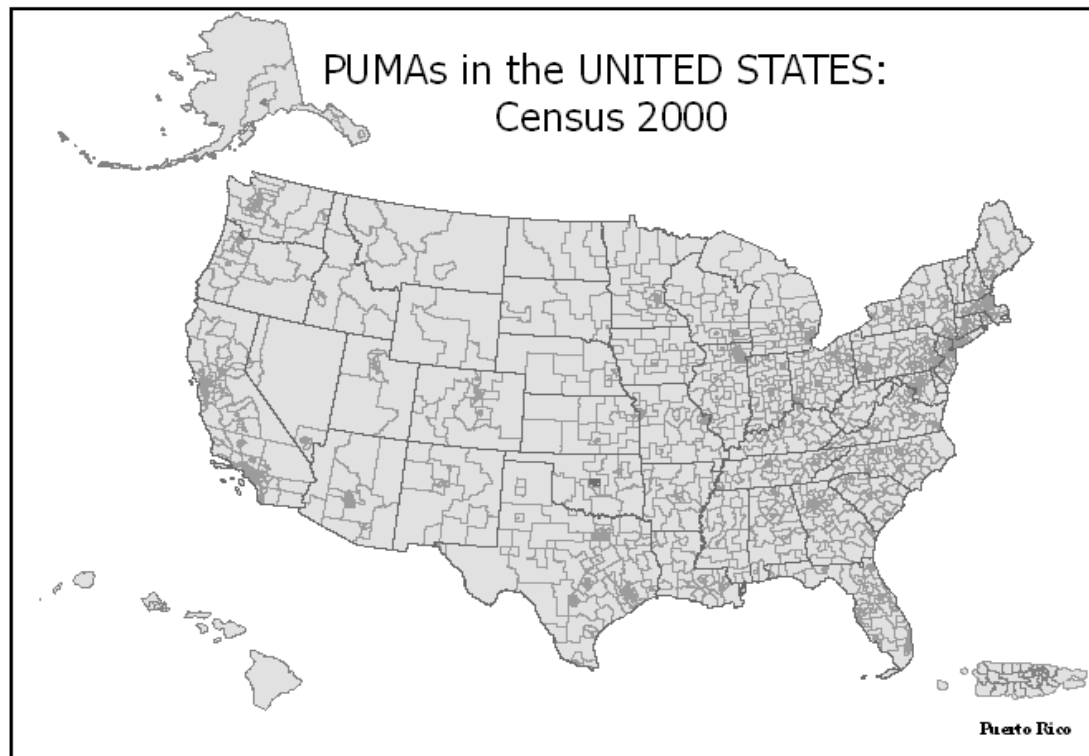


2010 Public Use Microdata Areas (PUMAs)

2010 PUMA Delineation - MTPS Training Webinar

Introduction on 2010 PUMA Criteria and Guidelines



State maps of Census 2000 PUMAs can be found at:
http://www.census.gov/geo/www/maps/CP_MapProducts.htm

Visit the 2010 PUMA website at:

<http://www.census.gov/geo/puma/puma2010.html>

- Overview of 2010 PUMAs
- Details on 2010 PUMAs
 - Criteria and Guidelines
 - Changes from Census 2000
- 2010 PUMA Delineation
 - Program schedule
 - PUMA delineation materials (user guidelines, PUMA MTPS, participant shapefiles)
 - Fast Facts
- Reference Information
 - History of PUMAs
 - Microdata
 - PUMS
 - SDC Steering Committee Meeting presentation

