Population Estimates from the U.S. Census Bureau

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Demographer

Estimates & Projections Area

Population Division

Texas Demographic Conference 2023 Annual Meeting

Austin, TX

May 24, 2023

This presentation is released to inform interested parties of ongoing research and to encourage discussion of work in progress. Any opinions and conclusions expressed herein are those of the author(s) and do not reflect the views of the U.S. Census Bureau.

Overview of Presentation

- What we mean by “estimates”
- Why we disseminate estimates
- How estimates are made
- When estimates products are available
- Where estimates products can be accessed
- Where to learn more
- Questions

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What We Mean by “Estimates”

- “Estimates” are the official measures of population and housing units between censuses
- Population Estimates Program (PEP) estimates are:
  - Based on date of the previous decennial census
  - Produced primarily using administrative records data on components of change, such as births, deaths, and migration
  - Typically made for prior dates with some short-term projections
  - Include annual data for July 1 each year
  - Include monthly estimates at the national level

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Why We Disseminate Estimates

Federal Mandate (U.S.C. Title 13)

Allocation of federal funds

Program planning for public and private services

Controls for federal surveys

United States Census Bureau

Population and Housing Unit Estimates by Type and Geography

Estimate Type	U.S.	States	Metro/ Micro Statistical Areas	Counties	Cities and Towns	Puerto Rico	Puerto Rico Municipios
Total Resident Population	X	X	X	X	X	X	X
Components of Change (Births, Deaths, Net Migration)	X	X	X	X		X	
Population Characteristics (Age, Sex, Race, Hispanic Origin*)	X	X		X		X	X
Monthly Population (Five Universes)**	X						
Group Quarters Population	X (by char)	X (totals)		X (totals)			
Housing Units	X	X		X			

*For Puerto Rico Commonwealth and its municipios, population estimates are produced by age and sex only.
**The five estimates universes are: resident, resident plus Armed Forces overseas, civilian, civilian noninstitutionalized, household.

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Estimates Methodology

National, state, and county populations

Cohort-component method

Population Base + **Births** − **Deaths** + **Net Migration** = **Population Estimate**

- Cohort-component method measures population change since the last census using the most current administrative records on births, deaths, and migration
- Population base represents the date of the latest decennial census

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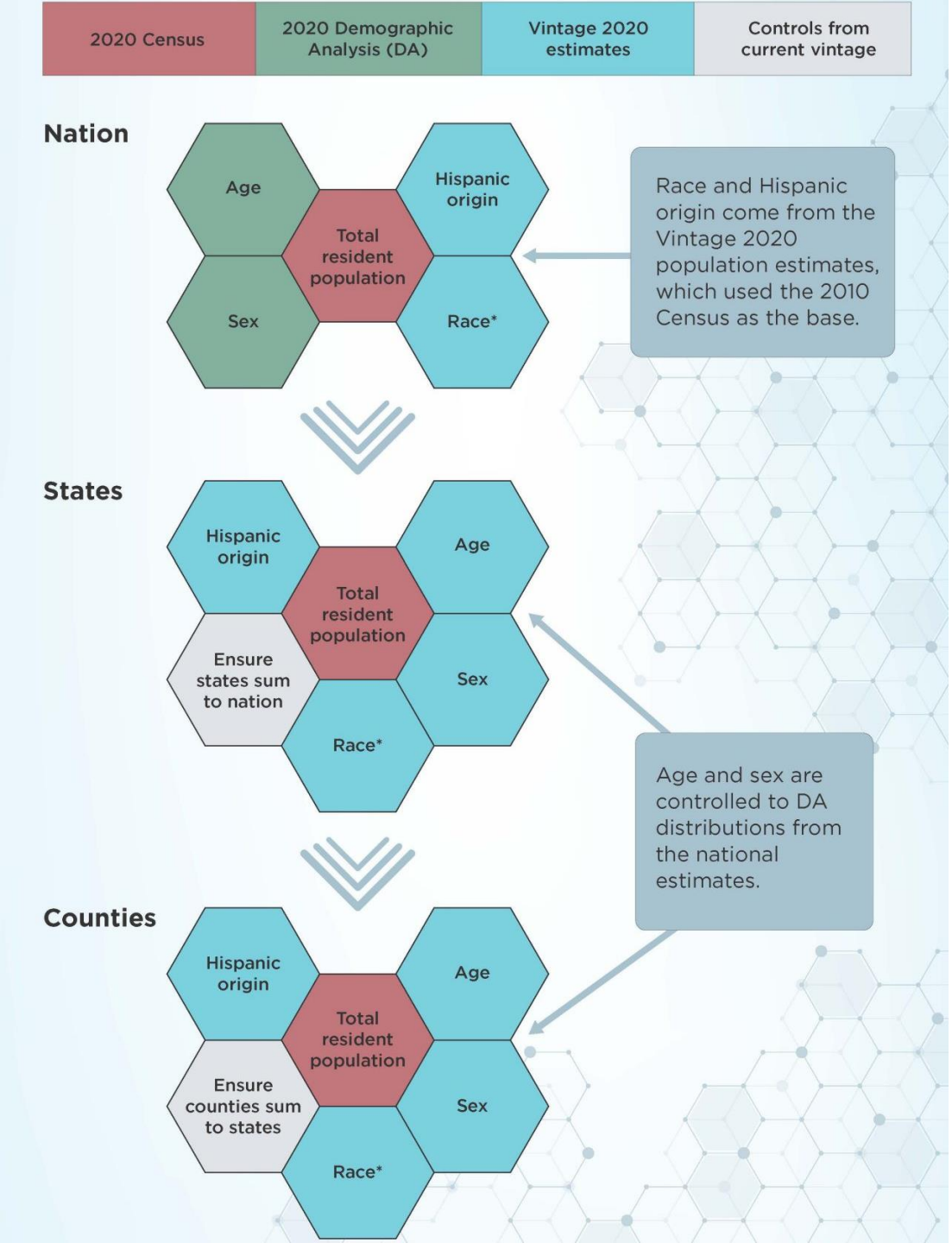
Blended Base Approach



