

2017-2021 American Community Survey (ACS) 5-Year Estimates

Pre-Release Webinar

December 1, 2022

Webinar Recording and Materials

census.gov/data/academy/webinars/2022/2017-2021-acs-pre-release-webinar.html



This webinar is being recorded. The recording will be available after the webinar.

The American Community Survey Press Kit and QR Codes

Scan QR codes
throughout the
webinar to access
resources



Press kit and slides are available at

<https://www.census.gov/newsroom/press-kits/2022/acs-5-year.html>

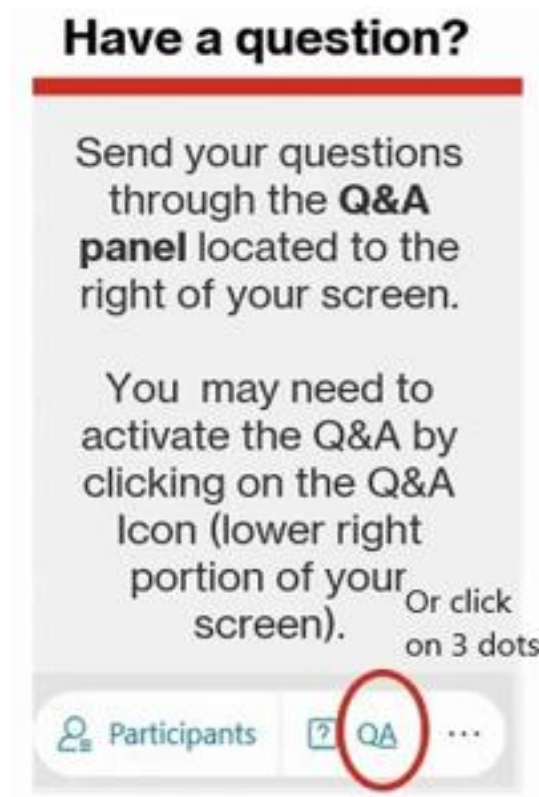
The American Community Survey

WebEx Q&A Feature

Have a question?

Send your questions through the **Q&A panel** located to the right of your screen.

You may need to activate the Q&A by clicking on the Q&A icon (lower right portion of your screen). Or click on 3 dots



The American Community Survey

Speakers

Host

Jewel Jordan

Public Affairs Specialist

Public Information Office

Presenter

Charles Gamble

Supervisory Survey Statistician

American Community Survey Office

The American Community Survey

Outline

- **Upcoming ACS Data Releases**
- ACS Basics
- Changes for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
- ACS Website & Resources Demo
- Q&A

The American Community Survey

2017-2021 ACS 5-Year Release Schedule



MEDIA EMBARGO: Tuesday, December 6, 2022

- Embargo at 10 a.m. (EST), includes 2017-2021 ACS 5-year estimates:

- 5-year data products

Press Kit: census.gov/newsroom/press-kits/2022/acs-5-year.html

PUBLIC RELEASE: Thursday, December 8, 2022

- Data released at 10 a.m. (EST), includes 2017-2021 ACS 5-year estimates:

- All 5-year data products

- Narrative Profiles

- ACS Data Tools: data.census.gov, API, QuickFacts, My Tribal Area

census.gov/newsroom/press-kits/2022/acs-5-year.html

The American Community Survey

Upcoming ACS Releases



2017-2021 ACS 5-Year Release

Data Products	Release
5-Year Public Use Microdata Sample (PUMS)	January 26, 2023
5-Year Variance Replicate Estimates	January 26, 2023
Selected Population Tables (SPT) and American Indian and Alaska Native Tables (AIANT)	No later than June 2023

The American Community Survey

Outline

- Upcoming ACS Data Releases
- **ACS Basics**
- Changes for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
- ACS Website & Resources Demo
- Q&A


The American Community Survey

The Foundation

The American Community Survey is on the leading edge of survey design, continuous improvement, and data quality


- The nation's most current, reliable, and accessible data source for local statistics on critical planning topics such as age, children, veterans, commuting, education, income, and employment
- Surveys **3.5 million** addresses and informs over **\$675 billion** of federal government spending each year
- Covers **40+ topics**, and supports over **300** evidence-based federal government uses
- Three key annual data releases:
 - 1-year Estimates (for large populations, geographies of 65,000+ population)
 - 1-year Supplemental Estimates (for small populations, geographies of 20,000+ population)
 - 5-year Estimates (for very small populations, geographies down to Census Tracts and Block Groups)

13191010


 **The American Community Survey**

Start Here


You have two ways to respond:

 Respond online today at:
<https://respond.census.gov/acs>

OR

 Complete this form and mail it back as soon as possible.

