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HEALTHCARE COST AND UTILIZATION PROJECT

HCUP Methods Series



Agency for Healthcare
Research and Quality



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**Population Denominator Data for Use with the HCUP Databases
(Updated)**

Methods Series #2008-07

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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 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)
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/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/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/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	
Sponsor:	Henry J. Kaiser Family Foundation
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:	<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>
Update Cycle:	Varies
Data System Home Page:	http://www.statehealthfacts.org/cgi-bin/healthfacts.cgi
Published Statistics:	http://www.statehealthfacts.org/cgi-bin/healthfacts.cgi
Online Query System:	None

Medical Expenditure Panel Survey (MEPS)
Sponsor: Agency for Healthcare Research & Quality, U.S. Department of Health and Human Services
Data Collection Method: Survey with computer assisted personal interviewing
Population Targeted: U.S. civilian non-institutionalized population
Types of Available Information: Demographic Information: Age, race, sex, marital status, education, income, poverty status, employment status, etc. Geographic Entity: National, census region, and Metropolitan Statistical Area (MSA) 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.
Update Cycle: Annual
Data System Home Page: http://www.meps.ahrq.gov/
Published Statistics: http://www.meps.ahrq.gov/mepsweb/data_stats/publications.jsp
Online Query System: None

National Asthma Survey (NAS)
Sponsor: National Center for Environmental Health (NCEH) and the Centers for Disease Control and Prevention (CDC)

<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-DAS/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.healthstatus2010.com/owh/
Published Statistics: Chartbook: http://www.healthstatus2010.com/owh/chartbook/ChartBookData_search.asp Disparities Profile: http://www.healthstatus2010.com/owh/disparities/ChartBookData_search.asp Reports: http://www.healthstatus2010.com/owh/reports.html
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)
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
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. 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 2007:

- 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, 2007
 - 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 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, 2006 to July 1, 2007
 - Table A.2.2 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.2.3 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.3.1 Annual Estimates of the Population by Sex, Race, and Hispanic Origin for the United States: July 1, 2006 to July 1, 2007
 - 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.3.3 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 2006:

- Table A.4.1 Annual Estimates of the U.S. Population by Median Household Income Quartile, 2000 to 2006
- Table A.4.2 Annual Estimates of the U.S. Population by Urban/Rural Location, 2000 to 2006

Table A.1.1 Annual Estimates of the Resident Population for the United States and States: July 1, 2006 to July 1, 2007

Geographic Area	Population Estimates	
	1-Jul-07	1-Jul-06
United States	301,621,157	298,754,819
NORTHEAST	54,680,626	54,590,172
MIDWEST	66,388,795	66,128,483
SOUTH	110,454,786	108,894,582
WEST	70,096,950	69,141,582
Alabama	4,627,851	4,590,240
Alaska	683,478	677,450
Arizona	6,338,755	6,165,689
Arkansas	2,834,797	2,809,111
California	36,553,215	36,249,872
Colorado	4,861,515	4,766,248
Connecticut	3,502,309	3,495,753
Delaware	864,764	852,747
District of Columbia	588,292	585,459
Florida	18,251,243	18,057,508
Georgia	9,544,750	9,342,080
Hawaii	1,283,388	1,278,635
Idaho	1,499,402	1,463,878
Illinois	12,852,548	12,777,042
Indiana	6,345,289	6,302,646
Iowa	2,988,046	2,972,566
Kansas	2,775,997	2,755,817
Kentucky	4,241,474	4,204,444
Louisiana	4,293,204	4,243,288
Maine	1,317,207	1,314,910
Maryland	5,618,344	5,602,017
Massachusetts	6,449,755	6,434,389
Michigan	10,071,822	10,102,322
Minnesota	5,197,621	5,154,586
Mississippi	2,918,785	2,899,112
Missouri	5,878,415	5,837,639

Geographic Area	Population Estimates	
	1-Jul-07	1-Jul-06
Montana	957,861	946,795
Nebraska	1,774,571	1,763,765
Nevada	2,565,382	2,492,427
New Hampshire	1,315,828	1,311,821
New Jersey	8,685,920	8,666,075
New Mexico	1,969,915	1,942,302
New York	19,297,729	19,281,988
North Carolina	9,061,032	8,869,442
North Dakota	639,715	637,460
Ohio	11,466,917	11,463,513
Oklahoma	3,617,316	3,577,536
Oregon	3,747,455	3,691,084
Pennsylvania	12,432,792	12,402,817
Rhode Island	1,057,832	1,061,641
South Carolina	4,407,709	4,330,108
South Dakota	796,214	788,467
Tennessee	6,156,719	6,074,913
Texas	23,904,380	23,407,629
Utah	2,645,330	2,579,535
Vermont	621,254	620,778
Virginia	7,712,091	7,640,249
Washington	6,468,424	6,374,910
West Virginia	1,812,035	1,808,699
Wisconsin	5,601,640	5,572,660
Wyoming	522,830	512,757

Source:

2006 to 2007 States: Annual Estimates of the Population for the United States and States, and for Puerto Rico: April 1, 2000 to July 1, 2007 (NST-EST2005-01), Population Division, U.S. Census Bureau, Release Date: December 22, 2005.