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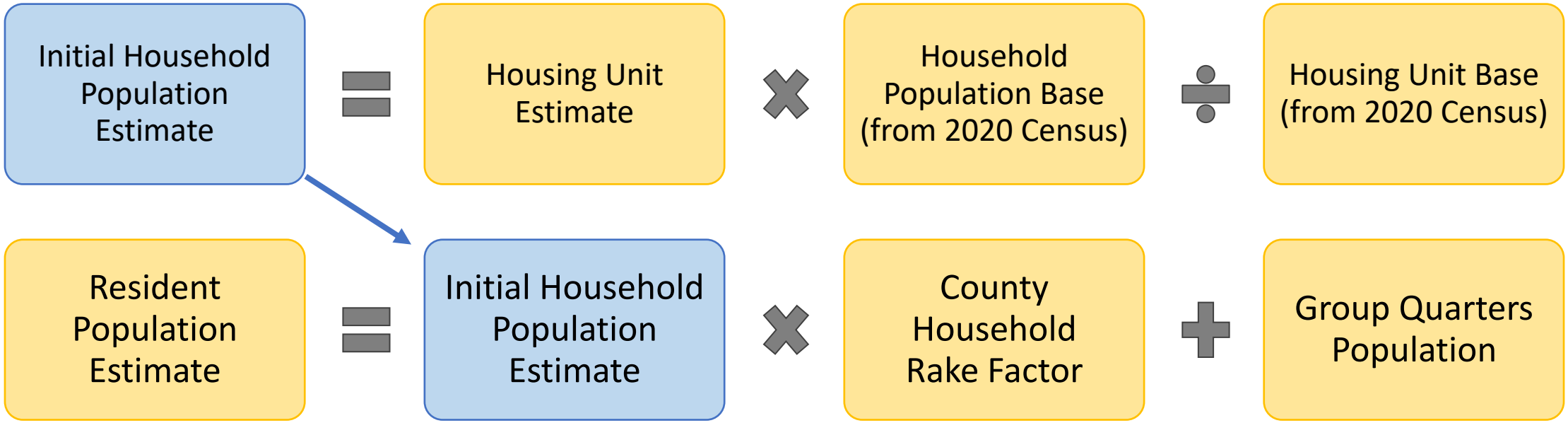
Estimates Methodology (cont.)

Subcounty population (cities and towns)

Distributive housing unit method



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Availability of Vintage 2022 Population and Housing Unit Data Products

census.gov/programs-surveys/popest/about/schedule.html

Release Date	Product	Geography
December 22, 2022	Population totals, components of change, and voting-age population	Nation, states, and Puerto Rico Commonwealth
March 30, 2023*	Population totals and components of change	Counties, and Puerto Rico municipios
April 13, 2023*	Population by age and sex	Nation
May 18, 2023*	Population totals--	Cities and towns (incorporated places, minor civil divisions), and metropolitan/micropolitan areas
	Housing unit totals--	Nation, states, and counties
June 22, 2023*	Population by age, sex, race, and Hispanic origin--	Nation, states, and counties
	Population by age and sex--	Puerto Rico Commonwealth and municipios

