



Business Formation Statistics: from Research to Production

Alyson Plumb

Starting at 12.30 PM

ESCOE ECONOMIC MEASUREMENT WEBINARS



Business Formation Statistics (BFS)

Fills a gap in the availability of high frequency, timely data on new business formation in the U.S.

- Other data products measure new business activity with a lag
- BFS focuses on measuring early-stage business activity with shorter lag and with more frequent updates
- Began as a Center of Economic Studies research collaboration with economists at Board of Governors of the Federal Reserve System, Federal Reserve Bank of Atlanta, University of Maryland, and University of Notre Dame



BFS Timeline

July 17

First release of Quarterly

BFS by Economic Indicator

Division

(national, regional, state)

February 10 First Monthly BFS

Release, including monthly series by 2-digit **NAICS**

First release of **November 11**

Weekly BFS Annual release of (national, regional) county level Business **April 16 Application series** Weekly state data through 2019

April 9

added

July 1

Annual county **BA** series through 2020

December 8

Remove experimental status; make standard data

product

Publications by Year

- **2019** 2 Quarterly Releases
- **2020** 41 Weekly Releases, 4 Quarterly Releases, 1 Annual Release
- **2021** (estimated) 49 Weekly Releases, 11 Monthly Releases, 1 Quarterly Release, 1 Annual Release

October 22

Special release of Weekly BFS by NAICS for 2019-2020

January 14

Final Quarterly BFS Release

Early 2022

Updated release of Weekly BFS by NAICS for 2019-2021

November 10 Implement new **HBA NAICS**

Criteria



Types of BFS Series

BFS consists of

- 4 Business Application Series
- 8 Business Formation Series (formations are applications that become employer businesses)

BFS Publications			
Frequency	Weekly	Monthly	Annual
Availability	Week 1, 2006-Week 48, 2021	July 2004-November 2021	2005-2020
Series	4 Application series, not seasonally adjusted	4 Application series 8 Formation series, seasonally adjusted and not seasonally adjusted	1 Application Series
Geography	National, Regional, State	National, Regional, State	County
Other	Annual release of weekly data by 2- and 3-digit NAICS from 2019 to 2020 Week 40	National industry series	



Business Application Series

Several criteria applied to the entire set of EIN applications to generate business application series

Business Applications (BA) - The core series that includes all EIN applications made in the U.S. (50 states + DC) except those filed without a business intent:

- Trusts, estates, tax-liens
- Public entities
- Some other filings with little or no business intent (e.g. personal tax/finance related filings, some household activities, etc.)



Business Application Series

High-Propensity Business Applications (HBA): Applications that have a relatively high likelihood of becoming employer businesses

- From corporate entities
- Indicate hiring employees, purchasing a business or changing organizational type
- Provide a date for first-wages paid/planned
- Classified in certain industries:
 - 2004-2011 In manufacturing (NAICS 31-33), part of retail (NAICS 44), health care (NAICS 62), and accommodation and food services (72)
 - 2012 to present: Accommodation and food services (NAICS 72), parts of professional, scientific, and technical services (5411, 5413), educational services (6111), construction (237, 238), manufacturing (312, 321, 322, 332), retail (442, 443, 444, 445, 446, 447, 452), and health care (621, 623)

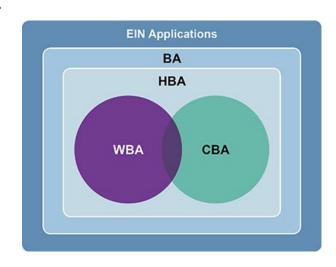
Business Applications with Planned Wages (WBA) – a subset of HBA

Provide a date for first-wages paid/planned

Business Applications from Corporations (CBA) – a subset of HBA

From corporate entities





Business Formation Series

Use Census Bureau's Longitudinal Business Database (LBD) to identify new employer firm (EIN) births from business applications and the timing (quarter) of these births

Business Formations within 4 Quarters (BF4Q):

Employer businesses that originate from Business Applications (BA) within a four quarter window from the quarter of application

Projected Business Formations within 4 Quarters (PBF4Q):