Your response is required by law.
The American Community Survey is conducted by the U.S. Census Bureau. This survey is one of only a few surveys for which all recipients are required by law to respond. The U.S. Census Bureau is required by law to protect your information.

 **If you need help or have questions about completing this form, please call 1-800-354-7271.**

Text Telephone (TTY):
Call 1-800-582-8330.

¿NECESITA AYUDA? Llame sin cargo alguno al **1-877-833-5625**.

For more information about the American Community Survey, visit our website at:
<https://www.census.gov/acs>

Please print the name and telephone number of the person who is filling out this form. We will only contact you if needed for official Census Bureau business.

Last Name

First Name MI

Area Code + Number -

How many people are living or staying at this address?


- **INCLUDE** everyone who is living or staying here for more than 2 months.
- **INCLUDE** yourself if you are living here for more than 2 months.
- **INCLUDE** anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.
- **DO NOT INCLUDE** anyone who is living somewhere else for more than 2 months, such as a college student living away or someone in the Armed Forces on deployment.

Number of people

Fill out pages 2 - 7 for everyone, including yourself, who is living or staying at this address for more than 2 months. Then complete the rest of the form.

FORM **ACS-1(2021)**
(05-18-2020)

OMB No. 0607-0810
OMB No. 0607-0936



The American Community Survey

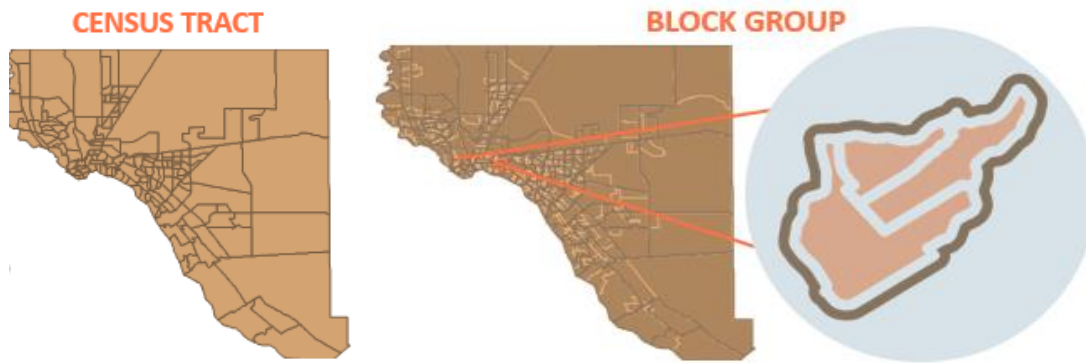
Content Overview

POPULATION		HOUSING
SOCIAL Ancestry Citizenship Citizen Voting Age Population Disability Educational Attainment Fertility Grandparents Language Marital Status Migration School Enrollment Veterans	DEMOGRAPHIC Age Hispanic Origin Race Relationship Sex ECONOMIC Class of Worker Commuting Employment Status Food Stamps (SNAP) Health Insurance Income Industry & Occupation Weeks Worked	Computer & Internet Use Costs (Mortgage, Rent, Taxes, Insurance) Heating Fuel Home Value Occupancy Plumbing/Kitchen Facilities Structure Tenure (Own/Rent) Utilities Vehicles Year Built Year Moved In

