



H·CUP

HEALTHCARE COST AND UTILIZATION PROJECT

HCUP Methods Series



Agency for Healthcare
Research and Quality



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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) – a nationwide sample of pediatric inpatient discharges.
- 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 for only one or a few states.

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 at 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/health/carefinancing/state_profiles_reforming_the_health_care_system_20.html
Published Statistics: http://www.aarp.org/research/health/carefinancing/state_profiles_reforming_the_health_care_system_20.html#states
Online Query System: None

American Community Survey (ACS)
<p>Sponsor:</p> <p>United States Census Bureau</p>
<p>Data Collection Method:</p> <p>Survey forms mailed, computer assisted telephone interviewing, and computer assisted personal interviewing</p>
<p>Population Targeted:</p> <p>Resident population 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, county</p> <p>Diseases and Health: None</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1999</p>
<p>Data System Home Page:</p> <p>http://www.census.gov/acs/www/</p>
<p>Published Statistics:</p> <p>http://factfinder.census.gov/home/saff/main.html?_lang=en</p>
<p>Online Query System:</p> <p>American Fact Finder http://factfinder.census.gov/home/saff/main.html?_lang=en</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

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>http://www.arfsys.com/ Click on "ARF Info" to access the query system.</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/Trends/TrendData.asp</p> <p>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/beahome.html
Published Statistics: http://www.bea.gov/bea/pubs.htm
Online Query System: Available

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/data/home.htm#tools
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)
Sponsor: Bureau of Labor Statistics and Bureau of the Census
Data Collection Method: Phone survey, with periodic surveys conducted by an interviewer who visits the sample unit
Population Targeted: Civilian non-institutionalized population in the United States
Types of Available Information: Demographic Information: Age, gender, race/ethnicity, marital status, education, etc. Geographic Entity: National, state 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.
Update Cycle: Monthly
Data System Home Page: http://www.bls.census.gov/cps/cpsmain.htm
Published Statistics: http://www.bls.census.gov/cps/pubsmain.htm
Online Query System: DataFerrett: http://dataferrett.census.gov/index.html

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 Service 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_QjzKL9453dHIHSYGYfjb6kehCFhhCJpa-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/about/major/slaits/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/healthinformation/ncs-r.cfm Substance Abuse and Mental Health Data Archive http://webapp.icpsr.umich.edu/cocoon/SAMHDA-STUDY/04438.xml 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/about/major/nhanes/survey_results_and_products.htm</p> <p>NCHS Health e-Stats http://www.cdc.gov/nchs/products/pubs/pubd/hestats/hestats.htm</p>
<p>Online Query System:</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

National Health Interview Survey (NHIS)
<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 survey consisting of computer-assisted individual interviews</p>
<p>Population Targeted:</p> <p>Civilian non-institutionalized population residing in the United States, all ages</p>
<p>Types of Available Information:</p> <p>Demographic Information: Gender, age, race/ethnicity, income, marital status</p> <p>Geographic Entity: National</p> <p>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.).</p>
<p>Update Cycle:</p> <p>Annual, beginning in 1969</p>
<p>Data System Home Page:</p> <p>http://www.cdc.gov/nchs/nhis.htm</p>
<p>Published Statistics:</p> <p>NCHS Series 10 Data from NHIS: http://www.cdc.gov/nchs/products/pubs/pubd/series/sr10/ser10.htm</p> <p>Advanced Data Reports: http://www.cdc.gov/nchs/about/major/nhis/nhisadr.htm</p> <p>NCHS Health e-Stats http://www.cdc.gov/nchs/products/pubs/pubd/hestats/hestats.htm</p>
<p>Online Query System:</p> <p>DataFerrett: http://dataferrett.census.gov/index.html</p>

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

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.4woman.gov/quickhealthdata/
Published Statistics: http://www.4woman.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/hhes/www/sahie/publications.html</p>
<p>Online Query System:</p> <p>http://www.census.gov/hhes/www/sahie/data.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/about/major/slaits/Publications_and_Presentations.htm</p>
<p>Online Query System:</p> <p>None</p>

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

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.sipp.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
Published Statistics: Study findings: http://depts.washington.edu/uwrhrc/rhrc_findings.php RUCA data demographics: http://depts.washington.edu/uwruca/demog.html
Online Query System: None

APPENDIX A. CENSUS POPULATION DATA

Appendix A includes a collection of Census population tables to facilitate the use of this type of information. Tables include the following information for 1990 to 2005:

- 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, 1990 to July 1, 1997
 - Table A.1.2 Annual Estimates of the Population for the United States and States: July 1, 1998 to July 1, 2005
- Annual estimates of the resident U.S. population by gender and five-year age groups
 - Table A.2.1 Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: July 1, 1990 to July 1, 1997
 - Table A.2.2 Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: July 1, 1998 to July 1, 2005
- Annual estimates of the resident U.S. population by gender and race/ethnicity
 - Table A.3.1 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 1990 to July 1, 1999
 - Table A.3.2 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 2000 to July 1, 2005

Table A.1.1 Annual Estimates of the Resident Population for the United States and States: July 1, 1990 to July 1, 1997

