



Population Estimates Webinar

November 7, 2023



The Texas Demographic Center

State Demographer

Dr. Lloyd B. Potter

Affiliated with

The University of Texas at San Antonio,
Institute for Demographic and
Socioeconomic Research

- **Major function**
 - ❖ Produce annual population estimates and biennial population projections

- **Other services**
 - ❖ Disseminate demographic and socioeconomic information
 - ✓ Publications
 - ✓ Presentations
 - ✓ The annual conference
 - ✓ Webinars
 - ✓ Social Media
 - ✓ Newsletter
 - ❖ Provide training and technical expertise
 - ❖ Custom data analyses

- **Partnerships**
 - ❖ Census Bureau
 - ❖ TDC affiliates



Valeria Alvarez, MPP



Research Scientist Associate

Annual Population Estimates

Data Collection Process



TDC Webinar
November 6, 2023

Texas Population Estimates and Projections Program



The Texas Population Estimates and Projections Program produces population estimates and population projections for the State of Texas in compliance with **Chapter 468 of the Texas Government Code**.

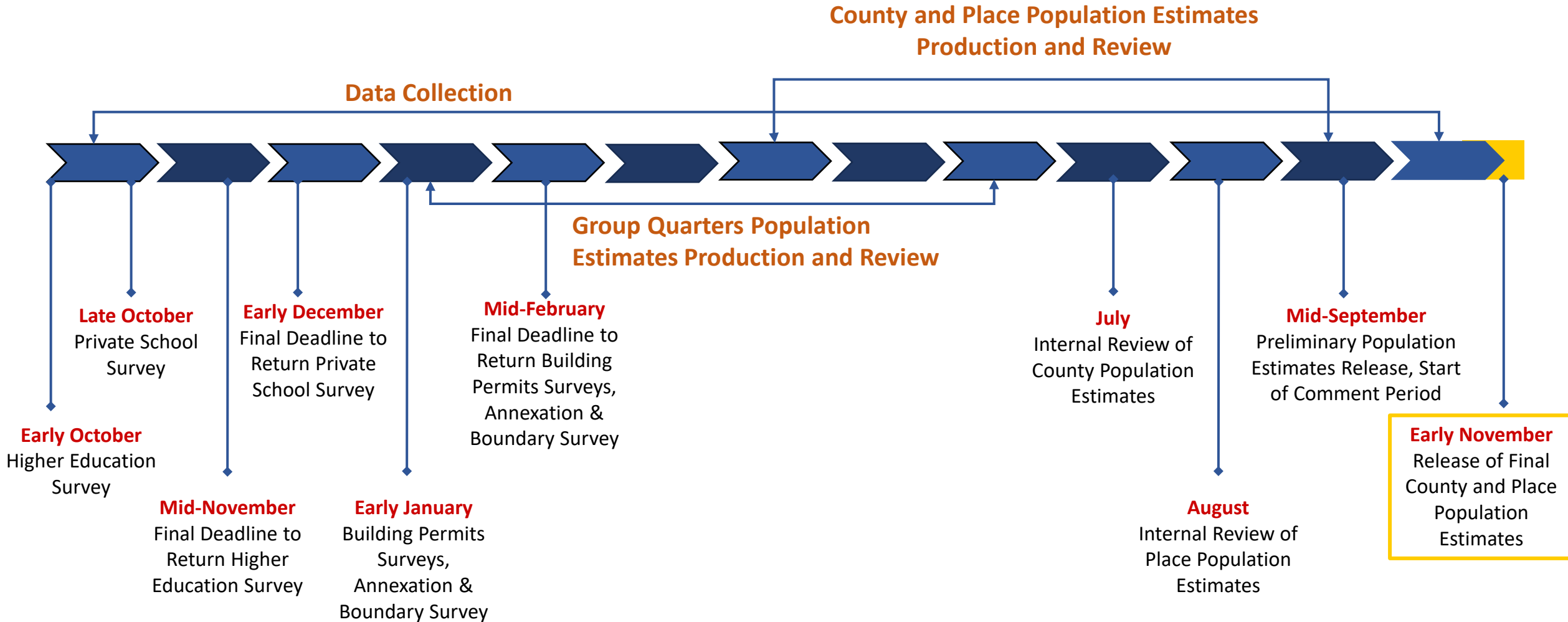
| Population Estimates | Population Projections |
|--------------------------------|------------------------|
| Annual | Biennial |
| State, Counties, Places | State, Counties |

Annual Surveys



- Higher Education Survey
- Private School Enrollment Survey
- Annexation & Boundary Survey
- Survey of New Residential Units in Unincorporated Areas
- Survey of New Residential Units in Incorporated Places

Population Estimates Production Timeline

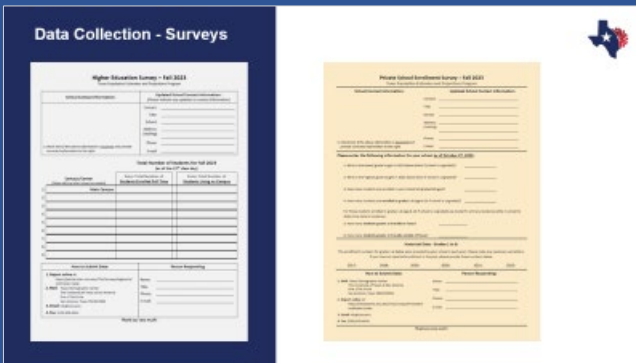


Data Collection



Three types of data collection:

TDC Survey Data



Administrative Data

Data Collection – Administrative Data

| | |
|---|--------------------------------------|
| U.S. Census Bureau | Building Permits Monthly/Yearly Data |
| U.S. Census Bureau | Boundary & Annexation Survey Data |
| U.S. Department of Health and Human Services – Centers for Medicare and Medicaid Services | Medicare data |
| Texas Department of State Health Services | Birth/Death Data |
| Texas Secretary of State | Voter Registration Data |
| Texas Department of Motor Vehicles | Vehicle Registration Data |
| Texas Education Agency | School Enrollment Data |
| Institute for Building Technology and Safety | Manufactured Homes Data |

Publicly Available Data

- Data Collection – Publicly Available Data
- U.S. Census Bureau Decennial Census Data
 - U.S. Census Bureau American Community Survey (ACS) Data
 - U.S. Census Bureau Population Estimates

Data Collection - Surveys



Higher Education Survey – Fall 2023

Texas Population Estimates and Projections Program

| School Contact Information: | Updated School Contact Information: (Please indicate any updates to contact information) |
|-----------------------------|---|
| | Contact: _____ |
| | Title: _____ |
| | School: _____ |
| | Address: _____ (mailing) |
| | Phone: _____ |
| | E-mail: _____ |

Check here if the above information is *incorrect* and provide corrected information to the right.