Overview of webinar

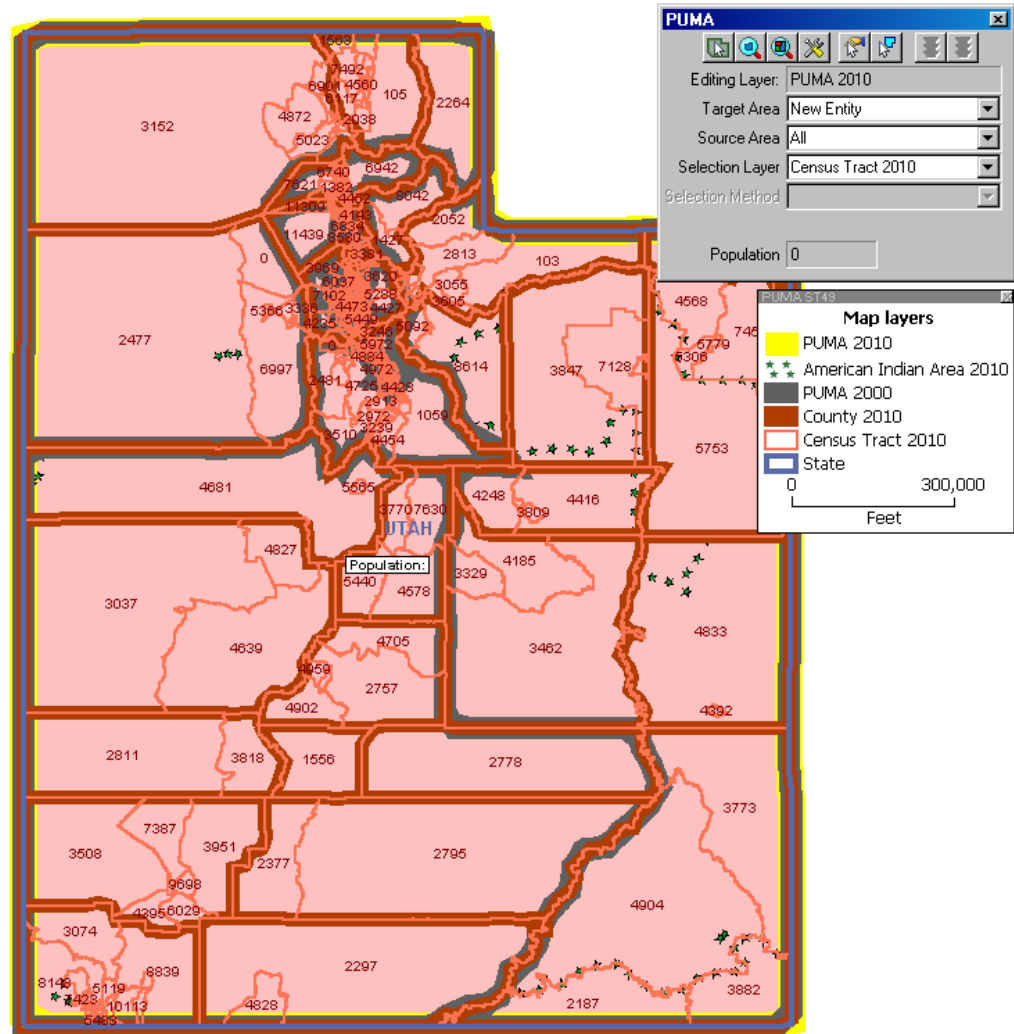
- Why we define 2010 PUMA geography
- Method used in the delineation
- 2010 PUMA delineation schedule
- Refresher on
 - 2010 PUMA Criteria
 - 2010 PUMA Guidelines
- Additional information pertaining to 2010 PUMA delineation
- Detailed training session on PUMA MTPS

Why run the 2010 PUMA delineation program?

- PUMAs are statistical geographic areas that are defined for the tabulation and dissemination of decennial census and American Community Survey (ACS) Public Use Microdata Sample (PUMS) data.
 - <http://www.census.gov/geo/puma/puma2010.html>
- Also used in the publication of ACS period estimates

Delineating 2010 PUMAs

- 2010 PUMA MAF/TIGER Partnership Software (MTPS)
- State Data Centers (SDCs) will define PUMAs in cooperation with state, regional, local, and tribal organizations and agencies
- SDCs may delegate areas to more than one staff member within their office, or to more than one organization within the state
 - Must ensure that assigned areas do not overlap



2010 PUMA Delineation 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- Early January 2012	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.