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	296,410,404	293,656,842	290,850,005	287,984,799	285,107,923	282,193,477	272,690,813	270,248,003
NORTHEAST	54,641,895	54,582,015	54,427,095	54,191,677	53,935,435	53,671,932	51,829,962	51,685,676
New England	14,239,724	14,221,651	14,194,106	14,126,418	14,043,298	13,953,025	13,495,933	13,428,630
Middle Atlantic	40,402,171	40,360,364	40,232,989	40,065,259	39,892,137	39,718,907	38,334,029	38,257,046
MIDWEST	65,971,974	65,693,747	65,409,523	65,096,802	64,809,640	64,497,349	63,242,284	62,950,532
East North Central	46,156,447	45,996,435	45,827,895	45,624,745	45,436,270	45,226,042	44,442,146	44,257,498
West North Central	19,815,527	19,697,312	19,581,628	19,472,057	19,373,370	19,271,307	18,800,138	18,693,034
SOUTH	107,505,413	105,994,495	104,552,849	103,194,552	101,856,767	100,566,409	96,468,455	95,348,823
South Atlantic	56,179,519	55,281,439	54,391,230	53,578,163	52,761,767	51,961,579	49,560,021	48,926,635
East South Central	17,615,260	17,461,276	17,341,020	17,225,310	17,138,777	17,053,149	16,582,841	16,469,361
West South Central	33,710,634	33,251,780	32,820,599	32,391,079	31,956,223	31,551,681	30,325,593	29,952,827
WEST	68,291,122	67,386,585	66,460,538	65,501,768	64,506,081	63,457,787	61,150,112	60,262,972
Mountain	20,291,305	19,826,259	19,413,414	19,049,919	18,659,421	18,273,124	17,127,479	16,804,614
Pacific	47,999,817	47,560,326	47,047,124	46,451,849	45,846,660	45,184,663	44,022,633	43,458,358
United States	296,410,404	293,656,842	290,850,005	287,984,799	285,107,923	282,193,477	272,690,813	270,248,003
Alabama	4,557,808	4,525,375	4,501,862	4,480,139	4,467,461	4,452,339	4,369,862	4,351,037
Alaska	663,661	657,755	648,510	640,699	632,249	627,500	619,500	615,205
Arizona	5,939,292	5,739,879	5,577,784	5,438,159	5,295,929	5,165,993	4,778,332	4,667,277
Arkansas	2,779,154	2,750,000	2,726,166	2,706,606	2,691,581	2,678,511	2,551,373	2,538,202
California	36,132,147	35,842,038	35,456,602	34,988,088	34,526,660	34,002,756	33,145,121	32,682,794
Colorado	4,665,177	4,601,821	4,548,071	4,498,407	4,427,016	4,326,926	4,056,133	3,968,967
Connecticut	3,510,297	3,498,966	3,485,881	3,458,382	3,432,463	3,412,263	3,282,031	3,272,563
Delaware	843,524	830,069	817,827	805,767	795,417	786,441	753,538	744,066
District of Columbia	550,521	554,239	557,846	564,624	569,321	571,044	519,000	521,426

Table A.1.1 Annual Estimates of the Resident Population for the United States and States: July 1, 1990 to July 1, 1997 (continued)

Geographic Area	Population Estimates							
Florida	17,789,864	17,385,430	16,993,369	16,677,860	16,350,565	16,048,887	15,111,244	14,908,230
Georgia	9,072,576	8,918,129	8,746,849	8,581,731	8,415,600	8,230,155	7,788,240	7,636,522
Hawaii	1,275,194	1,262,124	1,248,200	1,234,401	1,221,855	1,212,125	1,185,497	1,190,472
Idaho	1,429,096	1,395,140	1,368,111	1,343,973	1,321,162	1,299,680	1,251,700	1,230,923
Illinois	12,763,371	12,712,016	12,649,940	12,586,839	12,518,506	12,439,738	12,128,370	12,069,774
Indiana	6,271,973	6,226,537	6,196,269	6,154,739	6,125,677	6,091,955	5,942,901	5,907,617
Iowa	2,966,334	2,952,904	2,941,362	2,934,340	2,931,272	2,928,460	2,869,413	2,861,025
Kansas	2,744,687	2,733,697	2,724,224	2,712,454	2,700,879	2,692,671	2,654,052	2,638,667
Kentucky	4,173,405	4,141,835	4,116,780	4,088,510	4,066,908	4,049,005	3,960,825	3,934,310
Louisiana	4,523,628	4,506,685	4,490,380	4,475,003	4,465,258	4,469,495	4,372,035	4,362,758
Maine	1,321,505	1,314,985	1,308,245	1,296,978	1,286,350	1,277,397	1,253,040	1,247,554
Maryland	5,600,388	5,561,332	5,512,477	5,442,268	5,379,591	5,311,543	5,171,634	5,130,072
Massachusetts	6,398,743	6,407,382	6,417,565	6,411,568	6,394,750	6,362,132	6,175,169	6,144,407
Michigan	10,120,860	10,104,206	10,078,146	10,039,379	10,002,663	9,956,111	9,863,775	9,820,231
Minnesota	5,132,799	5,096,546	5,061,662	5,023,526	4,984,621	4,933,756	4,775,508	4,726,411
Mississippi	2,921,088	2,900,768	2,880,793	2,866,349	2,857,577	2,848,753	2,768,619	2,751,335
Missouri	5,800,310	5,759,532	5,718,717	5,681,045	5,643,326	5,606,265	5,468,338	5,437,562
Montana	935,670	926,920	917,885	910,395	906,098	903,510	882,779	879,533
Nebraska	1,758,787	1,747,704	1,738,013	1,726,753	1,718,965	1,713,261	1,666,028	1,660,772
Nevada	2,414,807	2,332,898	2,241,700	2,167,867	2,094,827	2,018,214	1,809,253	1,743,772
New Hampshire	1,309,940	1,299,169	1,287,594	1,274,666	1,258,546	1,240,554	1,201,134	1,185,823
New Jersey	8,717,925	8,685,166	8,640,028	8,576,089	8,504,864	8,433,704	8,143,412	8,095,542
New Mexico	1,928,384	1,903,006	1,879,252	1,855,400	1,832,608	1,821,526	1,739,844	1,733,535
New York	19,254,630	19,280,727	19,228,031	19,164,755	19,091,210	18,998,889	18,196,601	18,159,175

