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**Beyond the Statistical Abstract**

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Available at: [https://works.bepress.com/stacey_knight-davis/17/](https://works.bepress.com/stacey_knight-davis/17/)
Mapping Data

Stacey Knight-Davis
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Thematic Maps

Show a distribution or pattern

Level of detail in the map depends on the detail in the data
Geographic Information Systems

Links location to data

- Locations can be...
  - States
  - Counties
  - City Blocks
  - Map coordinates

- Data can come from...
  - Census, USGS, Scientific Studies
  - Or any geo-coded source
Getting Started

No special software needed!

Thematic map utility at National Atlas

http://www.nationalatlas.gov/
Welcome to the National Atlas of the United States of America®

You've seen other atlases. They're typically big books of paper maps. The pages in this atlas are here on the Internet whenever you need them. This is a new portrayal of America in maps. We use new technologies, but we honor traditions of accuracy, reliability, and innovation. You've found the single best Federal source for national maps and geographic information on the Web. The people and places of the United States are here.

- See What's New -
Select a Theme

Agriculture

- Average Total Farm Production Expenses per Farm 2002
- Crops 2002
  - None Selected
- Farms 2002
  - None Selected
- Land 2002
  - None Selected
  - None Selected
  - Acres of Harvested Cropland as Percent of Land...
  - Acres of Irrigated Harvested Cropland...
  - Acres of Total Cropland as Percent of Land Area...
  - None Selected
- Value 2002
  - None Selected
- Vegetables, Fruit and Nut Trees 2002
  - None Selected

Biology

Boundaries

Climate

Environment

Geology
Select a State
Pinpoint a location
Zoom to Feature

Location Information
Zip Code: 61920
City: Charleston
State: IL
County: Coles
Longitude: -88.176764
Latitude: 39.488789

- Zoom to Feature
- Show Aerial Photograph
- Show Topographic Map
American FactFinder

http://factfinder.census.gov/

- 1990 & 2000 Decennial Censuses
- 2004 American Community Survey
- 2004 Population Estimates
- 1997 & 2002 Economic Censuses
Getting Started

U.S. Census Bureau

FactFinder

Your source for population, housing, economic, and geographic data

Fast Access to Information

Get a Fact Sheet for your community...

For age, education, income, and race, click People.
For home values, ownership, and mortgage, click Housing.
For foreign trade, governments, and housing starts, click Business and Government.

Getting Detailed Data

To learn about Data Sets, check out About the Data.
Expert user? Go directly to Data Sets.

What's New

What it's worth: the value of an education, with earnings data by sex and level of educational attainment. more »
The 2004 annual report on Income, Earnings, Poverty, and Health Insurance Coverage from the Current Population Survey (CPS) has been released. more »
2004 American Community Survey (ACS) data and updates to American FactFinder released August 30, 2005. more »

In the Spotlight

Hurricanes Katrina and Rita

News Releases and Census Data

Results from the 2004 American Community Survey have been released, including Subject Tables, Ranking Tables, and Thematic Maps. more »

Access detailed ACS data from the Data Sets page.

2002 Economic Census data continue to be released on a flow basis, as Quick Reports and Detailed Statistics Data Sets. Newly released Thematic Maps are now available. past items »
Thematic Maps

American FactFinder (AFF) has two tools for creating, viewing, printing, and downloading maps:

- **Reference Maps** - A tool to view the boundaries of census geographies, such as counties, cities and towns, urban areas, congressional districts, census tracts, census blocks, and more.
- **Thematic Maps** - A tool to view geographic patterns in census data. Thematic Maps are available for Census 2000, the 1990 Census, the Economic Census, and the Population Estimates program.

For guidance in using these mapping tools, see the [Creating and Using Maps](#) tutorial.

**Using Reference Maps**

The reference map shows you selected geographic boundaries for an area along with orienting features, such as roads. To view a reference map, select the geographic area you want to see. You can customize the map by adding different boundaries or features.

The map always starts with a view of the United States, but you can change that by clicking on the area of the map you want to view in more detail, or by selecting a new geography using the geography link at the top of the Reference Map page.

Click 'Quick tips' for assistance in navigating or customizing your map.
Changing the Map

Modify classes and click Update.

Number of classes: 7

Color scheme:
- Gray
- Orange
- Green
- Blue
- Magenta
- Violet
- Gray

Classing method:
- Equal intervals
- Quantiles
- Natural breaks
Changing the Map

United States by State
TM-P002. Persons per Square Mile: 2000
Universe: Total population
Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see http://factfinder.census.gov/home/en/databrowse.html.

