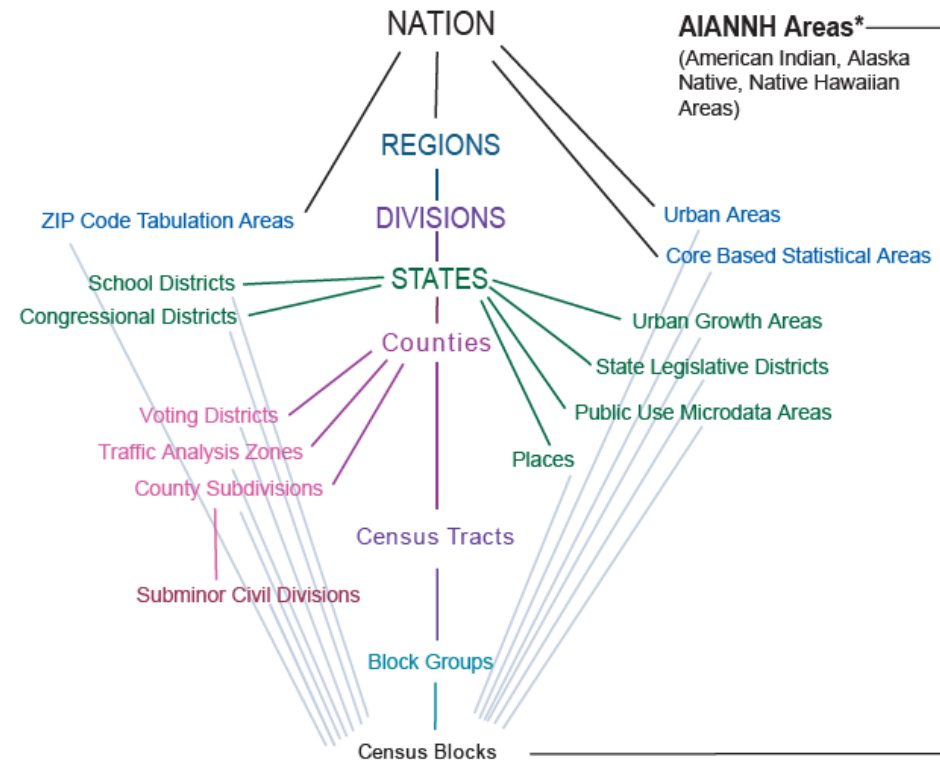


The Participant Statistical Areas Program

Overview of Census Geography

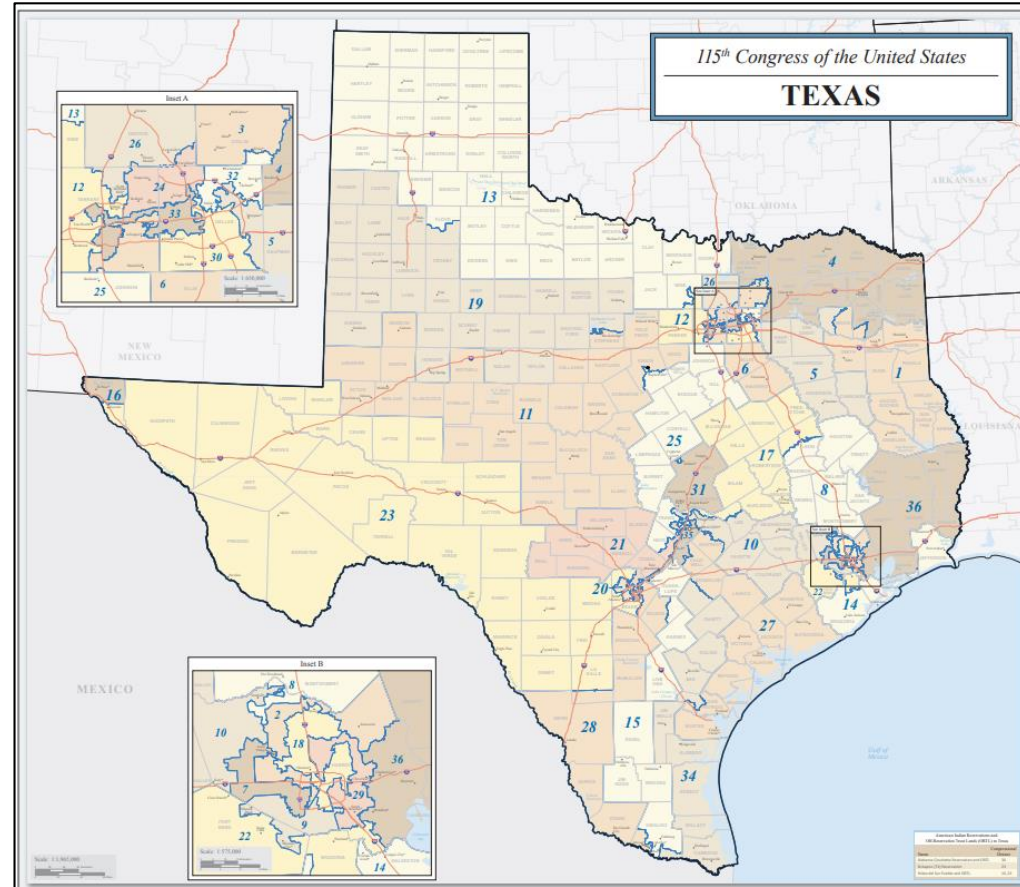
Two main types:

- Political
- Statistical



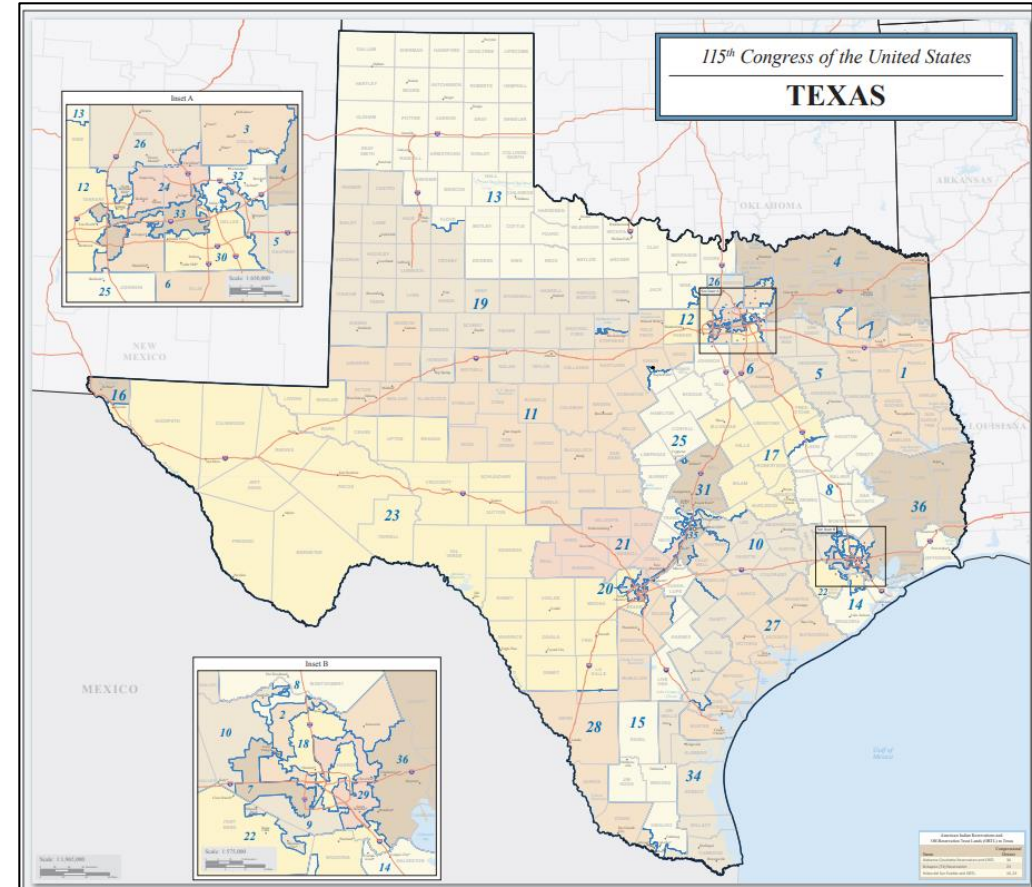
Examples of Political Geography

- State
- County
- Place
- Congressional District
- School District
- Voting District