Table A.1.1 Annual Estimates of the Resident Population for the United States and States: July 1, 1990 to July 1, 1997 (continued)

Geographic Area	Population Estimates							
	1990	1991	1992	1993	1994	1995	1996	1997
North Carolina	8,683,242	8,540,468	8,422,375	8,312,755	8,198,279	8,078,429	7,650,789	7,545,828
North Dakota	636,677	636,308	633,051	633,571	636,239	641,153	633,666	637,808
Ohio	11,464,042	11,450,143	11,431,748	11,404,651	11,384,992	11,363,809	11,256,654	11,237,752
Oklahoma	3,547,884	3,523,546	3,504,917	3,487,076	3,465,778	3,454,321	3,358,044	3,339,478
Oregon	3,641,056	3,591,363	3,562,681	3,522,342	3,473,484	3,431,070	3,316,154	3,282,055
Pennsylvania	12,429,616	12,394,471	12,364,930	12,324,415	12,296,063	12,286,314	11,994,016	12,002,329
Rhode Island	1,076,189	1,079,916	1,075,729	1,068,550	1,058,365	1,050,742	990,819	987,704
South Carolina	4,255,083	4,197,892	4,146,753	4,102,568	4,059,615	4,023,560	3,885,736	3,839,578
South Dakota	775,933	770,621	764,599	760,368	758,068	755,741	733,133	730,789
Tennessee	5,962,959	5,893,298	5,841,585	5,790,312	5,746,831	5,703,052	5,483,535	5,432,679
Texas	22,859,968	22,471,549	22,099,136	21,722,394	21,333,606	20,949,354	20,044,141	19,712,389
Utah	2,469,585	2,420,708	2,378,696	2,336,673	2,287,736	2,243,136	2,129,836	2,100,562
Vermont	623,050	621,233	619,092	616,274	612,824	609,937	593,740	590,579
Virginia	7,567,465	7,481,332	7,383,387	7,286,061	7,191,941	7,104,078	6,872,912	6,789,225
Washington	6,287,759	6,207,046	6,131,131	6,066,319	5,992,412	5,911,212	5,756,361	5,687,832
West Virginia	1,816,856	1,812,548	1,810,347	1,804,529	1,801,438	1,807,442	1,806,928	1,811,688
Wisconsin	5,536,201	5,503,533	5,471,792	5,439,137	5,404,432	5,374,429	5,250,446	5,222,124
Wyoming	509,294	505,887	501,915	499,045	494,045	494,139	479,602	480,045

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>)
 2000 to 2005 States: Annual Estimates of the Population for the United States and States, and for Puerto Rico: April 1, 2000 to July 1, 2005 (NST-EST2005-01), Population Division, U.S. Census Bureau, Release Date: December 22, 2005. (<http://www.census.gov/popest/states/NST-ann-est.html>)
 2000 to 2005 Regions: Annual Estimates of the Population for the United States, Regions, and Divisions: April 1, 2000 to July 1, 2005 (NST-EST2005-08), Population Division, U.S. Census Bureau, Release Date: December 22, 2005. (<http://www.census.gov/popest/states/NST-ann-est.html>)

Table A.1.2 Annual Estimates of the Resident Population for the United States and States: July 1, 1998 to July 1, 2005

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
New England	13,378,075	13,328,837	13,282,700	13,242,751	13,215,512	13,187,671	13,200,917	13,220,022
Middle Atlantic	38,213,250	38,191,437	38,161,231	38,117,993	38,037,913	37,890,621	37,756,961	37,655,617
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
East North Central	44,082,062	43,887,955	43,629,122	43,342,048	43,082,892	42,766,414	42,419,415	42,076,640
West North Central	18,593,416	18,483,564	18,362,798	18,230,125	18,093,232	17,944,685	17,798,084	17,688,800
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
South Atlantic	48,293,338	47,612,747	46,974,427	46,349,183	45,688,915	45,062,338	44,430,356	43,757,262
East South Central	16,338,356	16,194,955	16,049,935	15,882,646	15,706,642	15,519,819	15,343,827	15,209,144
West South Central	29,545,083	29,139,495	28,753,352	28,341,543	27,934,085	27,519,600	27,117,991	26,765,341
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
Mountain	16,476,792	16,114,351	15,741,906	15,306,988	14,835,514	14,412,687	14,038,554	13,716,309
Pacific	42,863,235	42,275,231	41,847,805	41,513,744	41,187,903	40,725,864	40,046,987	39,375,261
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
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

Table A.1.2 Annual Estimates of the Resident Population for the United States and States: July 1, 1998 to July 1, 2005 (continued)

Geographic Area	Population Estimates							
	1998	1999	2000	2001	2002	2003	2004	2005
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
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

Table A.1.2 Annual Estimates of the Resident Population for the United States and States: July 1, 1998 to July 1, 2005 (continued)

Geographic Area	Population Estimates							
	1998	1999	2000	2001	2002	2003	2004	2005
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>)

2000 to 2005 States: Annual Estimates of the Population for the United States and States, and for Puerto Rico: April 1, 2000 to July 1, 2005 (NST-EST2005-01), Population Division, U.S. Census Bureau, Release Date: December 22, 2005.

