Goldschmidt 2023: Economic Data Overview

U.S. Census Bureau

Presented by: Adam Grundy





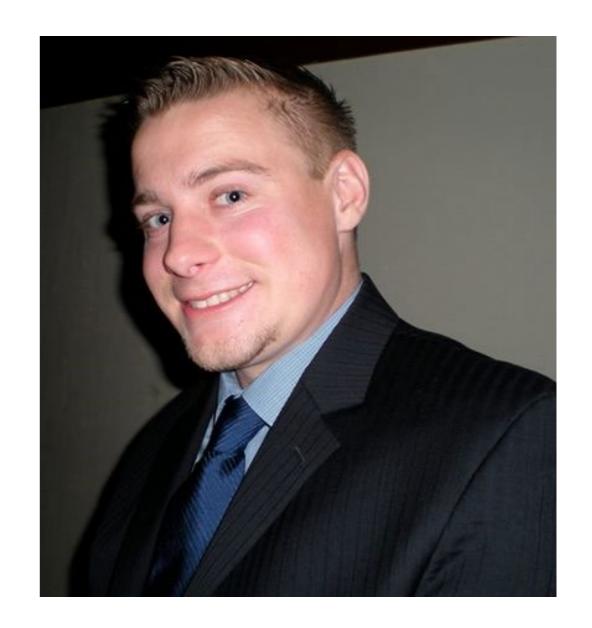
Meet Your Presenter

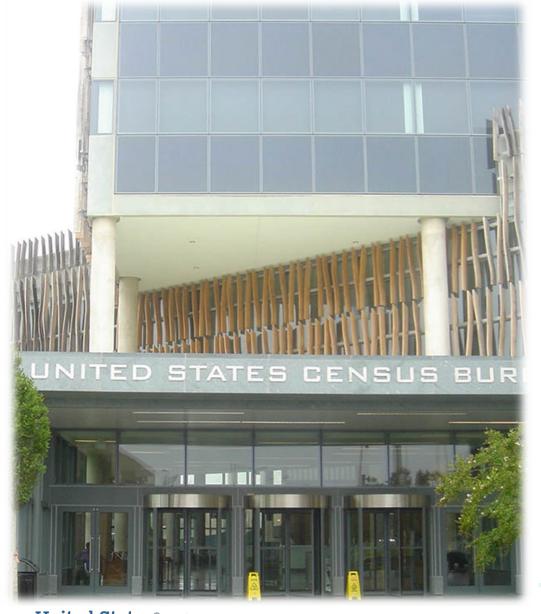
Adam Grundy worked in the Data User and Trade
Outreach Branch in the Economic Management Division
where he had taken on several leadership roles. Adam
developed an online calendar for the Economic
Directorate, participated in several key stakeholder
meetings for developing the Census Business Builder
data platform, and served as a valuable member of the
Data Outreach team for the Census Bureau.

Adam has written several articles for the America Counts series for Census.gov and continues to look for new and interesting ways to share ECON data products with the public.

Adam received a bachelor's degree in human studies and a certification in elementary education.







The U.S. Census Bureau

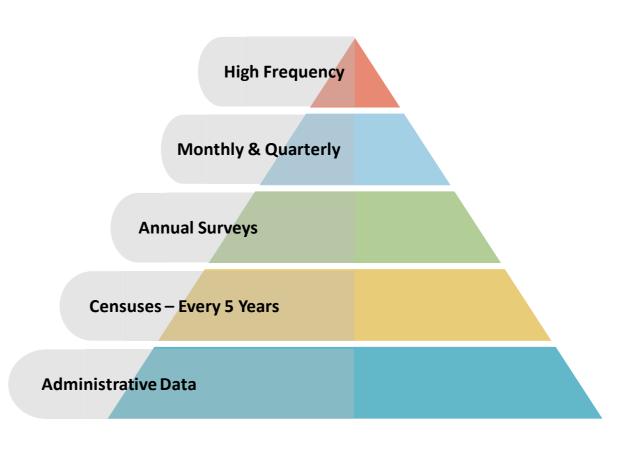
- The federal government's largest statistical agency part of the U.S. Department of Commerce.
- Conducts more than 130 surveys and programs each year and 3 censuses, including:
 - The Decennial Census the once-a-decade population and housing count.
 - **The Census of Governments** measurement of the nation's state and local government sector.
 - The Economic Census the official five-year measure of American business.



Programs

Census Bureau economic programs are a key source for official statistics:

- **NEW** High Frequency data
- Monthly and quarterly small sample surveys provide the most **TIMELY** data available
- Annual surveys have larger samples and provide the most up-to-date TREND data available
- Every 5 years, the Censuses measure all businesses and governments and provide the most **COMPREHENSIVE** data available
- Plus, **FOUNDATIONAL** administrative data from the Business Register to supplement or produce additional economic products





United States® The 2022 These programs set the standard for U.S. economic statistics, and are fueled by the data provided by businesses and governments

Where do these data come from?





