

# National GIS Data

**A collection of spatial datasets designed to support public health spatial analyses and visualizations.**

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## 500 Cities

<b>Description</b>	The <a href="#">500 Cities Project</a> provided model derived estimates for chronic disease risk factors, health outcomes, and clinical preventive services use for the 500 largest US cities.
<b>Time Frame</b>	Year; 2016 to 2019
<b>Spatial Scale</b>	City and Census Tract
<b>Format</b>	Tables and Shapefiles
<b>Source</b>	Centers for Disease Control and Prevention (CDC)
<b>Original Repository</b>	<a href="#">All Years</a> (Look for datasets labeled GIS Friendly Format)
<b>Living Atlas</b>	<a href="#">2016</a> <a href="#">2017</a> <a href="#">2018</a> <a href="#">2019</a>

### Details

This project reported city- and census tract-level data and used small area estimation methods to obtain 27 chronic disease measures for the 500 largest American cities. Dataset includes estimates for 27 measures ([definitions here](#)):

- Chronic disease-related unhealthy behaviors (5),
- Health outcomes (13), and
- Use of preventive services (9).

These estimates can be used to identify emerging health problems and to inform development and implementation of effective, targeted public health prevention activities. Because the small area model cannot detect effects due to local interventions, users are cautioned against using these estimates for program or policy evaluations.

## American Community Survey (ACS) 5-year Estimates

<b>Description</b>	“The <a href="#">American Community Survey</a> (ACS) is an ongoing survey that provides vital information on a yearly basis about our nation and its people. Information from the survey generates data that help determine how more than \$675 billion in federal and state funds are distributed each year.” (U.S Census Bureau)
<b>Time Frame</b>	5 Years; 2009 to 2022
<b>Spatial Scale</b>	Nation, State (including DC and Puerto Rico), Metropolitan Area, Congressional District, County, Place, Census Tract and Block Group
<b>Format</b>	Feature Layers
<b>Source</b>	US Census Bureau
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	<a href="#">Current</a>

### Details

The Living Atlas hosts the current ACS 5-year estimates in a series of several features grouped by topic. Each topic is hosted as both [boundaries and centroids](#). Topics may contain single or multiple ACS tables Layers can be [accessed and used](#) within your GIS workflows, for example, [make a map about your community](#).

If you are looking for historical data, the census.gov website can be difficult to go through. [Census Reporter](#) can make it easier to find and download tables at various spatial scales.

## CMS Approved Facilities - FQHC, RHC, CAH

<b>Description</b>	This service provides information on Center of Medicare & Medicaid Services (CMS) approved facilities such as federally qualified health centers (FQHCs), rural health clinics, critical access hospitals and nursing facilities.
<b>Time Frame</b>	Updated on Unknown Basis; Current
<b>Spatial Scale</b>	Point
<b>Format</b>	Feature Service
<b>Source</b>	Health Resources & Services Administration (HRSA)
<b>Original Repository</b>	<a href="#">Current</a> ( <a href="#">Additional Information</a> )
<b>Living Atlas</b>	N/A

### Details

This is the “[Provider of Service](#)” extract from the Quality Improvement Evaluation System (QIES) database maintained by the Centers for Medicare & Medicaid Services (CMS). These data include provider number, name, and address and characterize the participating institutional provider (including hospitals, skilled nursing facilities, home health agencies, and other types of facilities).

Add to an ArcGIS Project by using “Data from Path” and paste the above URL as the server to use. Export using Feature Class to Feature Class.

## County Health Rankings & Roadmaps

<b>Description</b>	Provides information on health outcomes and health factors for all 50 states
<b>Time Frame</b>	Year; 2010 to 2024
<b>Spatial Scale</b>	County
<b>Format</b>	CSV and Shapefiles
<b>Source</b>	Robert Wood Johnson Foundation and the University of Wisconsin Population Health Initiative
<b>Original Repository</b>	<a href="#">2010 to 2022</a> <a href="#">2023 or 2024</a>
<b>Living Atlas</b>	<a href="#">2018</a> <a href="#">2019</a> <a href="#">2020</a> <a href="#">2021</a> <a href="#">2022</a> <a href="#">2023</a> <a href="#">2024</a>

### Details

This dataset offers county level estimates of health outcomes and risk factors. Estimates help identify areas requiring improvement and guide the creation and use of effective, focused health interventions. As a result of the difficulty in finding local intervention effects, users should be careful when using these figures to judge programs or policies.