(<http://www.census.gov/popest/states/NST-ann-est.html>)

2000 to 2005 Regions: Annual Estimates of the Population for the United States, Regions, and Divisions: April 1, 2000 to July 1, 2005 (NST-EST2005-08), Population Division, U.S. Census Bureau, Release Date: December 22, 2005. (<http://www.census.gov/popest/states/NST-ann-est.html>)

Table A.2.1 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States: July 1, 1990 to July 1, 1997

Sex and Age (Years)	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
BOTH SEXES	296,410,404	293,656,842	290,850,005	287,984,799	285,107,923	282,193,477	272,690,813	270,248,003
Under 5	20,303,724	20,060,672	19,778,166	19,537,222	19,349,396	19,187,384	18,942,142	18,989,257
5 to 9	19,538,793	19,614,036	19,760,998	19,976,005	20,233,163	20,476,333	19,946,746	19,928,847
10 to 14	20,857,743	21,131,451	21,199,250	21,107,571	20,891,003	20,620,087	19,548,484	19,241,660
15 to 19	21,038,989	20,724,305	20,487,475	20,366,002	20,305,948	20,261,732	19,747,923	19,542,440
20 to 24	21,037,860	20,973,389	20,768,264	20,337,763	19,801,000	19,126,322	18,025,589	17,677,919
25 to 29	20,065,702	19,554,749	19,132,525	18,913,960	18,937,229	19,306,070	18,209,100	18,575,490
30 to 34	20,077,210	20,467,220	20,726,382	20,815,160	20,730,119	20,540,433	19,726,712	20,167,644
35 to 39	21,001,954	21,050,191	21,412,941	21,840,075	22,278,792	22,660,152	22,544,607	22,614,989
40 to 44	22,860,510	23,054,860	22,991,341	22,947,370	22,842,902	22,524,300	22,268,042	21,883,387
45 to 49	22,484,523	22,120,972	21,765,332	21,274,672	20,708,623	20,222,042	19,356,220	18,852,790
50 to 54	19,997,742	19,495,828	19,041,381	18,696,096	18,662,080	17,774,839	16,446,138	15,721,545
55 to 59	17,353,678	16,487,591	15,722,898	15,082,984	13,933,483	13,559,220	12,875,299	12,403,383
60 to 64	13,001,863	12,588,553	12,110,663	11,501,028	11,104,335	10,856,812	10,513,786	10,263,413
65 to 69	10,131,444	9,959,681	9,744,960	9,581,096	9,531,288	9,517,642	9,447,220	9,591,688
70 to 74	8,508,369	8,518,573	8,606,138	8,701,055	8,790,769	8,851,791	8,771,028	8,798,280
75 to 79	7,411,813	7,422,631	7,468,089	7,450,251	7,442,821	7,435,638	7,329,496	7,214,680
80 to 84	5,642,549	5,564,702	5,417,189	5,309,528	5,147,312	4,986,522	4,817,199	4,731,566
85 and over	5,095,938	4,867,438	4,716,013	4,546,961	4,417,660	4,286,158	4,175,082	4,049,025

Table A.2.1 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: July 1, 1990 to July 1, 1997 (cont.)

Sex and Age (Years)	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
MALE	145,999,746	144,535,403	143,057,818	141,542,448	140,015,885	138,469,724	133,276,559	132,029,729
Under 5	10,381,346	10,258,460	10,114,009	9,990,483	9,894,823	9,815,615	9,682,675	9,709,498
5 to 9	9,993,397	10,033,431	10,111,653	10,226,078	10,360,028	10,485,842	10,207,957	10,199,013
10 to 14	10,681,835	10,823,881	10,859,623	10,810,954	10,701,790	10,565,429	10,011,707	9,854,546
15 to 19	10,790,223	10,632,254	10,522,905	10,477,514	10,454,269	10,418,948	10,150,997	10,047,136
20 to 24	10,856,936	10,803,688	10,683,153	10,433,978	10,132,699	9,777,904	9,183,052	8,997,009
25 to 29	10,268,169	9,991,956	9,755,603	9,618,273	9,606,167	9,766,840	9,055,292	9,241,874
30 to 34	10,153,091	10,339,610	10,460,370	10,496,771	10,440,432	10,339,935	9,770,996	9,998,726
35 to 39	10,563,375	10,569,858	10,730,676	10,923,237	11,130,311	11,300,648	11,215,732	11,251,693
40 to 44	11,376,664	11,463,136	11,421,285	11,396,320	11,334,207	11,170,751	11,038,584	10,839,044
45 to 49	11,106,575	10,917,081	10,733,329	10,480,373	10,198,653	9,954,897	9,500,663	9,248,723
50 to 54	9,788,780	9,535,042	9,311,992	9,145,811	9,132,679	8,700,802	7,998,425	7,645,907
55 to 59	8,425,070	8,000,457	7,626,221	7,310,094	6,740,443	6,553,737	6,182,625	5,954,985
60 to 64	6,201,648	5,997,568	5,768,129	5,473,394	5,282,917	5,163,111	4,967,782	4,847,212
65 to 69	4,721,791	4,634,812	4,525,674	4,440,039	4,408,751	4,394,593	4,336,705	4,392,318
70 to 74	3,807,605	3,801,151	3,831,919	3,864,938	3,893,421	3,905,258	3,861,991	3,855,823
75 to 79	3,117,774	3,104,404	3,104,859	3,084,061	3,067,108	3,054,939	3,057,003	2,995,971
80 to 84	2,161,671	2,121,197	2,056,087	2,004,152	1,930,312	1,854,248	1,814,131	1,763,682
85 and over	1,603,796	1,507,417	1,440,331	1,365,978	1,306,875	1,246,227	1,240,242	1,186,569

Table A.2.1 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: July 1, 1990 to July 1, 1997 (cont.)