County Business Patterns

This program covers Employer Businesses in the U.S.

Nonemployer Statistics

This program covers Nonemployer Businesses (self-employed persons) in the U.S.

Annual Business Survey

This survey covers Employer Businesses in the U.S. and includes business owner data.

Economic Census

The official five-year measure of American businesses providing comprehensive statistics at the national, state, and local levels.

The Economic Census

- Conducted every 5 years, it produces the most comprehensive economic data available.
- Data covers 19 economic sectors that encompass 950 NAICS industries, that span over 21,000 geographic areas
- Data includes number of establishments, products, revenue, employment and more
- The next Economic Census will be collected in 2023 with businesses reporting their 2022 year-end numbers.
- The Economic Census is conducted online, and response is mandatory.

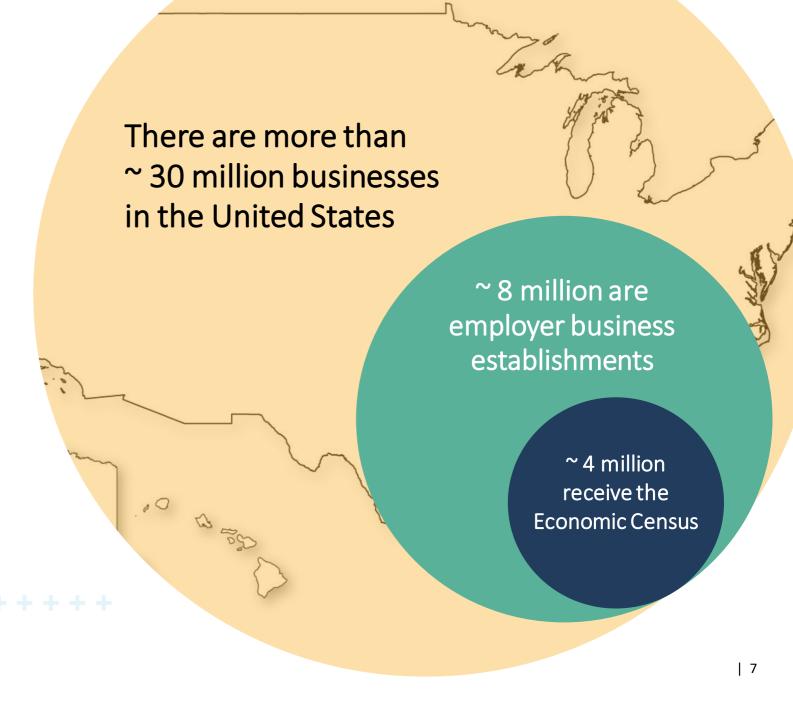




Most companies do not receive the Economic Census

- Only businesses with employees, and
- Only a sample of smaller businesses are required to respond

Economic Census website: https://www.census.gov/programssurveys/economic-census.html



New for 2022

- New Machine Learning searches in collection instrument
 - Ability to search for NAICS Industry
 - Ability to search for NAPCS Products and Services
 - Smarter, flexible instrument, ensuring respondents receive appropriate question set
- Scope and content updated
 - New content will capture data on emerging topics, for example
 - Use and acquisition of business technologies (such as robotics, 3D printing, and kiosks)
 - Telemedicine services
 - Cannabis
 - Expansion of scope to include Support Activities for Crop and Animal Production





2022 Economic Census Timeline





What is County Business Patterns?





- ✓ This program covers Employer Businesses in the U.S.
- ✓ Is published annually
 - ✓ Latest data available (as of February 2023) is for calendar year 2020
 - ✓ 2021 data are scheduled for release in 2023
- ✓ Includes statistics on the number of establishments, employment, and annual payroll for nearly every 2- thru 6-digit NAICS code
- ✓ Data are published at the national, state, metro area, county, congressional district, and ZIP Code levels
 - ✓ CBP also covers the 5 US territories
- ✓ Data are also shown by employment size of the establishment and by Legal Form of Organization
- ✓ Other facts about CBP:
 - ✓ See https://www.census.gov/programs-surveys/cbp.html for more information about this program

What is Nonemployer Statistics?



- This program covers Nonemployer Businesses (self-employed persons) in the U.S.
- Is published annually
 - Latest data available (as of February 2023)
 is for calendar year 2019
 - 2020 data are scheduled for release in 2023
- Includes statistics on the number of firms and revenue for most 2- thru 6-digit NAICS codes
- Data are published at the national, state, metro area, and county levels
 - NES does not cover the 5 US territories
- Data are also shown by revenue size of the firm and by Legal Form of Organization
- Other facts about NES:
 - See https://www.census.gov/programs-surveys/nonemployer-statistics.html for more information about this program



What is the Annual Business Survey?





