

Census 2020

Technical Working Group

Georgetown, Texas

March 5, 2020

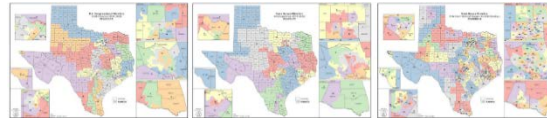


@TexasDemography



CENSUS 2020

- Census counts used for:
 - reapportion the U.S. House of Representatives
 - electoral college votes
 - redraw congressional and state legislative boundaries



- distribution of more than \$675 billion in federal funds for: roads, schools, hospitals, public works, and other vital programs.
- 1% undercount of Texans could translate to a loss of \$300 million per year.



- Demographic foundation for transportation planning and definition of urban areas

Counting for Dollars 2020
The Role of the Decennial Census in the Geographic Distribution of Federal Funds



Federal Transportation Funding for Texas:

- Highway Planning and Construction \$3,330,264,684
- Federal Transit Formula Grants \$434,390,000
- Federal Transit - Capital Investment Grants \$17,448,330





Census 2020 Timeline

The Internet Response Option in the 2020 Census

You can respond to the census:

- Online
- By phone
- Through the paper form

If you do not respond online or by phone, the Census Bureau will mail you a paper form

The Census Bureau will send you a notice in the mail with a household ID and a link to the official 2020 Census website

Go to the official Census 2020 website to respond

If you lose your household ID, you can still respond to the census online by providing your address

The Census Bureau's notice will contain a 2020 Census phone number

You can call that phone number to respond to the census

Be sure to include every person that lives at your address when you fill out the form!



Language support for 12 non-English languages is available online and by phone



- **March 12 - 20:** Households will begin receiving official Census Bureau mail with detailed information on how to respond to the 2020 Census online, by phone, or by mail.
- **March 30 - April 1:** The Census Bureau will count people who are experiencing homelessness and living in shelters.
- **April 1:** Census Day is observed nationwide. By this date, every home will receive an invitation to participate in the 2020 Census.
- **April:** Census takers will begin visiting group quarters.
- **May - July:** Census takers will begin visiting homes that haven't responded.
- **December:** The Census Bureau will deliver apportionment counts to the President and Congress as required by law.



Transportation Analysis Zones (TAZs)

- Census Transportation Planning Products (CTPP) will no longer include Transportation Analysis Zone (TAZ) and Transportation Analysis District (TAD) geographies. Future CTPP special tabulation requests will include the standard census block group geography.
- Currently the smallest standard census geography in the CTPP tabulation is census tract, which will continue to be reported, along with larger geographies such as state, county, minor civil division (MCD), metropolitan statistical area (MSA), public use micro area (PUMA), urbanized area, and census designated place.
- Thus to construct data consistent with TAZ boundaries, block group data will need to be aggregated to historic TAZ boundaries.



Urbanized Areas (UAs)

- A UA is a continuously built-up area with a population of 50,000 or more.
- Comprises one or more places—*central place(s)*—and the adjacent densely settled surrounding area—*urban fringe*—consisting of other places and nonplace territory.

Following 2010 Census, list of urban areas was released March, 2012.

Forecast of urbanized areas for TxDOT/TTI



Total Population by Area in Texas, 2010, 2018, and 2020

	Census 2010	Share of U.S.	2018 ACS 5-Yr Estimate	Share of U.S.	Projected Population 2020	Share of U.S.
Urbanized Areas	19,004,741	8.5	21,152,517	9.0	23,248,270	9.4
50,000 to 199,999	2,451,498	8.0	2,649,003	8.3	2,278,808	7.3
> 200,000	16,553,243	8.6	18,503,514	9.1	20,969,462	9.7
Rural or Non-Urbanized	6,140,824	6.9	6,732,678	7.4	6,772,954	7.5
Total	25,145,565	8.0	27,885,195	8.5	30,021,225	8.9

Derived from U.S. Census Bureau, Census 2010, 2018 ACS 5-Year Population Estimates, and IDSER 2020 Population Projections.



Disclosure Avoidance

“To stimulate public cooperation necessary for an accurate census...Congress has provided assurances that information furnished by individuals is to be treated as confidential. Title 13 U.S.C. §§8(b) and 9(a) explicitly provide for nondisclosure of certain census data, and no discretion is provided to the Census Bureau on whether or not to disclose such data...”(U.S. Supreme Court, *Baldrige v. Shapiro*, 1982)

Reconstruction - The recreation of individual-level data from tabular or aggregate data.

If you release enough tables or statistics, eventually there will be a unique solution for what the underlying individual-level data were.

Computer algorithms on fast computers can do this easily

	4					2	
			7				4
1		7	8				5
			9			3	8
5							
			6		8		
3						4	5
	8	5				1	9
		9		7	1		



Differential Privacy

- Differential Privacy involves injecting noise into the Census data with formal privacy rules that results in reconstruction being less accurate as more noise is introduced
- Differential privacy, will result in a significant trade-off in data accuracy, potentially making the public data less useful for many scientific, program administration, and policy applications.

Providing accurate data



Data Quality | Bnae Kegouqe
 Dada Qualitg | Vrkk Jzcfkdy
 Data Qaality | Dncb PrhvBln
 Dzte Qvality | Dncb Prtnavy
 Dfha Quapyti | Tgta Ppijacy
 Tgta Qucjity | Dfha Pnjvico
 Dncb Qhulitn | Dzhe Njivaci
 Ntue Quevdto | Dzte Privacy
 Vrkk Zuhnvry | Dada Privacg
 Bnaq Denorbe | Data Privacy

Safeguarding individual privacy

County	SF1 Population	Demo Data Population	Percent Difference
McMullen	707	758	7.2%
Kenedy	416	451	8.4%
Kent	808	912	12.9%
Loving	82	94	14.6%
King	286	335	17.1%

Source: U.S. Census Bureau, 2010 Census Summary File 1 and 2010 Demonstration Data

Population	Number of Places	Mean Absolute Percent Difference
1-500	513	25.7%
501-1,000	260	10.1%
1,001-5,000	591	4.3%
5,001-10,000	143	1.7%
10,001 plus	241	0.7%

Source: U.S. Census Bureau, 2010 Census Summary File 1 and 2010 Demonstration Data



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2020 Texas Demographic Conference



June 3rd - 4th, 2020

San Antonio, TX