## County Typology Codes

<b>Description</b>	The U.S. Department of Agriculture Economic Research Service “County Typology Codes contains a set of Economic Typology codes based on the industrial composition of nonmetropolitan (nonmetro) counties and a set of Demographic Typology Codes based on demographic characteristics of interest to rural policymakers and researchers.”
<b>Time Frame</b>	Year; 1979, 1986, 1989, 2004, 2015, 2025
<b>Spatial Scale</b>	County
<b>Format</b>	CSV and XLXS
<b>Source</b>	U.S. Department of Agriculture (USDA)
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	NA

### Details

Economic Typology Code designations include:

- High Farming
- High Mining
- High Manufacturing
- High Government
- Nonspecialized
- Industry Dependence

Demographic Typology Code designations include:

- Low Post-Secondary Education
- Low Employment
- Population Loss
- Housing Stress
- Retirement Destination
- Persistent Poverty

## Division for Heart Disease and Stroke Prevention - Heart Disease and Stroke Mortality

<b>Description</b>	Heart Disease and Stroke Mortality
<b>Time Frame</b>	Three year average from 2005-2007 to 2019-2021
<b>Spatial Scale</b>	States, Counties
<b>Format</b>	Tables
<b>Source</b>	Centers for Disease Control and Prevention (CDC) Division for Heart Disease and Stroke Prevention
<b>Original Repository</b>	<a href="#">Interactive Data Atlas</a>
<b>Living Atlas</b>	<a href="#">All Years</a>

### Details

Offers Heart Disease and Stroke mortality data obtained from the National Vital Statistics System. Data can be stratified by various demographic groups. The Interactive Atlas of Heart Disease and Stroke offers a way to visualize, export, and generate reports from heart disease and stroke mortality data, as well as data regarding...

- Prevalence
- Risk Factors
- Social, Economic, Environmental variables
- Demographics
- Health Care Delivery and Insurance
- Health Care Costs

## Federally Qualified Health Center Service Delivery and Look-Alike Sites

<b>Description</b>	List of federally-funded health centers that provide health services.
<b>Time Frame</b>	Updated on Unknown Basis; Current
<b>Spatial Scale</b>	Point
<b>Format</b>	CSV with Address and X/Y
<b>Source</b>	Health Resources & Services Administration (HRSA)
<b>Original Repository</b>	<a href="#">Current</a>
<b>Living Atlas</b>	N/A

### Details

Health centers are community-based and consumer-run organizations that serve populations with limited access to health care. These include low-income populations, the uninsured, those with limited English proficiency, migratory and seasonal agricultural workers, individuals and families experiencing homelessness, and those living in public housing.



## Healthcare Facilities of the Indian Health Service (IHS)

<b>Description</b>	Point-level representation of the locations of IHS Facilities in the United States
<b>Time Frame</b>	Updated on Unknown Basis; Current
<b>Spatial Scale</b>	Point
<b>Format</b>	Feature Service
<b>Source</b>	Indian Health Service (IHS)
<b>Original Repository</b>	<a href="#">Current</a>
<b>Living Atlas</b>	<a href="#">Current</a>

### Details

The IHS is an agency within the Department of Health and Human Services responsible for providing federal health services to American Indians and Alaska Natives. These services include hospitals, behavioral health facilities, health centers, dental clinics, health stations, Alaska Village Clinics and other services. The IHS is the principal federal health care provider and health advocate for Indian people, and its goal is to raise their health status to the highest possible level. The IHS provides a comprehensive health service delivery system for American Indians and Alaska Natives who are members of 566 federally recognized Tribes across the U.S.