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

2006 to 2007 Regions: Annual Estimates of the Population for the United States, Regions, and Divisions: April 1, 2000 to July 1, 2007 (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-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00	1-Jul-99	1-Jul-98
United States	295,895,897	293,191,511	290,447,644	287,888,021	285,112,030	282,194,308	272690813	270248003
NORTHEAST	54,504,684	54,458,728	54,327,381	54,128,785	53,910,115	53,667,649	51829962	51685676
MIDWEST	65,853,847	65,626,756	65,347,299	65,094,788	64,820,696	64,496,645	63242284	62950532
SOUTH	107,384,947	105,866,963	104,431,808	103,188,427	101,869,063	100,567,977	96468455	95348823
WEST	68,152,419	67,239,064	66,341,156	65,476,021	64,512,156	63,462,037	61150112	60262972
Alabama	4,539,611	4,508,540	4,488,071	4,471,006	4,463,224	4,451,887	4369862	4351037
Alaska	669,411	661,661	650,967	642,699	633,277	627,462	619500	615205
Arizona	5,952,083	5,744,367	5,579,307	5,444,881	5,301,097	5,167,260	4778332	4667277
Arkansas	2,772,152	2,742,898	2,720,006	2,703,310	2,690,254	2,678,397	2551373	2538202
California	35,990,312	35,721,991	35,376,833	34,963,856	34,525,902	34,004,051	33145121	32682794
Colorado	4,673,724	4,609,264	4,555,212	4,507,762	4,433,997	4,328,252	4056133	3968967
Connecticut	3,486,490	3,481,890	3,472,964	3,451,867	3,429,770	3,411,990	3282031	3272563
Delaware	840,558	827,671	815,798	804,875	795,126	786,463	753538	744066
District of Columbia	582,049	579,621	577,467	579,190	577,648	571,799	519000	521426
Florida	17,736,027	17,342,623	16,959,251	16,667,906	16,348,628	16,049,316	15111244	14908230
Georgia	9,107,719	8,921,371	8,740,008	8,591,169	8,422,127	8,230,919	7788240	7636522
Hawaii	1,267,581	1,254,172	1,240,325	1,228,763	1,218,553	1,211,586	1185497	1190472
Idaho	1,425,894	1,391,751	1,364,038	1,342,103	1,320,918	1,299,578	1251700	1230923
Illinois	12,719,550	12,680,053	12,625,246	12,578,317	12,516,683	12,439,219	12128370	12069774
Indiana	6,257,121	6,218,863	6,184,519	6,151,102	6,125,525	6,091,735	5942901	5907617
Iowa	2,955,587	2,946,009	2,935,991	2,931,084	2,930,031	2,928,246	2869413	2861025
Kansas	2,741,665	2,730,828	2,721,824	2,712,383	2,700,979	2,692,890	2654052	2638667
Kentucky	4,171,016	4,139,859	4,114,069	4,089,032	4,067,461	4,049,049	3960825	3934310
Louisiana	4,495,670	4,487,966	4,473,679	4,465,490	4,460,285	4,469,044	4372035	4362758
Maine	1,312,222	1,308,892	1,303,441	1,294,187	1,284,872	1,277,225	1253040	1247554
Maryland	5,573,163	5,537,662	5,494,136	5,433,822	5,374,956	5,310,916	5171634	5130072
Massachusetts	6,429,137	6,433,676	6,438,510	6,431,788	6,407,631	6,363,190	6175169	6144407
Michigan	10,107,940	10,102,720	10,075,217	10,043,737	10,006,963	9,955,417	9863775	9820231
Minnesota	5,113,824	5,085,626	5,052,497	5,020,624	4,984,100	4,934,185	4775508	4726411
Mississippi	2,900,456	2,886,860	2,868,343	2,859,196	2,853,579	2,848,424	2768619	2751335

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
Missouri	5,787,885	5,744,753	5,705,971	5,676,209	5,641,517	5,606,140	5468338	5437562
Montana	935,784	926,721	917,453	910,282	906,098	903,329	882779	879533
Nebraska	1,754,042	1,743,954	1,734,746	1,725,545	1,718,280	1,713,322	1666028	1660772
Nevada	2,408,948	2,329,960	2,238,336	2,167,645	2,095,331	2,018,494	1809253	1743772
New Hampshire	1,303,112	1,294,285	1,282,844	1,272,185	1,257,347	1,240,442	1201134	1185823
New Jersey	8,657,445	8,641,235	8,604,990	8,558,327	8,495,644	8,431,951	8143412	8095542
New Mexico	1,916,331	1,892,182	1,870,113	1,850,562	1,829,032	1,820,861	1739844	1733535
New York	19,262,545	19,258,479	19,207,652	19,132,542	19,076,610	18,996,571	18196601	18159175
North Carolina	8,679,089	8,538,378	8,421,149	8,319,293	8,203,565	8,079,777	7650789	7545828
North Dakota	635,938	636,814	633,159	633,861	636,385	641,236	633666	637808
Ohio	11,459,776	11,452,808	11,435,980	11,414,816	11,392,869	11,364,143	11256654	11237752
Oklahoma	3,535,926	3,516,552	3,499,937	3,485,515	3,464,818	3,454,058	3358044	3339478
Oregon	3,629,959	3,583,027	3,556,956	3,521,520	3,472,224	3,431,096	3316154	3282055
Pennsylvania	12,367,276	12,348,618	12,327,250	12,305,751	12,287,542	12,285,564	11994016	12002329
Rhode Island	1,066,721	1,072,859	1,072,629	1,066,888	1,058,474	1,050,807	990819	987704
South Carolina	4,254,989	4,201,437	4,146,770	4,104,683	4,062,933	4,023,628	3885736	3839578
South Dakota	780,046	774,129	766,882	761,995	758,852	755,713	733133	730789
Tennessee	5,989,309	5,912,063	5,853,371	5,801,841	5,754,637	5,703,415	5483535	5432679
Texas	22,843,999	22,454,811	22,085,973	21,730,350	21,340,494	20,948,843	20044141	19712389
Utah	2,505,013	2,430,841	2,373,260	2,336,872	2,292,177	2,244,431	2129836	2100562
Vermont	619,736	618,794	617,101	615,250	612,225	609,909	593740	590579
Virginia	7,557,588	7,464,033	7,370,557	7,281,659	7,190,468	7,104,992	6872912	6789225
Washington	6,270,838	6,189,869	6,118,988	6,061,872	5,990,518	5,911,652	5756361	5687832
West Virginia	1,805,626	1,804,618	1,803,223	1,800,090	1,798,860	1,807,050	1806928	1811688
Wisconsin	5,540,473	5,510,199	5,475,267	5,445,115	5,408,512	5,374,399	5250446	5222124
Wyoming	506,541	503,258	499,368	497,204	493,032	493,985	479602	480045