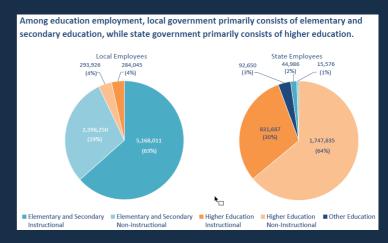
- This program covers Employer Businesses in the U.S.
- Is published annually
 - Latest data available (as of February 2023)
 is for calendar year 2020
 - 2021 data are scheduled for release in 2023.
- Includes statistics on the number of firms, employment, annual payroll, and sales, shipments, receipts, or revenue for nearly every 2- thru 6-digit NAICS code
- Data are published at the national, state, county, and place levels
 - Nation and state: full NAICS; County and place: just NAICS 00
 - ABS does not cover the 5 US territories
- Data are also shown by race, ethnicity, gender, and veteran status of the business owner and by other characteristics of the business and the owner
- Other facts about ABS:
 - See https://www.census.gov/programs-surveys/abs.html for more information

Public Sector (Governments)

- 5 surveys that provide economic statistics about state and local governments
- Serve as public-sector counterpart to private sector data
- Response is voluntary
- Virtually no confidentiality restriction data is public record
- Core Program Content
 - Organization and Structure
 - Government Employment
 - Government Finances
- Released on Excel files, and other Census tools







Business Trends and Outlook Survey (BTOS)





Small Business Pulse Survey (SBPS) Recap

The SBPS measured the effect of changing business conditions during the coronavirus pandemic. The SBPS complemented existing Census Bureau data by providing detailed, near real-time information on the challenges that small businesses face. The Census Bureau partnered with subject matter experts at other federal agencies for content.

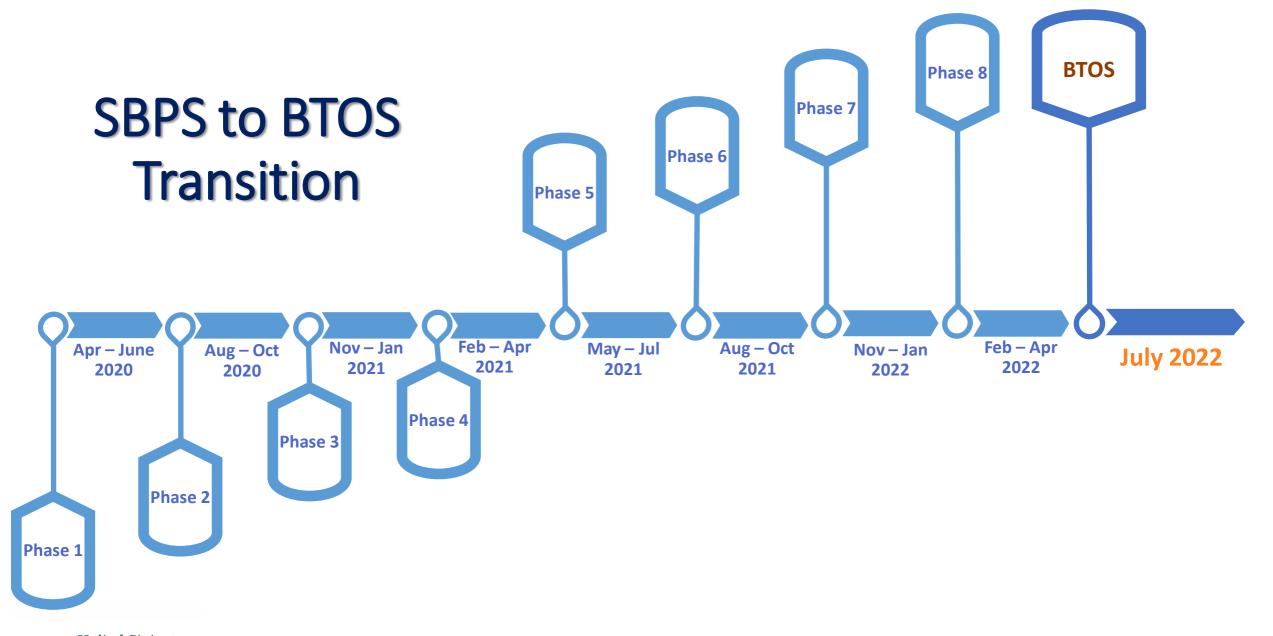














SMALL BUSINESS PULSE SURVEY

BUSINESS TRENDS AND OUTLOOK SURVEY (BTOS)

- SBPS initially created as response to the Coronavirus pandemic
- Concept to publication in 39 days

Goals:

Continue producing near real time data products

Produce economic pulse

To create BTOS:

- SBPS lessons learned
- Stakeholder feedback
- Leadership strategy

Business Trends and Outlook Survey (BTOS)