Click map to: +

Display map by: State

Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrix P1.
Changing the Data Set

Thematic Maps
You are here: Main > All Data Sets > Data Sets with Thematic Maps > Geography > Themes > Results

Change...
- Data Classes
- Boundaries
- Features
- Titles

Reposition on...
- A street address or ZIP code
- A latitude and longitude
- The selected geography

Quick tips

Legend

Data Classes
- Persons/Sq Mile
  - 1 - 33
  - 34 - 73
  - 80 - 141
  - 142 - 216
  - 217 - 301
  - 302 - 401
  - 402 - 503
  - 504 - 603
  - 604 - 703
  - 704 - 803
  - 804 - 931
  - 932 - 960
  - 961 - 991
- Other

Features
- Major Road
- Street
- Stream/Waterbody

Identify - geo name and data value

Click map for:

Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrix P1.
Changing the Data Set

Select a Data Set
You are here: Main → All Data Sets → Data Sets with Thematic Maps

Select a data set and click 'Next'

- 1990 & 2000 Decennial Census
- Census 2000 Summary File 1 (SF 1) 100-Percent Data
- Census 2000 Summary File 3 (SF 3) - Sample Data
- 109th Congressional District Summary File (Sample)
- 109th Congressional District Summary File (100-percent)
- Census 2000 Redistricting Data (Public Law 94-171) Summary File
- 1990 Summary Tape File 1 (STF 1) - 100-Percent data
- 1990 Summary Tape File 3 (STF 3) - Sample data
- 2004-2006 American Community Survey
- 2004 American Community Survey
- Annual Population Estimates
- 2004 Population Estimates
- 1997 & 2002 Economic Censuses
- All sectors: Geographic Area Series: Economy-Wide Key Statistics: 2002
- All sectors: Economic-Wide Key Statistics: 1997

See list of all data sets

What's this? Next
Select Geographic Type

County Subdivision will allow mapping at the Block level

Geography available is determined by data set chosen
Select New Theme

Select Theme
You are here: Main ▶ All Data Sets ▶ Data Sets with Thematic Maps ▶ Geography ▶ Themes ▶ Results
Census 2000 Summary File 1 (SF 1) 100-Percent Data, Thematic Maps

Choose a theme selection method
by subject by keyword show all themes

Select a theme and click 'Show Result'

- TM-P019F. Percent of Persons Under 18 Years [Some Other Race Alone]: 2000
- TM-P019G. Percent of Persons Under 18 Years [Two or More Races]: 2000
- TM-P019H. Percent of Persons Under 18 Years [Hispanic or Latino, of any race]: 2000
- TM-P019I. Percent of Persons Under 18 Years [White Alone, Not Hispanic or Latino]: 2000
- TM-P020A. Percent of Persons 65 Years and Over [White Alone]: 2000
- TM-P020B. Percent of Persons 65 Years and Over [Black or African American Alone]: 2000
- TM-P020C. Percent of Persons 65 Years and Over [American Indian and Alaska Native Alone]: 2000
- TM-P020D. Percent of Persons 65 Years and Over [Asian Alone]: 2000
- TM-P020E. Percent of Persons 65 Years and Over [Native Hawaiian and Other Pacific Islander Alone]: 2000

Show Result ▶
Pinpoint Location

Peoria City township, Peoria County, Illinois by Block
TM-P020. Percent of Persons 65 Years and Over: 2000

Universe: Total population
Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see

To reposition the map, enter an address or a ZIP code and click 'Go'.

Quick Tips
201 SW Jefferson Ave
City: Peoria
State: Illinois
ZIP Code: 61604
Go
Cancel

Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrices P1 and P30.
LandView

Very Powerful
Available from Depository Libraries
Can be copied
LandView 6 Features

• Population Estimator function to demographic and housing characteristics for user defined radii
• Browse and query the Census, EPA or USGS databases and show the query results on the map
• Vary the scale and control which map layers are shown
• Can be set up to run on a local area network
Grandparents responsible for Grandchildren
Vermilion Co. IL
Census blocks with more than 20% of families in poverty and more than 15% of families without a husband
.75 mile radius around library showing schools and area from previous map
LandView Tutorials

Tutorials available at
http://www.census.gov/geo/landview/
Questions?