Source:

1998 to 2005 States: Annual Estimates of the Population for the United States and States, and for Puerto Rico: April 1, 2000 to July 1, 2007 (NST-EST2005-01), Population Division, U.S. Census Bureau, Release Date: December 22, 2005. (<http://www.census.gov/popest/states/NST-ann-est.html>)

1998 to 2005 Regions: Annual Estimates of the Population for the United States, Regions, and Divisions: April 1, 2000 to July 1, 2007 (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.1.3 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-97	1-Jul-96	1-Jul-95	1-Jul-94	1-Jul-93	1-Jul-92	1-Jul-91	1-Jul-90
United States	267783607	265228572	262803276	260327021	257782608	255029699	252153092	249464396
NORTHEAST	51591325	51520274	51443931	51360744	51253425	51078292	50957878	50875639
MIDWEST	62675478	62371519	61991920	61572173	61176124	60711099	60217499	59765440
SOUTH	94176777	92947197	91777714	90573372	89329642	88101757	86892174	85731747
WEST	59340027	58389582	57589711	56820732	56023417	55138551	54085541	53091570
Alabama	4320281	4290403	4262731	4232965	4193114	4139269	4091025	4048508
Alaska	608846	604918	601345	600624	596993	587073	569273	553120
Arizona	4552207	4432308	4306908	4147561	3993390	3867333	3762394	3679056
Arkansas	2524007	2504858	2480121	2450605	2423743	2394098	2370666	2354343
California	32217708	31780829	31493525	31317179	31147208	30875920	30414114	29950111
Colorado	3891293	3812716	3738061	3653910	3560884	3459995	3367567	3303862
Connecticut	3268514	3267030	3265293	3268346	3272325	3274997	3288640	3289056
Delaware	735024	727090	718265	708416	699475	690158	680495	669063
District of Columbia	528752	538273	551273	564982	576358	584183	593239	603814
Florida	14683350	14426911	14185403	13961798	13713593	13504775	13289497	13018365
Georgia	7486094	7332225	7188538	7045900	6894092	6759474	6621279	6506531
Hawaii	1189322	1184434	1180490	1173903	1161508	1149926	1131412	1112703
Idaho	1210638	1187706	1165000	1135459	1101204	1066490	1038915	1011882
Illinois	12011509	11953003	11884935	11804986	11725984	11635197	11535973	11446979
Indiana	5872370	5834908	5791819	5745626	5701965	5648649	5602062	5555097
Iowa	2854396	2848473	2840860	2829422	2820525	2806923	2791227	2779769
Kansas	2616339	2598266	2586942	2569118	2547605	2526042	2495209	2480683
Kentucky	3907816	3881051	3855248	3823215	3792288	3756358	3714686	3692584
Louisiana	4351390	4338763	4327978	4306500	4284749	4270849	4240950	4219179
Maine	1245215	1241436	1237438	1237687	1238256	1235748	1235439	1231296
Maryland	5092914	5057142	5023650	4985411	4942504	4902545	4856176	4797431
Massachusetts	6115476	6085393	6062335	6031352	6010884	5993474	5998652	6018664
Michigan	9785450	9739184	9659871	9584481	9529240	9470323	9395022	9310462

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
Minnesota	4687726	4647723	4605445	4566028	4521709	4471503	4427429	4387283
Mississippi	2731826	2709925	2690788	2663450	2635574	2610193	2591230	2577426
Missouri	5407113	5367888	5324610	5281206	5237757	5193686	5157770	5126370
Montana	878706	876656	868522	854923	839876	822436	807837	799824
Nebraska	1656042	1647657	1635142	1621551	1612149	1602406	1590805	1580664
Nevada	1675581	1596476	1525777	1456388	1380197	1330694	1285046	1218629
New Hampshire	1173239	1160768	1145604	1133054	1122191	1112766	1107055	1111831
New Jersey	8054178	8009624	7965523	7918796	7874891	7827770	7784269	7757158
New Mexico	1722939	1706151	1682417	1653329	1614937	1580750	1547115	1519933
New York	18143184	18143805	18150928	18156652	18140894	18082032	18029532	18002855
North Carolina	7428672	7307658	7185403	7060959	6947412	6831850	6748135	6656987
North Dakota	640945	642858	641548	639762	637229	635427	634199	637364
Ohio	11212498	11187032	11155493	11111451	11070385	11007609	10933683	10861837
Oklahoma	3314259	3289634	3265547	3246119	3228829	3204174	3166471	3147105
Oregon	3243254	3195087	3141421	3087142	3034490	2973934	2918745	2858547
Pennsylvania	12015888	12038008	12044780	12042545	12022128	11980819	11943160	11895604
Rhode Island	986966	987858	989203	993412	997852	1000571	1003990	1004649
South Carolina	3790066	3738974	3699943	3666456	3634507	3600576	3559470	3499064
South Dakota	730855	730699	728251	723038	716258	708698	701445	696667
Tennessee	5378433	5313576	5241168	5163016	5085666	5013999	4946886	4890626
Texas	19355427	19006240	18679706	18338319	17996764	17650479	17339904	17044714
Utah	2065397	2022253	1976774	1930436	1875993	1821498	1771941	1729722
Vermont	588665	586352	582827	578900	574004	570115	567141	564526
Virginia	6732878	6665491	6601392	6536771	6464795	6383315	6283853	6213526
Washington	5604105	5509963	5431024	5334896	5247704	5139011	5013443	4900780
West Virginia	1815588	1818983	1820560	1818490	1816179	1805462	1798212	1792481
Wisconsin	5200235	5173828	5137004	5095504	5055318	5004636	4952675	4902265
Wyoming	480031	480085	478447	474982	469033	463491	457739	453401