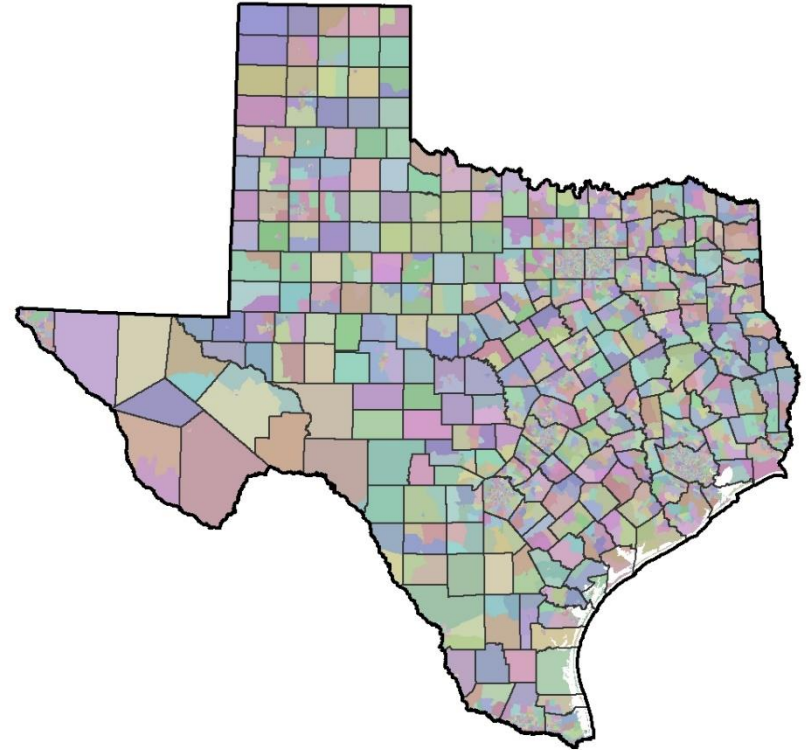
Basics of Political Geography

- Have a Highest Elected Official.
- Boundaries change at the will of the governing body.
- New geographies can be formed by a new incorporation.



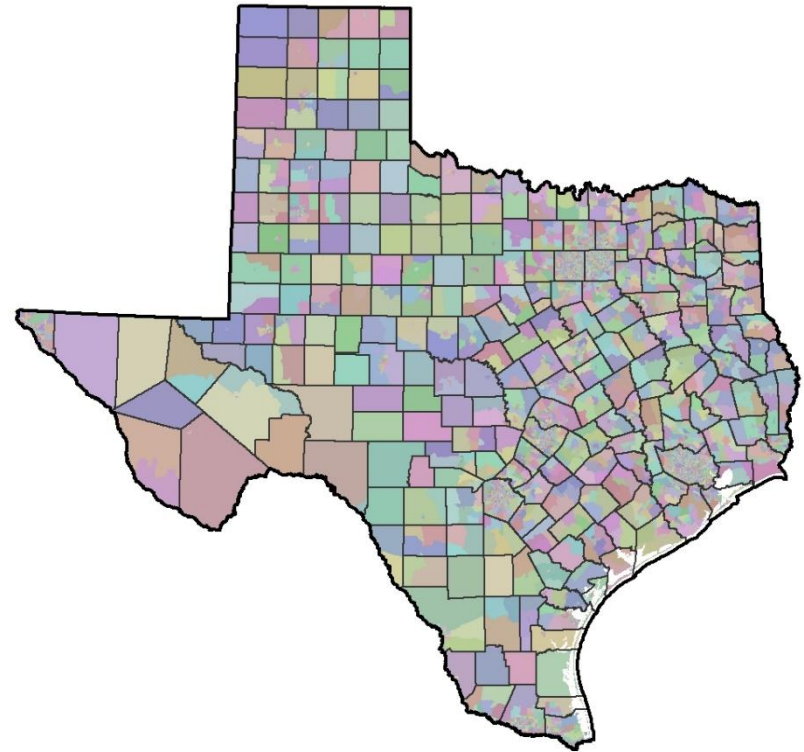
Examples of Statistical Geography

- State
- County
- Census Tract
- Census Block Group
- Census Block
- Census Designated Places (CDPs)

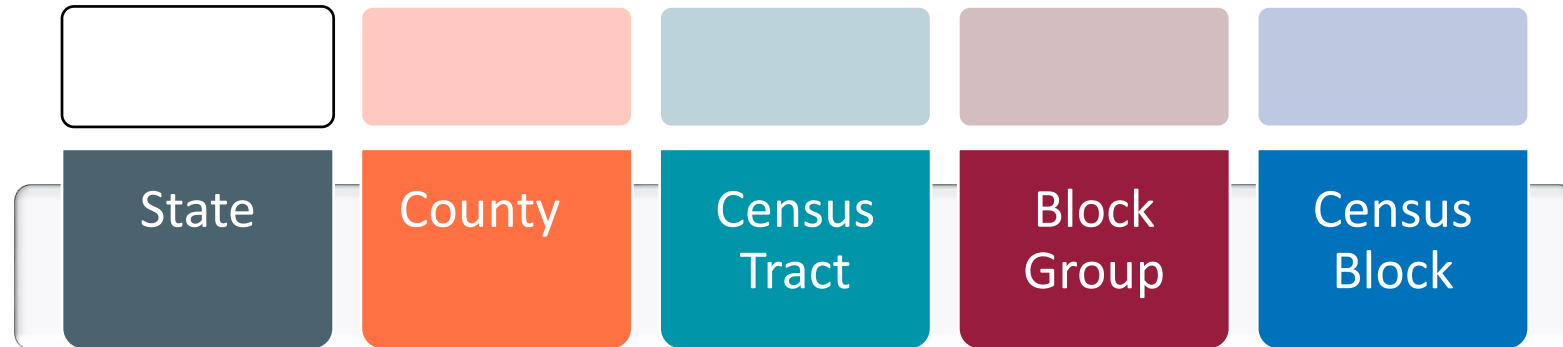


Basics of Statistical Geography

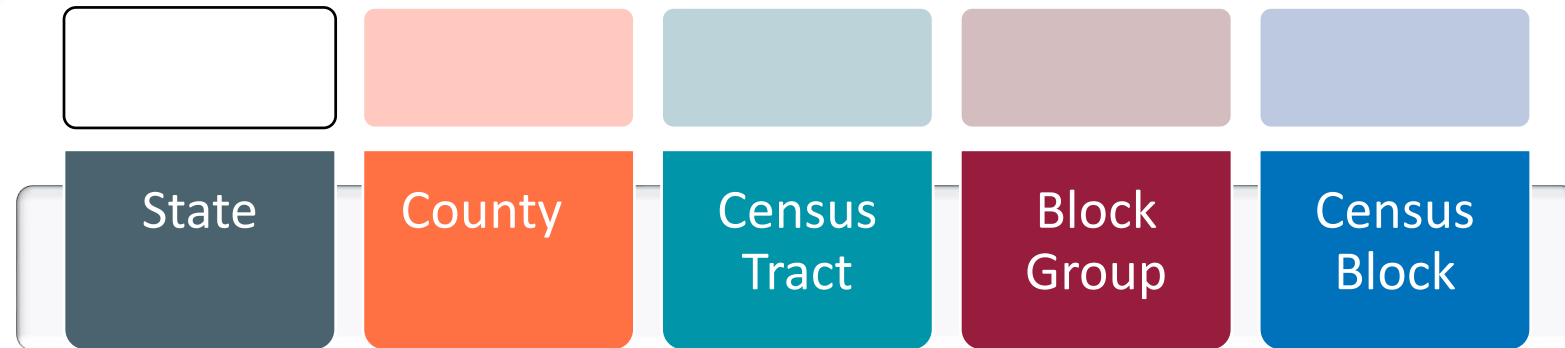
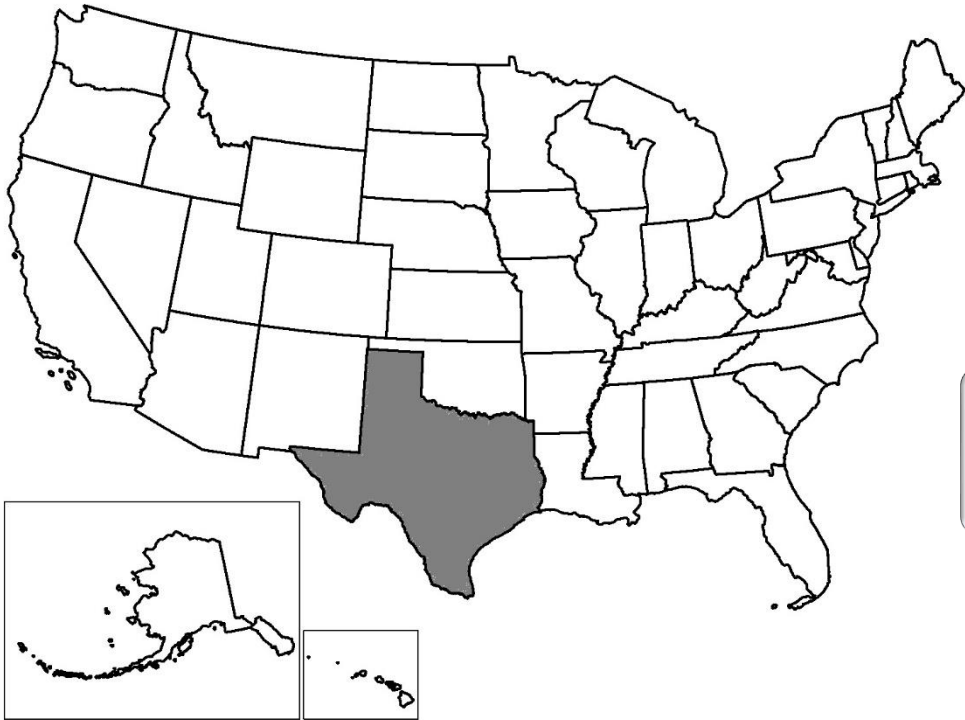
- The United States is covered in its entirety by unique statistical geography.
- There are no gaps and no overlaps.
- The U.S. Census Bureau is the geographical data steward for the U.S. Government.