Total Number of Students for Fall 2023 (as of the 12th class day)

| Campus/Center (Please add any other campus as needed) | Enter Total Number of Students Enrolled Full Time | Enter Total Number of Students Living on Campus |
|--|--|--|
| 1) Main Campus | | |
| 2) | | |
| 3) | | |
| 4) | | |
| 5) | | |
| 6) | | |
| 7) | | |
| 8) | | |
| 9) | | |

| How to Submit Data: | Person Responding |
|---|-------------------|
| 1. Report online at: https://portal.idser.utsa.edu/TDC/Surveys/HigherEd/ Institution Code: _____ | Name: _____ |
| 2. Mail: Texas Demographic Center The University of Texas at San Antonio One UTSA Circle San Antonio, Texas 78249-9963 | Title: _____ |
| 3. Email: tdc@utsa.edu | Phone: _____ |
| 4. Fax: (210) 458-6541 | E-mail: _____ |

Thank you very much!

Private School Enrollment Survey – Fall 2023

Texas Population Estimates and Projections Program

| School Contact Information: | Updated School Contact Information: |
|-----------------------------|-------------------------------------|
| | Contact: _____ |
| | Title: _____ |
| | School: _____ |
| | Address: _____ (mailing) |
| | Phone: _____ |
| | E-Mail: _____ |

Check here if the above information is *incorrect* and provide corrected information to the right.

Please enter the following information for your school as of October 27, 2023:

1. What is the lowest grade taught in 2023 (leave blank if school is ungraded)? _____
2. What is the highest grade taught in 2023 (leave blank if school is ungraded)? _____
3. How many students are enrolled in your school (all grades/all ages)? _____
4. How many students are enrolled in grades 1-8 (age 6-14 if school is ungraded)? _____

For those students enrolled in grades 1-8 (age 6-14 if school is ungraded) use student's primary residence while in school to determine state of residence:

5. How many students grades 1-8 reside in Texas? _____
6. How many students grades 1-8 reside outside of Texas? _____

Historical Data - Grades 1 to 8:

The enrollment numbers for grades 1-8 below were provided by your school in past years. Please make any necessary corrections. If you have not reported enrollment in the past, please provide these numbers below.

| 2017: | 2018: | 2019: | 2020: | 2021: | 2022: |
|-------|-------|-------|-------|-------|-------|
| | | | | | |

| How to Submit Data: | Person Responding: |
|---|--------------------|
| 1. Mail: Texas Demographic Center The University of Texas at San Antonio One UTSA Circle San Antonio, Texas 78249-9963 | Name: _____ |
| 2. Report online at: https://idserportal.utsa.edu/Tdc/surveys/PrivateSch Institution Code: _____ | Title: _____ |
| 3. Email: tdc@utsa.edu | Phone: _____ |
| 4. Fax: (210) 458-6541 | E-mail: _____ |

Thank you very much!

Data Collection - Surveys



2023 Annexation and Boundary Survey

Texas Population Estimates and Projections Program

| Current Mailing Information: | Updated Mailing Information: |
|------------------------------|------------------------------|
| | Contact: _____ |
| | Title: _____ |
| | Address: _____ |
| | (mailing) _____ |
| | Phone: _____ |
| | E-Mail: _____ |

Check here if the above information is *incorrect* and provide corrected information to the right.

2023 Annexation and Boundary Changes (January 1, 2023 to December 31, 2023)

- Did the boundaries of this municipality change in the specified timeframe?
 No Yes - Record all boundary changes that occurred on the worksheet below
- During the specified timeframe, has this municipality consolidated with, merged with, been annexed by, etc., another jurisdiction?
 No Yes - This municipality has ... (please give name of place)
 - Consolidated/Merged with _____
 - Been annexed by _____
 - Other (please explain) _____

Worksheet for Annexation and Boundary Changes by County within the City of

Please record, as completely as possible, the information requested below for each change that occurred in your municipality. For municipalities with multiple counties, please record changes for all counties on this worksheet.

- Beginning January 1, 2023 and ending with the most recent, list all boundary changes that occurred in 2023.
- Please only list officially certified annexations or detachments for your municipality.
- Please attach a legal description of each annexation or boundary change.

| Item # | County in Which Change Occurred | Date of Action (MM/DD/YYYY) | Type of change: (A) Annexation (B) Detachment (C) Other | Estimated Area Involved | | Estimated Population in Each Annexed/Detached Area | | |
|--------|---------------------------------|-----------------------------|--|-------------------------|-------|--|------------------------------------|--|
| | | | | Square Miles | Acres | Population | Housing Units Occupied Total | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

(Continue on back of form for additional items if necessary)

| How to Submit Data: | Person Responding |
|--|-----------------------------|
| 1. Mail: Texas Demographic Center The University of Texas at San Antonio One UTSA Circle San Antonio, Texas 78249-9963 | Name: _____ |
| 2. Report online at: https://portal.idser.utsa.edu/tde/surveys/Annex/ Access Code: _____ | Title: _____ |
| 3. Email: tdc@utsa.edu 4. Fax: (210) 458-6541 | Phone: _____ |
| | E-Mail: _____ |
| | Thank you very much! |

2023 Survey of New Residential Units in Unincorporated Areas

Texas Population Estimates and Projections Program

| Current Mailing Information: | Updated Mailing Information: |
|------------------------------|------------------------------|
| | Contact: _____ |
| | Title: _____ |
| | Address: _____ |
| | (mailing) _____ |
| | Phone: _____ |
| | E-Mail: _____ |

Check here if the above information is *incorrect* and provide corrected information to the right.

Provide information for unincorporated areas in your county on New Residential Housing Units

- Does your county issue any of the following permits: Building Permits, Certificates of Occupancy, or Demolition Permits?
 Yes, continue with Question 2 No, continue with questions 3.
- Did your county issue Building Permits, Certificates of Occupancy, or Demolition Permits from **January 1, 2023 to December 31, 2023**?
 Yes, continue with worksheet on backside No, stop and return this form.
- Did your county add any new residential housing units from **January 1, 2023 to December 31, 2023**?
 Yes, continue with worksheet on backside. No, stop and return this form.

