



# Census Geographic Programs An Update

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## California State Data Center Meeting May 31, 2012





# Census Geographic Programs An Update

- Geographic areas
- TIGERweb
- Count Question Resolution program
- Geographic data products
- Geographic Support System Initiative





# Public Use Microdata Areas (PUMAs)

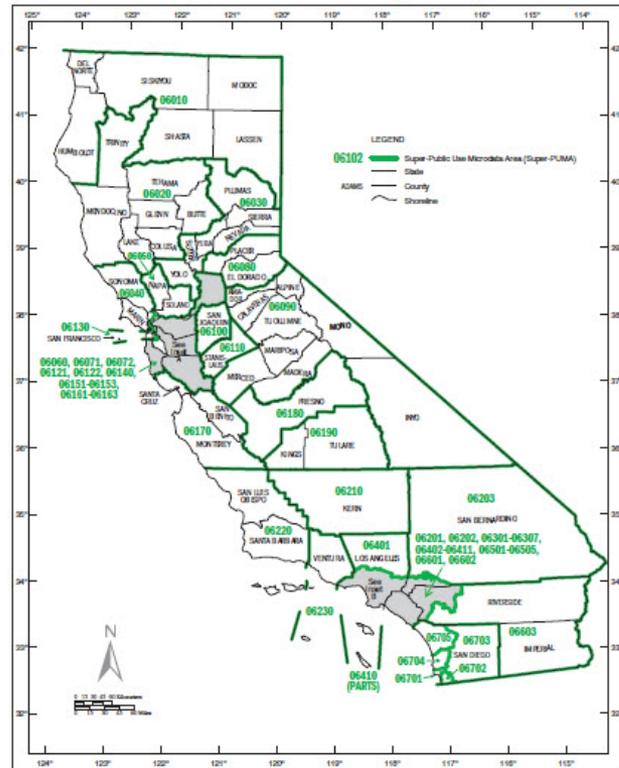
- Unit of geography for ACS PUMS data (100,000 to 200,000 pop)
- Contiguous aggregations of Census Tracts and/or Counties
- Delineation conducted/coordinated by SDC (digital files using MAFTIGER Partnership Software)
- PUMAs may be named (new for 2010)
- 46 states participated (GEO did remainder)
- 1, 3, & 5-year ACS estimates will be available
- <http://www.census.gov/geo/puma/puma2010.html>



# Public Use Microdata Areas (PUMAs)

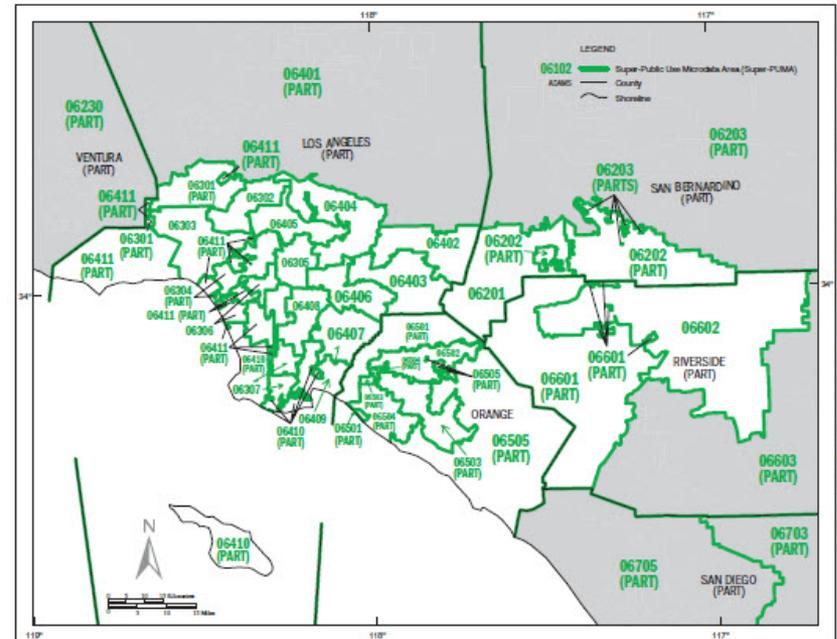
Rural (multi-county) vs. Urban (sub-county)

CALIFORNIA - Census 2000 Super-Public Use Microdata Areas (Super-PUMAs)



Public Use Microdata Sample (PUMS) files  
U.S. Census Bureau, Census 2000

California 1



CALIFORNIA (Inset B) - Census 2000 Super-Public Use Microdata Areas (Super-PUMAs)