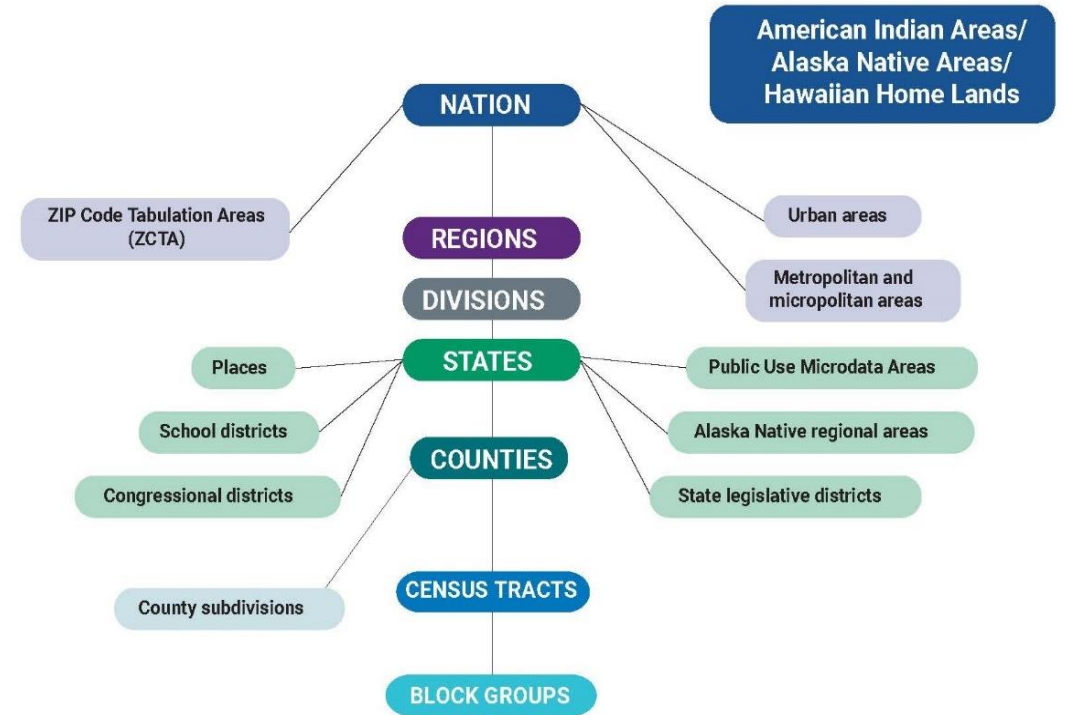
The American Community Survey 5-Year Geography



- Over 620,000 geographic areas
- All geographic areas including Census Tracts & Block Groups



- 87 different geography summary levels available



The American Community Survey

5-Year Estimates

- Data spans 60 months, weighted to produce estimates, and controlled for age, sex, race, and Hispanic origin
 - 5-year estimates are NOT an average of 1-year estimates
- Estimates are based on geographic boundaries of the last year in the 5-year period (e.g., 2021)
- Dollar-value estimates are inflation adjusted to the most recent year for the period

The American Community Survey

When to Use 5-Year Estimates



When to Use 5-Year Estimates:

- No 1-year estimate is available
- Margins of error for 1-year estimates are larger than desired
- Analyzing data for small population groups
- Comparing various geographies when one or more of them do not receive 1-year estimates

census.gov/programs-surveys/acs/guidance/estimates.html

The American Community Survey

Comparing 5-Year Estimates



Comparing 5-Year Estimates:

- Only compare non-overlapping periods (e.g., 2017-2021 and 2012-2016)
- Only compare 5-year estimates to 5-year, not to 1-year
- Comparing across geographies and/or subpopulations
- Recommended to compare percentages, means, medians and rates instead of count totals (if possible)

census.gov/programs-surveys/acs/guidance/comparing-acs-data/2021.html

The American Community Survey

Introduction to the American Community Survey



Introduction to the American Community Survey (ACS)

August 24, 2022

Ryan Ricciardi
American Community Survey Office

Slides are available at <https://www.census.gov/data/academy/webinars/2022/introduction-to-the-american-community-survey.html>

This webinar is being recorded. The recording will be available after the webinar.



The American Community Survey

Outline

- Upcoming ACS Data Releases
- ACS Basics
- **Updates for 2017-2021 ACS 5-Year Release**
- How to Access ACS Data
- ACS Website & Resources Demo
- Q&A

The American Community Survey

Population Controls for the ACS

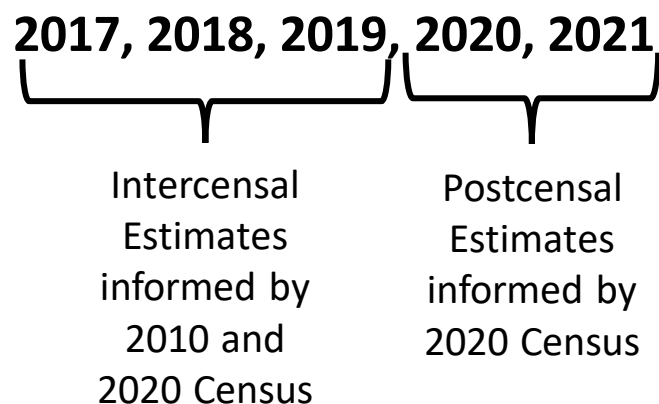
- ACS data are controlled so that the number of housing units and people in certain categories are consistent with the Census Bureau's official estimates from the Population Estimates Program.
- The population controls for the ACS 5-year product are the average of the population estimates across the 5-year period.
- In most years, the ACS simply uses the latest release of postcensal estimates, which are produced for the most recent census forward, for each of the five years.
- If the period straddles a decennial year then the intercensal estimates are used for years prior to the decennial and the postcensal estimates are used for the decennial year forward.