Frame

Sample Design

Content

Instrument

Timing

Data Products

IT

2020 Business Register // Contact Mgmt Table

Stratified systematic sample with strata defined by state and sector

Designed to capture economic norms, impacts of unforeseen events

Centurion

Ongoing 2-week data collection period and data publications

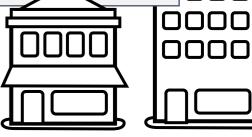
New indexes summarizing core concepts

HFP Admin









Methodology

- Initial target population for BTOS is all nonfarm, single-location employer businesses with receipts of \$1,000 or more that are in the United States, District of Columbia, and Puerto Rico
- Sample size to be 1.2M, split into six bi-weekly panels of 200K, representing
 5.8M single unit businesses of all sizes
- Proportional sample allocation is used (the same percentage of businesses is selected from each stratum)
- Once in the sample, businesses will be asked to respond to the survey once every twelve weeks



Data Collection

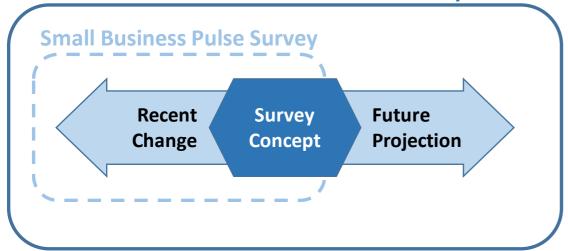
- Ongoing 2-week data collection periods
- Dual contact strategy for representative sample
 - Email vs mail collection
 - Pre-canvas effort to increase email address pool
 - Centralization in BR
- Conducted through online reporting tool, Centurion
- Began mid-July and first publication was October 13, 2022



Content

- Reuse SBPS content where possible
- External stakeholder feedback used to help prioritize content
- Expanded to include future projections for many concepts

Business Trends and Outlook Survey



Questionnaire Concepts						
Overall performance						
Revenue						
Employment						
Hours worked						
Hiring Difficulties						
Operating status						
Delivery time						
Supply chain impacts						
Demand						
Output prices						
Input prices						
Online platforms						
Forecast horizon						



- Legacy SBPS Concepts



Content



2 million Texas households without power as massive winter storm drives demand for electricity

BY MITCHELL FERMAN, SAMI SPARBER AND ELVIA LIMÓN UPDATED: FEB. 15, 2021



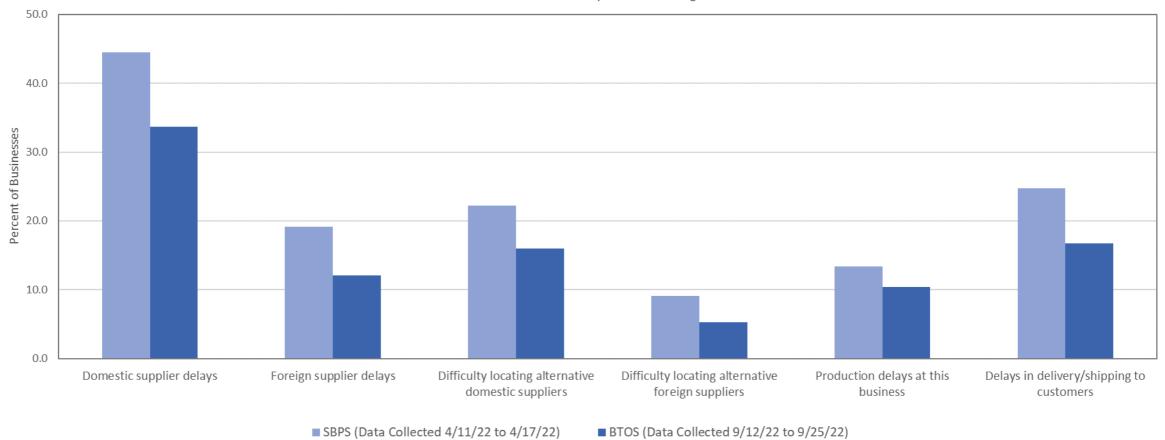


Miguel Gutierrez Jr./The Texas Tribune

Supply Chain Data

Supply Chain Impacts

Did this business have any of the following?





Data Products

Single Dimension:

- National Average
- State (D.C. and Puerto Rico)
- NAICS Sector
- Sub-sector (NAICS3)
- Top 25 MSA
- Employment Size

Multi-Dimension:

- State by Sector
- State by Employment Size
- Sector by Employment Size

	State	Sector	Sub-sector (NAICS3)	Top 25 MSA	Employment Size
State	x	x			x
Sector	х	х			х
Sub-sector (NAICS3)			Х		
Top 25 MSA				x	
Employment Size	Х	Х			х