# Public Use Microdata Areas (PUMAs)

## 2010 PUMA Delineation Program Schedule

Date	Activity
July 5, 2011	Final PUMA delineation criteria and guidelines distributed.
September 2011	Materials sent to State Data Centers (SDCs) for PUMA delineation; PUMA delineation software (MTPS) WEBINAR training begins.
Late December 2011	Return deadline for submissions from SDCs.
Fall 2011 - Spring 2012	Review of PUMA submissions at the Census Bureau and insertion into TIGER database.
Spring - Summer 2012	Creation of geographic products containing 2010 PUMAs for use in Decennial Public Use Microdata Sample (PUMS) and American Community Survey (ACS) products.
Fall 2012	TIGER/Line® Shapefiles released for 2010 PUMAs.
To Be Determined	Decennial (2010) PUMS files, ACS PUMS (1-year, 3-year, 5-year), and ACS estimates (1-year, 3-year, 5-year) released.





# Update on Geographic Areas

- Public Use Microdata Areas (PUMAs)
- **Urban Areas**
- School Districts
- ZIP Code Tabulation Areas (ZCTAs)



# Urban Areas

FOR IMMEDIATE RELEASE: MONDAY, MARCH 26, 2012

## Growth in Urban Population Outpaces Rest of Nation, Census Bureau Reports

The nation's urban population increased by 12.1 percent from 2000 to 2010, outpacing the nation's overall growth rate of 9.7 percent for the same period, according to the U.S. Census Bureau. The Census Bureau released the new [list of urban areas](#) today based on 2010 Census results.

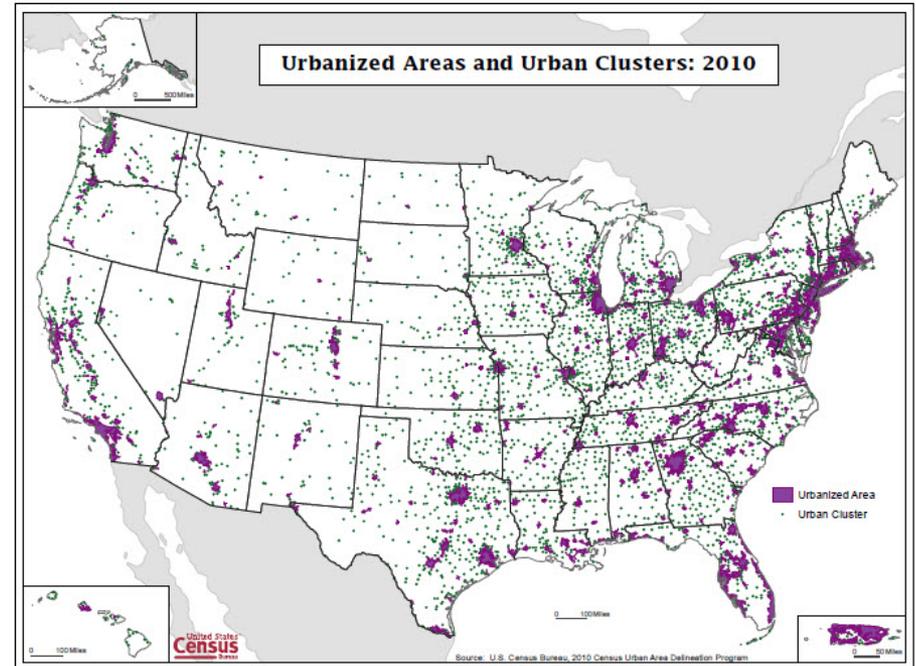
Urban areas — defined as densely developed residential, commercial and other nonresidential areas — now account for 80.7 percent of the U.S. population, up from 79.0 percent in 2000. Although the rural population — the population in any areas outside of those classified as “urban” — grew by a modest amount from 2000 to 2010, it continued to decline as a percentage of the national population.



# Urban Areas

## Two types of Urban Areas

- Urbanized Areas (UAs) of 50,000 or more population
- Urban Clusters (UCs) of 2,500 - 49,999



# Urban Areas

Final criteria published in Fed Register (8/24/2011)

Criterion	Census 2000 Final	Proposed 2010 Census
<i>Initial Analysis Unit</i>	Block Group	Census Tract
<i>Maximum Jump Distance</i>	2.5 miles	1.5 miles & no hops after jump
<i>Airports</i>	10,000 enplanements	2,500 enplanements
<i>Central Place</i>	Defined	Not defined
<i>Minimum Population</i>	2,500	2,500 & 1,500 outside institutional GQs