The American Community Survey

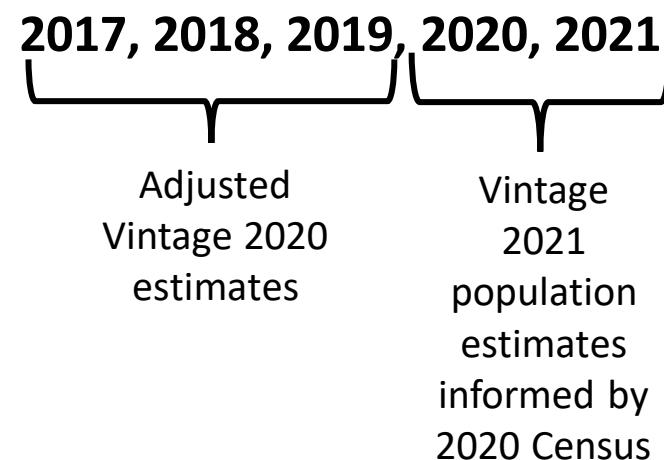
Population Controls for the 2017-2021 ACS 5-Year

- Due to delays in the 2020 Census processing, the 2010 to 2020 Intercensal Estimates were not available for the 2017-2021 ACS 5-year.
- Our solution was to bridge the 2017-2019 population estimates to form a consistent time series with 2020 and 2021.
- This process made the population estimates used as controls for the 2017-2021 ACS 5-year generally consistent with the 2020 Census.

What we planned to do:



What we did:



The American Community Survey

New Tables

Table ID	Title
Poverty	
B17101	Poverty Status In The Past 12 Months Of People In Housing Units
Housing	
B25132	Monthly Electricity Costs
B25133	Monthly Gas Costs
B25134	Annual Water And Sewer Costs
B25135	Annual Other Fuel Costs

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.html

The American Community Survey

Modified Tables

Table ID	Title
Food Stamps	
S2201	Food Stamps/Supplemental Nutrition Assistance Program (SNAP)
Foreign-Born Population	
B05015	Place of Birth By Year For The Foreign-Born Population
Mortgage Status	
B25081	Mortgage Status
S2506	Financial Characteristics For Housing Units With A Mortgage
Poverty	
S1701	Poverty Status In the Past 12 Months

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.html

The American Community Survey

Modified Tables

Table ID	Title
Income	
CP03	Comparative Economic Characteristics
Housing	
CP04	Comparative Housing Characteristics

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.html

The American Community Survey

2017-2021 5-Year Updates



// [Census.gov](#) / [American Community Survey \(ACS\)](#) / [Technical Documentation](#) / [Table & Geography Changes](#) / [2021 Table & Geography Changes](#)

Within Technical Documentation

Code Lists, Definitions, and Accuracy

Data Suppression

Errata Notes

Table & Geography Changes

Table Shells and Table List

User Notes

Share [f](#) [t](#) [in](#)
Facebook Twitter LinkedIn

2021 Table & Geography Changes

Table Changes

- 2021 ACS 1-year Estimates [▶](#)
- 2021 ACS 1-year Supplemental Estimates [▶](#)
- 2017-2021 ACS 5-year Estimates [▶](#)

Join the ACS Data Users Group

Table Changes:

- New
- Modified
- Deleted

Geography Changes:

- New
- Deleted
- Name & GEOID changes

Highlight: ZCTAs updated with 2020 Census Boundaries

census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.html

The American Community Survey

Outline

- Upcoming ACS Data Releases
- ACS Basics
- Changes for 2017-2021 ACS 5-Year Release
- **How to Access ACS Data**
- ACS Website & Resources Demo
- Q&A

The American Community Survey

5-Year Data Products



Data Profiles (DP) - 5

- Selected Social, Economic, Housing, Demographic
- Selected Social Characteristics - Puerto Rico

Comparison Profiles (CP) - 5

- Comparative Social, Economic, Housing, Demographic
- Comparative Social Characteristics – Puerto Rico
- 2017-2021 and 2012-2016