If applicable, please provide us with information about the opening/closing of facilities, which could affect your county's population (e.g. prisons and/or colleges).

| How to Submit Data: | Person Responding |
|--|-----------------------------|
| 1. Mail: Texas Demographic Center The University of Texas at San Antonio One UTSA Circle San Antonio, Texas 78249-9963 | Name: _____ |
| 2. Report online at: https://portal.idser.utsa.edu/tde/surveys/BuildPermitCounty/ Access Code: _____ | Title: _____ |
| 3. Email: tdc@utsa.edu 4. Fax: (210) 458-6541 | Phone: _____ |
| | E-Mail: _____ |
| | Thank you very much! |

Circle the data source that BEST describes the source used to complete this form (circle only one):

- | | |
|--------------------------------|----------------------------|
| a. Building Permits | e. Utility Connections |
| b. Sewage (Wastewater Permits) | f. 911 Address |
| c. Development Permits | g. Voter Registration Data |
| d. Flood Plain Report | h. Other: (specify) _____ |

| New Residential Buildings | Buildings | Housing Units |
|--|-----------|---------------|
| Single-family houses (attached and detached) | | |
| Two-family buildings | | |
| Three- and four-family buildings | | |
| Five-or-more family buildings | | |
| Total | | |
| Other New Residences | Buildings | Housing Units |
| Manufactured HUD inspected / mobile homes | | |
| Other (Move-ins of housing units) | | |
| Demolition/Razing of Residential Buildings | Buildings | Housing Units |
| Single-family houses (attached and detached) | | |
| Two-family buildings | | |
| Three- and four-family buildings | | |
| Five-or-more-family buildings | | |
| Total | | |

Data Collection - Surveys



2023 Survey of New Residential Units in Incorporated Places Texas Population Estimates and Projections Program

City of _____

| | |
|-------------------------------------|-------------------------------------|
| Current Mailing Information: | Updated Mailing Information: |
| Contact: _____ | Contact: _____ |
| Title: _____ | Title: _____ |
| Address: _____ | Address: _____ |
| (mailing) _____ | (mailing) _____ |
| Phone: _____ | Phone: _____ |
| E-Mail: _____ | E-Mail: _____ |

Check here if the above information is *incorrect* and provide corrected information to the right.

Provide information for your municipality on New Residential Housing Units

- Does your municipality issue any of the following permits: Building Permits, Certificates of Occupancy, or Demolition Permits?
 Yes, continue with Question 2 No, continue with questions 3.
- Did your municipality issue Building Permits, Certificates of Occupancy, or Demolition Permits from **January 1, 2023 to December 31, 2023**?
 Yes, continue with worksheet on backside No, stop and return this form.
- Did your municipality add any new residential housing units from **January 1, 2023 to December 31, 2023**?
 Yes, continue with worksheet on backside. No, stop and return this form.

If applicable, please provide us with information about the opening/closing of facilities, which could affect your city's population (e.g. prisons and/or colleges).

| How to Submit Data: | Person Responding |
|---|---|
| 1. Mail: Texas Demographic Center The University of Texas at San Antonio One UTSA Circle San Antonio, Texas 78249-9963 | Name: _____ Title: _____ Phone: _____ Email: _____ |
| 2. Email: tdc@utsa.edu 3. Fax: (210) 458-6541 | Thank you very much! |

Worksheet – New Residential Units in Incorporated Places

Record, as completely as possible, the information requested for your municipality. Note that this form only pertains to **NEW RESIDENTIAL HOUSING UNITS**. Do not include commercial establishments, motels, recreational facilities, tourist cabins, or non-housekeeping units such as garages, barns, etc.

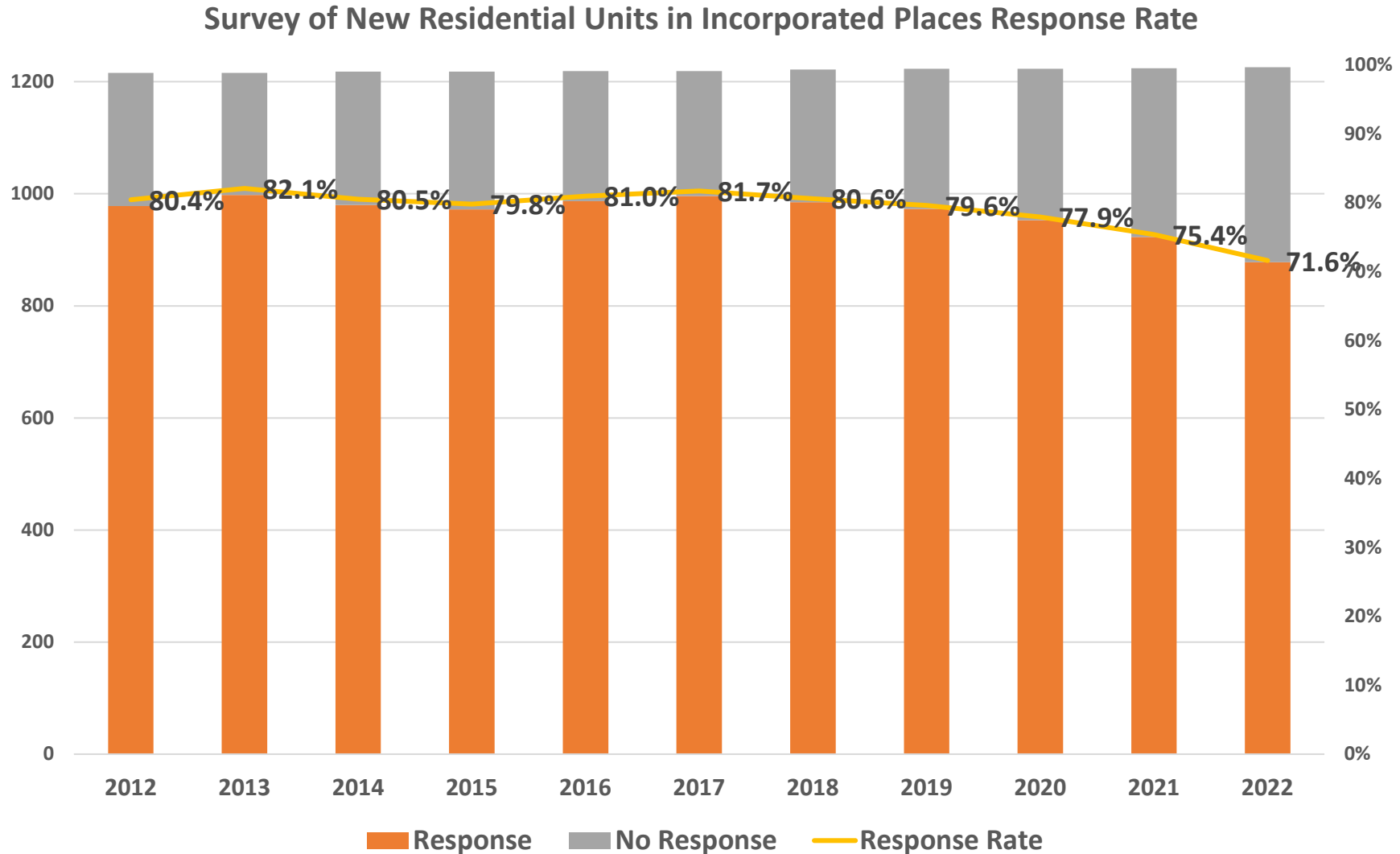
Circle the data source that BEST describes the source used to complete this form (circle only one):