# Urban Areas Schedule

- **January 2012** - Census (GEO) completed delineation of Urban Areas
- **March 2012** - 2010 Urban Area List published in Fed Register
- **April 2012** – release of Urban/Rural TIGER/Line shapefiles
- **October 2012** – SF-1 Urban/Rural update
- **Late 2013** – ACS publishes data for 2010 Urban Areas
  
- **Two new UAs in California**
  - Delano UA (Kern County)
  - Woodland UA (Yolo County)



# Urban Areas Products

As of 5/31/2012:

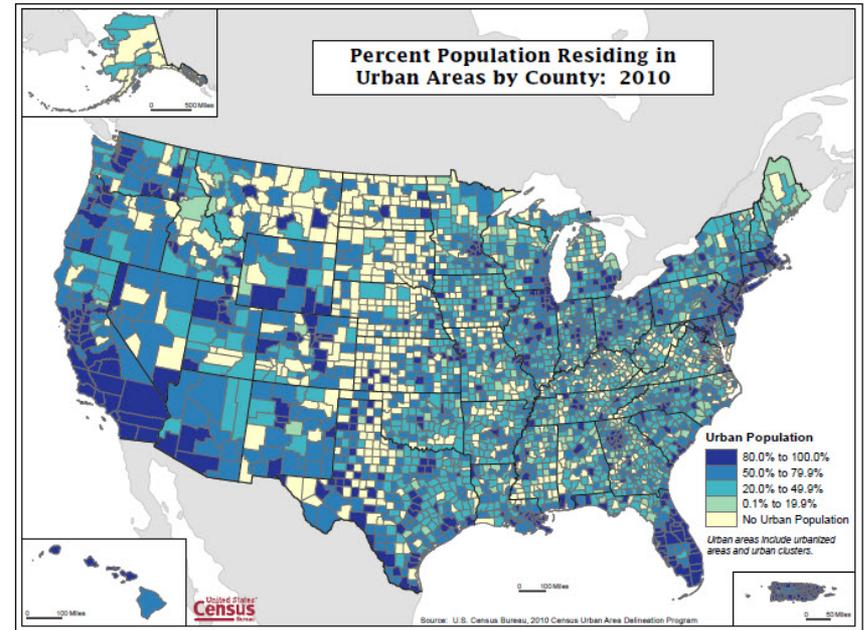
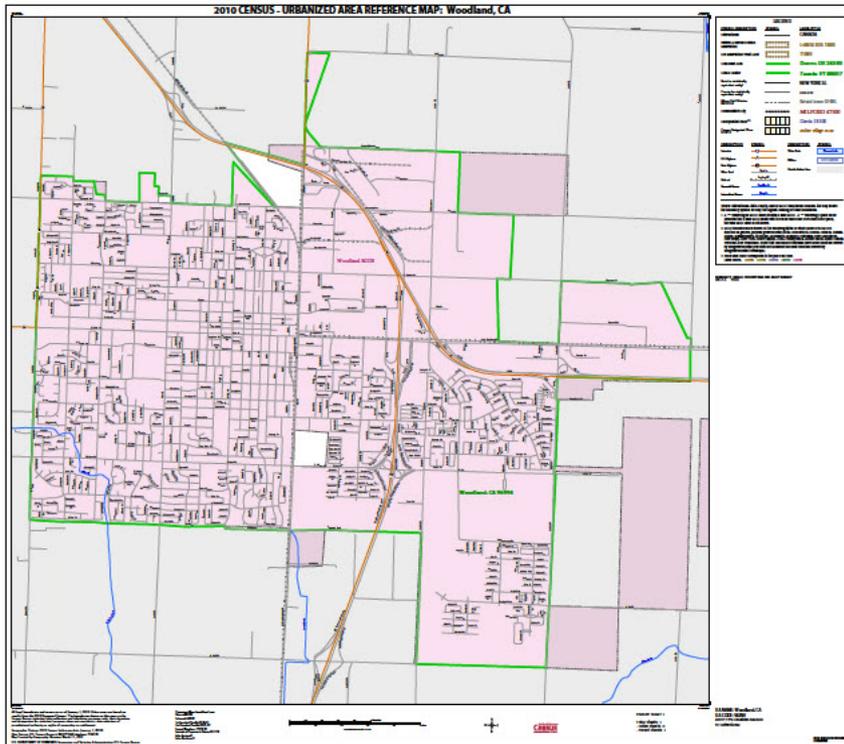
- Separate national UA shapefile *available now* for download
- Several UA relationship files *available now* for download
- Reference maps (pdfs) for:
  - UAs
  - UCs
- Thematic maps (pdfs)



# Urban Area Maps

Reference (UA-based)

Thematic (national)