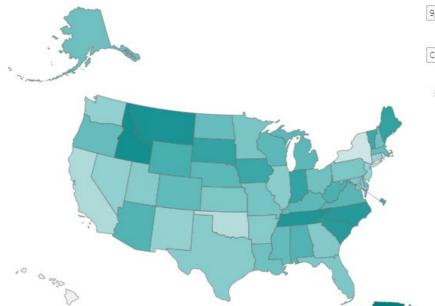
Interactive Data Viz

Business Trends and Outlook Survey - National Data



Current Performance by State





Collection Period

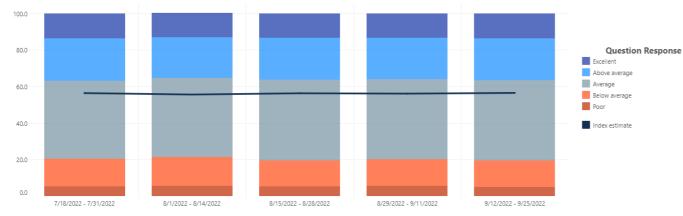
9/12/2022 - 9/25/2022

Index Selection

Current performance

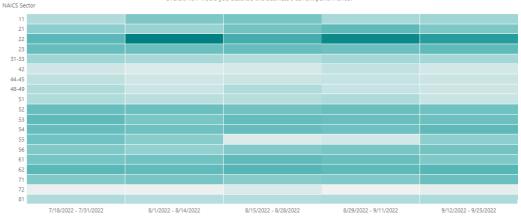
Index Estimate

1.4



Current Performance by Sector by Collection Period

Overall, how would you describe this business's current performance?





Index Selection

Current performance

Index Estimate

BTOS Resources – External Links

- BTOS Experimental Data Page
- BTOS Visualization and Downloads Page
- BTOS Viz on Interactive Gallery



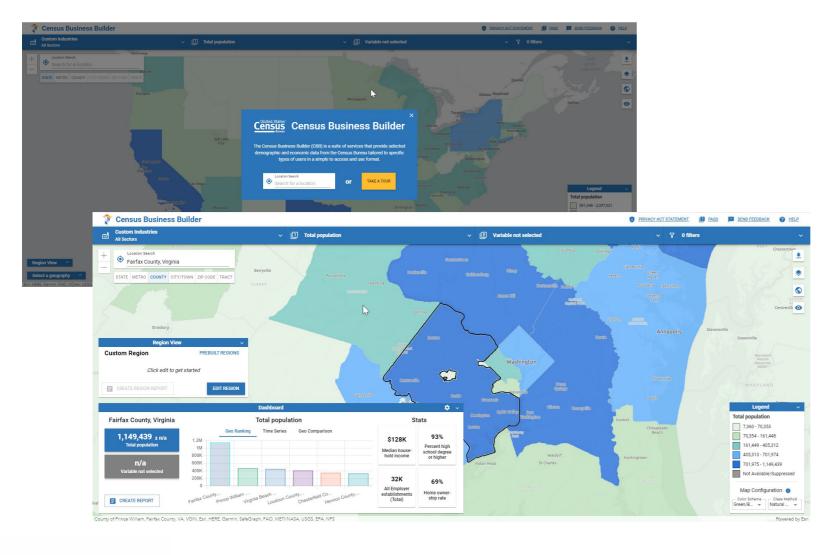
Data Tools in Action

Census Business Builder 5.0





Census Business Builder 5.0



Guiding Principles

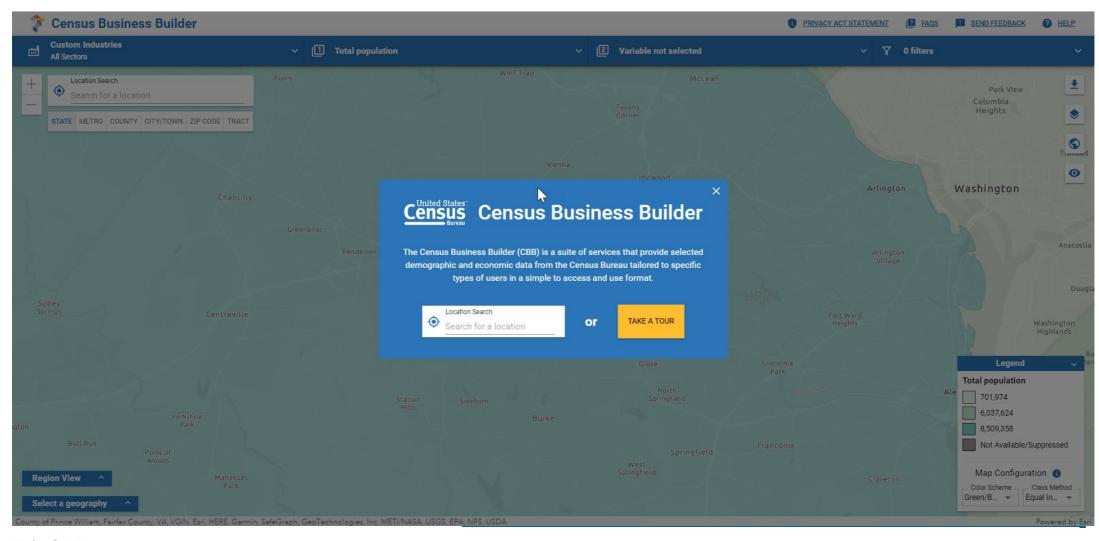
- Easy to use
- Customer focused
- Provide access to Census data and more
 - BLS, USDA, & third party
- Leverage existing Census investments
 - Esri, API
- Use latest technology
 - Cloud
- Provide for free