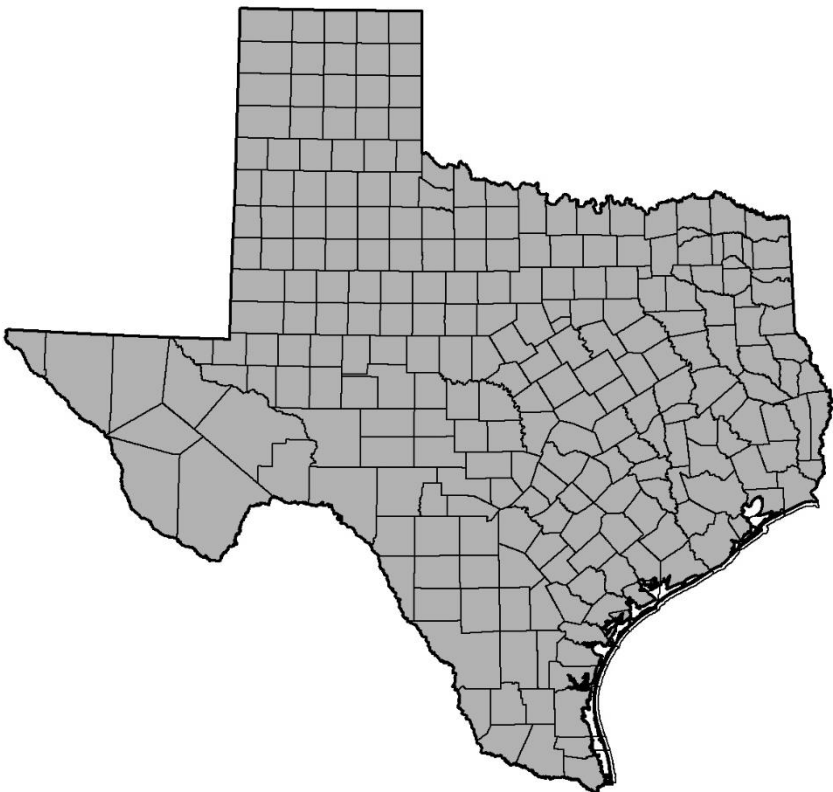
Country



State within the Country



State



48

State

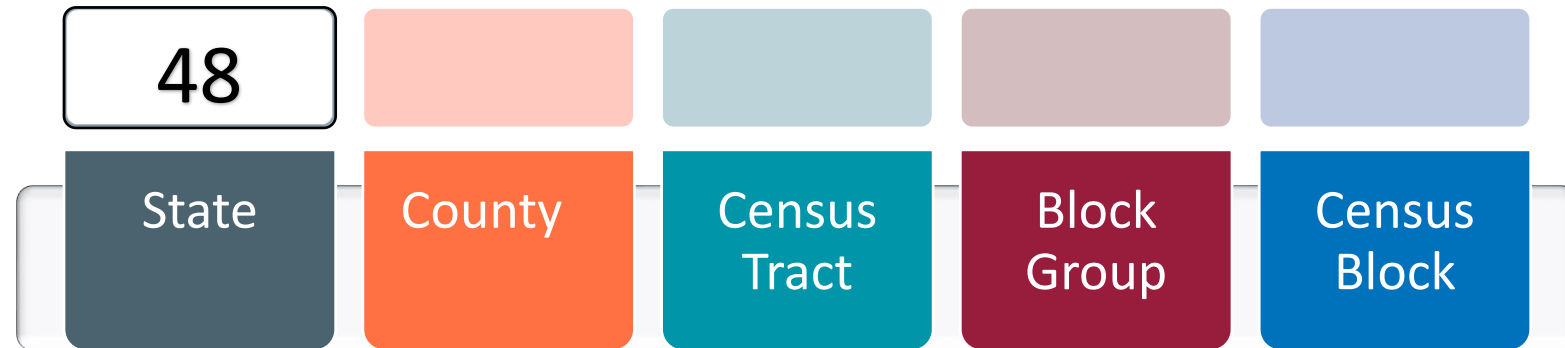
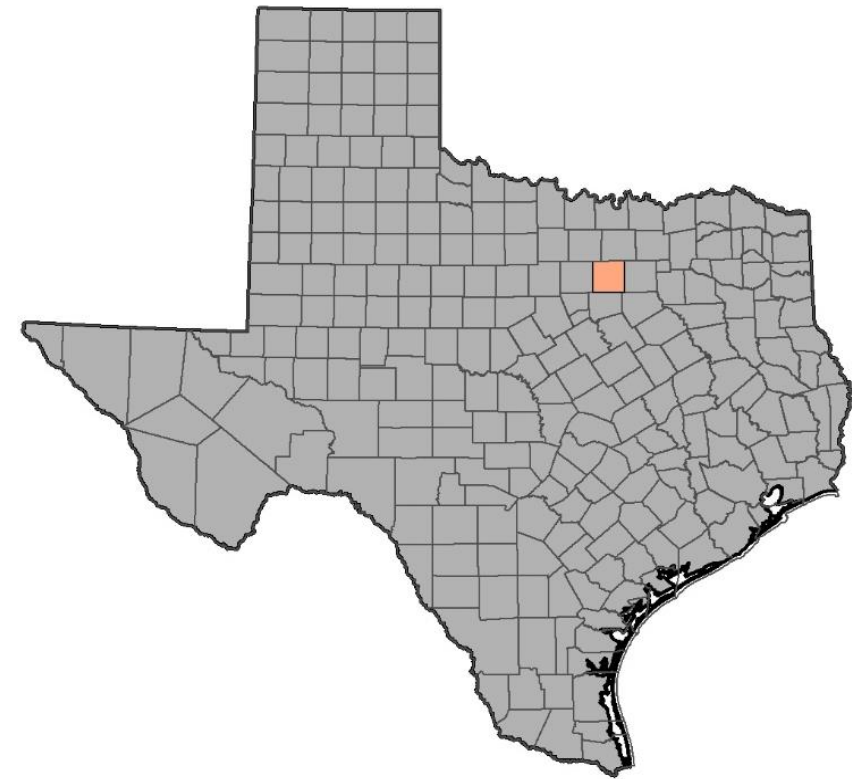
County