# School District Review Program

- Background
    - National Center for Educational Statistics sponsored program conducted by Census Bureau every 2 years
    - Provides data (estimates of children in low-income families) for funding under Title 1 of the Elementary and Secondary Education Act (PL 107-110)
  - State officials review current School District information
    - Update SD Names and ID Numbers
    - Update SD boundaries
    - Update grade ranges for SDs
    - Submit boundaries effective as of 1/1/2012
  - State-level designee works with Census Bureau HQ staff
    - Steve Yu, California Dept of Education
    - Local school districts reviewed maps; provided input to Steve
    - Steve used MTPS (w/assistance from LA geographer) to update digital file for state
- [http://www.census.gov/geo/www/schdist/sch\\_dist.html](http://www.census.gov/geo/www/schdist/sch_dist.html)



# School District Review Program

## 2011-2012 School District Review Program Timetable

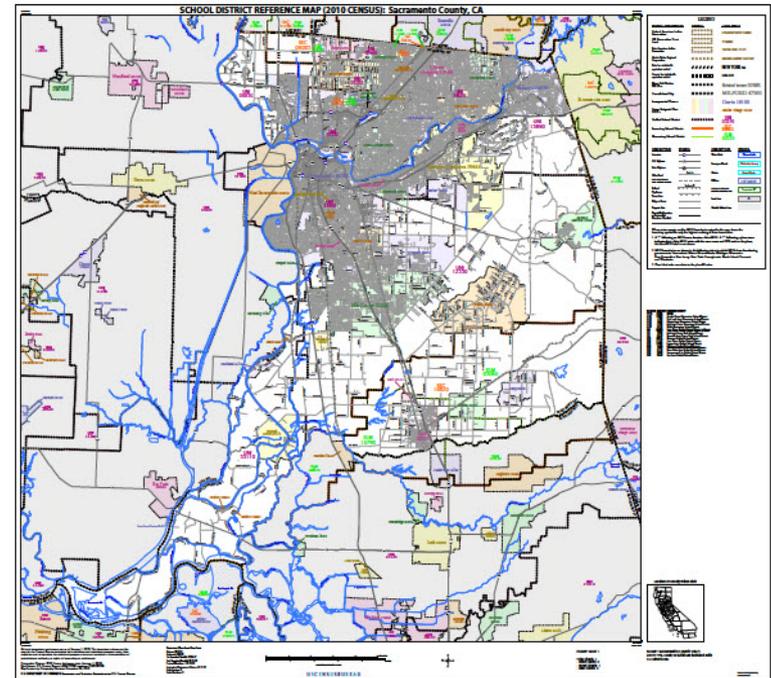
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- June 2011 - National Center for Education Statistics letter is sent to Title I coordinators asking for designation of a school district mapping coordinator for each state and the District of Columbia.
- August 2011 - Mailout of program instructions and annotation materials to designated state school district mapping coordinators begins.
- November 2011 - Deadline for requesting paper copies of school district maps.
- December 2011 - Deadline for submitting school district changes during the annotation phase. We strongly encourage our partners to submit changes as soon as possible rather than waiting until this deadline. If your state is submitting a large number of changes, please send them on a flow basis rather than waiting to send the entire state.
- January 2012 – Review of verification materials begins.
- February 2012 – Deadline for submitting school district changes during the verification phase.
- November 2012 - Release of preliminary estimates based on the updated school district geographic framework.



# School District Review Program

- ACS data availability dependent on population of School District
- Shapefiles and maps available after each 2-year cycle TIGER/Line (2012)
- Small Area Income and Poverty Estimates (SAIPE) data and tools (<http://www.census.gov/did/www/saipe/>)
- Data released to Dept of Education – Nov/Dec 2012
- Challenge period in early 2013
- Next round (2013-14) begins Aug 2013



# School District Review Program - SAIPE

[Census.gov](#) » [People and Households](#) » SAIPE Main

## Small Area Income and Poverty Estimates

Main

About SAIPE

Data

Methodology

Publications

Related Sites

Contact Us

### Quick Links

- [School District Data](#)
- [State and County Data](#)
- [Model Input Data](#)

### New Interactive Data/Map Tool Preview



### 2010 SAIPE Highlights



### Upcoming Releases

Our next release is planned for December 2012.

## Model-based Small Area Income & Poverty Estimates (SAIPE) for School Districts, Counties, and States

The U.S. Census Bureau, with support from other Federal agencies, created the Small Area Income and Poverty Estimates (SAIPE) program to provide more current estimates of selected income and poverty statistics than those from the most recent decennial census.