CBB Home Page

https://www.census.gov/data/data-tools/cbb.html



Census Business Builder

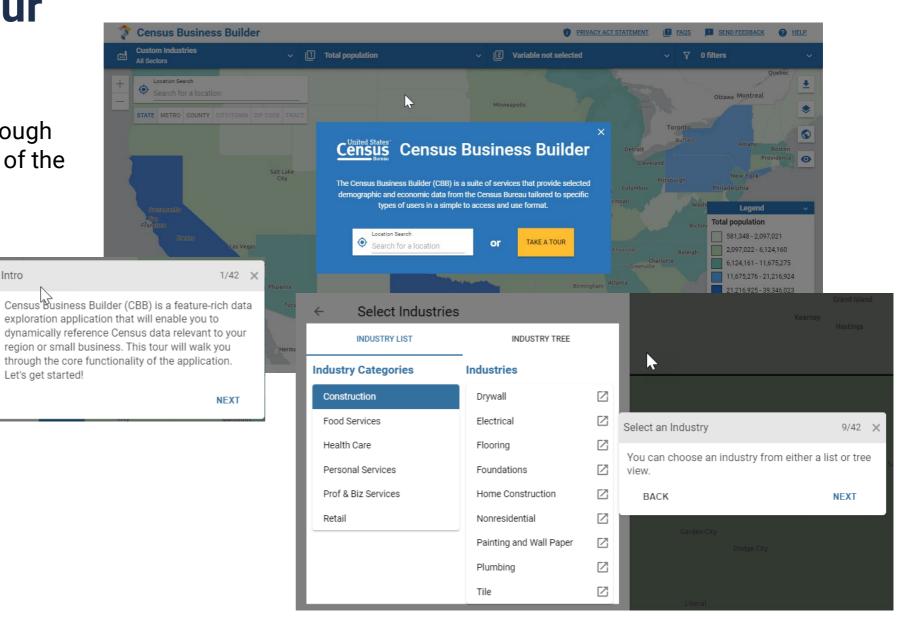




CBB 5.0 - Tour

 Tour will walk you through the core functionality of the application

Intro

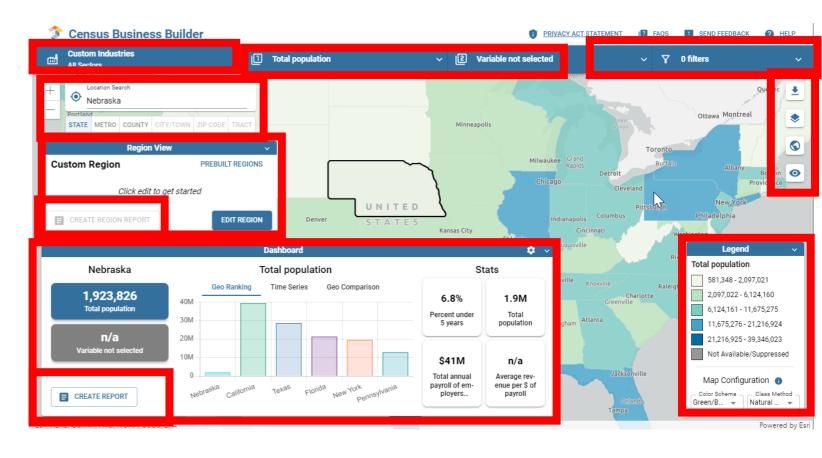




CBB 5.0 – Key Features

Map page

- Dashboard
- Region View
- Geographic Levels
- Industry Cluster
- Map Variables options
- Filter Menu
- Map Buttons
- Map Legend
- Reports

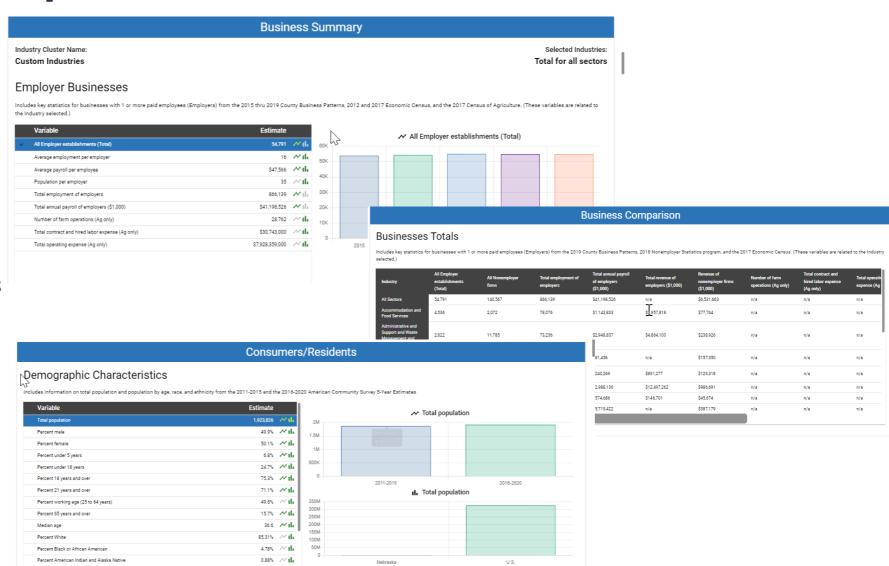




CBB 5.0 – Reports

Reports

- Report sections, interactive charts, customizing, and bookmarking
- Single or multigeography reports



2.40% A.d.