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>)

Table A.2.1 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the United States: July 1, 2006 to July 1, 2007

Sex and Age (Years)	Population Estimates	
	1-Jul-07	1-Jul-06
BOTH SEXES	301,621,157	298,754,819
Under 5	20,724,125	20,451,772
5 to 9	19,849,628	19,673,833
10 to 14	20,314,309	20,586,946
15 to 19	21,473,690	21,274,583
20 to 24	21,032,396	20,993,828
25 to 29	21,057,706	20,574,835
30 to 34	19,533,220	19,607,386
35 to 39	21,176,460	21,119,058
40 to 44	21,984,829	22,435,827
45 to 49	22,861,373	22,767,376
50 to 54	21,013,387	20,459,474
55 to 59	18,236,259	18,206,425
60 to 64	14,475,817	13,350,411
65 to 69	10,752,441	10,368,315
70 to 74	8,599,708	8,541,608
75 to 79	7,324,882	7,387,058
80 to 84	5,698,629	5,670,108
85-89 years	3,476,545	3,337,038
90 to 94 years	1,502,489	1,454,277
95 to 99 years	452,493	421,775
100 years and over	80,771	72,886
MALE	148,658,898	147,160,189
Under 5	10,602,857	10,460,526
5 to 9	10,148,578	10,058,959
10 to 14	10,399,927	10,541,744
15 to 19	11,006,869	10,907,616
20 to 24	10,852,937	10,842,032
25 to 29	10,776,189	10,508,004
30 to 34	9,906,361	9,926,325
35 to 39	10,654,911	10,614,076

Sex and Age (Years)	Population Estimates	
	1-Jul-07	1-Jul-06
40 to 44	10,963,823	11,176,553
45 to 49	11,302,842	11,246,384
50 to 54	10,292,071	10,017,070
55 to 59	8,847,222	8,835,834
60 to 64	6,927,866	6,372,973
65 to 69	5,019,063	4,835,889
70 to 74	3,867,910	3,832,176
75 to 79	3,106,968	3,122,111
80 to 84	2,205,705	2,180,902
85 to 89 years	1,205,125	1,145,605
90 to 94 years	445,129	421,717
95 to 99 years	110,237	99,385
100 years and over	16,308	14,308
FEMALE	152,962,259	151,594,630
Under 5	10,121,268	9,991,246
5 to 9	9,701,050	9,614,874
10 to 14	9,914,382	10,045,202
15 to 19	10,466,821	10,366,967
20 to 24	10,179,459	10,151,796
25 to 29	10,281,517	10,066,831
30 to 34	9,626,859	9,681,061
35 to 39	10,521,549	10,504,982
40 to 44	11,021,006	11,259,274
45 to 49	11,558,531	11,520,992
50 to 54	10,721,316	10,442,404
55 to 59	9,389,037	9,370,591
60 to 64	7,547,951	6,977,438
65 to 69	5,733,378	5,532,426
70 to 74	4,731,798	4,709,432
75 to 79	4,217,914	4,264,947
80 to 84	3,492,924	3,489,206
85 to 89 years	2,271,420	2,191,433
90 to 94 years	1,057,360	1,032,560

Sex and Age (Years)	Population Estimates	
	1-Jul-07	1-Jul-06
95 to 99 years	342,256	322,390
100 years and over	64,463	58,578

Source:

2006 to 2007: Annual Estimates of the Population by Sex and Five-Year Age Groups for the United States: April 1, 2000 to July 1, 2007 (NC-EST2005-01), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2007-sa.html>)

Table A.2.2 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: 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	295,895,897	293,191,511	290,447,644	287,888,021	285,112,030	282,194,308
Under 5	20,299,774	20,060,268	19,773,517	19,537,053	19,350,157	19,187,451
5 to 9	19,525,557	19,598,833	19,753,885	19,976,363	20,234,597	20,476,523
10 to 14	20,845,086	21,117,454	21,192,613	21,107,836	20,892,214	20,620,197
15 to 19	21,019,840	20,702,581	20,467,671	20,361,711	20,305,228	20,261,514
20 to 24	20,946,815	20,869,622	20,636,437	20,298,874	19,797,293	19,127,605
25 to 29	19,944,900	19,457,505	19,051,244	18,895,975	18,938,105	19,305,849
30 to 34	20,010,290	20,408,047	20,673,021	20,802,487	20,731,782	20,540,720
35 to 39	20,952,098	21,006,937	21,372,642	21,829,519	22,279,910	22,660,182
40 to 44	22,823,759	23,022,387	22,964,058	22,940,512	22,843,434	22,524,105
45 to 49	22,461,927	22,102,619	21,752,002	21,271,795	20,709,001	20,221,914
50 to 54	19,985,569	19,485,637	19,034,260	18,694,591	18,662,275	17,774,683
55 to 59	17,340,853	16,479,496	15,718,887	15,082,180	13,933,598	13,559,147
60 to 64	12,993,156	12,583,160	12,108,756	11,500,831	11,104,491	10,856,797
65 to 69	10,127,103	9,955,422	9,743,744	9,581,075	9,531,480	9,517,660
70 to 74	8,512,076	8,516,238	8,605,360	8,701,056	8,790,889	8,851,805
75 to 79	7,415,920	7,420,005	7,467,651	7,450,228	7,442,859	7,435,618
80 to 84	5,636,046	5,557,866	5,416,929	5,309,478	5,147,302	4,986,479
85 to 89 years	3,197,127	3,076,286	3,024,800	2,938,362	2,878,005	2,813,717
90 to 94 years	1,401,286	1,343,971	1,285,099	1,230,534	1,180,232	1,128,692
95 to 99 years	390,890	366,744	348,698	324,566	307,153	292,200
100 years and over	65,825	60,433	56,370	52,995	52,025	51,450
MALE	145,648,705	144,224,452	142,748,033	141,462,599	140,016,603	138,469,840
Under 5	10,380,706	10,258,874	10,111,613	9,990,359	9,895,189	9,815,637
5 to 9	9,986,662	10,025,521	10,107,967	10,226,206	10,360,742	10,485,911
10 to 14	10,675,231	10,816,612	10,856,175	10,811,083	10,702,406	10,565,503
15 to 19	10,779,601	10,620,543	10,510,033	10,475,252	10,454,102	10,418,937
20 to 24	10,796,736	10,733,008	10,580,321	10,405,010	10,130,920	9,779,143
25 to 29	10,177,376	9,921,341	9,691,267	9,602,838	9,606,014	9,766,348
30 to 34	10,103,925	10,297,064	10,417,306	10,485,118	10,441,082	10,340,022