Sex and Age (Years)	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
FEMALE	150,410,658	149,121,439	147,792,187	146,442,351	145,092,038	143,723,753	139,414,254	138,218,274
Under 5	9,922,378	9,802,212	9,664,157	9,546,739	9,454,573	9,371,769	9,259,467	9,279,759
5 to 9	9,545,396	9,580,605	9,649,345	9,749,927	9,873,135	9,990,491	9,738,789	9,729,834
10 to 14	10,175,908	10,307,570	10,339,627	10,296,617	10,189,213	10,054,658	9,536,777	9,387,114
15 to 19	10,248,766	10,092,051	9,964,570	9,888,488	9,851,679	9,842,784	9,596,926	9,495,304
20 to 24	10,180,924	10,169,701	10,085,111	9,903,785	9,668,301	9,348,418	8,842,537	8,680,910
25 to 29	9,797,533	9,562,793	9,376,922	9,295,687	9,331,062	9,539,230	9,153,808	9,333,616
30 to 34	9,924,119	10,127,610	10,266,012	10,318,389	10,289,687	10,200,498	9,955,716	10,168,918
35 to 39	10,438,579	10,480,333	10,682,265	10,916,838	11,148,481	11,359,504	11,328,875	11,363,296
40 to 44	11,483,846	11,591,724	11,570,056	11,551,050	11,508,695	11,353,549	11,229,458	11,044,343
45 to 49	11,377,948	11,203,891	11,032,003	10,794,299	10,509,970	10,267,145	9,855,557	9,604,067
50 to 54	10,208,962	9,960,786	9,729,389	9,550,285	9,529,401	9,074,037	8,447,713	8,075,638
55 to 59	8,928,608	8,487,134	8,096,677	7,772,890	7,193,040	7,005,483	6,692,674	6,448,398
60 to 64	6,800,215	6,590,985	6,342,534	6,027,634	5,821,418	5,693,701	5,546,004	5,416,201
65 to 69	5,409,653	5,324,869	5,219,286	5,141,057	5,122,537	5,123,049	5,110,515	5,199,370
70 to 74	4,700,764	4,717,422	4,774,219	4,836,117	4,897,348	4,946,533	4,909,037	4,942,457
75 to 79	4,294,039	4,318,227	4,363,230	4,366,190	4,375,713	4,380,699	4,272,493	4,218,709
80 to 84	3,480,878	3,443,505	3,361,102	3,305,376	3,217,000	3,132,274	3,003,068	2,967,884
85 and over	3,492,142	3,360,021	3,275,682	3,180,983	3,110,785	3,039,931	2,934,840	2,862,456

Source:

2000 to 2005: Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2005 (NC-EST2005-01), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2005-sa.html>)
 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>)

Table A.2.2 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: July 1, 1998 to July 1, 2005

Sex and Age (Years)	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
BOTH SEXES	267,783,607	265,228,572	262,803,276	260,327,021	257,782,608	255,029,699	252,153,092	249,464,396
Under 5	19,099,249	19,291,502	19,532,169	19,700,108	19,673,867	19,491,502	19,188,843	18,852,851
5 to 9	19,754,207	19,439,035	19,096,223	18,752,341	18,442,266	18,293,025	18,205,189	18,061,843
10 to 14	19,096,798	19,004,243	18,853,020	18,716,418	18,508,355	18,101,979	17,678,757	17,198,108
15 to 19	19,145,541	18,707,606	18,203,372	17,743,433	17,375,467	17,180,337	17,234,545	17,764,520
20 to 24	17,488,230	17,508,039	17,982,219	18,389,381	18,785,250	19,046,759	19,155,834	19,134,952
25 to 29	18,819,546	18,932,709	18,904,773	19,106,616	19,569,992	20,140,008	20,712,833	21,235,575
30 to 34	20,738,793	21,313,162	21,825,415	22,133,354	22,227,090	22,240,333	22,157,083	21,912,156
35 to 39	22,635,710	22,552,740	22,295,957	21,977,726	21,605,134	21,098,465	20,529,533	19,982,168
40 to 44	21,378,319	20,811,935	20,259,474	19,715,739	19,208,998	18,807,044	18,761,252	17,794,548
45 to 49	18,467,213	18,429,568	17,457,759	16,678,468	15,930,626	15,358,613	14,099,374	13,823,785
50 to 54	15,158,420	13,927,628	13,641,557	13,194,708	12,728,287	12,055,115	11,648,304	11,369,647
55 to 59	11,755,421	11,356,458	11,085,969	10,931,364	10,677,528	10,483,139	10,421,869	10,474,089
60 to 64	10,060,752	9,996,771	10,046,058	10,076,850	10,235,836	10,437,743	10,580,835	10,619,134
65 to 69	9,776,591	9,900,853	9,925,554	9,966,670	10,013,239	9,974,420	10,026,944	10,076,737
70 to 74	8,751,096	8,789,240	8,830,969	8,736,312	8,616,309	8,468,195	8,243,536	8,022,791
75 to 79	7,083,334	6,891,267	6,700,096	6,585,524	6,483,139	6,397,718	6,280,414	6,146,687
80 to 84	4,661,019	4,575,336	4,478,096	4,359,501	4,254,980	4,140,372	4,038,804	3,935,220
85 and over	3,913,368	3,800,480	3,684,596	3,562,508	3,446,245	3,314,932	3,189,143	3,059,585

Table A.2.2 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: July 1, 1998 to July 1, 2005 (cont.)