Estimates are created for school districts, counties, and states. The main objective of this program is to provide updated estimates of income and poverty statistics for the administration of federal programs and the allocation of federal funds to local jurisdictions. Estimates for 2010 were released in November 2011. These estimates combine data from administrative records, intercensal population estimates, and the decennial census with direct estimates from the American Community Survey to provide consistent and reliable single-year estimates. These model-based single-year estimates are more reflective of current conditions than multi-year survey estimates.

### Latest SAIPE Release

The 2010 school district, county and state estimates were released in November 2011.

- [Release highlights of 2010 »](#)
- [School district estimates for 2010 »](#)
- [State and county estimates for 2010 »](#)
- [View state and county maps for 2010 »](#)
- [Preview the new Interactive Data/Mapping Tool »](#)

The challenge period for the 2010 estimates was November 29, 2011 to February 27, 2012.

### Related Sites

- [Income Topics](#)
- [Poverty Topics](#)
- [Small Area Health Insurance Estimates \(SAHIE\) program](#)

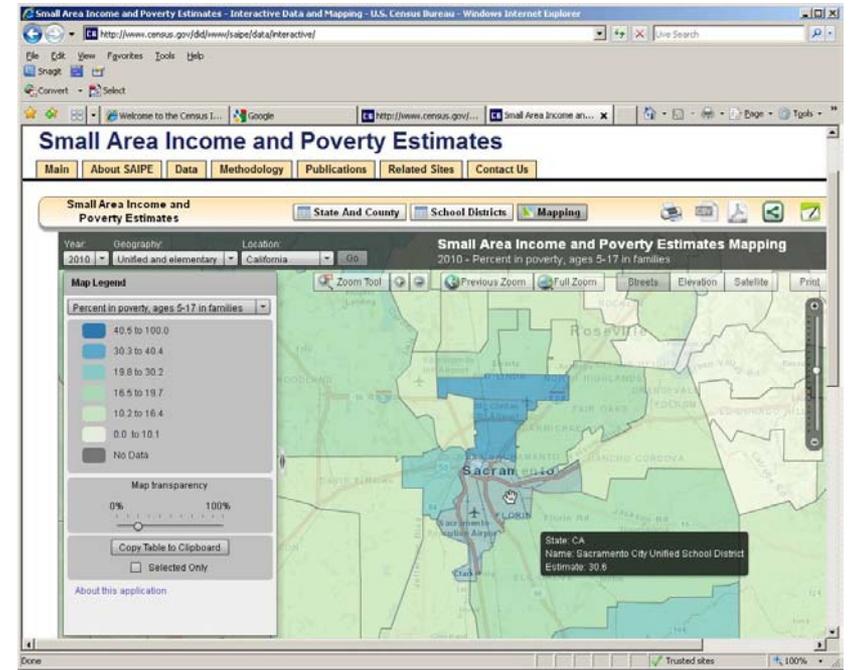
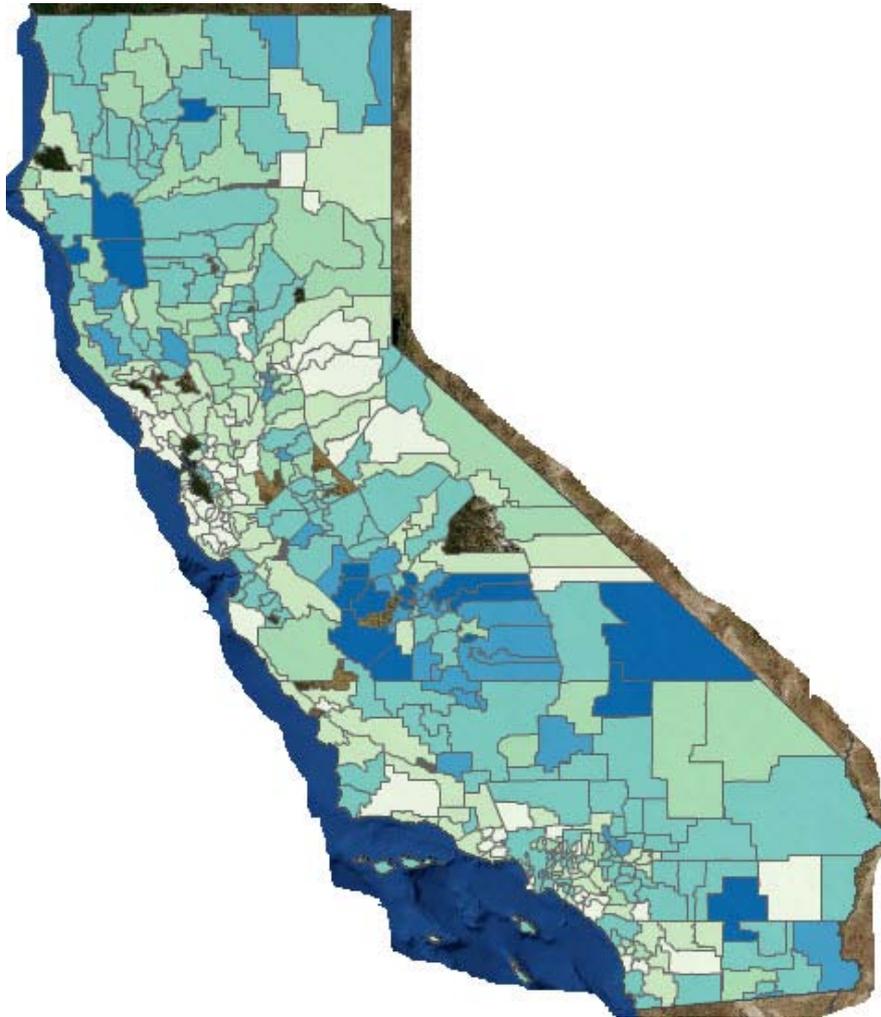
### Contact Us