Subject Tables (S) - 83

Detailed Tables (B or C) - 1,145

Narrative Profiles

The American Community Survey

data.census.gov



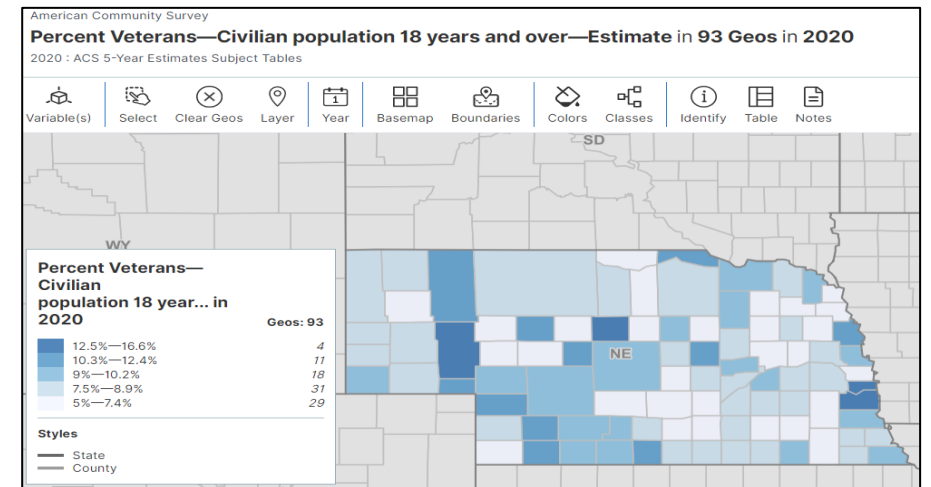
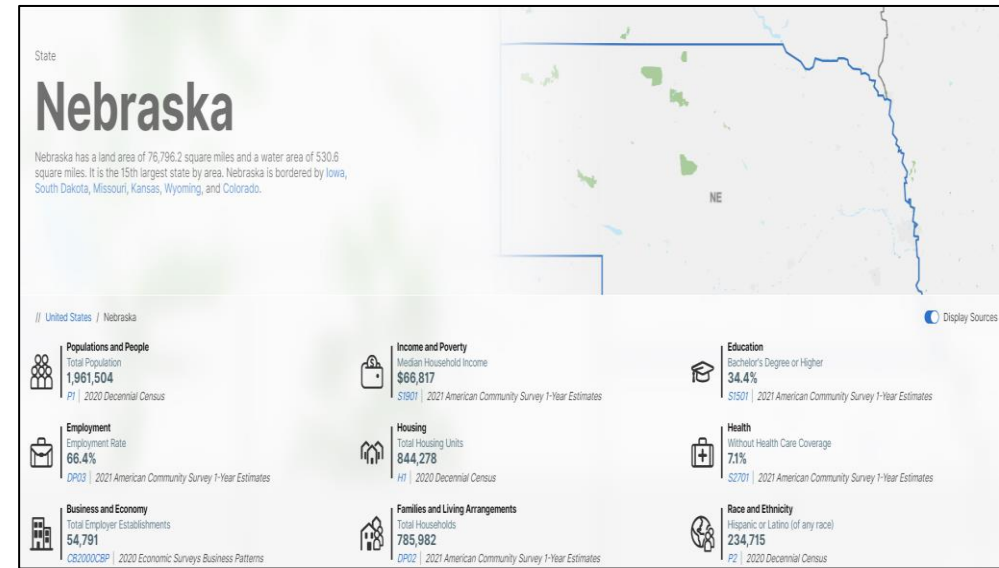
Explore Census Data

Learn about America's People, Places, and Economy

Find Tables, Maps, and more ...



[Help](#) [Feedback](#) [Advanced Search](#)