Sex and Age (Years)	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
MALE	130,783,107	129,504,353	128,293,712	127,049,175	125,787,805	124,423,544	122,956,043	121,626,118
Under 5	9,769,920	9,868,521	9,992,754	10,079,810	10,066,665	9,970,476	9,817,974	9,647,699
5 to 9	10,107,140	9,948,347	9,775,021	9,598,441	9,439,850	9,364,515	9,319,765	9,246,147
10 to 14	9,781,492	9,734,881	9,657,597	9,588,142	9,482,687	9,274,387	9,057,319	8,809,631
15 to 19	9,843,696	9,618,771	9,358,564	9,120,060	8,928,357	8,824,776	8,845,250	9,112,608
20 to 24	8,897,077	8,903,850	9,139,731	9,342,109	9,550,314	9,694,624	9,740,632	9,745,780
25 to 29	9,373,687	9,442,254	9,444,002	9,554,525	9,798,370	10,096,362	10,387,056	10,657,551
30 to 34	10,292,264	10,591,770	10,855,762	11,018,219	11,069,829	11,080,075	11,032,866	10,904,589
35 to 39	11,262,884	11,220,622	11,089,178	10,926,187	10,736,041	10,476,402	10,181,766	9,904,304
40 to 44	10,577,932	10,288,927	10,011,832	9,738,197	9,484,827	9,285,454	9,263,889	8,780,143
45 to 49	9,058,661	9,044,980	8,566,288	8,183,643	7,817,621	7,538,660	6,911,390	6,778,877
50 to 54	7,372,734	6,765,810	6,629,362	6,412,536	6,186,866	5,856,145	5,658,121	5,521,381
55 to 59	5,639,517	5,446,957	5,315,445	5,239,862	5,117,318	5,019,791	4,985,034	5,004,238
60 to 64	4,745,290	4,707,672	4,723,625	4,735,244	4,801,715	4,888,513	4,944,271	4,947,718
65 to 69	4,466,811	4,510,551	4,505,580	4,500,541	4,506,211	4,473,889	4,491,005	4,512,573
70 to 74	3,817,155	3,824,557	3,838,722	3,790,312	3,728,740	3,651,187	3,539,030	3,423,328
75 to 79	2,925,182	2,828,602	2,729,185	2,662,639	2,602,378	2,550,072	2,485,665	2,411,677
80 to 84	1,719,526	1,670,920	1,616,136	1,556,195	1,506,088	1,454,604	1,407,749	1,366,013
85 and over	1,132,139	1,086,361	1,044,928	1,002,513	963,928	923,612	887,261	851,861

Table A.2.2 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: July 1, 1998 to July 1, 2005 (cont.)

Sex and Age (Years)	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
FEMALE	137,000,500	135,724,219	134,509,564	133,277,846	131,994,803	130,606,155	129,197,049	127,838,278
Under 5	9,329,329	9,422,981	9,539,415	9,620,298	9,607,202	9,521,026	9,370,869	9,205,152
5 to 9	9,647,067	9,490,688	9,321,202	9,153,900	9,002,416	8,928,510	8,885,424	8,815,696
10 to 14	9,315,306	9,269,362	9,195,423	9,128,276	9,025,668	8,827,592	8,621,438	8,388,477
15 to 19	9,301,845	9,088,835	8,844,808	8,623,373	8,447,110	8,355,561	8,389,295	8,651,912
20 to 24	8,591,153	8,604,189	8,842,488	9,047,272	9,234,936	9,352,135	9,415,202	9,389,172
25 to 29	9,445,859	9,490,455	9,460,771	9,552,091	9,771,622	10,043,646	10,325,777	10,578,024
30 to 34	10,446,529	10,721,392	10,969,653	11,115,135	11,157,261	11,160,258	11,124,217	11,007,567
35 to 39	11,372,826	11,332,118	11,206,779	11,051,539	10,869,093	10,622,063	10,347,767	10,077,864
40 to 44	10,800,387	10,523,008	10,247,642	9,977,542	9,724,171	9,521,590	9,497,363	9,014,405
45 to 49	9,408,552	9,384,588	8,891,471	8,494,825	8,113,005	7,819,953	7,187,984	7,044,908
50 to 54	7,785,686	7,161,818	7,012,195	6,782,172	6,541,421	6,198,970	5,990,183	5,848,266
55 to 59	6,115,904	5,909,501	5,770,524	5,691,502	5,560,210	5,463,348	5,436,835	5,469,851
60 to 64	5,315,462	5,289,099	5,322,433	5,341,606	5,434,121	5,549,230	5,636,564	5,671,416
65 to 69	5,309,780	5,390,302	5,419,974	5,466,129	5,507,028	5,500,531	5,535,939	5,564,164
70 to 74	4,933,941	4,964,683	4,992,247	4,946,000	4,887,569	4,817,008	4,704,506	4,599,463
75 to 79	4,158,152	4,062,665	3,970,911	3,922,885	3,880,761	3,847,646	3,794,749	3,735,010
80 to 84	2,941,493	2,904,416	2,861,960	2,803,306	2,748,892	2,685,768	2,631,055	2,569,207
85 and over	2,781,229	2,714,119	2,639,668	2,559,995	2,482,317	2,391,320	2,301,882	2,207,724

Source:

2000 to 2005: Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2005 (NC-EST2005-01), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2005-sa.html>)
 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>)

Table A.3.1 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: 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

Table A.3.1 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: July 1, 1990 to July 1 1999 (cont.)