Census
Tract

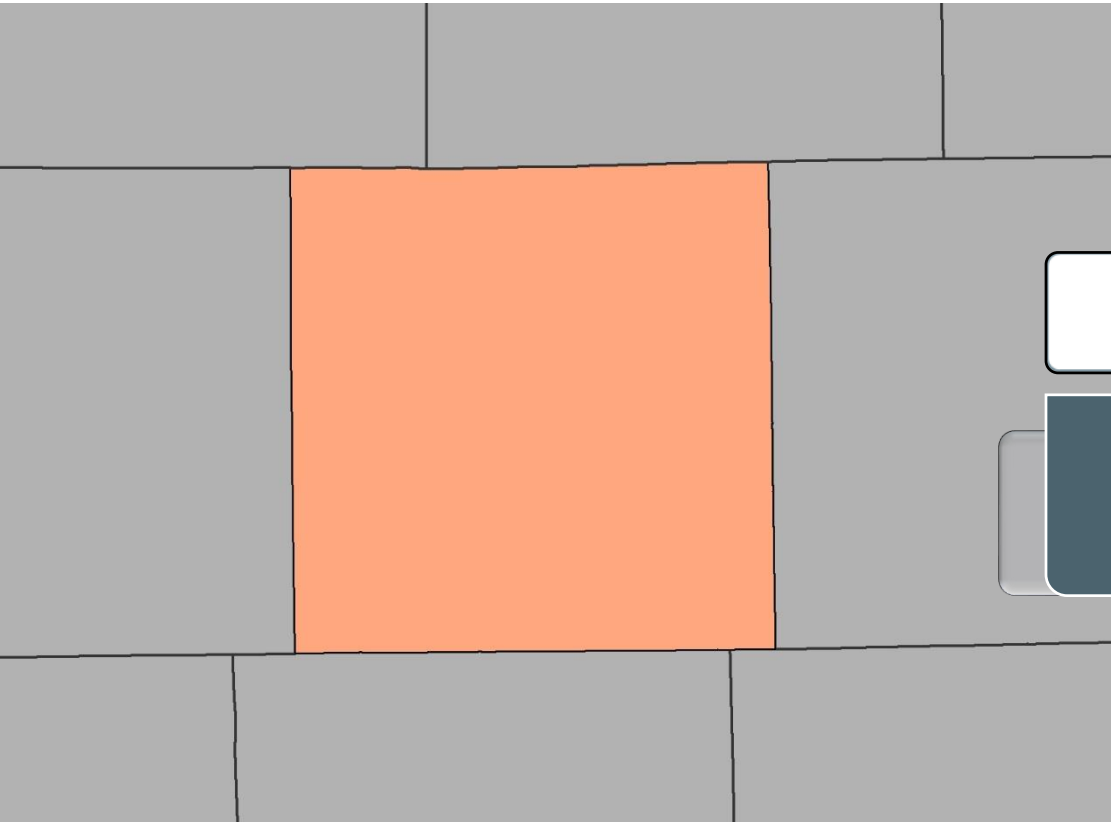
Block
Group

Census
Block

County within the State



County



48

439

State

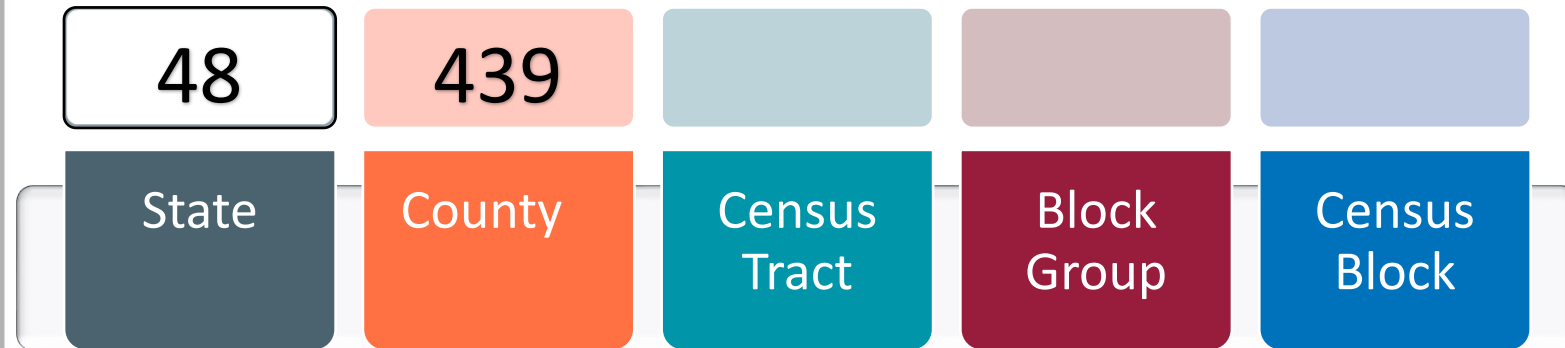
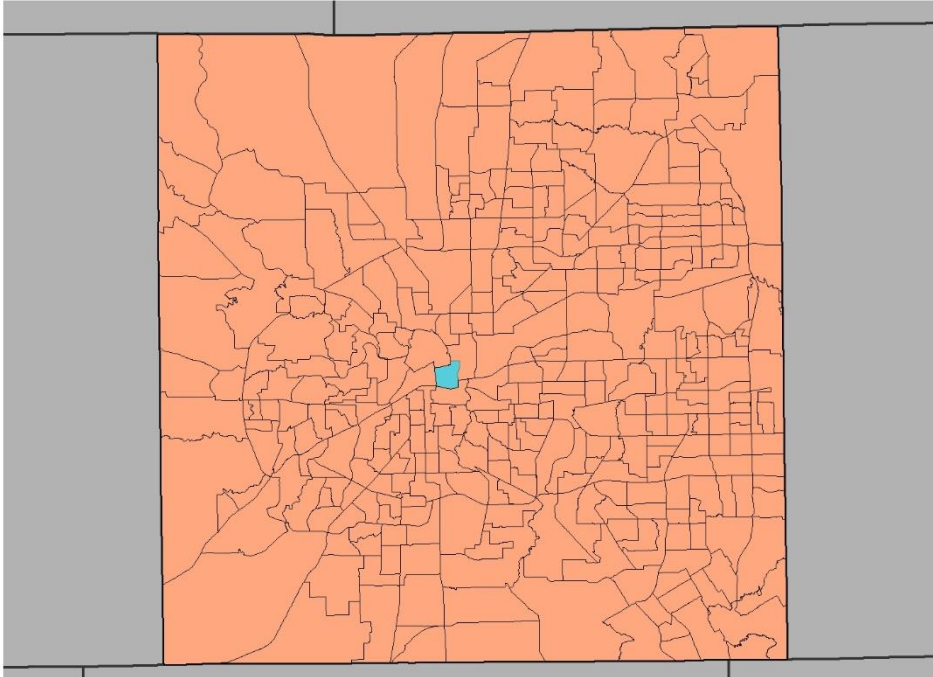
County

Census
Tract

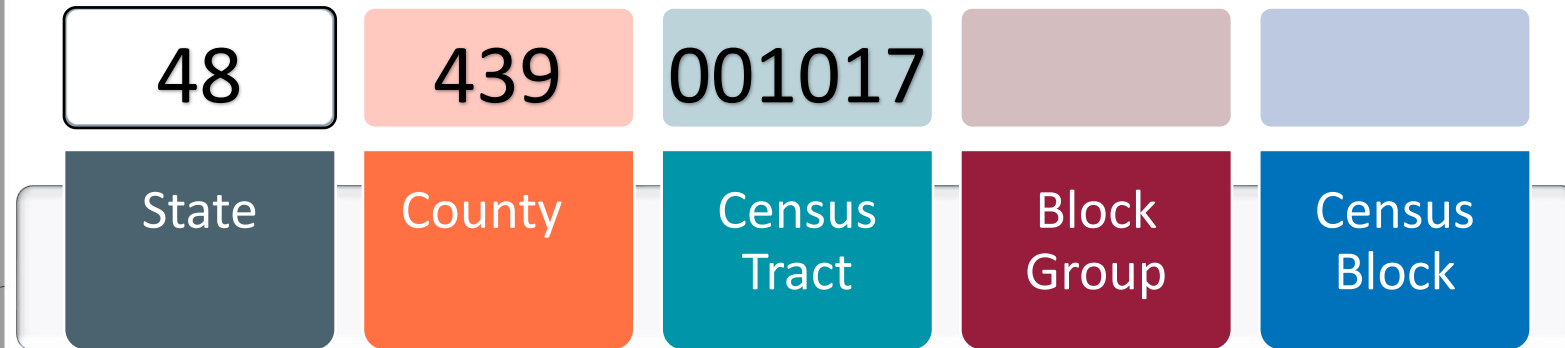
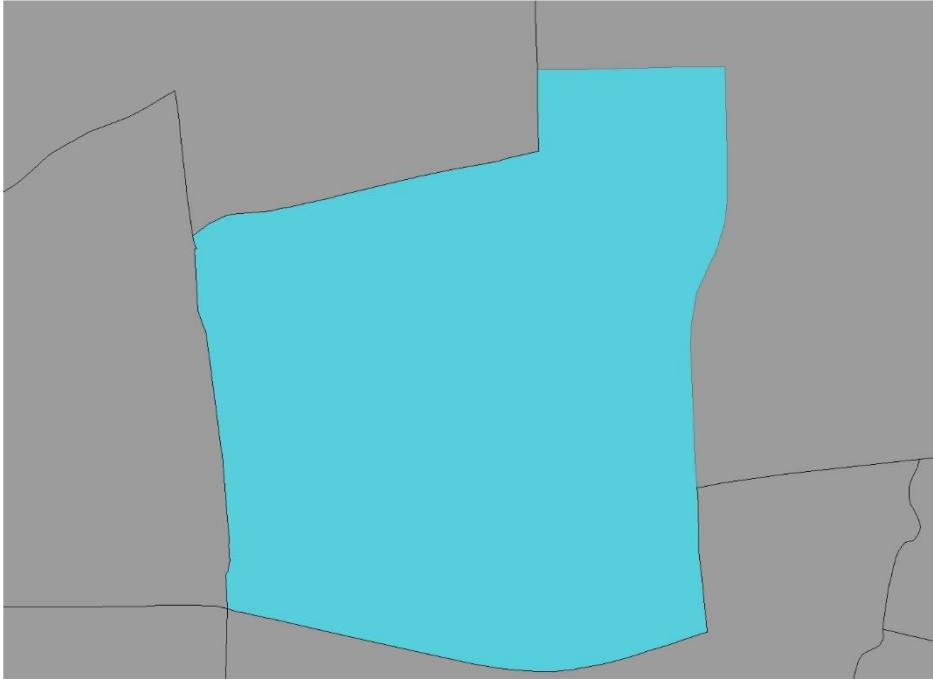
Block
Group

