}{\text{U.S. adult population count from the Census for the same data year}} * 100,000$$

Step1: Define the population of interest in the NIS. Create a 0/1 variable named DIABETES in which the value 1 indicates adult discharges with a diagnosis of diabetes and the value 0 is used for all other discharges.

Step 2: Calculate the numerator and standard deviation of the numerator using the NIS. The example below for calculating the numerator and standard deviation uses the SAS procedure PROC SURVEYMEANS. It is important to include statements for cluster, strata, and weight because the NIS is a stratified sample. The NIS Variance report provides more detail on the purpose of these SAS statements and also provides example code for other statistical software packages.

```
ods listing close;
proc surveymeans data=NISdataset SUM STD ;
  cluster hospid ;
  strata nis_stratum;
  var DIABETES;
  weight discwt;
  ods output statistics=NIS_COUNTS;
  title2 "NIS weighted counts for 0/1 variable DIABETES";
ods listing;
```

In the PROC SURVEYMEANS output data set, the sum is the numerator of the rate (call this "NIS_TOP" for this example) and std is the standard deviation of numerator (call this

"NISTOP_SD" for this example). The actual configuration of the output data set depends on the version of SAS.

Step 3: Determine the appropriate population denominator from Census data. There is no error associated with the Census population count. For this example, call the population count "ADULT_US_POP"

Step 4: Calculate rate and standard error of the rate. Calculate the population-based rate per 100,000 population and the standard error of the rate as follows:

$$\text{Rate} = \frac{\text{NIS_TOP}}{\text{Adult_US_POP}} * 100,000$$

$$\text{SE of Rate} = \frac{\text{NISTOP_SD}}{\text{Adult_US_POP}} * 100,000$$