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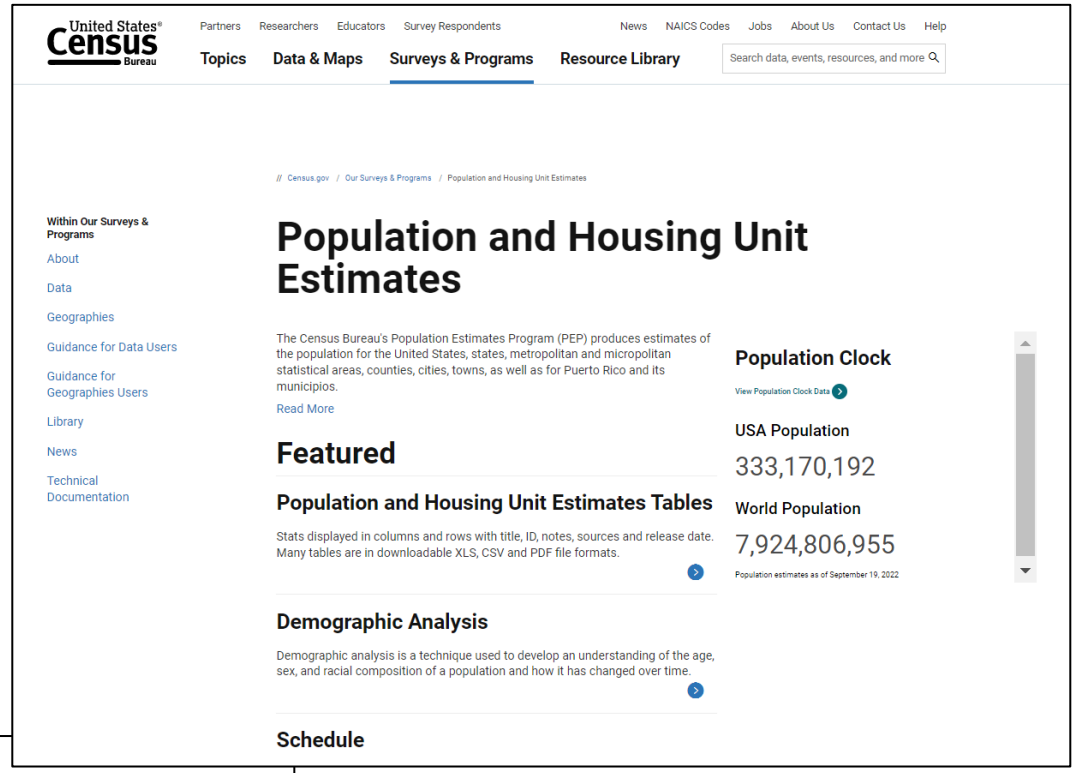
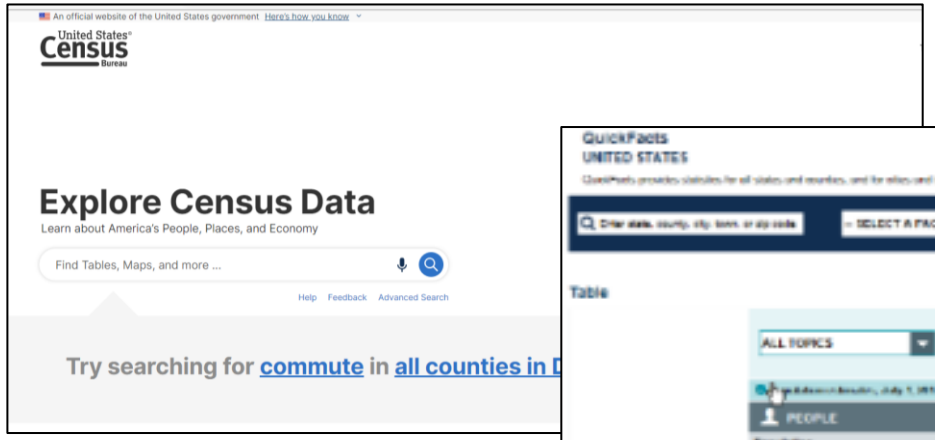
*Embargoed Release