Census
Block

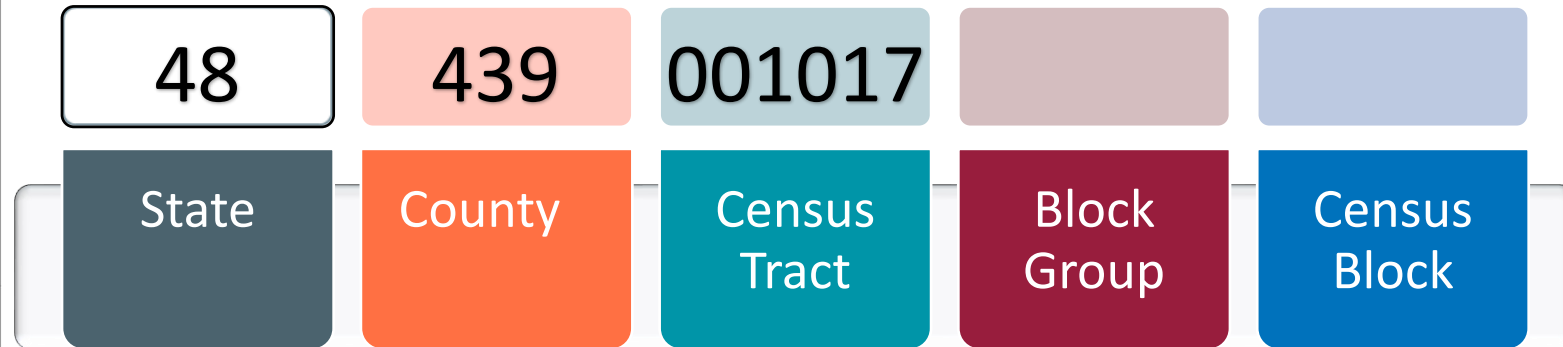
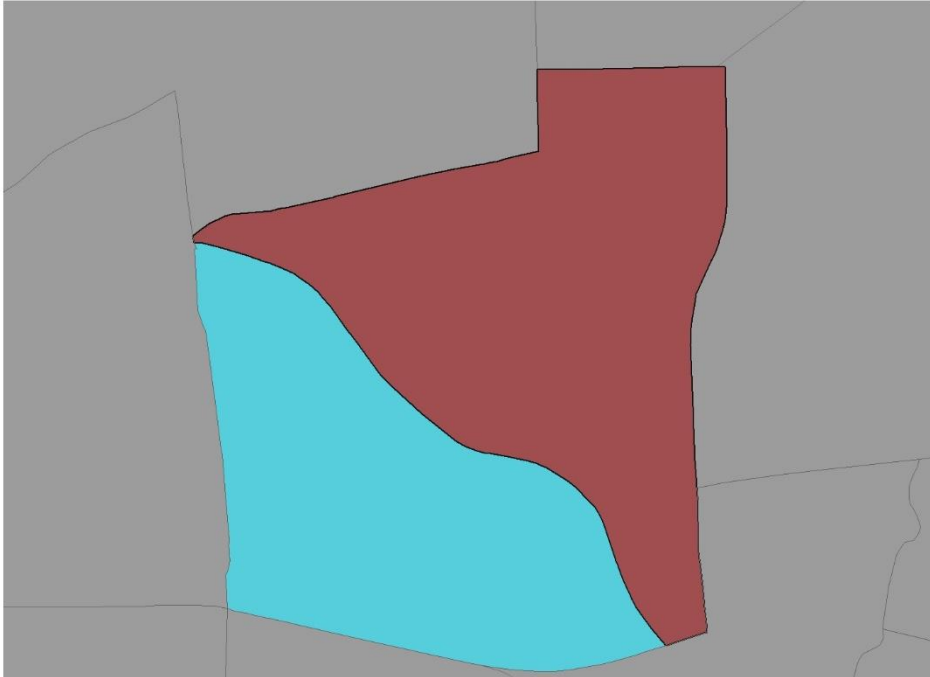
Census Tract within the County