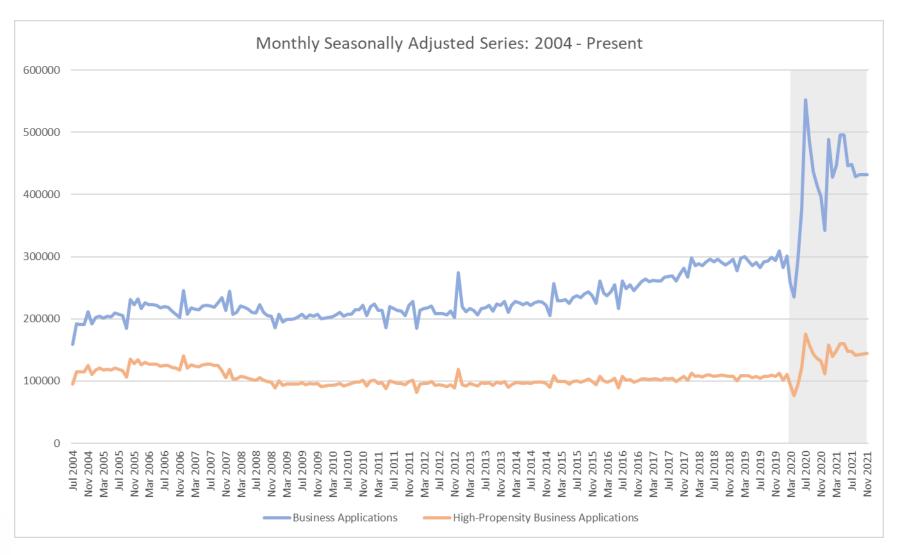
- Projected employer businesses that originate from Business Applications (BA) within a four-quarter window from the quarter of application
- Provides estimates for the quarters for which actuals are not yet available
- Estimates based on a model of employer birth indicator as a function of application characteristics

Series that piece together actual and projected formations, and series that measure average duration from application to formation (SBF4Q,DUR4Q)

All series also provided for an 8-quarter window (BF8Q, PBF8Q, SBF8Q, DUR8Q)



Applications hit pandemic record highs

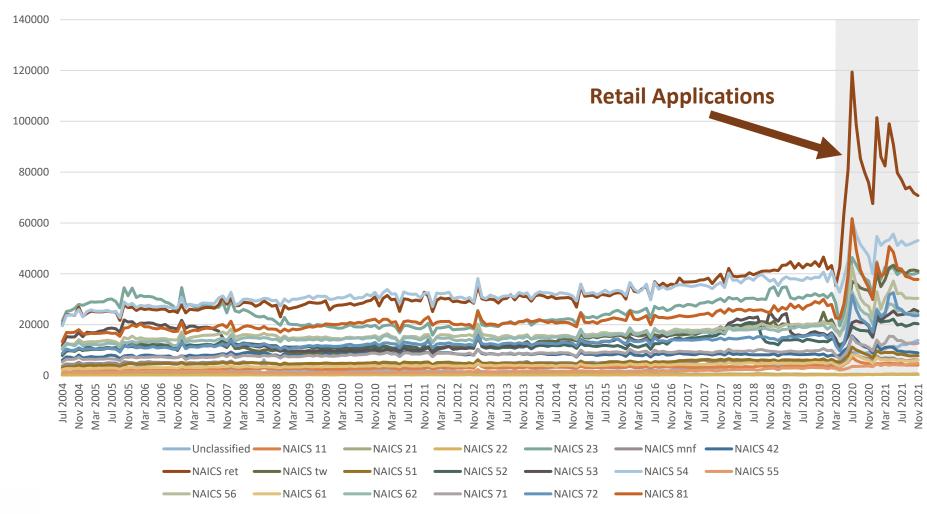




Source: Census Bureau Monthly BFS

Surge in retail applications led the increase

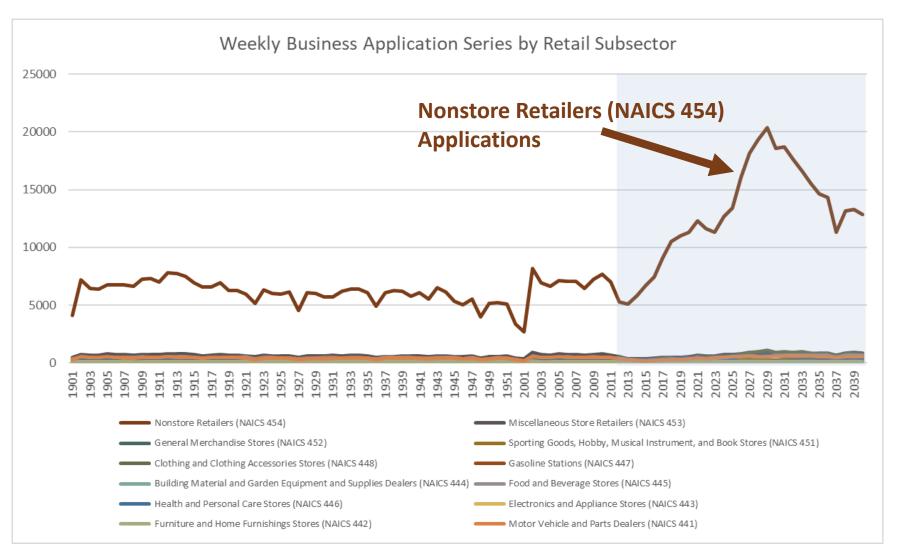
Seasonally Adjusted Monthly Business Application Series