## Mapping Medicare Disparities

<b>Description</b>	Health outcomes measures to map Medicare disparities
<b>Time Frame</b>	Updated on Unknown Basis; Current
<b>Spatial Scale</b>	State/Territory, County, Tract (depending on measure)
<b>Format</b>	CSV
<b>Source</b>	Center of Medicare & Medicaid Services
<b>Original Repository</b>	<a href="#">Current</a> (date listed)
<b>Living Atlas</b>	N/A

### Details

Composed of multiple tools which display disparities through three views:

- Population - “The MMD interactive tool contains health outcome measures for disease prevalence, costs, hospitalization for 60 specific chronic conditions, emergency department utilization, readmissions rates, mortality, preventable hospitalizations, and preventive services.”
- Hospital - “The MMD interactive map hospital tool identifies area of disparities between hospital quality and cost of care. It allows for a way to compare measures at the hospital, county, state, territory, and national levels”
- Social Determinants of Health - “This addition to the MMD tool identifies areas of disparities by key Social Determinant of Health (SDOH) domains and measures”

## Multidimensional Deprivation Index (MDI)

<b>Description</b>	“The Multidimensional Deprivation Index (MDI) is a new research measure intended to complement, not replace, the Official Poverty Measure or Supplemental Poverty Measure. The MDI has six dimensions: standard of living, education, health, economic security, housing quality, and neighborhood quality. This report presents estimates of poverty using the official definition of poverty and estimates of deprivation using the MDI based on information collected primarily in the American Community Survey.”
<b>Time Frame</b>	Mixed; 2010 to 2019; 2017
<b>Spatial Scale</b>	State and County
<b>Format</b>	Shapefile
<b>Source</b>	US Census Bureau
<b>Original Repository</b>	<a href="#">2010 to 2019 2017</a>
<b>Living Atlas</b>	N/A

### Details

MDI value is equal to the percent of households in that region that qualify as “deprived.” Can be treated as an exposure value. A composite measure based on six dimensions:

- Neighborhood Quality
- Standard of Living
- Education
- Health
- Economic Security
- Housing Quality

Cannot map by individual dimension.

## Population Level Analysis and Community Estimates (PLACES)

<b>Description</b>	The PLACES Project replaces the 500 Cities Project and provides model-based population-level analysis and community estimates for the entire US at several spatial scales
<b>Time Frame</b>	Year; 2019 to 2024
<b>Spatial Scale</b>	Counties, Places, ZCTAs, and Census Tracts
<b>Format</b>	Tables and Shapefiles
<b>Source</b>	Centers for Disease Control and Prevention (CDC)
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	<a href="#">Current</a>

### Details

This project reported city- and census tract-level data and used small area estimation methods to obtain 29 chronic disease measures for the United States.

Dataset includes estimates for 29 measures (definitions here):

- Chronic Disease Related Health Outcomes (13)
- Prevention Measures (9)
- Health Risk Behaviors (4)
- Disability (7)
- Health Status (3)

These estimates can be used to identify emerging health problems and to inform development and implementation of effective, targeted public health prevention activities. Because the small area model cannot detect effects due to local interventions, users are cautioned against using these estimates for program or policy evaluations.

## Rural-Urban Commuting Area (RUCA)

<b>Description</b>	The rural-urban commuting area (RUCA) codes classify U.S. census tracts using measures of population density, urbanization, and daily commuting. Also approximated at ZIP code level
<b>Time Frame</b>	Mixed; 1990, 2000, and 2010 Decennial Census, 2006-10 ACS
<b>Spatial Scale</b>	County level representation of counties that are defined as PRCDAs/CHSDA
<b>Format</b>	CSV with GEOIDs
<b>Source</b>	US Department of Agriculture Economic Research Service
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	N/A

### Details

The classification contains two levels. Whole numbers (1-10) delineate metropolitan, micropolitan, small town, and rural commuting areas based on the size and direction of the primary (largest) commuting flows. These 10 codes are further subdivided based on secondary commuting flows, providing flexibility in combining levels to meet varying definitional needs and preferences.