For assistance, please contact the Census Call Center at 1-800-923-8282 (toll free) or visit [ask.census.gov](#) for further information.

Measuring America—People, Places, and Our Economy



# School District Review Program - SAIPE





# ZIP Code Tabulation Areas (ZCTAs)

- Generalized area representations of USPS ZIP Code service areas
- First developed for Census 2000
- Represent most frequently occurring five-digit ZIP Code found in a given area
- Aggregated from 2010 Census blocks, whose addresses use a given ZIP Code
- 5-year ACS data available at ZCTA level



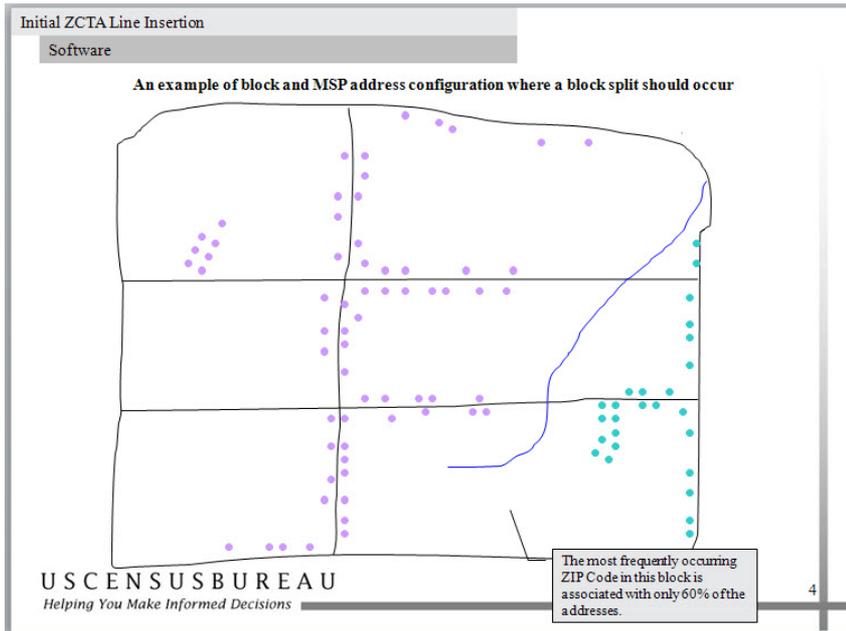
- <http://www.census.gov/geo/ZCTA/zcta.html>