census.gov/data/what-is-data-census-gov.html

The American Community Survey

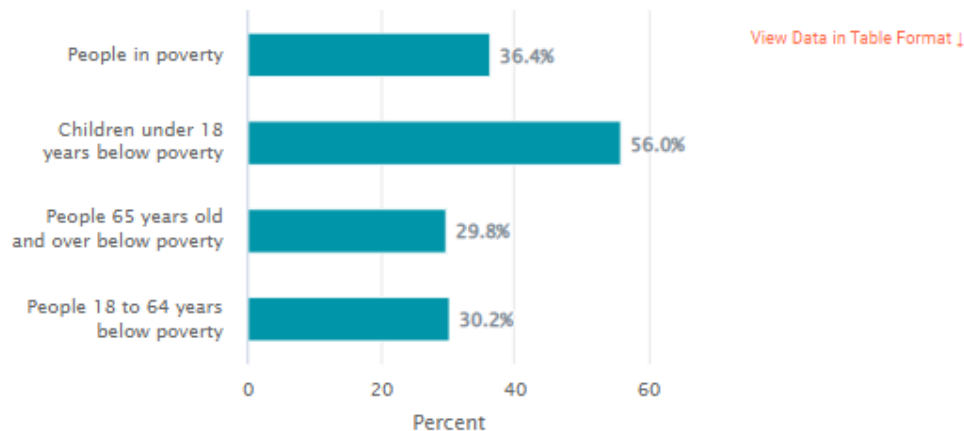
Narrative Profiles



Poverty and Participation in Government Programs

In 2016-2020, 36.4 percent of people were in poverty. An estimated 56.0 percent of children under 18 were below the poverty level, compared with 29.8 percent of people 65 years old and over. An estimated 30.2 percent of people 18 to 64 years were below the poverty level.

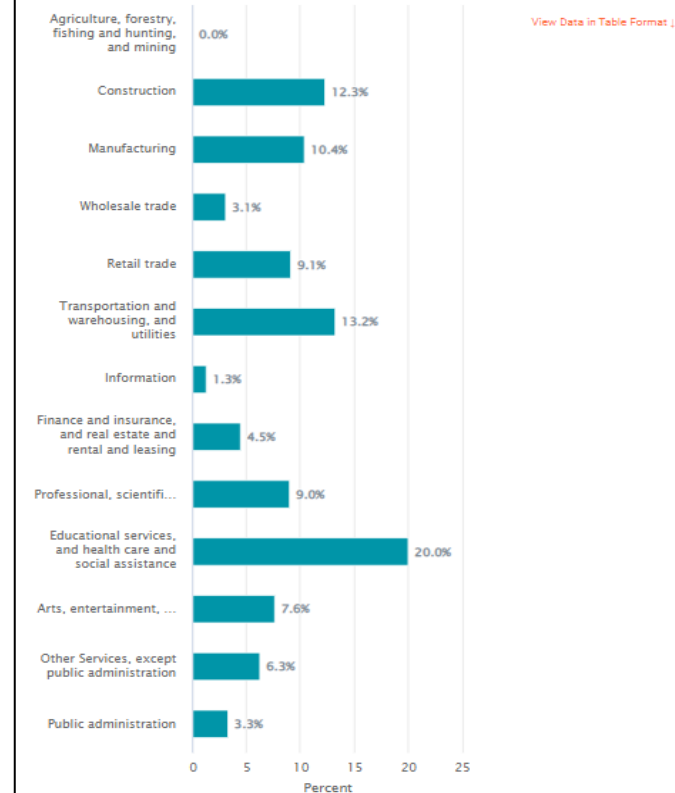
Poverty Rates in Tabor City town, North Carolina in 2016-2020



Industries

In 2016-2020, the civilian employed population 16 years and older in Tabor City town, North Carolina worked in the following industries:

Percent by Industry in Tabor City town, North Carolina in 2016-2020



The American Community Survey Summary File



- Two formats available for 2021 release:
 - **Table-Based** (new format; recommended)
 - **Sequence-Based** (original format)
- Table-Based only format for 2022-beyond releases.
- Table-Based groups estimates and MOE by Table ID
 - File for each table containing data for all geographies
- Complexity of the Summary File reduced with Table-Based format
- Download of large number of Detailed Tables

The screenshot shows the 'ACS Summary File' webpage. On the left is a navigation menu with items like 'Within Data', 'Custom Tables', 'Data Tables', 'Data Tools', 'Data via API', 'Data via FTP', 'Equal Employment Opportunity (EEO)', 'Experimental Data', 'Race/Ethnicity and American Indian & Alaska Native', 'Summary File', and 'Variance Replicate Estimate Tables'. The main content area has the title 'ACS Summary File' and social media share buttons. Below that is a paragraph describing the ACS Summary File as a unique data product. To the right of this paragraph is a 'Related Information' section with a link to 'ACS Summary File Sequence-Based Format' circled in red. Further down, there are sections for 'Table-Based Format' and 'Changes for the 2021 Data Release'. At the bottom, there are navigation tabs for 'Getting Started', '2021', '2020', '2019', '2018', and '2017 To 2005'. A 'Respond to the ACS Learn how' button is also visible.

census.gov/programs-surveys/acs/data/summary-file.html

The American Community Survey

Application Programming Interface (API)



- Enables access to Census Bureau Data for use in programs/applications
- Presents data in standardized way
 - Standardized across multiple datasets = easier learning curve
- Variables used in raw format creating layout of user's choice
- API includes ACS 1-year & 5-year datasets, and Supplemental Data
 - Updated on release day, **December 8th**

census.gov/developers
census.gov/programs-surveys/acs/data/data-via-api.html

The American Community Survey Data Tool Updates



QuickFacts United States What's New & FAQs >

QuickFacts provides statistics for all states and counties, and for cities and towns with a population of 5,000 or more.