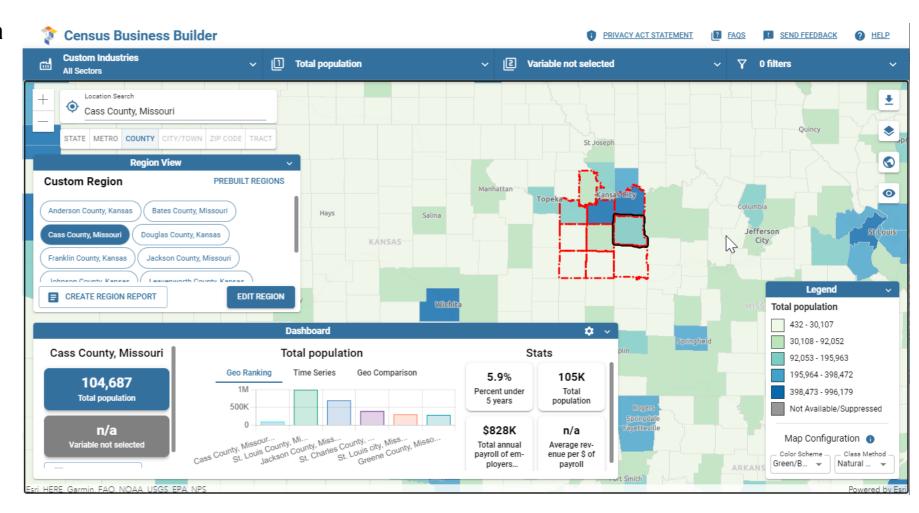
 $These \ data \ are \ subject \ to \ sampling \ and \ non-sampling \ errors. \ See \ \underline{Methodology} \ on \ the \ ACS \ Home \ Page \ for \ more \ information \ and \ subject \ for \ more \ information \ for \ more \ more \ information \ more \ more \ more \ for \ more \$



CBB 5.0 - Region Builder

Multiple options to build a region

- Option #1: build region of 2+ geographies of the SAME TYPE
- Option #2: build a
 Region of 2 or more
 geographies of 2 OR
 MORE types
- Option #3: build a Region using Prebuilt Regions

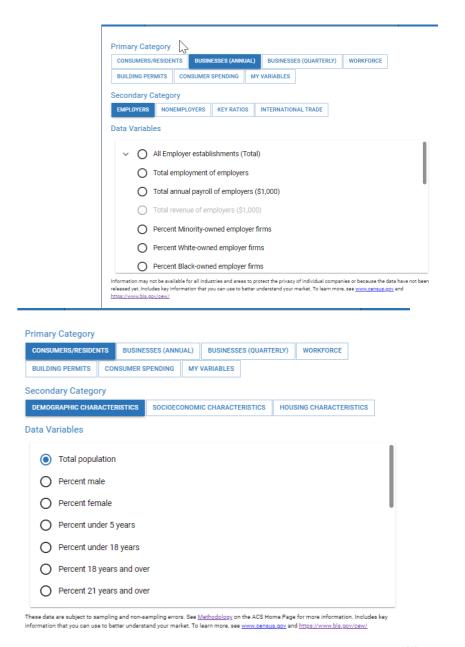




CBB: Data Sources

- Demographic, socioeconomic, and housing data from the American Community Survey
- Business data from the County Business Patterns, Nonemployer Statistics, Economic Census, and Survey of Business Owners
- Imports and Exports data from the International Trade program
- Workforce data from the Quarterly Workforce Indicators
- Building Permits data from the Building Permits Survey
- Your own data (via Excel file upload feature)
- Consumer Spending data from Esri
- Agriculture data from the Census of Agriculture (USDA)
- Employment and related data from the Bureau of Labor Statistics (BLS) Quarterly Census of Employment and Wages (QCEW)





Case Study:

- Access to clean water is a key issue for many Americans
- Some casual data users have heard about Census business data available on housing/construction statistics from a recently published America Counts article
 - They need guidance on where to begin using the great resources found on Census.gov
- Let's say an entrepreneur wants to start a business in "Water and Sewer Line and Related Structures Construction" (NAICS 237110)
 - Using an innovative data tool called Census Business Builder, the entrepreneur looks at competitors in the same industry, potential customers, and socioeconomic characteristics to make an informed, data-driven decision.