Sex and Age (Years)	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
35 to 39	10,524,937	10,537,668	10,697,214	10,913,175	11,130,716	11,300,564

Sex and Age (Years)	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
40 to 44	11,347,896	11,438,759	11,398,904	11,390,013	11,334,255	11,170,510
45 to 49	11,089,786	10,903,976	10,722,907	10,477,726	10,198,696	9,954,723
50 to 54	9,780,359	9,528,298	9,306,644	9,144,390	9,132,659	8,700,633
55 to 59	8,416,765	7,995,283	7,623,300	7,309,373	6,740,407	6,553,653
60 to 64	6,196,747	5,994,891	5,767,203	5,473,253	5,282,967	5,163,097
65 to 69	4,719,554	4,632,822	4,525,162	4,440,023	4,408,824	4,394,588
70 to 74	3,809,772	3,799,910	3,831,539	3,864,877	3,893,433	3,905,250
75 to 79	3,119,137	3,102,801	3,104,655	3,084,032	3,067,106	3,054,912
80 to 84	2,158,075	2,117,860	2,055,972	2,004,117	1,930,298	1,854,225
85 to 89 years	1,084,775	1,031,973	1,003,048	958,580	924,865	888,489
90 to 94 years	398,153	373,879	349,884	327,986	307,763	287,962
95 to 99 years	89,792	81,854	76,278	68,945	63,970	59,560
100 years and over	12,720	11,515	10,641	10,243	10,189	10,173
FEMALE	150,247,192	148,967,059	147,699,611	146,425,422	145,095,427	143,724,468
Under 5	9,919,068	9,801,394	9,661,904	9,546,694	9,454,968	9,371,814
5 to 9	9,538,895	9,573,312	9,645,918	9,750,157	9,873,855	9,990,612
10 to 14	10,169,855	10,300,842	10,336,438	10,296,753	10,189,808	10,054,694
15 to 19	10,240,239	10,082,038	9,957,638	9,886,459	9,851,126	9,842,577
20 to 24	10,150,079	10,136,614	10,056,116	9,893,864	9,666,373	9,348,462
25 to 29	9,767,524	9,536,164	9,359,977	9,293,137	9,332,091	9,539,501
30 to 34	9,906,365	10,110,983	10,255,715	10,317,369	10,290,700	10,200,698
35 to 39	10,427,161	10,469,269	10,675,428	10,916,344	11,149,194	11,359,618
40 to 44	11,475,863	11,583,628	11,565,154	11,550,499	11,509,179	11,353,595
45 to 49	11,372,141	11,198,643	11,029,095	10,794,069	10,510,305	10,267,191
50 to 54	10,205,210	9,957,339	9,727,616	9,550,201	9,529,616	9,074,050
55 to 59	8,924,088	8,484,213	8,095,587	7,772,807	7,193,191	7,005,494
60 to 64	6,796,409	6,588,269	6,341,553	6,027,578	5,821,524	5,693,700
65 to 69	5,407,549	5,322,600	5,218,582	5,141,052	5,122,656	5,123,072
70 to 74	4,702,304	4,716,328	4,773,821	4,836,179	4,897,456	4,946,555

Sex and Age (Years)	Population Estimates					
	1-Jul-05	1-Jul-04	1-Jul-03	1-Jul-02	1-Jul-01	1-Jul-00
75 to 79	4,296,783	4,317,204	4,362,996	4,366,196	4,375,753	4,380,706
80 to 84	3,477,971	3,440,006	3,360,957	3,305,361	3,217,004	3,132,254
85 to 89 years	2,112,352	2,044,313	2,021,752	1,979,782	1,953,140	1,925,228
90 to 94 years	1,003,133	970,092	935,215	902,548	872,469	840,730
95 to 99 years	301,098	284,890	272,420	255,621	243,183	232,640
100 years and over	53,105	48,918	45,729	42,752	41,836	41,277

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, 2007 (NC-EST2005-01), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2007-sa.html>)

Table A.2.3 Annual Estimates of the Resident Population by Sex and Five-Year Age Groups for the U.S.: 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

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
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
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>)

Table A.3.1 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the United States: July 1, 2006 to July 1, 2007

Sex, Hispanic or Latino origin, and race	Population Estimates	
	1-Jul-07	1-Jul-06
BOTH SEXES	301,621,157	298,754,819
One race	296,765,021	294,042,887
White	241,166,890	239,322,403
Black	38,756,452	38,305,941
AIAN	2,938,436	2,898,842
Asian	13,366,154	12,989,645
NHPI	537,089	526,056
Two or more races	4,856,136	4,711,932
Race alone or in combination:(1)		
White	245,373,882	243,397,137
Black	40,744,132	40,204,446
AIAN	4,536,857	4,492,054
Asian	15,165,186	14,731,380
NHPI	1,019,301	1,003,144
NOT HISPANIC OR LATINO	256,116,846	254,700,471
One race	251,912,205	250,616,331
White	199,091,567	198,588,666
Black	37,037,204	36,646,317
AIAN	2,286,734	2,258,877
Asian	13,079,642	12,712,370
NHPI	417,058	410,101
Two or more races	4,204,641	4,084,140
Race alone or in combination:(1)		
White	202,719,711	202,106,609
Black	38,716,774	38,250,731
AIAN	3,657,920	3,628,230
Asian	14,687,894	14,270,703
NHPI	831,723	820,548
HISPANIC OR LATINO	45,504,311	44,054,348