- | | | |
|--------------------------------|------------------------|----------------------------|
| a. Building Permits | d. Utility Connections | g. Voter Registration Data |
| b. Sewage (Wastewater Permits) | e. Flood Plain Report | h. Other: (specify) _____ |
| c. Development Permits | f. 911 Address | |

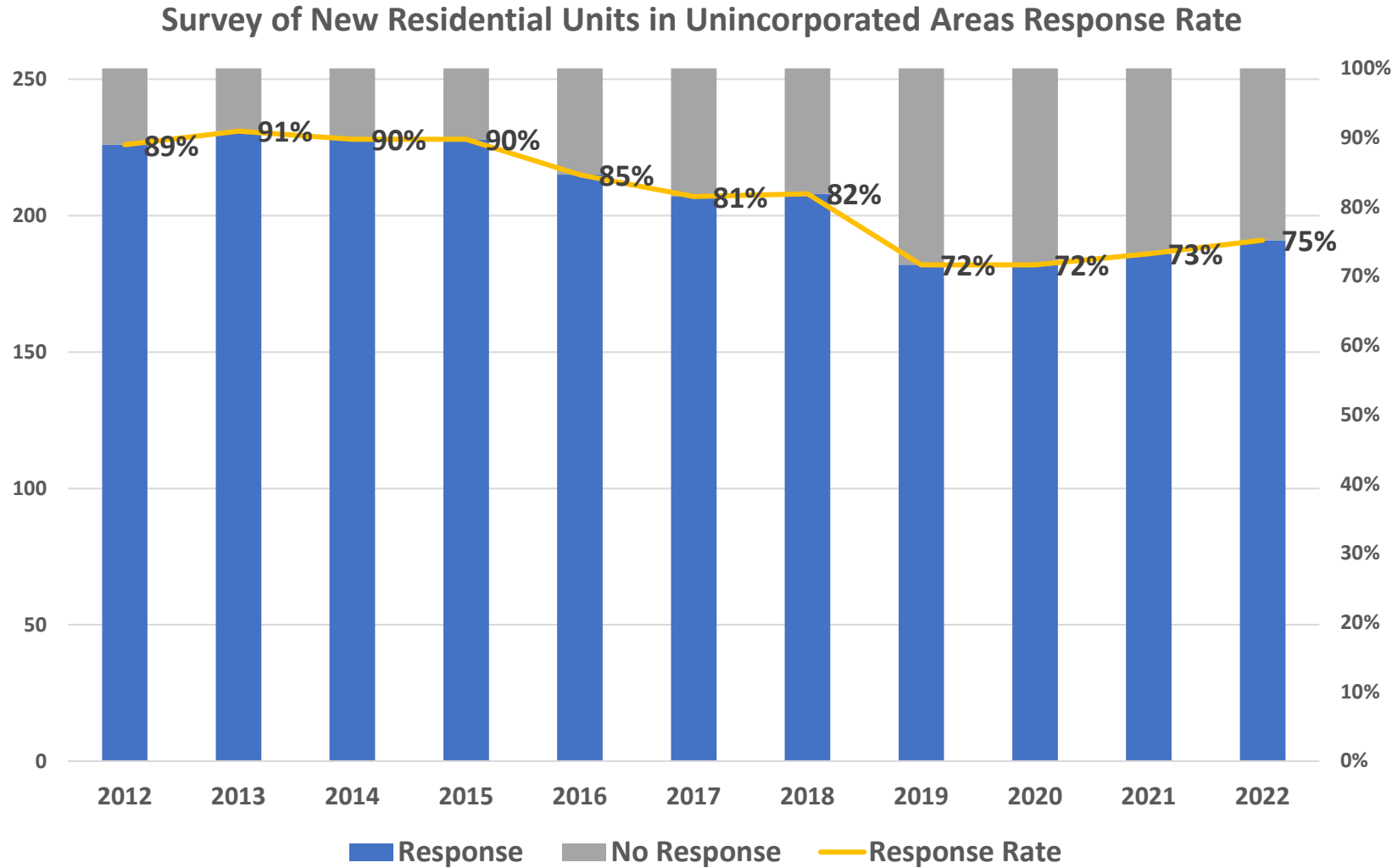
| Counties that are part of the City of | County: <input type="checkbox"/> None | | County: <input type="checkbox"/> None | | County: <input type="checkbox"/> None | |
|--|---------------------------------------|---------------|---------------------------------------|---------------|---------------------------------------|---------------|
| | Buildings | Housing Units | Buildings | Housing Units | Buildings | Housing Units |
| New Residential Buildings Building Permits Issued | | | | | | |
| Single-family houses (attached and detached) | | | | | | |
| Two-family buildings | | | | | | |
| Three- and four-family buildings | | | | | | |
| Five-or-more family buildings | | | | | | |
| Completed Residential Buildings Certificates of Occupancy Issued | | | | | | |
| Single-family houses (attached and detached) | | | | | | |
| Two-family buildings | | | | | | |
| Three- and four-family buildings | | | | | | |
| Five-or-more family buildings | | | | | | |
| Other New Residences | | | | | | |
| Manufactured HUD inspected / mobile homes | | | | | | |
| Other (Move-ins of housing units) | | | | | | |
| Demolition/Razing of Residential Buildings | | | | | | |
| Single-family houses (attached and detached) | | | | | | |
| Two-family buildings | | | | | | |
| Three- and four-family buildings | | | | | | |
| Five-or-more family buildings | | | | | | |