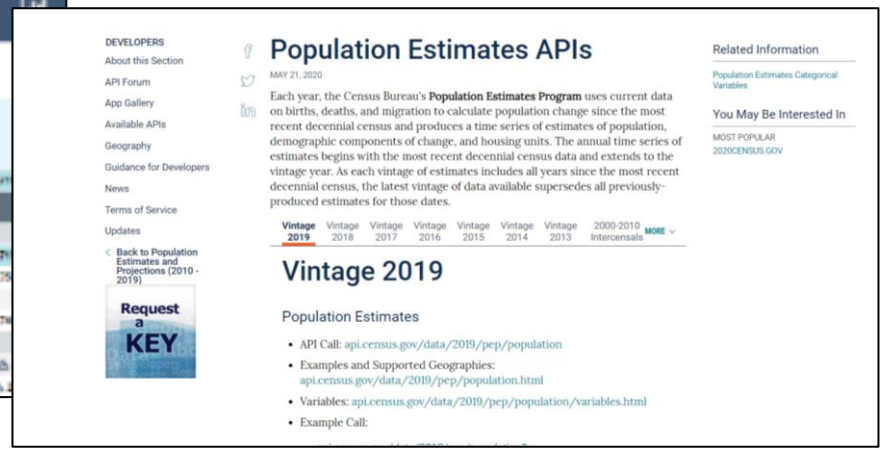
Ways to Access Estimates

- PEP Webpage:

  census.gov/programs-surveys/popest.html
- data.census.gov
- QuickFacts
- Application Programming Interface (API)







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Accessing Vintage 2022 Estimates

census.gov/programs-surveys/popest.html

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Population and Housing Unit Estimates

The Census Bureau's Population Estimates Program (PEP) produces estimates of the population for the United States, states, metropolitan and micropolitan statistical areas, counties, cities, towns, as well as for Puerto Rico and its municipios.

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Population Clock

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USA Population

333,170,192

World Population

7,924,806,955

Population estimates as of September 19, 2022

Featured

Population and Housing Unit Estimates Tables

Stats displayed in columns and rows with title, ID, notes, sources and release date. Many tables are in downloadable XLS, CSV and PDF file formats.

Demographic Analysis

Demographic analysis is a technique used to develop an understanding of the age, sex, and racial composition of a population and how it has changed over time.

Schedule

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Accessing Vintage 2022 Estimates (cont.)

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Population and Housing Unit Estimates Tables

The population and housing unit estimates are released on a flow basis throughout each year. Each new series of estimates (referred to as a "vintage") is revised annually beginning with the date of the most recent decennial census to incorporate the latest administrative record data, geographic boundaries, and methodology.

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Additional estimates files for some historical vintages may also be accessed via the Census Bureau application programming interface (API). Current estimates are unable to be supported by the API at this time.

Information on the Population and Housing Unit Estimates Special Tabulation Program.

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2022

Table

County Population Totals: 2020-2022

This page features county population estimates totals and components of change for years 2020-2022.

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Accessing Vintage 2022 Estimates (cont.)

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County Population Totals and Components of Change: 2020-2022

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Vintage 2022

Vintage 2021

Related Information

Population and Housing Unit Estimates Tables

Vintage 2022

Nation, States, Counties, and Puerto Rico Population

Methodology [< 1.0 MB]

Tables

Annual Estimates of the Resident Population for Counties: April 1, 2020 to July 1, 2022 (CO-EST2022-POP)

United States	Kansas	North Carolina
Alabama	Kentucky	North Dakota
Alaska	Louisiana	Ohio
Arizona	Maine	Oklahoma
Arkansas	Maryland	Oregon
California	Massachusetts	Pennsylvania
Colorado	Michigan	Rhode Island
Connecticut	Minnesota	South Carolina
Delaware	Mississippi	South Dakota
District of Columbia	Missouri	Tennessee
Florida	Montana	Texas
Georgia	Nebraska	Utah
Hawaii	Nevada	Vermont

United States® Census Bureau

Accessing Vintage 2022 Estimates (cont.)

Annual Estimates of the Resident Population for Counties in Texas: April 1, 2020 to July 1, 2022				
Geographic Area	April 1, 2020 Estimates Base	Population Estimate (as of July 1)		
		2020	2021	2022
Texas	**29,145,428**	**29,232,474**	**29,558,864**	**30,029,572**
Anderson County, Texas	57,922	57,926	58,233	58,064
Andrews County, Texas	18,614	18,617	18,411	18,334
Angelina County, Texas	86,394	86,376	86,654	87,101
Aransas County, Texas	23,831	23,932	24,519	24,944
Archer County, Texas	8,554	8,554	8,684	8,835
Armstrong County, Texas	1,846	1,849	1,838	1,850
Atascosa County, Texas	48,985	49,134	49,886	50,864
Austin County, Texas	30,168	30,131	30,421	31,097
Bailey County, Texas	6,904	6,868	6,803	6,779
Bandera County, Texas	20,843	20,992	21,551	22,115
Bastrop County, Texas	97,218	98,046	102,166	106,188
Baylor County, Texas	3,465	3,461	3,456	3,466
Bee County, Texas	31,061	31,049	30,828	30,394
Bell County, Texas	370,644	372,229	380,241	388,386
Bexar County, Texas	2,009,322	2,015,369	2,030,895	2,059,530
Blanco County, Texas	11,376	11,450	11,890	12,418
Borden County, Texas	628	641	621	585
Bosque County, Texas	18,226	18,245	18,495	18,697
Bowie County, Texas	92,903	92,924	92,291	92,035
Brazoria County, Texas	372,040	373,481	378,858	388,181
Brazos County, Texas	233,848	234,486	237,583	242,014
Brewster County, Texas	9,545	9,553	9,459	9,343