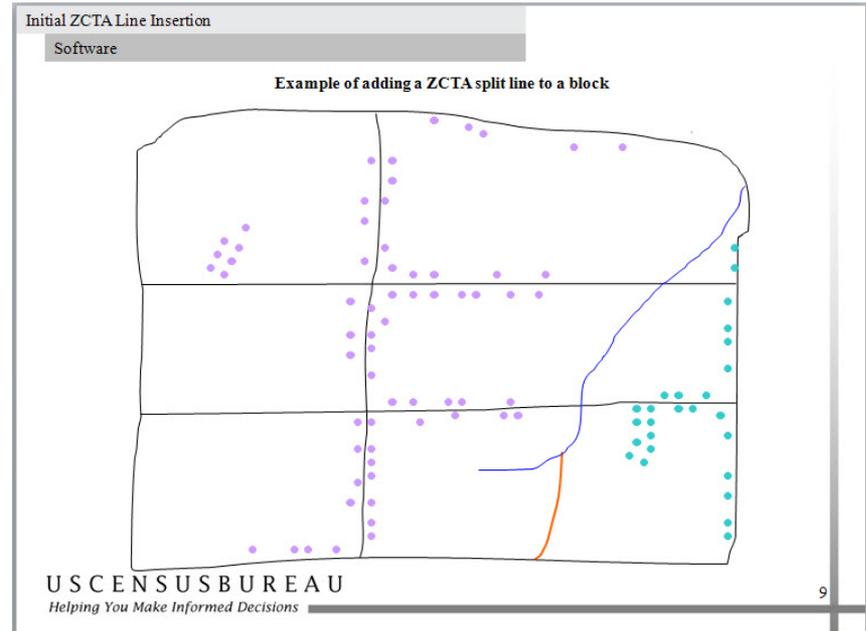


# ZIP Code Tabulation Areas (ZCTAs)

## Analysis (step 1)



## Block split (step 2)







# Census Geographic Programs An Update

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# TIGERweb

A set of web-based applications and services that allow users to view and query boundaries and attribute information for geographic entities stored in the MAF/TIGER database (MTDB)

- **TIGERweb Viewer** – interactive online map of census geography (<http://tigerweb.geo.census.gov/tigerweb/default.htm>)
- **TIGERweb WMS** – OGC-compliant web map service that provides access to viewer content in user's GIS (<http://tigerweb.geo.census.gov/ArcGIS/services/tigerWMS/MapServer/WMSServer>)
- **TIGERweb Tabular Data Files** – nation and state-based files containing geographic identifiers, codes, and characteristics ([http://tigerweb.geo.census.gov/tigerwebmain/TIGERweb\\_tab10\\_state\\_based\\_files.html](http://tigerweb.geo.census.gov/tigerwebmain/TIGERweb_tab10_state_based_files.html))



# TIGERweb

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United States Census 2010  
TIGERweb (beta)  
Geography Division

Map Content

- Labels
- Transportation (Roads and Railroads)
- Tribal Census Tracts and Block Groups
- Census Tracts and Blocks
- Military Installations
- School Districts
- Places and County Subdivisions
- American Indian, Alaska Native, and Native Hawaiian Areas
- Legislative Areas
- Census Regions and Divisions
- Urban Areas - Census 2000
- Metropolitan and Micropolitan Statistical Areas and Related Statistical Areas

1000 km  
1000 mi  
1:73,957,190

Pan Legend Help

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# TIGERweb

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United States Census 2010  
TIGERweb (beta)  
Geography Division

Map of California showing various urban areas (UC) and counties (UA) highlighted in blue. Key locations include Sacramento UA, Woodland UC, Davis UA, Dixon UC, Vacaville UA, Fairfield UA, Yuba City UC, Marysville UC, Placerville UC, and Jackson UC. Major highways (5, 80, 505, 50) and counties (COLUSA, SUTTER, YOLO, SACRAMENTO, EL DORADO, AMADOR, SAN JOAQUIN, CALAVERAS) are also visible.

Map navigation controls: Pan, Legend, Help

Scale: 1:577,790  
15km / 10mi

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# TIGERweb

U.S. Census Bureau

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United States Census 2010 TIGERweb (beta)  
Geography Division

**Identify Results**

- Primary Roads (Transportation (Roads and Railroads))  
80
- Urbanized Areas - Census 2000 (Urban Areas - Census 2000)  
Sacramento, CA
- States (States and Counties)  
California
- Counties (States and Counties)  
Sacramento

<b>COUNTYCC:</b>	H1
<b>COUNTY:</b>	067
<b>CSA:</b>	472
<b>FUNCSTAT:</b>	A
<b>GEOID:</b>	06067
<b>LSADC:</b>	06
<b>METDIV:</b>	
<b>MTFCC:</b>	G4020
<b>BASENAME:</b>	Sacramento
<b>NAME:</b>	Sacramento County
<b>OID:</b>	27590751848642
<b>STATE:</b>	06
<b>UR:</b>	
<b>CENTLAT:</b>	+38.4491130
<b>CENTLON:</b>	-121.3445433
<b>INTPTLAT:</b>	+38.4500114
<b>INTPTLON:</b>	-121.3404409
<b>POP100:</b>	1418788
<b>HU100:</b>	555932

Map showing Sacramento County, CA, with various urbanized areas (UC) and urban areas (UA) highlighted. Labels include SACRAMENTO, Rancho Marieta UC, Sacramento UA, Lincoln UC, Cameron Park UC, Rancho Marieta UC, and others. A scale bar indicates 15km and 10mi. A scale of 1:577,790 is shown.