Enter state, county, city, town, or zip code -- Select a fact --

Dashboard - United States

Population Estimates, July 1 2021, (V2021)

All Topics United States

Population Estimates, July 1 2021, (V2021) ▲ 331,893,745

PEOPLE

Population

Population Estimates, July 1 2021, (V2021)	▲ 331,893,745
Population estimates base, April 1, 2020, (V2021)	▲ 331,449,281
Population, percent change - April 1, 2020 (estimates base) to July 1, 2021, (V2021)	▲ 0.1%
Population, Census, April 1, 2020	331,449,281
Population, Census, April 1, 2010	308,745,538

Age and Sex

Persons under 5 years, percent	▲ 5.7%
Persons under 18 years, percent	▲ 22.2%
Persons 65 years and over, percent	▲ 16.8%
Female persons, percent	▲ 50.5%

Race and Hispanic Origin

White alone, percent	▲ 75.8%
----------------------	---------

Census Business Builder PRIVACY ACT STATEMENT | FAQs | SEND FEEDBACK | HELP

Custom Industries: All Sectors | Total population | Variable not selected | 0 filters

Location Search: Fairfax County, Virginia

STATE METRO COUNTY CITY/TOWN ZIP CODE TRACT

Region View

Custom Region: PREBUILT REGIONS

Click edit to get started

CREATE REGION REPORT | EDIT REGION

Dashboard

Fairfax County, Virginia

Total population

1,149,439 ± n/a
Total population

n/a
Variable not selected

CREATE REPORT

Stats

\$128K Median household income	93% Percent high school degree or higher
32K All Employer establishments (Total)	69% Home ownership rate

County of Prince William, Fairfax County, VA, VGIN, Esri, HERE, Garmin, SafeGraph, FAO, MET/NASA, USGS, EPA, NPS

My Tribal Area

Enter name of Tribal Area

OR

1 Select a State

2

People Jobs Housing Economy Education

The Census Bureau collects data for the American Indian and Alaska Native (AIAN) population and publishes specific counts, estimates, and statistics. My Tribal Area gives you quick and easy access to selected statistics from the American Community Survey (ACS). The ACS provides detailed demographic, social, economic, and housing statistics every year for the nation's communities. My Tribal Area is powered by the Census Application Programming Interface (API).

Users should exercise caution when comparing 2016-2020 ACS 5-year estimates to other ACS estimates. For more information, please visit the 2020 ACS 5-year Comparison Guidance page.

Source: 2016-2020 American Community Survey 5-Year Estimates

U.S. Department of Commerce
U.S. Census Bureau
census.gov

POWERED BY
The American Community Survey

Glossary >



census.gov/programs-surveys/acs/data/data-tools-chart.html

The American Community Survey

Outline

- Upcoming ACS Data Releases
- ACS Basics
- Changes for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
- **ACS Website & Resources Demo**
- Q&A

The American Community Survey

Outline

- Upcoming ACS Data Releases
- ACS Basics
- Changes for 2017-2021 ACS 5-Year Release
- How to Access ACS Data
- ACS Website & Resources Demo
- **Q&A**



Questions?

Ask a Question:

- To ask a question, use the “**Raise Hand**” feature. You will be prompted to ask your question in the order you raised your hand.

Recording of today's webinar will be available in **Press Kit** and posted on Census Academy at: census.gov/data/academy/webinars.html

Press kit available at: census.gov/newsroom/press-kits/2022/acs-5-year.html

The American Community Survey

Data Tell Stories. Tell us Yours!