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Accessing Vintage 2021 Estimates

census.gov/programs-surveys/popest.html

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Population and Housing Unit Estimates Datasets

Datasets display population estimates totals and demographic characteristics. Datasets are in downloadable CSV format.

Population and Housing Unit Estimates Tables

Stats displayed in columns and rows with title, ID, notes, sources and release date. Many tables are in downloadable XLS, CSV and PDF file formats.

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Information on the Population and Housing Unit Estimates Special Tabulation Program.

All 2022 2021 2020 2019 More

2022

Dataset

City and Town Population Totals: 2020-2022

This page features city and town population estimates totals for years 2020-2022.

Dataset

County Population Totals: 2020-2022

This page features county population estimates totals and components of change for years 2020-2022.

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Accessing Vintage 2021 Estimates (cont.)

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City and Town Population Totals: 2020-2022

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This page features files containing city and town population for years 2020 to 2022. For the most recent data available, please refer to the Vintage 2022 data. If estimates featuring other demographic or geographic detail are needed and not yet available from Vintage 2022, please refer to the Vintage 2021 data for a completed, consistent set of estimates.

Vintage 2022

Vintage 2021

Related Information

- Glossary
- Population and Housing Unit Estimates Tables

Vintage 2022

City and Town Population

Incorporated Places and Minor Civil Divisions

Methodology [< 1.0 MB]

Tables

Places of 50,000 or More

- Annual Estimates of the Resident Population for Incorporated Places of 50,000 or More, Ranked by July 1, 2022 Population: April 1, 2020 to July 1, 2022 (SUB-IP-EST2022-ANNRNK) [< 1.0 MB]
- Cumulative Estimates of Resident Population Change for Incorporated Places of 50,000 or More in 2020, Ranked by Percent Change: April 1, 2020 to July 1, 2022 (SUB-IP-EST2022-CUMCHG) [< 1.0 MB]
- Annual Estimates of Resident Population Change for Incorporated Places of 50,000 or More in 2020, Ranked by Percent Change: July 1, 2020 to July 1, 2022 (SUB-IP-EST2022-ANNCHG) [< 1.0 MB]

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Accessing Vintage 2021 Estimates (cont.)

Datasets

Incorporated Places and Minor Civil Divisions Datasets: Subcounty Resident Population Estimates: April 1, 2020 to July 1, 2021 (SUB-EST2021)

File Layout [< 1.0 MB]

Annual Estimates: April 1, 2020 to July 1, 2021 (SUB-EST2021)

United States	Kansas	North Carolina
Alabama	Kentucky	North Dakota
Alaska	Louisiana	Ohio
Arizona	Maine	Oklahoma
Arkansas	Maryland	Oregon
California	Massachusetts	Pennsylvania
Colorado	Michigan	Rhode Island
Connecticut	Minnesota	South Carolina
Delaware	Mississippi	South Dakota
District of Columbia	Missouri	Tennessee
Florida	Montana	Texas
Georgia	Nebraska	Utah
Hawaii	Nevada	Vermont
Idaho	New Hampshire	Virginia
Illinois	New Jersey	Washington
Indiana	New Mexico	West Virginia
Iowa	New York	Wisconsin
		Wyoming

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Accessing Vintage 2021 Estimates (cont.)

SUB-EST2021: Subcounty Resident Population Estimates: April 1, 2020 to July 1, 2021

File: 7/1/2021 Subcounty Population Estimates

Source: U.S. Census Bureau, Population Division
Release date: May 2022

Sort order of observations: STATE, COUNTY, and COUSUB

Data fields (in order of appearance):

VARIABLE	DESCRIPTION
SUMLEV	Geographic summary level
STATE	State FIPS code
COUNTY	County FIPS code
PLACE	Place FIPS code
COUSUB	Minor Civil Division FIPS code
CONCIT	Consolidated city FIPS code
PRIMGEO_FLAG	Primitive Geography Flag (1=Yes; 0=No)
FUNCSTAT	Functional Status Code
NAME	Area name
STNAME	State name
ESTIMATESBASE2020	4/1/2020 resident population estimates base
POPESTIMATE2020	7/1/2020 resident population estimate

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Accessing Vintage 2021 Estimates (cont.)