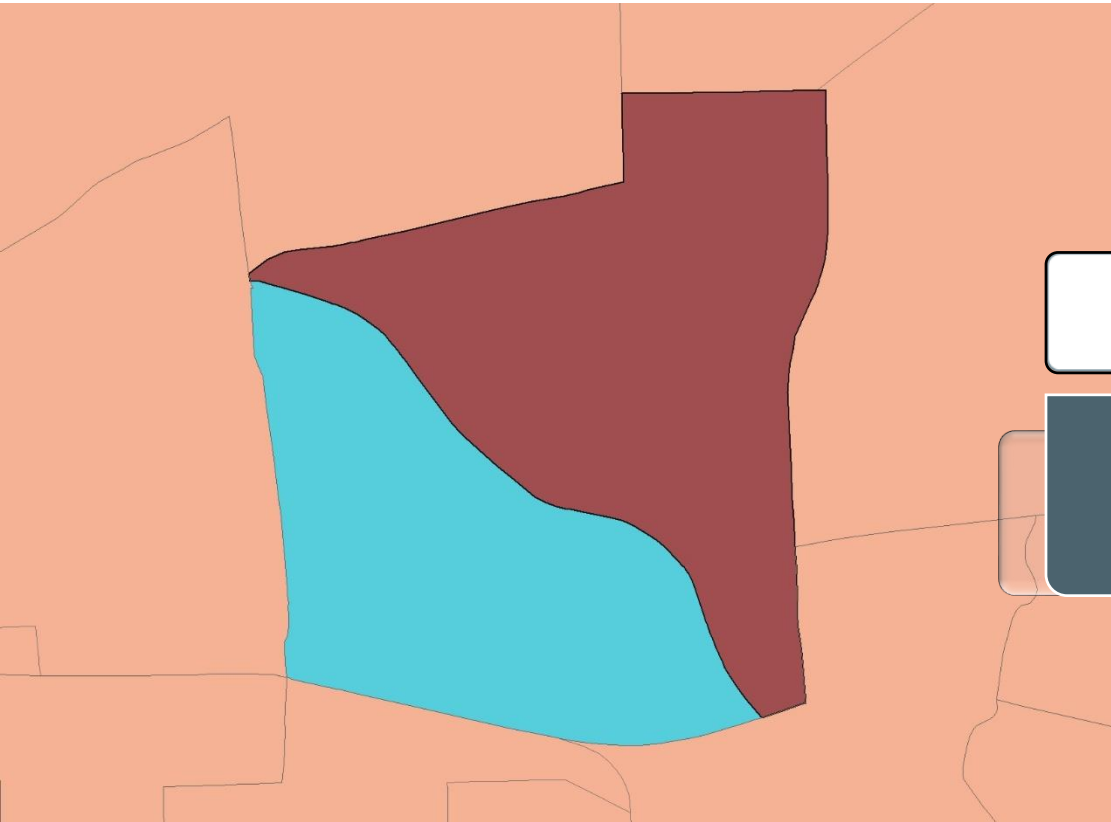
Census Tract



Block Group within the Census Tract



Block Group



48

State

439

County

001017

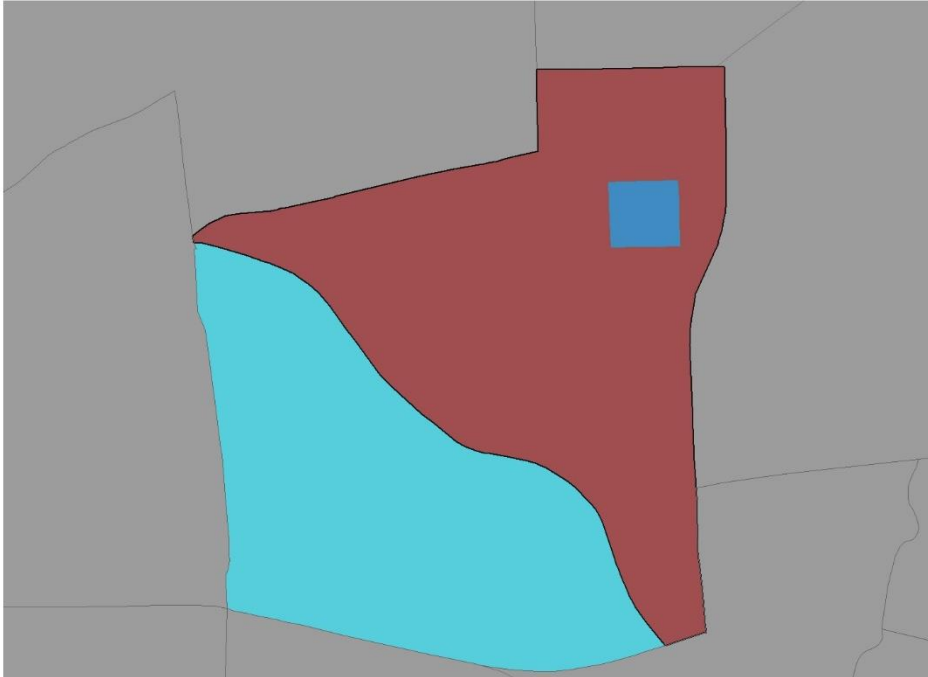
Census
Tract

2

Block
Group

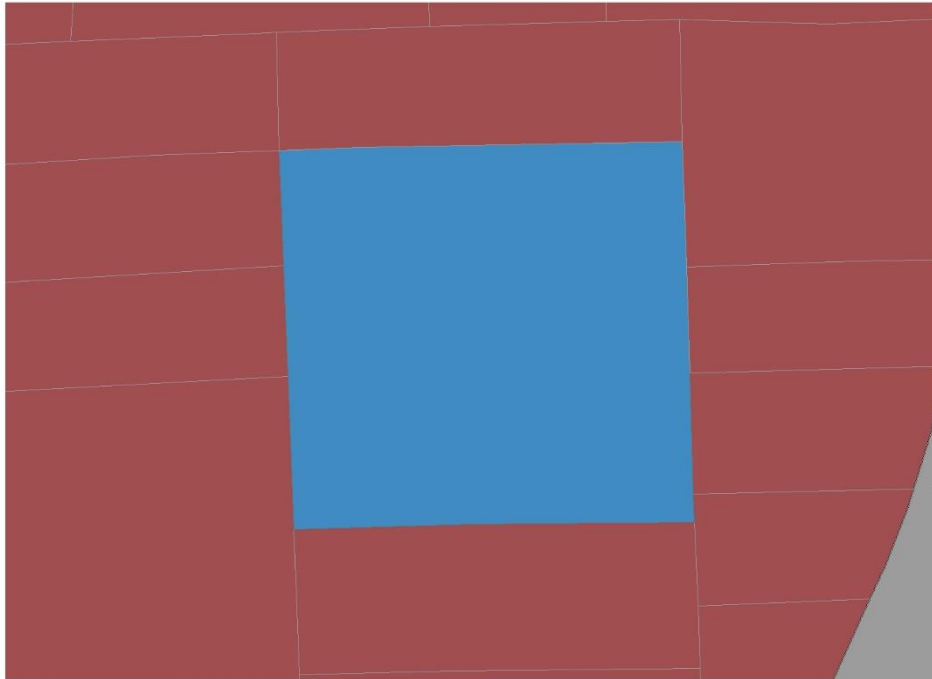
Census
Block

Census Block within the Block Group



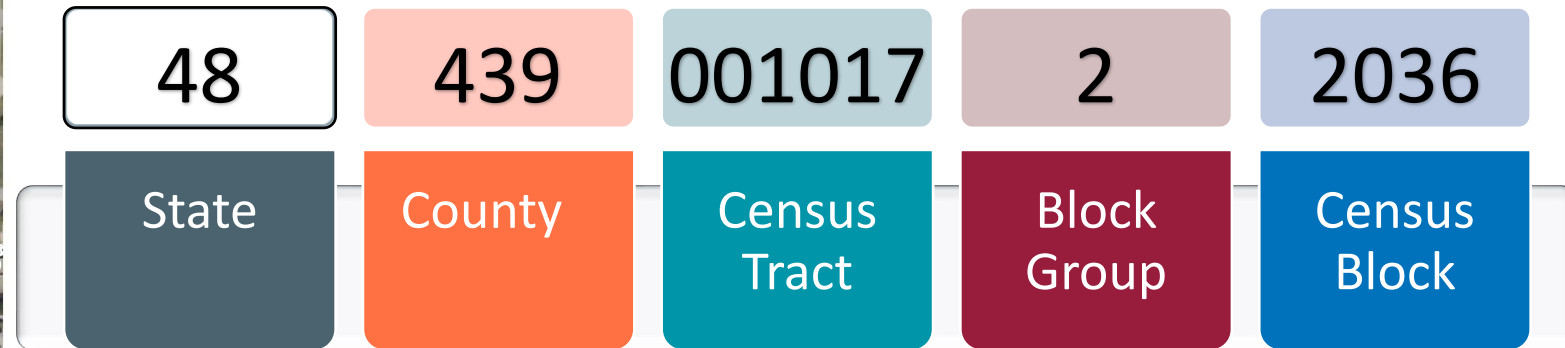
| | | | | |
|-------|--------|--------------|-------------|--------------|
| 48 | 439 | 001017 | 2 | |
| State | County | Census Tract | Block Group | Census Block |

Census Block



| | | | | |
|-------|--------|--------------|-------------|--------------|
| 48 | 439 | 001017 | 2 | 2036 |
| State | County | Census Tract | Block Group | Census Block |

Census Block



What is the 2020 Participant Statistical Areas Program?

- Allows participants to review and update selected statistical area boundaries. These areas include:
 - Census Tracts
 - Census Block Groups
 - Census Designated Places
 - Census County Divisions
- The Census Bureau will use these boundaries to distribute data for:
 - 2020 Census
 - American Community Survey (ACS)
 - Economic Census

Standard Statistical Geographies for PSAP

- Census Tracts.
- Census Block Groups.
- Census Designated Places (CDPs).
- Census County Divisions (CCDs), in selected states.

Lets look at each type...

2020 PSAP Statistical Areas Criteria

Census Designated Places

| Statistical area | Primary purpose | Nationwide wall-to-wall coverage | Geography nests within | 2020 Census population criteria | 2020 Census housing unit criteria |
|--|---|--|------------------------|---|---|
| Census designated places (CDPs) | Place-level statistics for well-known, closely settled named localities that are not part of an incorporated place. Mix of residential and commercial areas. | No, CDPs capture distinct communities. | State | Should have population during at least one entire season (at least 3 consecutive months) of the year. | Should have higher housing unit (or population) density than surrounding area. If less than 10 housing units, Census Bureau will ask for an explanation. |

2020 PSAP Statistical Areas Criteria

Census Tracts

| Statistical area | Primary purpose | Nationwide wall-to-wall coverage | Geography nests within | 2020 Census population criteria | 2020 Census housing unit criteria |
|------------------------------|--|----------------------------------|------------------------|--|--|
| CENSUS TRACTS | | | | | |
| Standard census tract | Boundary continuity. Data comparability. | Yes | County | Optimum: 4,000 Minimum: 1,200 Maximum: 8,000 | Optimum: 1,600 Minimum: 480 Maximum: 3,200 |
| Special use | Distinguish areas of little or no population that have a specific type of land use. Large water bodies. | No | County | Population Threshold = Little/None or must be within the standard census tract threshold. Area Measurement Thresholds: <ul style="list-style-type: none"> ▪ Within Urban Area = 1 sq. mile. ▪ Outside Urban Area = 10 sq. miles. ▪ Inland water body = 100 sq. miles. ▪ Water body not coextensive with a water only census tract = none. | |

2020 PSAP Statistical Areas Criteria

Block Groups

| Statistical area | Primary purpose | Nationwide wall-to-wall coverage | Geography nests within | 2020 Census population criteria | 2020 Census housing unit criteria |
|-----------------------------|---|----------------------------------|------------------------|---|---|
| BLOCK GROUPS | | | | | |
| Standard block group | <p>Form the geographic framework within which census blocks are numbered.</p> <p>Smallest area for which demographic characteristics are produced from the American Community Survey (ACS).</p> | Yes | Census Tract | <p>Minimum: 600</p> <p>Maximum: 3,000</p> | <p>Minimum: 240</p> <p>Maximum: 1,200</p> |

2020 PSAP Statistical Areas Criteria

Census County Divisions

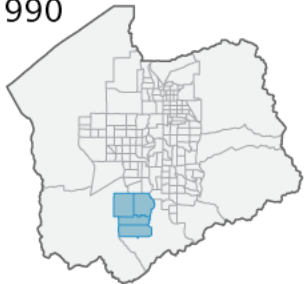
| Statistical area | Primary purpose | Nationwide wall-to-wall coverage | Geography nests within | 2020 Census population criteria | 2020 Census housing unit criteria |
|---------------------------------------|---|--|------------------------|---------------------------------|-----------------------------------|
| Census county divisions (CCDs) | <p>Provide data for sub-county units that have stable boundaries and recognizable names.</p> <p>Usually represents one or more communities, economic centers, or major land uses.</p> | <p>Partial—CCDs and minor civil divisions (MCDs) together provide national coverage.</p> <p>CCDs exist in 21 states.²</p> | County | None | None |