<http://www.census.gov/geo/puma/schedule.html>

2010 PUMA Delineation Criteria

- A. One level of PUMAs will be delineated for the 2010 Census
- B. Each PUMA must contain a minimum population of 100,000 at the time of delineation and throughout the decade
- C. PUMAs may not cross state boundaries

The screenshot shows a GIS application window titled 'PUMA'. The main map area displays a geographic region with various colored overlays representing different features. A dialog box titled 'PUMA' is open, showing the following settings:

- Editing Layer: PUMA 2010
- Target Area: New Entity
- Source Area: All
- Selection Layer: Census Tract 2010
- Selection Method: [Dropdown]
- Population: 20832 (circled in red)

Below the dialog box, a 'Map layers' legend is visible, listing the following layers:

- PUMA 2010 (Yellow)
- Area Landmark (Hatched)
- River, Lake, or Ocean (Blue)
- American Indian Area 2010 (Green stars)
- Incorporated Place (Grey)
- PUMA 2000 (Brown)
- County 2010 (Dark Blue)
- Census County Division (Light Blue)
- Census Tract 2010 (Red)
- State (Dark Blue)

Below the legend, a scale bar indicates 0 to 100,000 Feet.

A 'Note' window at the bottom of the screen displays the following message:

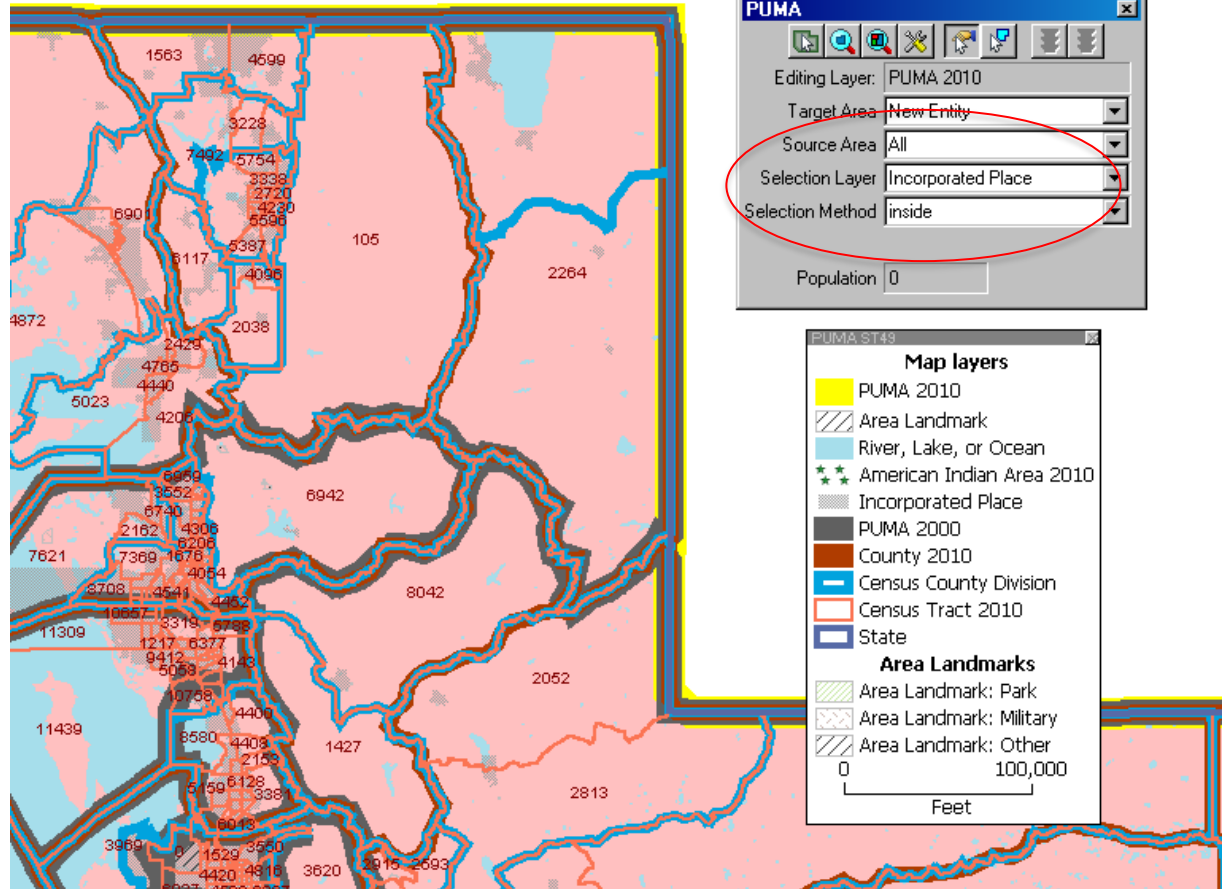
The current population of 20,832 falls below the required minimum population threshold of 100,000 for PUMAs. Please update the PUMA to have a population of at least 100,000.