SUMLEV	STATE	COUNTY	PLACE	COUSUB	CONCIT	PRIMGEO_	FUNCSTAT	NAME	STNAME	ESTIMATESBASE2020	POPESTIMATE2020	POPESTIMATE2021
40	48	0	0	0	0	0	A	Texas	Texas	29145505	29217653	29527941
162	48	0	100	0	0	0	A	Abbott city	Texas	353	354	357
162	48	0	160	0	0	0	A	Abernathy city	Texas	2831	2825	2804
162	48	0	1000	0	0	0	A	Abilene city	Texas	124797	124954	125070
162	48	0	1108	0	0	0	A	Ackerly city	Texas	266	266	265
162	48	0	1240	0	0	0	A	Addison town	Texas	16677	16679	17012
162	48	0	1324	0	0	0	A	Adrian city	Texas	132	133	129
162	48	0	1396	0	0	0	A	Agua Dulce city	Texas	695	694	688
162	48	0	1576	0	0	0	A	Alamo city	Texas	19521	19658	20017
162	48	0	1600	0	0	0	A	Alamo Heights city	Texas	7362	7372	7392
162	48	0	1636	0	0	0	A	Alba town	Texas	470	473	483
162	48	0	1648	0	0	0	A	Albany city	Texas	1865	1874	1927
162	48	0	1744	0	0	0	A	Aledo city	Texas	4869	4942	5380
162	48	0	1852	0	0	0	A	Alice city	Texas	17844	17795	17761
162	48	0	1924	0	0	0	A	Allen city	Texas	104786	105628	106874
162	48	0	2044	0	0	0	A	Alma town	Texas	375	378	392
162	48	0	2104	0	0	0	A	Alpine city	Texas	5858	5874	5815
162	48	0	2188	0	0	0	A	Alto town	Texas	1022	1022	1033
162	48	0	2212	0	0	0	A	Alton city	Texas	18220	18344	18860
162	48	0	2260	0	0	0	A	Alvarado city	Texas	4721	4746	5111
162	48	0	2272	0	0	0	A	Alvin city	Texas	27110	27184	27576
162	48	0	2284	0	0	0	A	Alvord town	Texas	1357	1362	1433
162	48	0	3000	0	0	0	A	Amarillo city	Texas	200904	200897	201234
162	48	0	3072	0	0	0	A	Ames city	Texas	939	948	1009
162	48	0	3084	0	0	0	A	Amherst city	Texas	672	669	664
162	48	0	3144	0	0	0	A	Anahuac city	Texas	1971	1970	1962

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Accuracy of the Estimates

Average Absolute Percent Differences between Resident Population Estimates and Census Counts: April 1, 2010 and 2020				
2010	Nation 0.1%	States 1.0%	Counties 3.1%	Cities and Towns 11.0%
2020	Nation 0.6%	States 1.2%	Counties 2.9%	Cities and Towns TBD

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Accessing Intercensal Estimates

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Population and Housing Unit Estimates Tables

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Additional estimates files may also be accessed via the Census Bureau application programming interface (API).

Information on the Population and Housing Unit Estimates Special Tabulation Program is available here.

All **2021** 2020 2019 2018 2017 2016 2015 MORE

2010
2009
2008
2007

2021

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City and Town Population Totals: 2020-2021

This page features Vintage 2021 population estimates totals.

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Accessing Intercensal Estimates (cont.)

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2008

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County Intercensal Tables: 2000-2010
These tables feature 2000-2010 intercensal estimates of population.

TABLE
Housing Units Intercensal Tables: 2000-2010
These tables feature 2000-2010 intercensal estimates of housing units.

TABLE
National Intercensal Tables: 2000-2010
These tables feature 2000-2010 intercensal estimates of population by age, sex, race, and Hispanic origin.

TABLE
Puerto Rico Intercensal Tables: 2000-2010
These tables feature 2000-2010 intercensal estimates of population by age and sex.

TABLE
State Intercensal Tables: 2000-2010
These tables feature 2000-2010 intercensal estimates of population by age, sex, race, and Hispanic origin.

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Accessing Intercensal Estimates (cont.)