Sex, Hispanic or Latino origin, and race	Population Estimates	
	1-Jul-07	1-Jul-06
One race	44,852,816	43,426,556
White	42,075,323	40,733,737
Black	1,719,248	1,659,624
AIAN	651,702	639,965
Asian	286,512	277,275
NHPI	120,031	115,955
Two or more races	651,495	627,792
Race alone or in combination:(1)		
White	42,654,171	41,290,528
Black	2,027,358	1,953,715
AIAN	878,937	863,824
Asian	477,292	460,677
NHPI	187,578	182,596
MALE	148,658,898	147,160,189
One race	146,263,231	144,837,619
White	119,549,475	118,558,022
Black	18,487,187	18,262,420
AIAN	1,471,429	1,451,454
Asian	6,481,852	6,298,093
NHPI	273,288	267,630
Two or more races	2,395,667	2,322,570
Race alone or in combination:(1)		
White	121,631,928	120,573,314
Black	19,458,115	19,187,920
AIAN	2,244,695	2,222,180
Asian	7,380,754	7,168,105
NHPI	512,328	504,226
NOT HISPANIC OR LATINO	125,135,318	124,395,426
One race	123,064,156	122,385,181
White	97,745,329	97,456,926
Black	17,641,636	17,447,105
AIAN	1,127,654	1,114,079

Sex, Hispanic or Latino origin, and race	Population Estimates	
	1-Jul-07	1-Jul-06
Asian	6,339,413	6,160,381
NHPI	210,124	206,690
Two or more races	2,071,162	2,010,245
Race alone or in combination:(1)		
White	99,538,412	99,194,206
Black	18,459,623	18,226,889
AIAN	1,788,034	1,773,668
Asian	7,144,166	6,939,974
NHPI	415,727	410,313
HISPANIC OR LATINO	23,523,580	22,764,763
One race	23,199,075	22,452,438
White	21,804,146	21,101,096
Black	845,551	815,315
AIAN	343,775	337,375
Asian	142,439	137,712
NHPI	63,164	60,940
Two or more races	324,505	312,325
Race alone or in combination:(1)		
White	22,093,516	21,379,108
Black	998,492	961,031
AIAN	456,661	448,512
Asian	236,588	228,131
NHPI	96,601	93,913
FEMALE	152,962,259	151,594,630
One race	150,501,790	149,205,268
White	121,617,415	120,764,381
Black	20,269,265	20,043,521
AIAN	1,467,007	1,447,388
Asian	6,884,302	6,691,552
NHPI	263,801	258,426
Two or more races	2,460,469	2,389,362
Race alone or in combination:(1)		

Sex, Hispanic or Latino origin, and race	Population Estimates	
	1-Jul-07	1-Jul-06
White	123,741,954	122,823,823
Black	21,286,017	21,016,526
AIAN	2,292,162	2,269,874
Asian	7,784,432	7,563,275
NHPI	506,973	498,918
NOT HISPANIC OR LATINO	130,981,528	130,305,045
One race	128,848,049	128,231,150
White	101,346,238	101,131,740
Black	19,395,568	19,199,212
AIAN	1,159,080	1,144,798
Asian	6,740,229	6,551,989
NHPI	206,934	203,411
Two or more races	2,133,479	2,073,895
Race alone or in combination:(1)		
White	103,181,299	102,912,403
Black	20,257,151	20,023,842
AIAN	1,869,886	1,854,562
Asian	7,543,728	7,330,729
NHPI	415,996	410,235
HISPANIC OR LATINO	21,980,731	21,289,585
One race	21,653,741	20,974,118
White	20,271,177	19,632,641
Black	873,697	844,309
AIAN	307,927	302,590
Asian	144,073	139,563
NHPI	56,867	55,015
Two or more races	326,990	315,467
Race alone or in combination:(1)		
White	20,560,655	19,911,420
Black	1,028,866	992,684
AIAN	422,276	415,312
Asian	240,704	232,546

Sex, Hispanic or Latino origin, and race	Population Estimates	
	1-Jul-07	1-Jul-06
NHPI	90,977	88,683

(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, 2007 (NC-EST2005-03), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2007-srh.html>)