For more information and frequently asked questions about this survey, please visit <http://demographics.texas.gov/Data/TPPPP/Estimates/Survey@SurveyBuilding>, or contact our office at (210) 458-6543

Survey Response Rate



Survey Response Rate



Survey Response Methods



Online Form



Email



Mail

Data Collection



Three types of data collection:

TDC Survey Data

Data Collection - Surveys

Higher Education Survey - Fall 2023

Administrative Data

Data Collection – Administrative Data

| | |
|---|--------------------------------------|
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| Texas Secretary of State | Voter Registration Data |
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| Texas Education Agency | School Enrollment Data |
| Institute for Building Technology and Safety | Manufactured Homes Data |

Publicly Available Data

Data Collection – Publicly Available Data

- U.S. Census Bureau Decennial Census Data
- U.S. Census Bureau American Community Survey (ACS) Data
- U.S. Census Bureau Population Estimates

Data Collection – Administrative Data



| | |
|--|--|
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Data Collection



Three types of data collection:

TDC Survey Data

Data Collection - Surveys

Higher Education Survey - Fall 2023

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Data Collection – Publicly Available Data



- U.S. Census Bureau Decennial Census Data
- U.S. Census Bureau American Community Survey (ACS) Data
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Valeria Alvarez

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 demographics.texas.gov

 @TexasDemography





Dr. Helen You



Associate Director and Senior Demographer

Annual Population Estimates

Methodology and User Information



Texas
Demographic
Center

TDC Webinar
November 6, 2023





Why do we collect these data?

- Highly correlated with the population
- Available across the State
- Comparable across years
- Used in well-established methods for population estimates

| | State Ratios Enrollment/Population | County Correlation Enrollment/Population |
|-------------------------------------|---------------------------------------|---|
| Vehicle Registration | | |
| 2010 | 0.862 | 0.998 |
| 2020 | 0.826 | 0.997 |
| Voter Registration | | |
| 2010 | 0.515 | 0.997 |
| 2020 | 0.553 | 0.998 |
| School Enrollment (1st-8th) | | |
| 2010 | 0.12 | 0.996 |
| 2020 | 0.11 | 0.994 |
| Medicare Enrollment | | |
| 2010 | 0.099 | 0.993 |
| 2020 | 0.126 | 0.995 |

Three Methods are used in the County Population Estimates



□ Component Method II

- $Population_{(t+k)} = Population_t$
+ Natural Increase (Births – Deaths)
+ Net Migrants (In-mig – Out-mig)
- Vital statistics data, school enrollment, medicare data

□ Housing Unit

- $Population_{(t+k)} = Population_t + [(New\ HU - Demo\ HU) * Occupancy\ Rates] * HH\ size$
- Building permit data, annexation & boundary data

□ Ratio Correlation

- Regression method using symptomatic indicators
- $PRI_{i,t} / PRI_{i,t-k} = a + b1 * (XRI_{i,t} / XRI_{i,t-k}) + b2 * (YRI_{i,t} / YRI_{i,t-k}) + \dots + \varepsilon$
- Birth, death, voter registration, vehicle registration, housing unit

Place estimates and county demographic details



☐ Place estimates

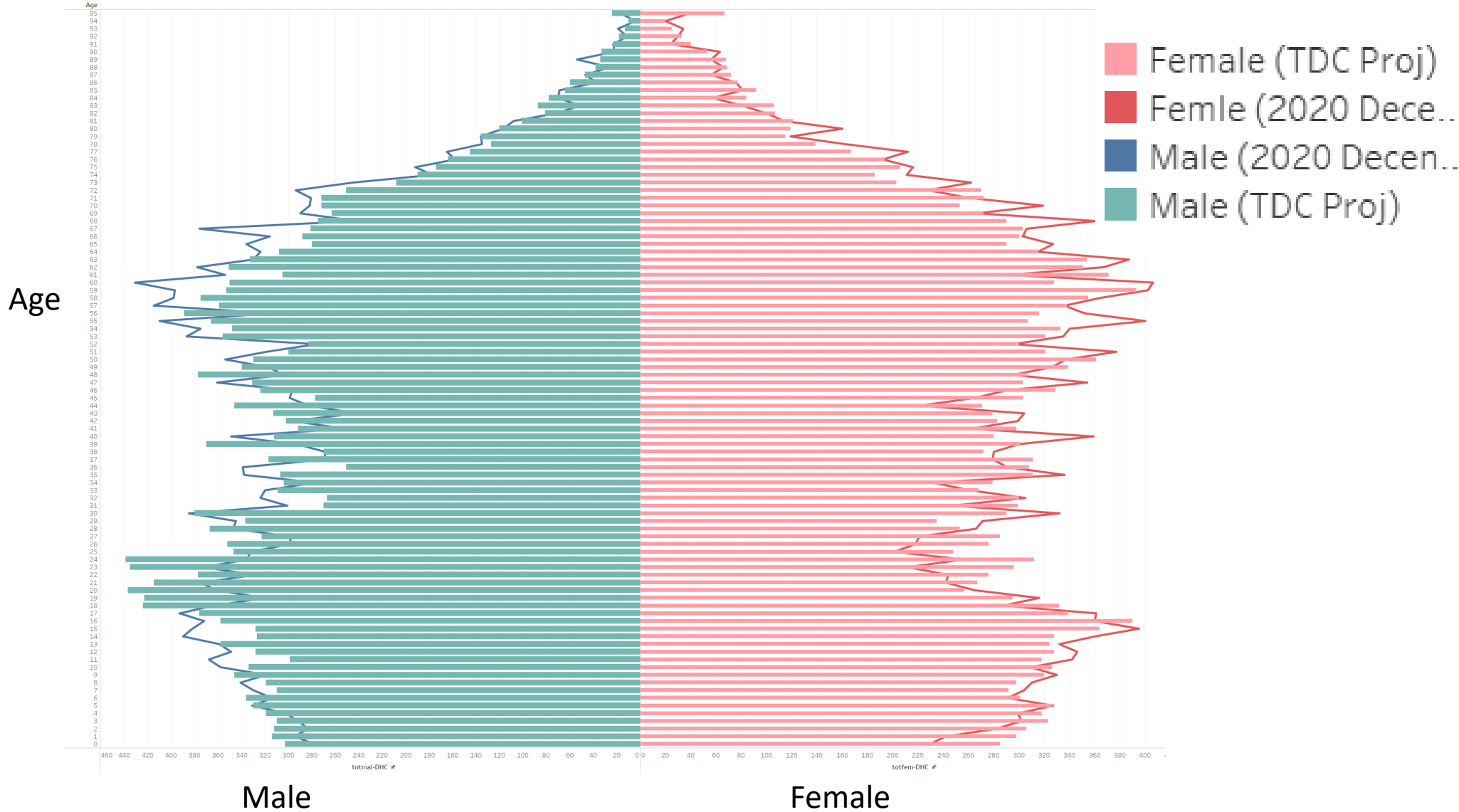
- Use the housing unit method to allocate the county population to the “part-places.”