CENSUS TRACTS - 1990

South Jordan, UT Vicinity

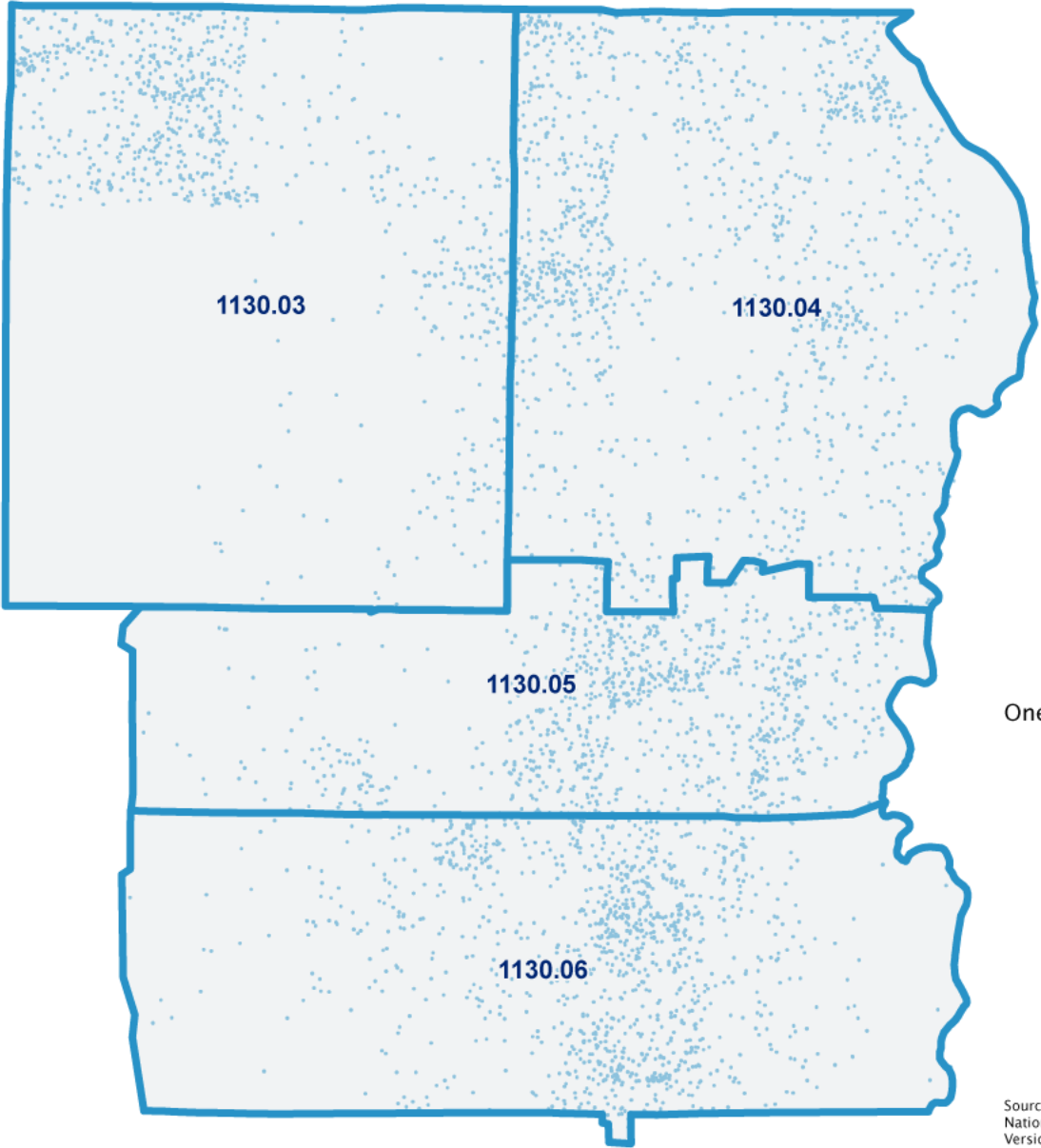
Salt Lake County, Utah

1990



Total Population:
725,956

Number of Tracts:
156



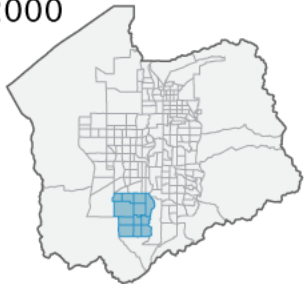
One Dot Represents 10 People

CENSUS TRACTS - 2000

South Jordan, UT Vicinity

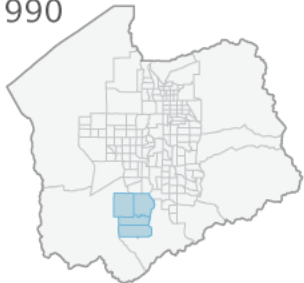
Salt Lake County, Utah

2000

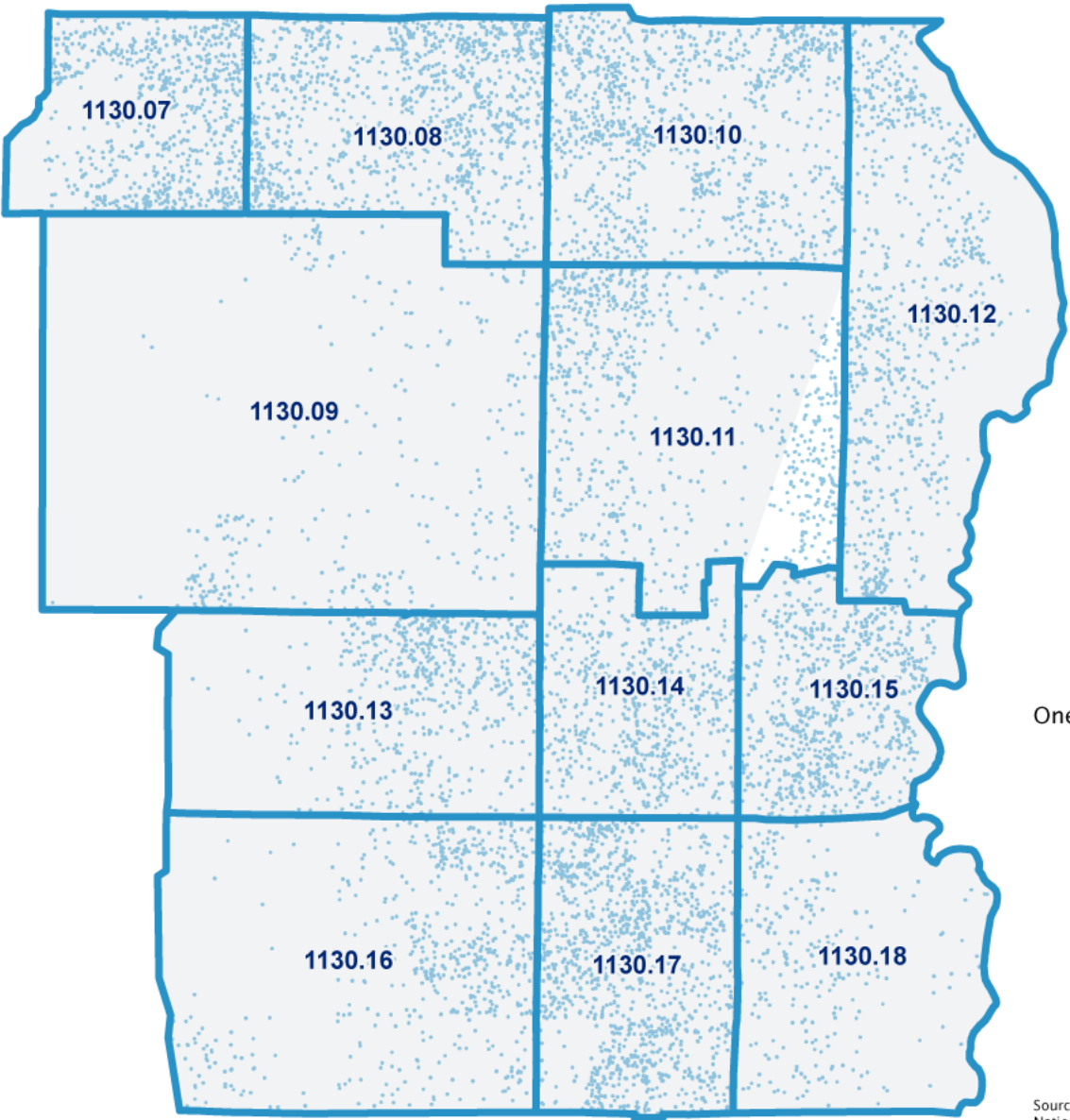


Total Population:
898,387
Number of Tracts:
193

1990



Total Population:
725,956
Number of Tracts:
156



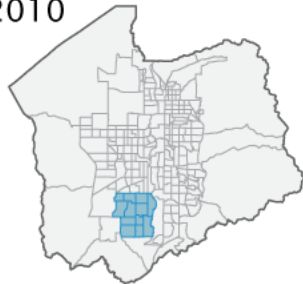
One Dot Represents 10 People

CENSUS TRACTS - 2010

South Jordan, UT Vicinity

Salt Lake County, Utah

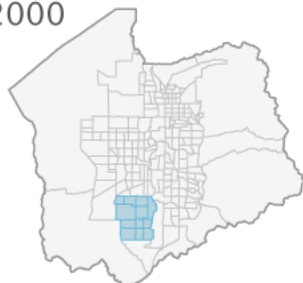
2010



Total Population:
1,029,655

Number of Tracts:
212

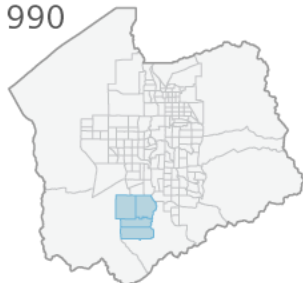
2000



Total Population:
898,387

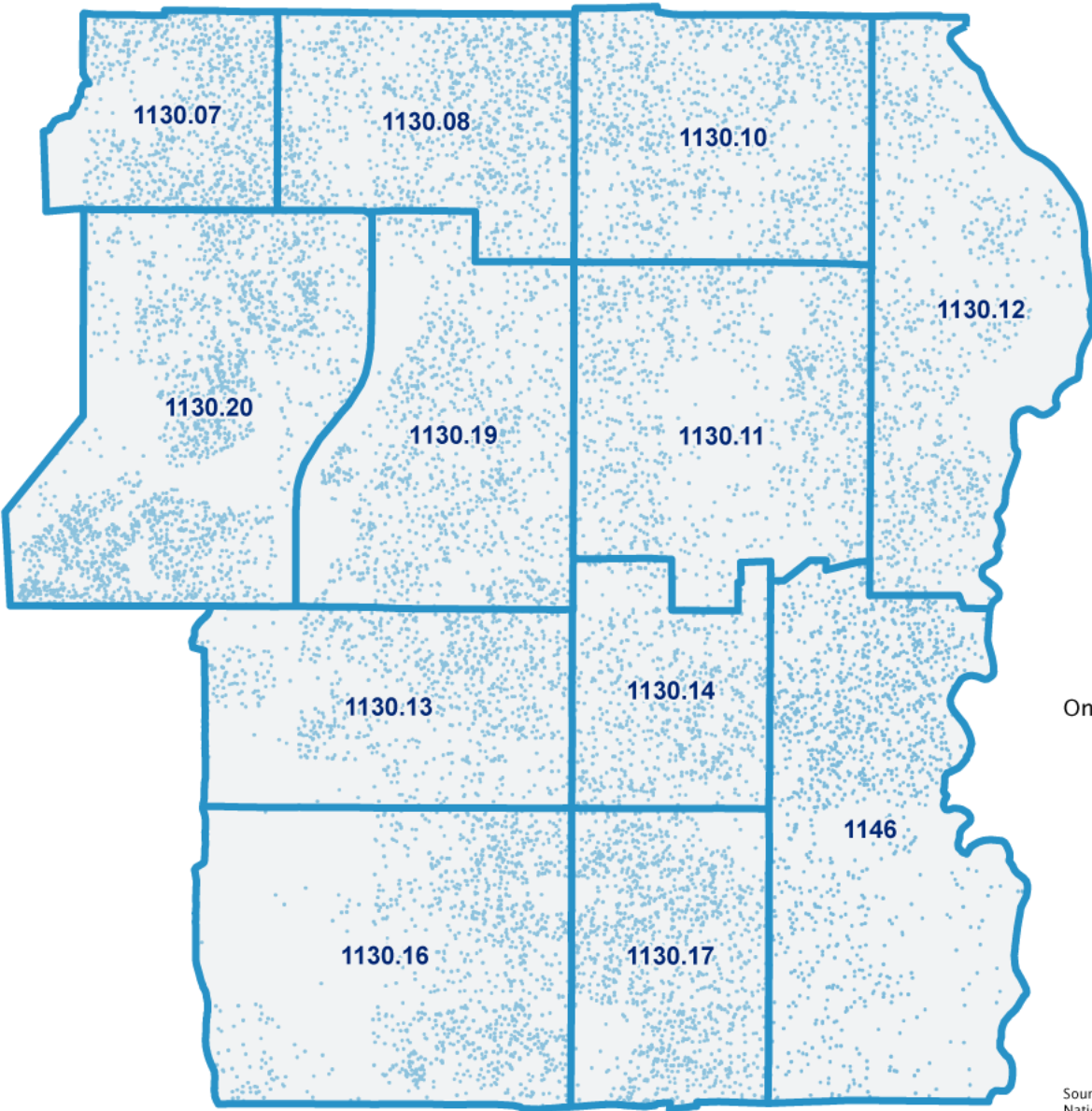
Number of Tracts:
193

1990



Total Population:
725,956

Number of Tracts:
156



One Dot Represents 10 People

How Splits & Merges are Made

- TIGER, the Census Bureau's geographic database, consists of a "flattened" layer of all maintained geographies
- In GIS terms, imagine a union of all census geography – tribal, city, county, state, and statistical boundaries in addition to linear roads and hydro.
- This creates nodes (points/0-cell), edges (lines/1-cell), and faces (polygons/2-cell)
- GUPS allows for splitting by block group or faces. Faces provide the most precision in modifying geographies.

Acceptable Boundaries

- State and county boundaries **must always** be census tract boundaries
- AIR and ORTL boundaries
- Visible, perennial, stable, relatively permanent natural and constructed features
- Conjoint legal boundaries
- Boundaries of large parks, forests, airports, prisons, and/or military installations provided they are clearly marked and/or easily recognized in the field
- Nonstandard boundaries, only when the above is not available for use

Geographic Update Partnership Software (GUPS)