Census.gov / State Intercensal Tables: 2000-2010

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State Intercensal Tables: 2000-2010

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2000-2010 Intercensal Estimates

Methodology [<1.0 MB]

Related Information

DATASET
State Intercensal Datasets: 2000-2010

Population and Housing Unit Estimates Tables

Annual Population Estimates

Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010 [<1.0 MB]

Additional file formats are available on the FTP archive

Sex and Age

Intercensal Estimates of the Resident Population by Sex and Age for States: April 1, 2000 to July 1, 2010

Alabama	Kentucky	North Dakota
Alaska	Louisiana	Ohio
Arizona	Maine	Oklahoma
Arkansas	Maryland	Oregon
California	Massachusetts	Pennsylvania
Colorado	Michigan	Rhode Island
Connecticut	Minnesota	South Carolina
Delaware	Mississippi	South Dakota
District of Columbia	Missouri	Tennessee
Florida	Montana	Texas
Georgia	Nebraska	Utah
Hawaii	Nevada	Vermont
Idaho	New Hampshire	Virginia
Illinois	New Jersey	Washington

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Accessing Intercensal Estimates (cont.)

Table 2. Intercensal Estimates of the Resident Population by Sex and Age for Texas: April 1, 2000 to July 1, 2010													
Sex and Age	April 1, 2000[1]	Intercensal Estimates (as of July 1)										April 1, 2010[2]	July 1, 2010[3]
		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009		
BOTH SEXES	20,851,028	20,944,499	21,319,622	21,690,325	22,030,931	22,394,023	22,778,123	23,359,580	23,831,983	24,309,039	24,801,761	25,145,561	25,257,114
Under 5 years	1,624,636	1,628,590	1,669,530	1,711,032	1,753,005	1,795,044	1,827,344	1,863,053	1,892,086	1,917,615	1,929,162	1,928,473	1,933,297
5 to 9 years	1,654,192	1,650,665	1,645,825	1,639,044	1,636,310	1,637,863	1,657,778	1,718,006	1,769,005	1,823,831	1,888,686	1,928,234	1,938,165
10 to 14 years	1,631,210	1,644,416	1,671,910	1,701,750	1,726,691	1,745,932	1,751,626	1,782,260	1,799,309	1,821,807	1,851,192	1,881,883	1,889,612
15 to 19 years	1,636,250	1,644,928	1,663,627	1,679,252	1,693,677	1,714,959	1,741,642	1,783,634	1,816,469	1,846,558	1,874,569	1,883,124	1,882,428
20 to 24 years	1,539,417	1,551,447	1,612,414	1,669,665	1,710,247	1,735,056	1,746,909	1,763,694	1,766,141	1,777,634	1,797,858	1,817,079	1,828,519
25 to 29 years	1,591,497	1,587,889	1,575,256	1,576,140	1,577,842	1,602,338	1,642,397	1,704,518	1,758,363	1,810,114	1,841,744	1,853,039	1,859,248
30 to 34 years	1,570,541	1,574,951	1,611,160	1,643,508	1,657,013	1,660,785	1,655,297	1,657,359	1,667,606	1,685,788	1,724,325	1,760,434	1,773,180
35 to 39 years	1,688,860	1,689,146	1,666,534	1,639,570	1,613,767	1,604,475	1,622,448	1,672,898	1,718,605	1,748,350	1,763,360	1,763,587	1,761,840
40 to 44 years	1,633,346	1,643,072	1,676,872	1,693,467	1,707,795	1,721,497	1,714,172	1,707,389	1,691,301	1,677,080	1,678,530	1,694,795	1,700,470
45 to 49 years	1,416,180	1,427,642	1,474,710	1,529,514	1,572,899	1,609,730	1,647,970	1,693,586	1,716,965	1,739,074	1,760,915	1,760,467	1,761,778
50 to 54 years	1,194,959	1,210,389	1,279,357	1,294,259	1,334,425	1,380,116	1,429,800	1,486,845	1,547,906	1,597,310	1,640,523	1,674,869	1,685,155
55 to 59 years	896,463	904,193	937,485	1,020,576	1,077,512	1,135,400	1,200,705	1,276,178	1,295,273	1,336,272	1,384,460	1,422,924	1,434,339
60 to 64 years	701,520	706,128	728,277	759,080	799,788	841,643	882,221	920,509	1,004,857	1,063,618	1,123,692	1,174,767	1,189,350
65 to 69 years	610,228	611,283	619,156	627,669	642,963	660,214	675,087	704,964	736,496	779,327	822,427	853,100	860,441
70 to 74 years	532,006	533,653	536,873	539,747	543,315	547,091	555,297	568,948	577,962	593,305	609,823	619,156	623,702
75 to 79 years	423,890	426,356	431,577	435,031	439,310	442,498	450,690	459,482	462,602	466,994	471,366	477,245	478,506
80 to 84 years	267,905	270,589	280,646	292,483	301,753	313,306	320,860	329,789	334,631	338,651	342,362	347,206	348,824
85 years and over	237,928	239,162	238,413	238,538	242,619	246,076	255,880	266,468	276,406	285,711	296,767	305,179	308,260
Under 18 years	5,886,808	5,906,301	5,980,187	6,060,372	6,132,980	6,208,259	6,290,970	6,446,798	6,565,872	6,675,917	6,792,907	6,865,824	6,888,687
Under 5 years	1,624,636	1,628,590	1,669,530	1,711,032	1,753,005	1,795,044	1,827,344	1,863,053	1,892,086	1,917,615	1,929,162	1,928,473	1,933,297
5 to 13 years	2,960,845	2,969,955	2,989,145	3,007,821	3,024,385	3,030,578	3,057,614	3,140,184	3,206,820	3,281,621	3,373,720	3,438,990	3,457,637
14 to 17 years	1,301,327	1,307,756	1,321,512	1,341,519	1,355,590	1,382,637	1,406,012	1,443,561	1,466,966	1,476,681	1,490,025	1,498,361	1,497,753
18 to 64 years	12,892,263	12,957,155	13,232,770	13,496,485	13,727,991	13,976,579	14,229,339	14,583,131	14,878,014	15,169,134	15,466,109	15,677,851	15,748,694
18 to 24 years	2,198,897	2,213,745	2,283,119	2,340,371	2,386,950	2,420,595	2,434,329	2,463,849	2,477,138	2,511,528	2,548,560	2,572,969	2,583,334
25 to 44 years	6,484,244	6,495,058	6,529,822	6,552,685	6,556,417	6,589,095	6,634,314	6,742,164	6,835,875	6,921,332	7,007,959	7,071,855	7,094,738
45 to 64 years	4,209,122	4,248,352	4,419,829	4,603,429	4,784,624	4,966,889	5,160,696	5,377,118	5,565,001	5,736,274	5,909,590	6,033,027	6,070,622
65 years and over	2,071,957	2,081,043	2,106,665	2,133,468	2,169,960	2,209,185	2,257,814	2,329,651	2,388,097	2,463,988	2,542,745	2,601,886	2,619,733
16 years and over	15,617,264	15,692,904	16,002,815	16,305,109	16,577,217	16,871,755	17,182,599	17,635,487	18,004,716	18,377,285	18,761,201	19,035,255	19,122,836
18 years and over	14,964,220	15,038,198	15,339,435	15,629,953	15,897,951	16,185,764	16,487,153	16,912,782	17,266,111	17,633,122	18,008,854	18,279,737	18,368,427
15 to 44 years	9,659,911	9,691,433	9,805,863	9,901,602	9,960,341	10,039,110	10,122,865	10,289,492	10,418,485	10,545,524	10,680,386	10,772,058	10,805,685
Median age (years)	32.3	32.4	32.5	32.6	32.8	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.6