☐ County estimates by age, race, and sex

- Allocate the estimated total population to a “*projected*” population by age, race, and sex from the base.

!! Use V2018 TDC projected 2020 distribution.

2020 Decennial Census and TDC 2022 Estimates Base



Post Processing and Feedback



❑ To stabilize the estimates

- County Estimates are **controlled** to the Census Bureau State Population Estimates;
- Place Estimates are **controlled** to TDC County Estimates.

❑ Internal review

- ✓ Comparing the three methods;
- ✓ Comparing against estimates from other sources (e.g., CB estimates)
- ✓ Historical trends



Preliminary
Estimates



Final
Estimates

❑ External review 2022

- Agree with our estimates
- Provided new/different data
- Question our base data
- Fitness of our data in certain area

- Access TDC population estimates



Texas Population Estimates Program

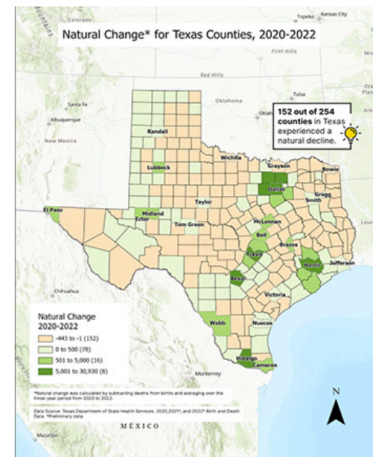
The Texas Population Estimates Program produces annual estimates of the total populations of counties and places in the state. Estimates of county populations are also available by age, sex, and race/ethnicity. Finalized population estimates are published on our TDC website the first week of November every year.

Release Year: 2022

2022 Population Estimates

Final population estimates for counties and places in Texas, and the county population by age, sex, and race/ethnicity are now available for July 1, 2022 and January 1, 2023.

If you have downloaded the preliminary estimates, please note that we have made changes to our final estimates based on the feedback and new information we have received since the release of the preliminary estimates. The final estimates may be accessed from the files below.



Infographic

Natural change for Texas counties, 2020-2022

Natural change in Texas, like many other regions, plays a vital role in shaping its demographic landscape. The Texas Demographic Center has produced a map illustrating shifts in the state's population resulting from natural change.

[View Visualizations](#)

Access 2022 Population Estimates

| Data | |
|---|---|
| Total Population by County | PDF CSV |
| Total Population by Place | PDF CSV |
| Total Population By Metropolitan Statistical Area | PDF CSV |
| Total Population By Council of Governments | PDF CSV |
| Age, Sex, and Race/Ethnicity for State and Counties | CSV |

| Methodology | |
|------------------------------|---------------------|
| Total Population | PDF |
| Age, Sex, and Race/Ethnicity | PDF |

| Customizing Tool |
|------------------|
| Coming Soon |

<https://demographics.texas.gov/Estimates/2022/>

Census Bureau Estimates



□ Census Bureau Postcensal Estimates

➤ *Methodology:*

- ❖ County: **Population** = **Starting population** ± **Natural Increase** ± **Net migration (IRS data)**
- ❖ Place: Housing unit method, control to county estimates
- ❖ Blended base:
 - ! May be different from the decennial Census Count **NEW!**
 - !! May be different from one vintage to the next

➤ *Release:*

- ❖ Roll out from December of the Estimates year to June next year (Some data are projected);
- ❖ Each vintage has new estimates for all the previous years since the base year;

➤ *Population Estimates Challenge Program*

Evaluation of TDC 2020 Population Estimates



State – Uncontrolled County Sum

| | Census 2020 | CB Estimates | Housing Unit | Ratio Correlation | Component Method II |
|---------------------------|-------------|--------------|--------------|-------------------|---------------------|
| Population | 29,145,505 | 29,360,759 | 29,034,349 | 29,373,713 | 30,998,108 |
| Numeric Difference | | 215,254 | -111,156 | 228,208 | 1,852,603 |
| % Difference | | 0.74 | -0.38 | 0.79 | 6.31 |

Census Bureau Estimates



☐ Census Bureau Intercensal Estimates

- *Estimate of population between official census dates with both of the census counts being known*
- *Form a consistent trendline across decades*

☐ American Community Survey

- *Control to the latest Census Bureau population estimates*
- *Place estimates in ACS can be seen as a 5-year average;*

What do data users do – TDC and CB estimates

- *TDC and Census Bureau Estimates are independent estimates that different governmental agencies use*
- *Consider consistency*
- *Consider the timing of the releases*

What do data users do?