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	295,895,897	293,191,511	290,447,644	287,888,021	285,112,030	282,194,308
One race	291,324,818	288,755,657	286,145,270	283,710,060	281,058,637	278,266,300
White	237,483,308	235,748,229	233,966,462	232,312,134	230,516,355	228,622,981
Black	37,852,176	37,433,819	37,014,562	36,655,081	36,249,454	35,812,983
AIAN	2,859,461	2,821,416	2,783,688	2,748,620	2,711,601	2,673,312
Asian	12,614,849	12,247,766	11,886,703	11,509,466	11,106,289	10,692,156
NHPI	515,024	504,427	493,855	484,759	474,938	464,868
Two or more races	4,571,079	4,435,854	4,302,374	4,177,961	4,053,393	3,928,008
Race alone or in combination:(1)						
White	241,429,246	239,570,391	237,666,322	235,897,389	233,988,006	231,980,517
Black	39,664,177	39,163,026	38,662,631	38,226,351	37,744,314	37,231,316
AIAN	4,447,116	4,404,092	4,360,749	4,322,089	4,280,165	4,236,189
Asian	14,300,285	13,878,667	13,463,718	13,036,928	12,584,961	12,121,675
NHPI	986,888	971,327	956,079	942,385	926,671	910,595
NOT HISPANIC OR LATINO	253,292,781	251,989,136	250,603,639	249,400,418	248,042,636	246,545,323
One race	249,326,078	248,135,220	246,861,442	245,761,558	244,506,865	243,113,878
White	198,092,193	197,657,060	197,147,583	196,774,621	196,320,933	195,769,808
Black	36,252,699	35,888,528	35,511,387	35,185,414	34,813,744	34,413,175
AIAN	2,231,312	2,204,834	2,178,269	2,154,545	2,129,710	2,103,896
Asian	12,346,817	11,988,436	11,634,992	11,263,933	10,866,456	10,458,204
NHPI	403,057	396,362	389,211	383,045	376,022	368,795
Two or more races	3,966,703	3,853,916	3,742,197	3,638,860	3,535,771	3,431,445
Race alone or in combination:(1)						
White	201,503,105	200,965,082	200,353,738	199,885,887	199,338,468	198,692,789
Black	37,784,402	37,350,561	36,904,912	36,514,268	36,078,588	35,613,659
AIAN	3,598,493	3,570,445	3,541,539	3,517,369	3,490,915	3,462,740
Asian	13,856,117	13,450,138	13,049,487	12,635,228	12,195,149	11,743,712
NHPI	809,231	798,450	787,464	777,829	766,442	754,679
HISPANIC OR LATINO	42,603,116	41,202,375	39,844,005	38,487,603	37,069,394	35,648,985

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
One race	41,998,740	40,620,437	39,283,828	37,948,502	36,551,772	35,152,422
White	39,391,115	38,091,169	36,818,879	35,537,513	34,195,422	32,853,173
Black	1,599,477	1,545,291	1,503,175	1,469,667	1,435,710	1,399,808
AIAN	628,149	616,582	605,419	594,075	581,891	569,416
Asian	268,032	259,330	251,711	245,533	239,833	233,952
NHPI	111,967	108,065	104,644	101,714	98,916	96,073
Two or more races	604,376	581,938	560,177	539,101	517,622	496,563
Race alone or in combination:(1)						
White	39,926,141	38,605,309	37,312,584	36,011,502	34,649,538	33,287,728
Black	1,879,775	1,812,465	1,757,719	1,712,083	1,665,726	1,617,657
AIAN	848,623	833,647	819,210	804,720	789,250	773,449
Asian	444,168	428,529	414,231	401,700	389,812	377,963
NHPI	177,657	172,877	168,615	164,556	160,229	155,916
MALE	145,648,705	144,224,452	142,748,033	141,462,599	140,016,603	138,469,840
One race	143,397,772	142,041,926	140,633,855	139,410,589	138,027,308	136,543,870
White	117,555,657	116,612,352	115,621,049	114,768,936	113,803,014	112,764,423
Black	18,034,352	17,826,016	17,611,458	17,444,305	17,245,702	17,027,168
AIAN	1,431,421	1,412,307	1,392,908	1,375,960	1,357,367	1,337,847
Asian	6,114,550	5,934,889	5,757,667	5,575,006	5,379,697	5,178,035
NHPI	261,792	256,362	250,773	246,382	241,528	236,397
Two or more races	2,250,933	2,182,526	2,114,178	2,052,010	1,989,295	1,925,970
Race alone or in combination:(1)						
White	119,505,303	118,499,290	117,445,383	116,535,748	115,512,463	114,416,205
Black	18,915,823	18,665,428	18,409,272	18,203,200	17,965,838	17,708,510
AIAN	2,199,337	2,177,780	2,155,449	2,137,183	2,116,315	2,093,992
Asian	6,956,073	6,748,938	6,544,123	6,336,789	6,117,118	5,890,673
NHPI	495,848	488,069	480,156	473,832	466,192	458,170
NOT HISPANIC OR LATINO	123,645,039	122,957,359	122,196,428	121,617,338	120,919,079	120,124,593
One race	121,694,238	121,063,441	120,359,617	119,831,913	119,185,375	118,443,415
White	97,159,350	96,900,333	96,579,465	96,395,537	96,137,796	95,810,500
Black	17,249,637	17,069,147	16,876,422	16,725,872	16,544,539	16,344,515
AIAN	1,100,526	1,087,771	1,074,565	1,063,725	1,051,997	1,039,454