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# Count Question Resolution

- CQR is the mechanism for state, local, and tribal officials to challenge the 2010 Census counts of housing units, group quarters, and/or group quarters population counts
- Boundary, geocoding, and coverage challenges
- Began June 1, 2011 and runs through June 1, 2013
- Research will be completed by September 30, 2013

- <http://2010.census.gov/2010census/about/cqr.php>



# Count Question Resolution

- Nationally, 148 challenges as of 5/17/2012
  - Notables include:
    - New York City
    - Chicago
    - Detroit
    - Miami
    - Washington, DC
- California challenges include
  - Carpinteria, Cerritos, Colma, Laguna Woods, San Mateo County, Vernon
- Complete list available at  
[http://2010.census.gov/2010census/pdf/cqr\\_gu\\_status\\_rpt\\_5-17-12.pdf](http://2010.census.gov/2010census/pdf/cqr_gu_status_rpt_5-17-12.pdf)

- <http://www.census.gov/geo/ZCTA/zcta.html>



# Count Question Resolution

- If a challenge results in a change:
  - Census Bureau issues official revised counts to affected governments
  - Changes can be used for future programs requiring Census data
  - Changes will be used to calculate subsequent population estimates
  
- Coronado/San Diego change
  - Misallocation of military personnel on naval vessels
  - Identified after publication of final 2010 counts but before CQR program started

• <http://www.census.gov/geo/ZCTA/zcta.html>



# Count Question Resolution

## NOTE: Change to the California 2010 P.L. 94-171 Summary File data as delivered

A misallocation of a small number of military personnel aboard naval vessels was discovered in our 2010 Census P.L. 94-171 Redistricting Summary Files. The Census Bureau determined that this misallocation was the result of a geocoding error. Such discrepancies can occur when a living quarter, such as a house, apartment or military vessel, is placed in an incorrect location. A thorough review of all ports followed. We discovered a systematic error in the manner in which a few military vessels had been geocoded, including an error involving Coronado and San Diego, California.

We determined that 5,785 persons located in 2010 tabulation block 06073 0113.00 1029 should have been assigned to tabulation block 06073 0113.00 1000, in Coronado, rather than in San Diego. The Census Bureau has provided new population counts that enable data users to have redistricting data free of this inadvertent error for the two blocks. We conveyed this updated block information to the affected jurisdictions, the California Citizens Redistricting Commission, and to the California State Legislature. We also posted this errata notice on our Redistricting Data Program website and to the American FactFinder, the 2010 Census dissemination Web site.

The new total for Coronado and San Diego will be available on the redistricting data office website at [www.census.gov/rdo/data](http://www.census.gov/rdo/data). Data users on our American FactFinder who are looking for population figures for Coronado and San Diego will be pointed to the changes located on the redistricting data page.



# Count Question Resolution

## CORONADO, CA ERRATA

	Corrected Block 06073 0113.00 1029	Corrected Block 06073 0113.00 1000	Original (PL) Block 06073 0113.00 1029	Original (PL) Block 06073 0113.00 1000
<b>RACE</b>				
Universe: Total population				
Total	0	5785	5785	0
White alone	0	3406	3406	0
Black or African American alone	0	1279	1279	0
American Indian and Alaska Native alone	0	98	98	0
Asian alone	0	353	353	0
Native Hawaiian and Other Pacific Islander alone	0	46	46	0
Some Other Race alone	0	305	305	0
Population of Two or More Races	0	298	298	0
<b>HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO</b>				
Universe: Total population				
Total	0	5785	5785	0
Hispanic or Latino	0	1052	1052	0
Not Hispanic or Latino	0	4733	4733	0
<b>RACE FOR THE POPULATION 18 YEARS AND OVER</b>				
Universe: Total population 18 years and over				
Total	0	5785	5785	0
White alone	0	3406	3406	0
Black or African American alone	0	1279	1279	0
American Indian and Alaska Native alone	0	98	98	0
Asian alone	0	353	353	0
Native Hawaiian and Other Pacific Islander alone	0	46	46	0
Some Other Race alone	0	305	305	0
Population of Two or More Races	0	298	298	0
<b>HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO FOR THE POPULATION 18 YEARS AND OVER</b>				
Universe: Total population 18 years and over				
Total	0	5785	5785	0
Hispanic or Latino	0	1052	1052	0
Not Hispanic or Latino	0	4733	4733	0
<b>OCCUPANCY STATUS</b>				
Universe: Housing units				
Total	0	0	0	0
Occupied	0	0	0	0
Vacant	0	0	0	0