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
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
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>)

Table A.3.2 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: 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	296,410,404	293,656,842	290,850,005	287,984,799	285,107,923	282,193,477
One race	291,831,380	289,212,867	286,538,846	283,803,537	281,053,669	278,264,867
White	237,854,954	236,063,846	234,240,649	232,374,597	230,508,684	228,621,011
Black	37,909,341	37,496,357	37,081,884	36,671,336	36,249,836	35,812,967
AIAN	2,863,001	2,825,460	2,787,700	2,749,619	2,711,693	2,673,516
Asian	12,687,472	12,320,873	11,932,666	11,522,634	11,108,367	10,692,322
NHPI	516,612	506,331	495,947	485,351	475,089	465,051
Two or more races	4,579,024	4,443,975	4,311,159	4,181,262	4,054,254	3,928,610
<i>Race alone or in combination:(1)</i>						
White	241,806,816	239,891,622	237,946,741	235,962,134	233,980,835	231,978,939
Black	39,724,136	39,228,508	38,733,045	38,243,664	37,744,959	37,231,510
AIAN	4,453,660	4,410,690	4,367,566	4,324,104	4,280,484	4,236,490
Asian	14,376,658	13,956,004	13,514,236	13,052,027	12,587,627	12,122,242
NHPI	989,673	974,853	959,787	943,625	927,003	910,907
NOT HISPANIC OR LATINO	253,723,180	252,319,080	250,915,205	249,484,820	248,043,828	246,545,289
One race	249,749,485	248,458,533	247,165,528	245,843,119	244,507,398	243,113,423
White	198,366,437	197,843,308	197,339,877	196,826,971	196,318,995	195,769,254
Black	36,324,593	35,949,536	35,573,884	35,200,585	34,814,034	34,413,010
AIAN	2,232,922	2,206,701	2,180,787	2,155,239	2,129,798	2,103,966
Asian	12,420,514	12,061,007	11,680,090	11,276,812	10,868,460	10,458,303
NHPI	405,019	397,981	390,890	383,512	376,111	368,890
Two or more races	3,973,695	3,860,547	3,749,677	3,641,701	3,536,430	3,431,866
<i>Race alone or in combination:(1)</i>						
White	201,782,278	201,155,671	200,551,154	199,940,101	199,336,866	198,692,488
Black	37,858,590	37,413,637	36,969,839	36,530,311	36,079,054	35,613,610
AIAN	3,602,649	3,574,254	3,546,309	3,518,812	3,491,092	3,462,858
Asian	13,933,501	13,526,639	13,098,765	12,649,867	12,197,683	11,744,147
NHPI	812,287	801,525	790,594	778,888	766,693	754,872

Table A.3.2 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: July 1, 2000 to July 1, 2005 (cont.)

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	42,687,224	41,337,762	39,934,800	38,499,979	37,064,095	35,648,188
One race	42,081,895	40,754,334	39,373,318	37,960,418	36,546,271	35,151,444
White	39,488,517	38,220,538	36,900,772	35,547,626	34,189,689	32,851,757
Black	1,584,748	1,546,821	1,508,000	1,470,751	1,435,802	1,399,957
AIAN	630,079	618,759	606,913	594,380	581,895	569,550
Asian	266,958	259,866	252,576	245,822	239,907	234,019
NHPI	111,593	108,350	105,057	101,839	98,978	96,161
Two or more races	605,329	583,428	561,482	539,561	517,824	496,744
<i>Race alone or in combination:(1)</i>						
White	40,024,538	38,735,951	37,395,587	36,022,033	34,643,969	33,286,451
Black	1,865,546	1,814,871	1,763,206	1,713,353	1,665,905	1,617,900
AIAN	851,011	836,436	821,257	805,292	789,392	773,632
Asian	443,157	429,365	415,471	402,160	389,944	378,095
NHPI	177,386	173,328	169,193	164,737	160,310	156,035
MALE	145,999,746	144,535,403	143,057,818	141,542,448	140,015,885	138,469,724
One race	143,742,389	142,347,138	140,937,139	139,488,071	138,026,075	136,543,428
White	117,813,576	116,831,975	115,842,986	114,824,598	113,799,806	112,763,555
Black	18,079,149	17,869,424	17,662,556	17,457,026	17,246,188	17,027,245
AIAN	1,434,500	1,415,283	1,396,196	1,376,834	1,357,475	1,337,963
Asian	6,151,995	5,972,640	5,783,010	5,582,769	5,380,989	5,178,170
NHPI	263,169	257,816	252,391	246,844	241,617	236,495
Two or more races	2,257,357	2,188,265	2,120,679	2,054,377	1,989,810	1,926,296
<i>Race alone or in combination:(1)</i>						
White	119,768,259	118,723,170	117,672,123	116,593,107	115,509,569	114,415,541
Black	18,962,787	18,710,719	18,462,554	18,216,650	17,966,484	17,708,715
AIAN	2,204,697	2,182,681	2,160,966	2,138,878	2,116,582	2,094,167
Asian	6,996,492	6,789,523	6,572,682	6,345,876	6,118,724	5,891,019
NHPI	498,153	490,575	482,940	474,736	466,416	458,343

Table A.3.2 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: July 1, 2000 to July 1, 2005 (cont.)