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	5,981,639	5,806,412	5,633,094	5,453,490	5,261,063	5,062,488
NHPI	203,086	199,778	196,071	193,289	189,980	186,458
Two or more races	1,950,801	1,893,918	1,836,811	1,785,425	1,733,704	1,681,178
Race alone or in combination:(1)						
White	98,842,341	98,531,358	98,158,466	97,927,168	97,622,252	97,247,334
Black	17,992,593	17,776,807	17,549,010	17,365,811	17,152,078	16,919,446
AIAN	1,759,108	1,745,703	1,731,272	1,720,745	1,708,446	1,694,848
Asian	6,736,428	6,537,211	6,339,729	6,138,604	5,924,913	5,704,618
NHPI	404,676	399,491	393,917	389,722	384,422	378,750
HISPANIC OR LATINO	22,003,666	21,267,093	20,551,605	19,845,261	19,097,524	18,345,247
One race	21,703,534	20,978,485	20,274,238	19,578,676	18,841,933	18,100,455
White	20,396,307	19,712,019	19,041,584	18,373,399	17,665,218	16,953,923
Black	784,715	756,869	735,036	718,433	701,163	682,653
AIAN	330,895	324,536	318,343	312,235	305,370	298,393
Asian	132,911	128,477	124,573	121,516	118,634	115,547
NHPI	58,706	56,584	54,702	53,093	51,548	49,939
Two or more races	300,132	288,608	277,367	266,585	255,591	244,792
Race alone or in combination:(1)						
White	20,662,962	19,967,932	19,286,917	18,608,580	17,890,211	17,168,871
Black	923,230	888,621	860,262	837,389	813,760	789,064
AIAN	440,229	432,077	424,177	416,438	407,869	399,144
Asian	219,645	211,727	204,394	198,185	192,205	186,055
NHPI	91,172	88,578	86,239	84,110	81,770	79,420
FEMALE	150,247,192	148,967,059	147,699,611	146,425,422	145,095,427	143,724,468
One race	147,927,046	146,713,731	145,511,415	144,299,471	143,031,329	141,722,430
White	119,927,651	119,135,877	118,345,413	117,543,198	116,713,341	115,858,558
Black	19,817,824	19,607,803	19,403,104	19,210,776	19,003,752	18,785,815
AIAN	1,428,040	1,409,109	1,390,780	1,372,660	1,354,234	1,335,465
Asian	6,500,299	6,312,877	6,129,036	5,934,460	5,726,592	5,514,121
NHPI	253,232	248,065	243,082	238,377	233,410	228,471
Two or more races	2,320,146	2,253,328	2,188,196	2,125,951	2,064,098	2,002,038
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	121,923,943	121,071,101	120,220,939	119,361,641	118,475,543	117,564,312
Black	20,748,354	20,497,598	20,253,359	20,023,151	19,778,476	19,522,806
AIAN	2,247,779	2,226,312	2,205,300	2,184,906	2,163,850	2,142,197
Asian	7,344,212	7,129,729	6,919,595	6,700,139	6,467,843	6,231,002
NHPI	491,040	483,258	475,923	468,553	460,479	452,425
NOT HISPANIC OR LATINO	129,647,742	129,031,777	128,407,211	127,783,080	127,123,557	126,420,730
One race	127,631,840	127,071,779	126,501,825	125,929,645	125,321,490	124,670,463
White	100,932,843	100,756,727	100,568,118	100,379,084	100,183,137	99,959,308
Black	19,003,062	18,819,381	18,634,965	18,459,542	18,269,205	18,068,660
AIAN	1,130,786	1,117,063	1,103,704	1,090,820	1,077,713	1,064,442
Asian	6,365,178	6,182,024	6,001,898	5,810,443	5,605,393	5,395,716
NHPI	199,971	196,584	193,140	189,756	186,042	182,337
Two or more races	2,015,902	1,959,998	1,905,386	1,853,435	1,802,067	1,750,267
Race alone or in combination:(1)						
White	102,660,764	102,433,724	102,195,272	101,958,719	101,716,216	101,445,455
Black	19,791,809	19,573,754	19,355,902	19,148,457	18,926,510	18,694,213
AIAN	1,839,385	1,824,742	1,810,267	1,796,624	1,782,469	1,767,892
Asian	7,119,689	6,912,927	6,709,758	6,496,624	6,270,236	6,039,094
NHPI	404,555	398,959	393,547	388,107	382,020	375,929

HISPANIC OR LATINO	20,599,450	19,935,282	19,292,400	18,642,342	17,971,870	17,303,738
One race	20,295,206	19,641,952	19,009,590	18,369,826	17,709,839	17,051,967
White	18,994,808	18,379,150	17,777,295	17,164,114	16,530,204	15,899,250
Black	814,762	788,422	768,139	751,234	734,547	717,155
AIAN	297,254	292,046	287,076	281,840	276,521	271,023
Asian	135,121	130,853	127,138	124,017	121,199	118,405
NHPI	53,261	51,481	49,942	48,621	47,368	46,134
Two or more races	304,244	293,330	282,810	272,516	262,031	251,771
Race alone or in combination:(1)						
White	19,263,179	18,637,377	18,025,667	17,402,922	16,759,327	16,118,857
Black	956,545	923,844	897,457	874,694	851,966	828,593
AIAN	408,394	401,570	395,033	388,282	381,381	374,305
Asian	224,523	216,802	209,837	203,515	197,607	191,908
NHPI	86,485	84,299	82,376	80,446	78,459	76,496

(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, 2007 (NC-EST2005-03), Population Division, U.S. Census Bureau, Release Date: May 10, 2006. (<http://www.census.gov/popest/national/asrh/NC-EST2007-srh.html>)

Table A.3.3 Annual Estimates of the Resident Population by Sex, Race, and Hispanic Origin for the U.S.: 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

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
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.4.1 Annual Estimates of the U.S. Population by Median Household Income Quartile, 2001 to 2006

Median Household Income Quartile	Population Estimates					
	2001	2002	2003	2004	2005	2006
Quartile 1	70,808,587	74,924,336	69,664,519	76,323,231	72,184,620	74,069,384
Quartile 2	72,417,821	67,591,640	73,559,081	73,175,783	73,179,269	72,324,060
Quartile 3	70,933,564	74,520,370	76,465,150	68,746,327	75,674,376	75,968,161
Quartile 4	69,738,298	69,706,370	70,937,808	74,642,649	74,058,028	75,615,954
Total U.S.	283,898,269	286,742,716	290,626,558	292,887,990	295,096,293	297,977,559

Source: Claritas Population Estimates, 2001 to 2006

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
Quartile 1	1-33,999	1-35,999	1-35,999	1-35,999	1-36,999	1-37,999
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
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
Quartile 4	59,000+	62,000+	60,000+	59,000+	61,000+	62,000+

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.

Table A.4.2 Annual Estimates of the U.S. Population by Urban/Rural Designation, 2000 to 2006

Urban-Rural Designation	Population Estimates						
	2000	2001	2002	2003	2004	2005	2006
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	159,355,694
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	88,627,068
Micropolitan	28,841,168	29,095,533	29,288,910	29,542,228	29,502,573	29,686,671	29,900,208
Not metropolitan or micropolitan	19,832,671	19,975,102	19,995,938	20,117,771	19,948,026	19,995,162	20,094,589
Total U.S.	280,692,215	283,898,269	286,742,716	290,626,558	292,887,990	295,096,293	297,977,559

Source: Claritas Population Estimates, 2000 to 2006

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.