OK

2010 PUMA Delineation Criteria

D. Counties (equivalent entities) and census tracts will be the 'building block' geographies for 2010 PUMAs

-The MTPS allows the user to build PUMAs by aggregating individual 2010 tracts, or by easily selecting all tracts within a 2010 county



2010 PUMA Delineation Criteria

E. Each PUMA must constitute a geographically contiguous area

-The exception would be if a 2010 tract or county used to build the PUMA contains valid noncontiguous geography

The screenshot displays the ArcGIS interface for PUMA delineation. The main map shows a geographic area with various colored regions and boundaries. Overlaid on the map are three windows:

- PUMA**: A configuration window with the following settings:
 - Editing Layer: PUMA 2010
 - Target Area: New Entity
 - Source Area: All
 - Selection Layer: Census Tract 2010
 - Selection Method: (dropdown menu)
 - Population: 0
- Verify PUMAs**: A verification window with the following settings:
 - Verification Type: Required: Minimum Population, Required: Contiguity, Required: County-Part Minimums
 - Review: Maximum Population, Review: Compactness
 - Buttons: Verify, (help icon)
- Note**: A message box stating "There are no features that fail the contiguity verification." with an OK button.
- Map layers**: A legend window showing the following layers:
 - PUMA 2010 (yellow)
 - Area Landmark (hatched)
 - River, Lake, or Ocean (blue)
 - American Indian Area 2010 (green stars)
 - Incorporated Place (grey)
 - PUMA 2000 (dark grey)
 - County 2010 (orange)
 - Census County Division (light blue)
 - Census Tract 2010 (red)
 - State (dark blue)
 - Area Landmarks:
 - Area Landmark: Park (hatched)
 - Area Landmark: Military (hatched)
 - Area Landmark: Other (hatched)

2010 PUMA Delineation Criteria

- F. Place-of-Work (POW) PUMAs and/or Migration (MIG) PUMAs are larger aggregates of standard PUMAs and can consist of a single PUMA for county-based PUMAs, or a combination of adjacent tract-based PUMAs
- POW and MIG PUMAs are not interactively defined by the SDCs during the PUMA delineation, rather, they are created based on their building block geography to report the POW and MIG PUMS data

2010 PUMA Guidelines

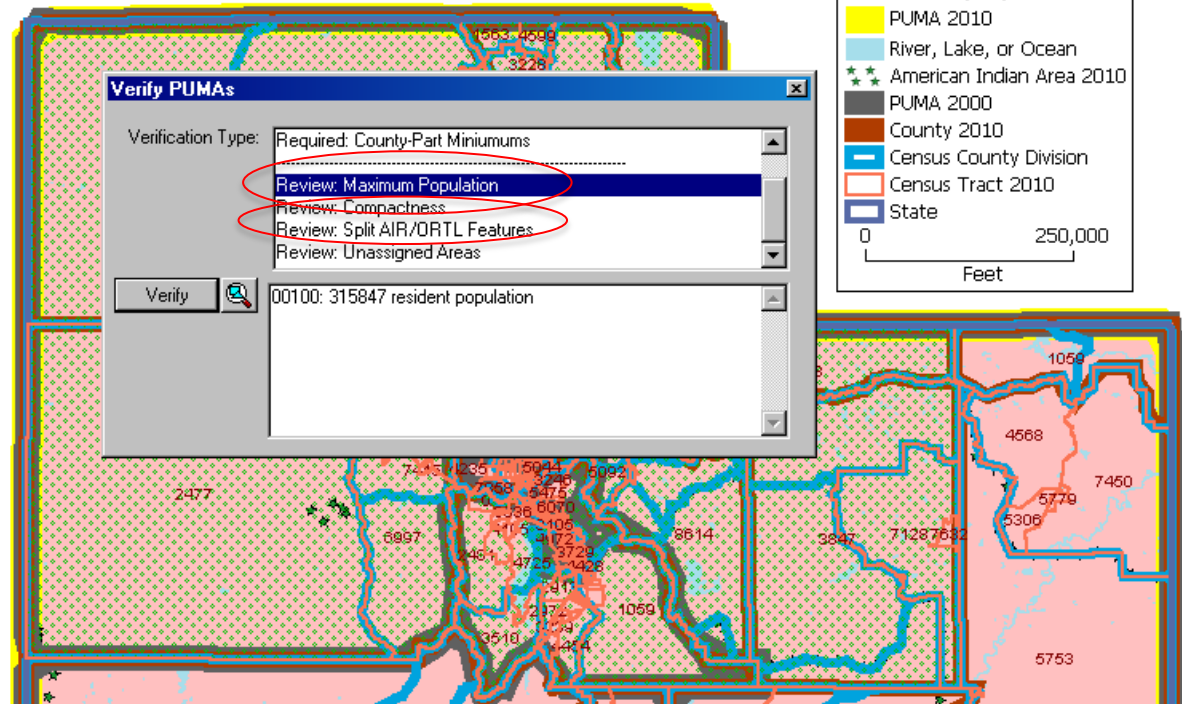
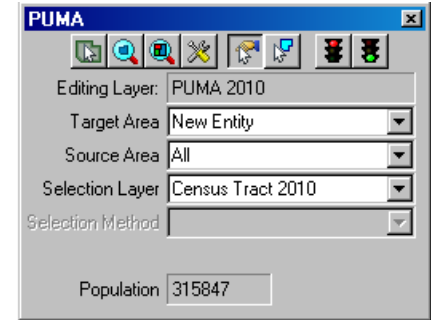
- A. The Census Bureau recommends that 2010 place definitions, 2000 urban/rural definitions, and local knowledge inform PUMA delineations
- B. Wherever possible, each PUMA should comprise an area that is either entirely inside or entirely outside metropolitan or micropolitan statistical areas