- Tool for PSAP response.
- Allows participants to review and modify the statistical geographies in an efficient manner.
- Integrates the standardized PSAP requirements and thresholds that define statistical geographies.
- Runs on desktop PC or network environment.
- Runs in QGIS.
- Available by DVD or online download.

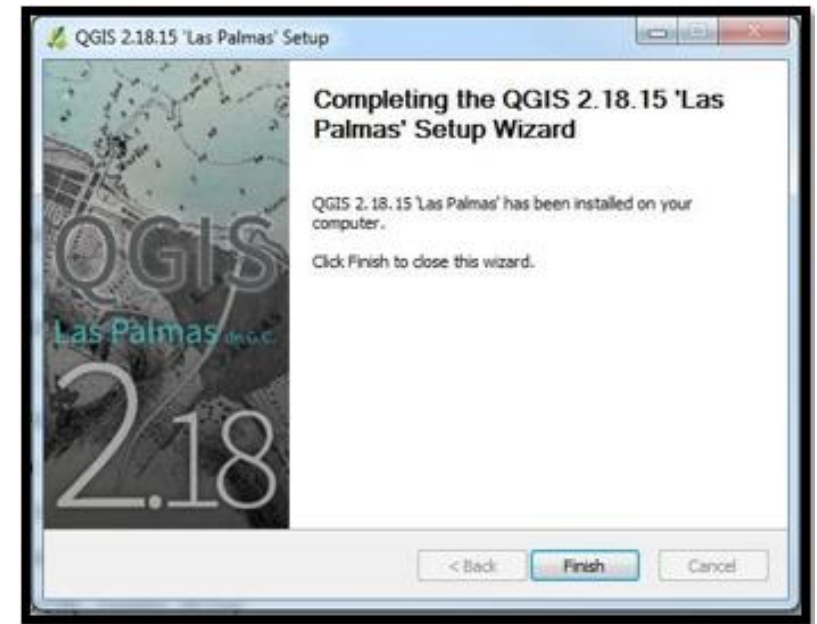
GUPS – System Requirements

- Disk space needed to run: 3.3GB.
- RAM: 4GB minimum.
- Operating system: Windows 7,8, or 10.



GUPS Installation

- Administrator privileges may be required.
- Direct Download.
 - <https://www2.census.gov/geo/pvs/gups/>
- Install from DVD (GUPS disc).
 - Data disc.
- Accessing shapefiles.
 - 'Census Web' option within GUPS.
 - Recommended for participants with internet connectivity.
 - DVD data disc.
 - May load directly from disc or to where participant saved shapefiles.



Resources and Assistance

- TIGERWeb – both a web application and WMS/REST layers (<https://tigerweb.geo.census.gov/tigerweb/>)
- PSAP Website – all materials, documentation, and program updates posted here (<https://www.census.gov/programs-surveys/decennial-census/about/psap.html>)
- PSAP Help
 - Email: geo.psap@census.gov
 - PSAP Help Line: (844) 788-4921
 - Dallas Geography: (972) 510-1550

Webinars

- Webinars hosted every week through February 28th
- Cover PSAP process, from splits to submission
- Include GUPS training
- Can find the current schedule and registration instructions on the PSAP website

The Big Picture

- Census Bureau statistical areas are a “shared resource” that are most relevant when they reflect the needs of a variety of data users.
- As the primary participant, NCTCOG is responsible for:
 - Coordinating review and update of statistical area boundaries.
 - Ensuring that the areas submitted to the Census Bureau meet the needs of a variety of data users in the local area.
 - Returning updates to the Census Bureau.
- For more regionally specific questions – NCTCOG should be your go-to resource.