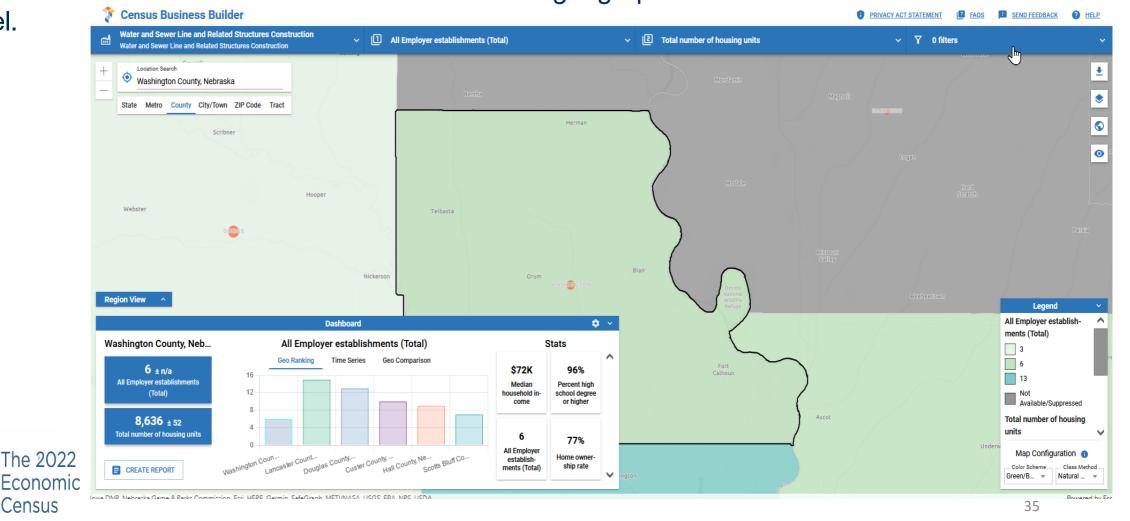


Using Census Business Builder, the entrepreneur investigates business data in Washington County, Nebraska to see how many other potential competitors are in this industry.

By comparing other counties nearby, and researching key demographics from Census data, the prospective business owner can determine the best geographical location and fit for their business

model.

Census



Looking at potential customers, competitive businesses and consumer spending patterns help the entrepreneur make informed decisions on their business plan.



Contents

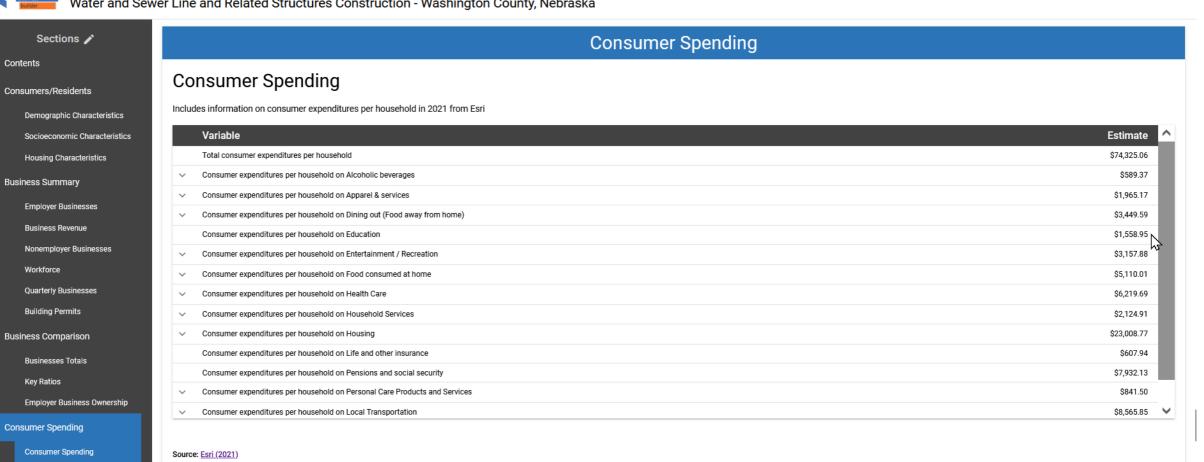
Workforce

Key Ratios

About Data

Local Business Profile

Water and Sewer Line and Related Structures Construction - Washington County, Nebraska





← DOWNLOAD DATA
 ★ SETTIN

• By using Census data and data tools, the entrepreneur makes the decision to open a Water and Sewer Line and Related Structures Construction plant in Washington County, Nebraska to better service the needs of the residents of that county.









How can we help you?

- Trainings on using Census data and tools
- America Counts Stories
- Stats for Stories series
- Outreach Specialists





Q & A

Adam Grundy

Customer Liaison & Marketing Services Office U.S. Census Bureau

301-763-7592

Adam.P.Grundy@census.gov