NOTE: The Partnership Shapefile data that will be downloaded for use in the MTPS contain 2010 places (inc. places and CDPs), 2000 Urban Areas and the 2007 update of metro/micropolitan areas, and they can be displayed and used for visual reference and/or to select tracts within the geography

2010 PUMA Guidelines

C. The number of standard PUMAs should be maximized and PUMAs should not contain more than 200,000 persons, wherever possible, unless the PUMA is defined for an area in which population decline is anticipated

D. PUMAs should avoid unnecessarily splitting American Indian reservations (AIRs) and/or off-reservation trust lands (ORTLs), separating American Indian populations



Additional Information

- Assigning PUMA codes to 2010 PUMA Delineation
 - If the geographic extent of a proposed 2010 PUMA is primarily unchanged from Census 2000, the Census Bureau will attempt to retain the same code as was used for Census 2000
 - SDCs should indicate their preferences to retain codes for specific PUMAs
- Adding PUMA names to 2010 PUMA Delineation
 - A PUMA may not have the same name as another PUMA within the state

The screenshot displays a GIS interface with a map of a region. A dialog box titled "PUMA 2010 Attributes" is open, showing the following information:

PUMA 2010 Attributes

2010 Guidelines for Assigning Codes to PUMAs:

1. Each PUMA code must consist of a 5-digit numeric code that is unique within the state.
2. A group of PUMAs that nest within a county must be identified with codes that contain the same first three digits (i.e., 00101, 00102, 00103 and 00104).
3. For each PUMA that consists of either an entire county or a group of counties, assign a PUMA code that has '00' for the fourth and fifth characters of the PUMA code (i.e., 00100).
4. Assign the PUMA codes sequentially, beginning with 00100, 00200, 00300, and so forth. Use a geographic sequence, beginning with the PUMA located in the northwest corner of the state. Then proceed west to east, then east to west, in a serpentine fashion.

Identification

Population: 162526 Code: 00100

Name: Northwest

OK Cancel

Another dialog box titled "PUMA" is also visible, showing the following information:

PUMA

Editing Layer: PUMA 2010

Target Area: New Entity

Source Area: All

Selection Layer: Census Tract 2010

Selection Method: [Dropdown]

Population: 162526

A legend titled "Map layers" is also visible, showing the following layers:

- PUMA 2010
- River, Lake, or Ocean
- ★ American Indian Area 2010
- PUMA 2000
- County 2010
- Census County Division
- Census Tract 2010
- State

A scale bar indicates 0 to 200,000 Feet.

Questions?

Please send an email to the PUMA group at:
geo.puma@census.gov

Or call us at:
301.763.3056
Or
301.763.1099