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
NOT HISPANIC OR LATINO	123,934,295	123,181,287	122,441,954	121,685,443	120,919,961	120,124,737
One race	121,977,962	121,282,683	120,599,589	119,898,004	119,185,865	118,443,342
White	97,350,937	97,037,895	96,743,787	96,441,274	96,136,540	95,810,227
Black	17,300,911	17,110,850	16,923,918	16,737,713	16,544,911	16,344,528
AIAN	1,102,090	1,089,187	1,076,676	1,064,297	1,052,053	1,039,483
Asian	6,019,505	5,843,789	5,657,839	5,461,080	5,262,325	5,062,593
NHPI	204,519	200,962	197,369	193,640	190,036	186,511
Two or more races	1,956,333	1,898,604	1,842,365	1,787,439	1,734,096	1,681,395
<i>Race alone or in combination:(1)</i>						
White	99,038,071	98,672,265	98,326,792	97,974,308	97,621,227	97,247,187
Black	18,045,622	17,819,841	17,598,241	17,378,248	17,152,558	16,919,524
AIAN	1,762,550	1,748,555	1,735,167	1,721,908	1,708,559	1,694,907
Asian	6,777,165	6,577,267	6,367,438	6,147,383	5,926,456	5,704,896
NHPI	406,936	401,589	396,245	390,472	384,596	378,852
HISPANIC OR LATINO	22,065,451	21,354,116	20,615,864	19,857,005	19,095,924	18,344,987
One race	21,764,427	21,064,455	20,337,550	19,590,067	18,840,210	18,100,086
White	20,462,639	19,794,080	19,099,199	18,383,324	17,663,266	16,953,328
Black	778,238	758,574	738,638	719,313	701,277	682,717
AIAN	332,410	326,096	319,520	312,537	305,422	298,480
Asian	132,490	128,851	125,171	121,689	118,664	115,577
NHPI	58,650	56,854	55,022	53,204	51,581	49,984
Two or more races	301,024	289,661	278,314	266,938	255,714	244,901
<i>Race alone or in combination:(1)</i>						
White	20,730,188	20,050,905	19,345,331	18,618,799	17,888,342	17,168,354
Black	917,165	890,878	864,313	838,402	813,926	789,191
AIAN	442,147	434,126	425,799	416,970	408,023	399,260
Asian	219,327	212,256	205,244	198,493	192,268	186,123
NHPI	91,217	88,986	86,695	84,264	81,820	79,491

Table A.3.2 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: July 1, 2000 to July 1, 2005 (cont.)

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
FEMALE	150,410,658	149,121,439	147,792,187	146,442,351	145,092,038	143,723,753
One race	148,088,991	146,865,729	145,601,707	144,315,466	143,027,594	141,721,439
White	120,041,378	119,231,871	118,397,663	117,549,999	116,708,878	115,857,456
Black	19,830,192	19,626,933	19,419,328	19,214,310	19,003,648	18,785,722
AIAN	1,428,501	1,410,177	1,391,504	1,372,785	1,354,218	1,335,553
Asian	6,535,477	6,348,233	6,149,656	5,939,865	5,727,378	5,514,152
NHPI	253,443	248,515	243,556	238,507	233,472	228,556
Two or more races	2,321,667	2,255,710	2,190,480	2,126,885	2,064,444	2,002,314
<i>Race alone or in combination:(1)</i>						
White	122,038,557	121,168,452	120,274,618	119,369,027	118,471,266	117,563,398
Black	20,761,349	20,517,789	20,270,491	20,027,014	19,778,475	19,522,795
AIAN	2,248,963	2,228,009	2,206,600	2,185,226	2,163,902	2,142,323
Asian	7,380,166	7,166,481	6,941,554	6,706,151	6,468,903	6,231,223
NHPI	491,520	484,278	476,847	468,889	460,587	452,564
NOT HISPANIC OR LATINO	129,788,885	129,137,793	128,473,251	127,799,377	127,123,867	126,420,552
One race	127,771,523	127,175,850	126,565,939	125,945,115	125,321,533	124,670,081
White	101,015,500	100,805,413	100,596,090	100,385,697	100,182,455	99,959,027
Black	19,023,682	18,838,686	18,649,966	18,462,872	18,269,123	18,068,482
AIAN	1,130,832	1,117,514	1,104,111	1,090,942	1,077,745	1,064,483
Asian	6,401,009	6,217,218	6,022,251	5,815,732	5,606,135	5,395,710
NHPI	200,500	197,019	193,521	189,872	186,075	182,379
Two or more races	2,017,362	1,961,943	1,907,312	1,854,262	1,802,334	1,750,471
<i>Race alone or in combination:(1)</i>						
White	102,744,207	102,483,406	102,224,362	101,965,793	101,715,639	101,445,301
Black	19,812,968	19,593,796	19,371,598	19,152,063	18,926,496	18,694,086
AIAN	1,840,099	1,825,699	1,811,142	1,796,904	1,782,533	1,767,951
Asian	7,156,336	6,949,372	6,731,327	6,502,484	6,271,227	6,039,251
NHPI	405,351	399,936	394,349	388,416	382,097	376,020

Table A.3.2 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: July 1, 2000 to July 1, 2005 (cont.)

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	20,621,773	19,983,646	19,318,936	18,642,974	17,968,171	17,303,201
One race	20,317,468	19,689,879	19,035,768	18,370,351	17,706,061	17,051,358
White	19,025,878	18,426,458	17,801,573	17,164,302	16,526,423	15,898,429
Black	806,510	788,247	769,362	751,438	734,525	717,240
AIAN	297,669	292,663	287,393	281,843	276,473	271,070
Asian	134,468	131,015	127,405	124,133	121,243	118,442
NHPI	52,943	51,496	50,035	48,635	47,397	46,177
Two or more races	304,305	293,767	283,168	272,623	262,110	251,843
<i>Race alone or in combination:(1)</i>						
White	19,294,350	18,685,046	18,050,256	17,403,234	16,755,627	16,118,097
Black	948,381	923,993	898,893	874,951	851,979	828,709
AIAN	408,864	402,310	395,458	388,322	381,369	374,372
Asian	223,830	217,109	210,227	203,667	197,676	191,972
NHPI	86,169	84,342	82,498	80,473	78,490	76,544

(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 Population by Sex, Race and Hispanic or Latino Origin for the United States: April 1, 2000 to July 1, 2005 (NC-EST2005-03), Population Division, U.S. Census Bureau, Release Date: May 10, 2006.
(<http://www.census.gov/popest/national/asrh/NC-EST2005-srh.html>)

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

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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.