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Where to Learn More About Estimates and Projections

- **Coordination, Dissemination, & Outreach Branch (301-763-2110/pop.cdob@census.gov)**
  - Catalogue of estimates and projections products
  - Product release schedule
  - Special tabulations
  - Website questions
- **Population Estimates Branch**
  - Estimates of total population and components of change
  - Estimates of population by age, sex, race, and Hispanic origin
  - Estimates of military and group quarters populations
- **International Migration Branch**
  - Estimates of international migration
  - Puerto Rico estimates

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Where to Learn More About Estimates and Projections (cont.)

- **Local Government Estimates & Migration Processing Branch**
  - Estimates of population for subcounty places (cities and towns)
  - Estimates of housing units
  - Estimates of domestic migration
  - The Population Estimates Challenge Program (pop.challenge@census.gov)
  - Special Census information
- **Population Evaluation, Analysis, & Projections Branch**
  - Projections of population and components of change for the U.S.
  - Demographic Analysis
  - Evaluation Estimates and Modified Race research
- **Base Evaluation and Research Team (pop.bert@census.gov)**
  - Changes/improvements to the estimates base
  - Feasibility of taking coverage measures from the 2020 Demographic Analysis, 2020 Post-Enumeration Survey, and other administrative records into account in the development of the official population estimates

United States Census Bureau

For More Information Contact

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Questions

Thank You!

United States Census Bureau