## Shortage Areas (HPSAs and MUA/Ps)

<b>Description</b>	Facility, population, and geographic boundaries for Health Professional Shortage Areas (HPSAs) and Medically Underserved Areas/Populations (MUA/Ps).
<b>Time Frame</b>	Updated on Unknown Basis; Current
<b>Spatial Scale</b>	Mixed (Point, Tract, County Subdivision, County)
<b>Format</b>	Shapefile and Feature Service
<b>Source</b>	Health Resources & Services Administration
<b>Original Repository</b>	<a href="#">Current</a>
<b>Living Atlas</b>	N/A

### Details

HRSA's Bureau of Health Workforce (BHW) develops shortage designation criteria and uses them to decide whether or not a geographic area or population group is a Health Professional Shortage Area (HPSA), Medically Underserved Area (MUA), or Medically Underserved Population (MUP). For HPSAs, scores range from 1 to 25 for primary care and mental health, 1 to 26 for dental health. The higher the score, the greater the priority. HPSAs may have shortages of primary medical care, dental, or mental health providers; may be urban or rural areas; population groups; or medical or other public facilities.

## Small Area Health Insurance Estimate (SAHIE) Program

<b>Description</b>	Offers estimates of health insurance coverage in countries and states throughout the United States. It aids in the identification of locations with large uninsured populations, as well as policy-making and resource allocation.
<b>Time Frame</b>	Mixed; 2000, 2001, 2005 to 2007, 2008 to 2022
<b>Spatial Scale</b>	State and County
<b>Format</b>	CSV and Shapefile
<b>Source</b>	U.S. Census Bureau
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	N/A

### Details

SAHIE estimates are available for several demographic groups. These estimates aid in identifying regions with a significant number of individuals without health insurance coverage.

## Small Area Income and Poverty Estimates (SAIPE) Program

<b>Description</b>	Offers yearly estimates of income and poverty information for every school district, country and state in the United States.
<b>Time Frame</b>	Year; 1989 to 2023
<b>Spatial Scale</b>	State, County, and School District
<b>Format</b>	Tables
<b>Source</b>	U.S. Census Bureau
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	N/A

### Details

This research presents yearly estimates of income and poverty data, encompassing:

- Total number of people in poverty
- Number of children under age 18 in poverty
- Number of related children ages 5 to 17 in families in poverty
- Median household income

Produced for every school district, county, and state, these figures help pinpoint locations with high poverty rates, which in turn informs policy choices and the creation of targeted solutions.



## Social Vulnerability Index (SVI)

<b>Description</b>	The <a href="#">Social Vulnerability Index</a> uses 15 U.S. census variables to help local officials identify communities that may need support before, during, or after disasters.
<b>Time Frame</b>	Year; 2000, 2010, 2014, 2016, 2018, 2020, 2022
<b>Spatial Scale</b>	County and Census Tract
<b>Format</b>	CSV and Geodatabase
<b>Source</b>	Centers for Disease Control and Prevention (CDC)
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	<a href="#">2018</a> <a href="#">2020</a> <a href="#">2022</a>

### Details

Ranking by social vulnerability. Can look at rank within a state or within the entire US. A composite measure based on four dimensions:

- Housing Type and Transportation
- Household Composition and Disability
- Socioeconomic Status
- Minority Status and Language

Can also map by individual dimension.

## Tribal Census Tract Boundaries

<b>Description</b>	Polygons representing individual tribal census tracts throughout the United States
<b>Years</b>	Year; 2007 to 2024
<b>Spatial Scale</b>	Tribal Tract
<b>Format</b>	Shapefile
<b>Source</b>	US Census Bureau
<b>Original Repository</b>	<a href="#">All Years</a>
<b>Living Atlas</b>	N/A

### Details:

Tribal census tracts are small statistical subdivisions of a reservation and off- reservation trust land. Their primary purpose is the same as census tracts: the presentation of statistical data. However, rather than nesting within a county, tribal census tracts nest within a single federally recognized American Indian area, providing coverage across all federally recognized American Indian reservations and off-reservation trust lands. Tribal census tracts have population criteria identical to county-based census tracts.

If you would like attributes associated with these Tribal Census Tract Boundaries, you can visit <https://data2.nhgis.org/main>. Select **Geographic levels** -> **Native American/Alaskan/Hawaiian** -> **Tribal Census Tracts**. You can then select years, topics, and datasets to filter ACS Tables