The screenshot shows the top navigation bar with categories: GEOGRAPHY (Maps, Products), LIBRARY (Infographics, Publications), DATA (Tools, Developers), and SURVEYS/PROGRAMS (Respond, Survey Data). The main heading is 'American Community Survey'. Below it is the section 'Share Your ACS Data Story' with the text: 'We want to hear about how you use American Community Survey (ACS) data! Did you or your organization use the ACS to make an important decision, hire someone, open/expand a business, etc? If so, we are eager to learn more about how you use ACS data in action. Share your story by completing the fields below to help us showcase the value of the ACS. Need help getting started? Check out featured examples from our current collection of ACS data stories.' A red asterisk indicates a required field. The form has three main sections: 'Your Story *' with the prompt 'Tell us how you use ACS data.' and a text input field; and 'Outcome *' with the prompt 'Tell us about any outcomes or decisions that you or your organization have made based on ACS data. For example: selecting a location for a \$250 million department store distribution center that brought 4,000 jobs to Denver, CO.' and another text input field.



Your story



Your data details



Your outcome



AMERICAN COMMUNITY SURVEY DATA USERS GROUP

- Purpose:
 - Improve understanding of the value and utility of ACS data.
 - Promote information sharing among data users about key ACS data issues and applications
- Membership is free and open to all interested ACS data users
- Webinars and special sessions at professional meetings planned
- Users group website and online community

- **Save the Date!**
 - ACS Data Users Conference: May 16-18th

acsdatacommunity.prb.org

The American Community Survey

Embargo



Tuesday, December 6th

- 2017-2021 ACS 5-year embargo begins at 10 a.m. EST

Embargo Area Press Kit

- Access the embargoed data
- Presentation slides and archived webinar
- News release
- Links to resources on census.gov/acs

The American Community Survey

For Further Information

Scan to Sign up for Email Alerts ->



Media

Public Information Office
pio@census.gov
301-763-3030

Non-Media

Customer Service Center
1-800-923-8282 or 301-763-INFO (4636)
ask.census.gov

Press Kit

[census.gov/newsroom/press-kits/2022/acs-5-year.html](https://www.census.gov/newsroom/press-kits/2022/acs-5-year.html)

Website

[census.gov/acs](https://www.census.gov/acs)

Source Us

U.S. Census Bureau, 2017-2021 American Community Survey, 5-year estimates

Data Dissemination and Training

- ✓ **Bring our data experts to you.**

Request a free data training for your organization.

- ✓ **Receive our Data Gems.**

These short “how-to” videos are an easy and quick way to increase your knowledge of Census data. Get them in your inbox!

- ✓ **Get access to our Courses.**

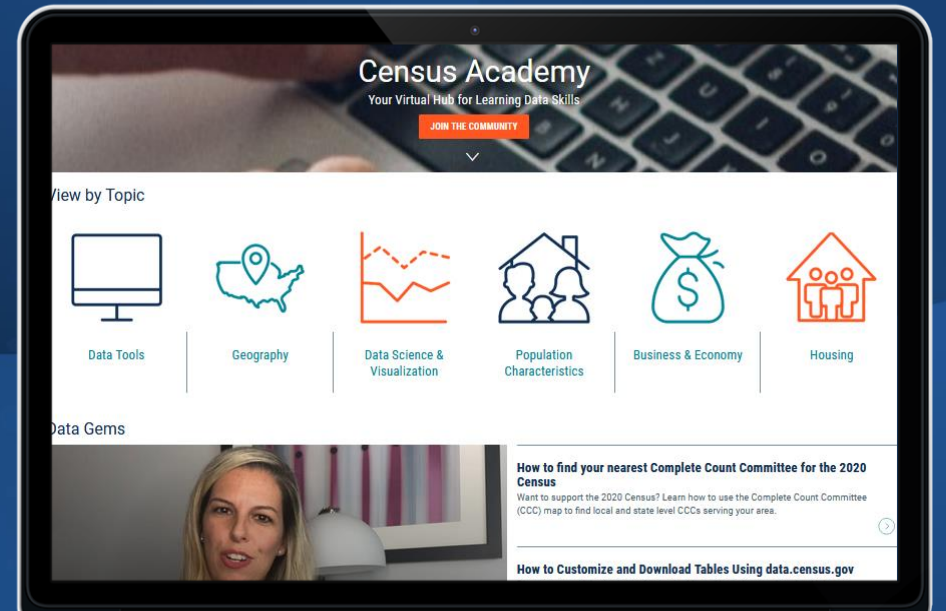
You will learn-at-your-own-pace with these video-tutorials designed for different skill levels.

- ✓ **Interact with our instructors via Webinars.**

Learn about our data releases and tools while attending these live virtual classes.



Census.gov/Academy



Contact us:

Census.askdata@census.gov

1-844-ASK-DATA

*Share your ideas and feedback at
census.academy@census.gov*

Please complete our brief evaluation
Tell us what we could improve and what we did well!

Link to evaluation in chat