□ Total population estimates for counties and places

- ❖ Pay attention to the base population—may be different from the Decennial count because:
 - CQR/PCGQR
 - The use of a blend base
- ❖ Use the CB intercensal population estimates for cross-decade trend analyses

□ Population estimates with demographic detail (age, race, sex)

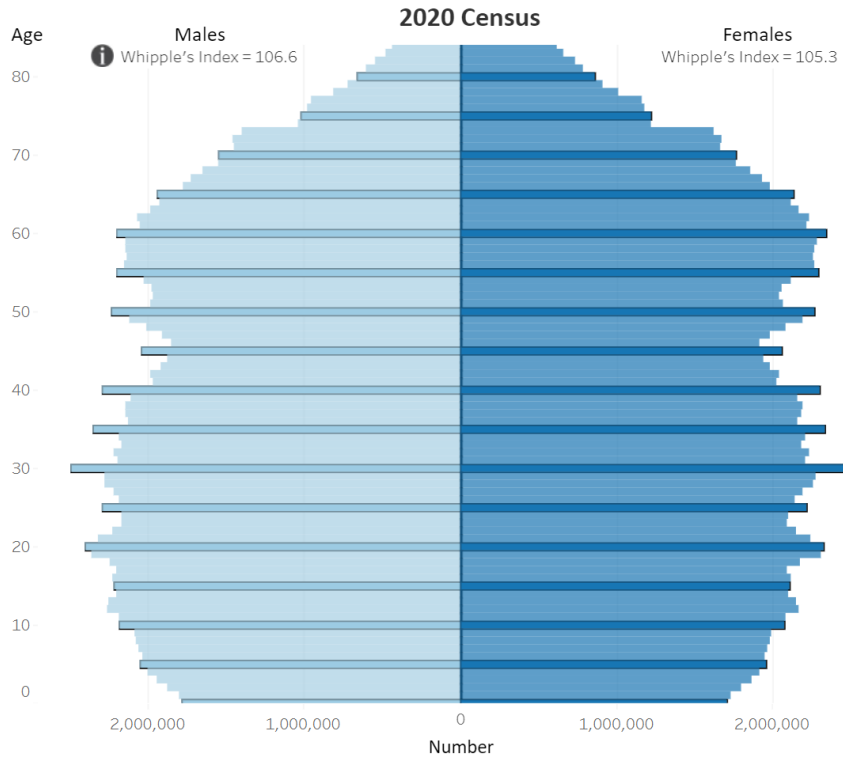
- ❖ **Neither** CB nor TDC estimates are comparable to the 2020 DHC (Demographic and Housing Characteristics) data. They are more comparable to the 2010 data.
 - Delay in the release of the 2020 data
 - Issues of the 2020 Census data
 - Injected noises (Differential Privacy)
 - Impact of the Covid 19
 - Changes in the processing of race/ethnic data

Age Heaping in the 2020 Census



Age-Sex Pyramid for the United States
(Aged 0 to 84. Outlined bars represent ages ending in "0" or "5")

2020 Census
Press play to watch the pyramid change

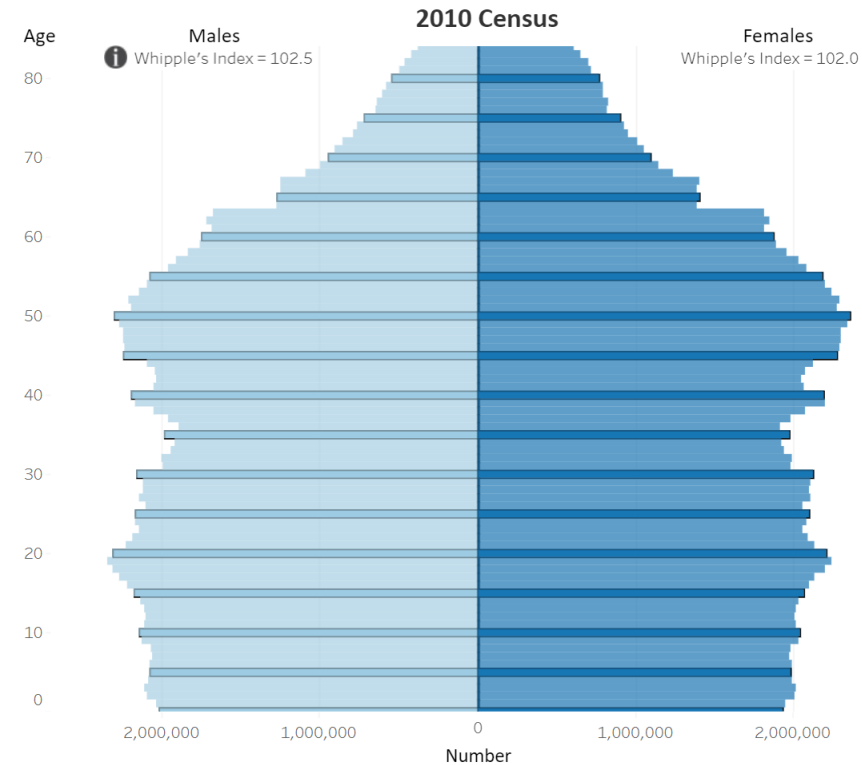


United States Census Bureau
U.S. Department of Commerce
U.S. CENSUS BUREAU
census.gov
Source: 1980 Census Summary File 2C (SF2C), 1990 Census Summary File 2C (SF2C), Census 2000 Summary File 1 (SF1), 2010 Census Summary File 1 (SF1), 2020 Census Demographic and Housing Characteristics File (DHC)

+ a b | e a u

Age-Sex Pyramid for the United States
(Aged 0 to 84. Outlined bars represent ages ending in "0" or "5")

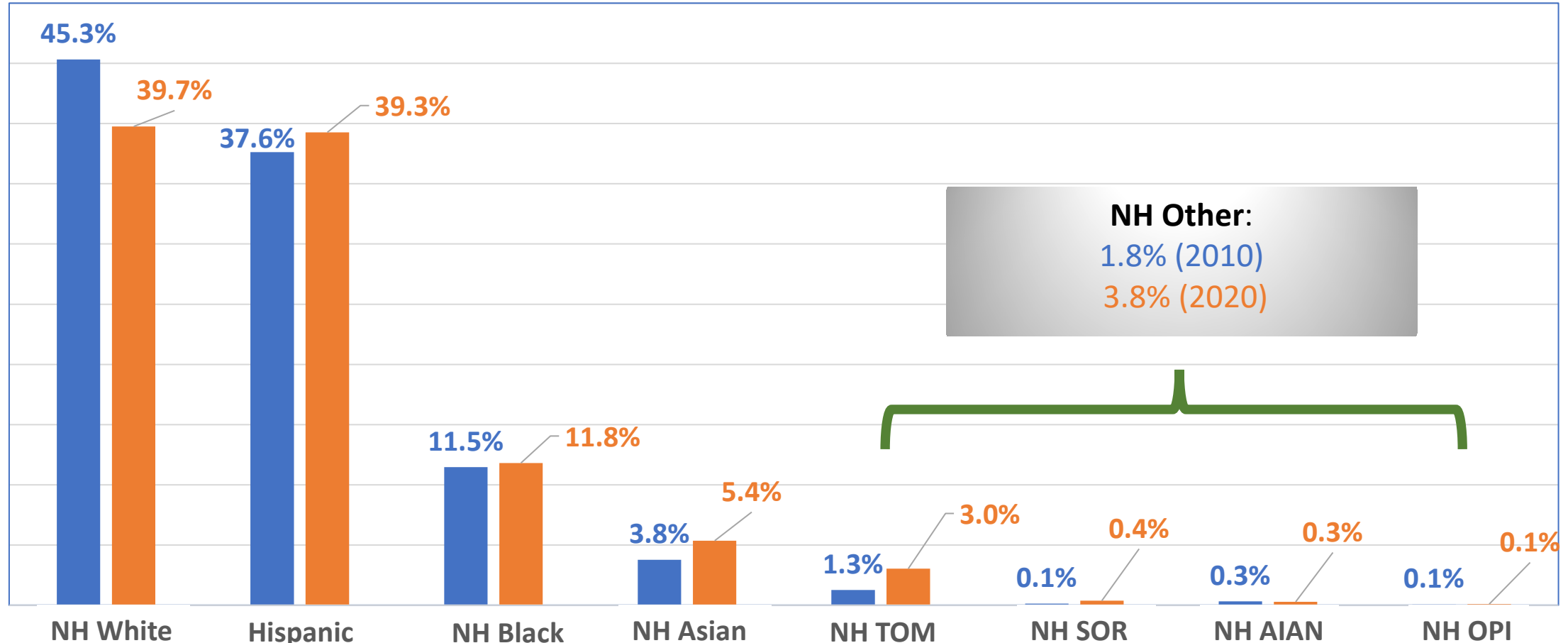
2010 Census
Press play to watch the pyramid change



United States Census Bureau
U.S. Department of Commerce
U.S. CENSUS BUREAU
census.gov
Source: 1980 Census Summary File 2C (SF2C), 1990 Census Summary File 2C (SF2C), Census 2000 Summary File 1 (SF1), 2010 Census Summary File 1 (SF1), 2020 Census Demographic and Housing Characteristics File (DHC)

+ a b | e a u

Race/Ethnic Composition in Texas, 2010 and 2020



■ Census 2010 ■ Census 2020

NH TOM – Non-Hispanic Two or More Races
 NH SOR – Non-Hispanic Some Other Race
 NH AIAN – Non-Hispanic American Indian and Alaska Native
 NH OPI – Non-Hispanic Other Pacific Islander

Source: U.S Census Bureau, 2010 and 2020 Decennial Census, Redistricting data

What do local governments do?



- Respond to our surveys (starting in January)
 - ❖ New housing unit survey
 - ❖ Annexation and boundary survey
- Review and provide feedback on our preliminary estimates (September to October)
- Work with us to improve the methodology for your area throughout the year
- Subscribe to our newsletters and follow us on social media


- Prepare for the 2030 Census

What does TDC do?



- Produce estimates and projections on a set schedule and make them available to the public;
- Work with local governments, users, and other stakeholders to improve our estimates;
- Hold meetings and webinars to provide information and get feedback;
- Serve as the liaison between the Census Bureau and Texas demographic users.

Helen You, Ph.D.

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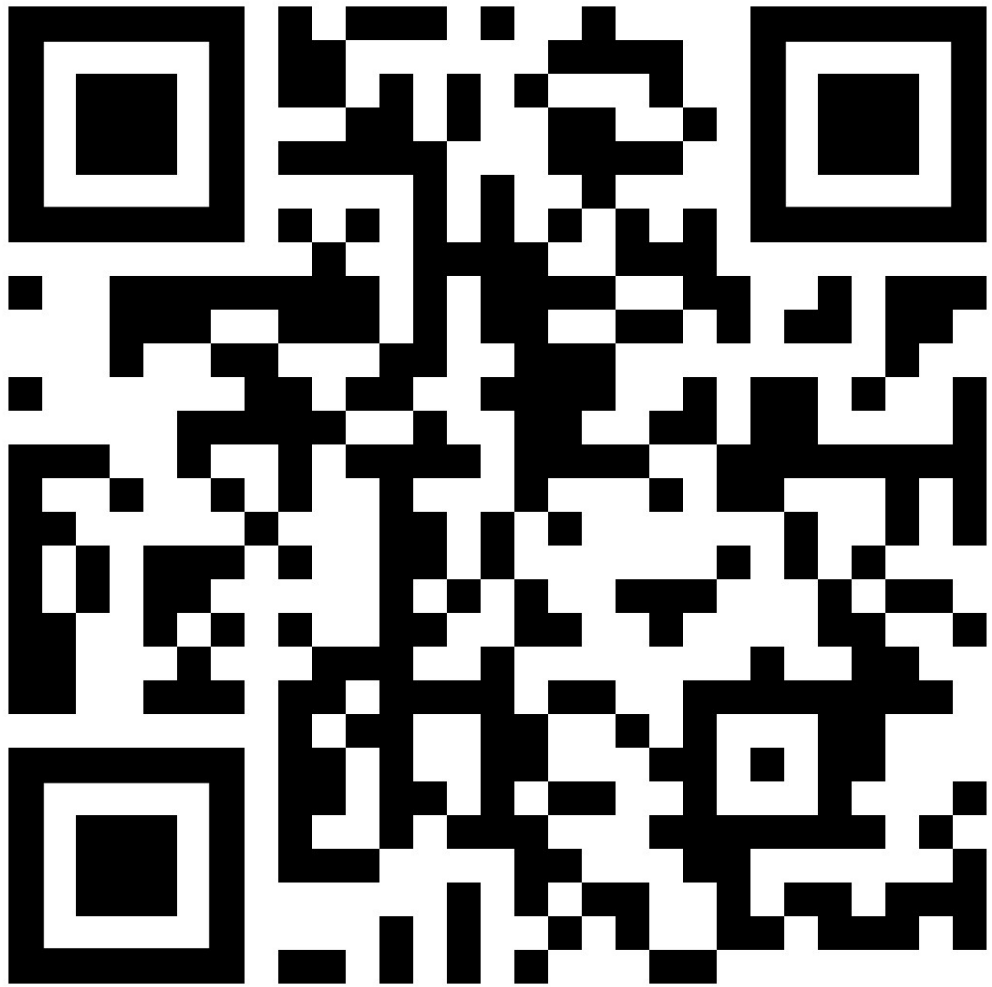
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