Source: Census Bureau Monthly BFS

Nonstore Retailers drove retail surge

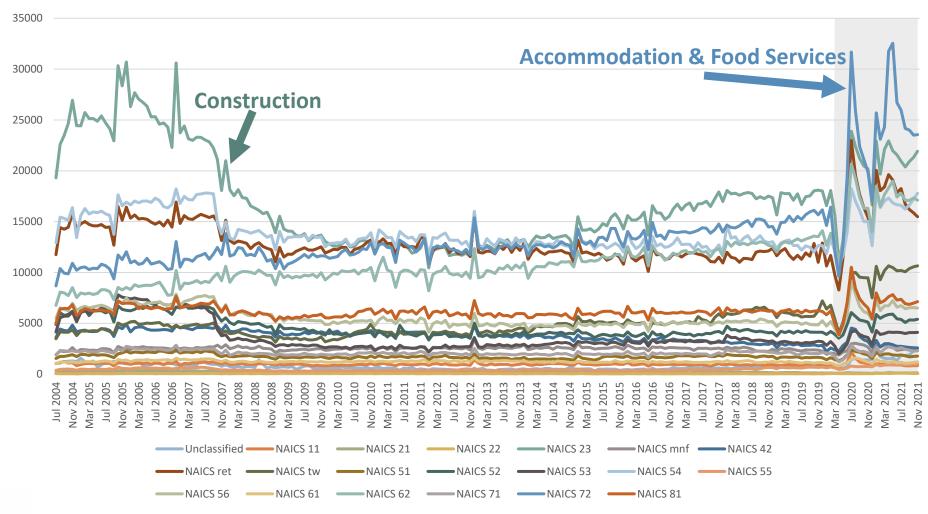




Source: Census Bureau Weekly BFS Special NAICS Publication

Shift in high propensity business applications

Seasonally Adjusted Monthly High Propensity Business Application Series





Source: Census Bureau Monthly BFS

Data widely featured during pandemic

For New Congress And

Forbes, 2/4/21

Administration: State Of Small Business And Entrepreneurship

Business Startups Surged Amid Covid-19

Pandemic

Insurance Journal, 1/19/2021

Americans' Shift to Be Their Own Bosses Is Lasting in Pandemic

Bloomberg, 7/13/21

U.S. applications to start a business rise steadily in Ma

Reuters, 6/10/21

People are quitting their jobs at record business rise steadily in May rates. That's a good thing for the economy. CBS News, 6/21/21

Entrepreneurship during economic uncertainty: Why millions of people started a business during the pandemic NBC News, 9/14/21

With small businesses suffering, women turning to entrepreneurship

Greater Baton Rouge Business Report, 1/26/21

New Business Formation Tells
Of A Brighter Immediate
Economic Outlook
Forbes, 9/7/21

What America's Startup Boom Could Mean For The Economy

NPR, 6/29/21

Shopify's Secret Weapon Is
Thousands of New Business
Owners

Wall Street Journal, 2/16/21

Start-Up Boom in the Pandemic
Is Growing Stronger
The New York Times,
8/19/21



Current BFS Research Projects

Properties of BFS as an early indicator of economic activity

- by Asturias, Dinlersoz, Haltiwanger, and Hutchinson
- Compares BFS monthly series with economic indicators generated by Census Bureau and other agencies

Understanding non-employer business activity that originates from business applications, and predicting both non-employer and employer business formation from applications

- by Dinlersoz and Luque
- Leverages the work done in the context of Non-employer Statistics presented earlier by Adela Luque to connect business applications with non-employer business formations

Exploring local origins of business applications and transitions to employer status: the effects of local characteristics

- by Dinlersoz, Dunne, Haltiwanger, and Penciakova
- Uses ACS, Decennial and other data from Census Bureau to relate business applications/formations to demographics and business conditions at the local level

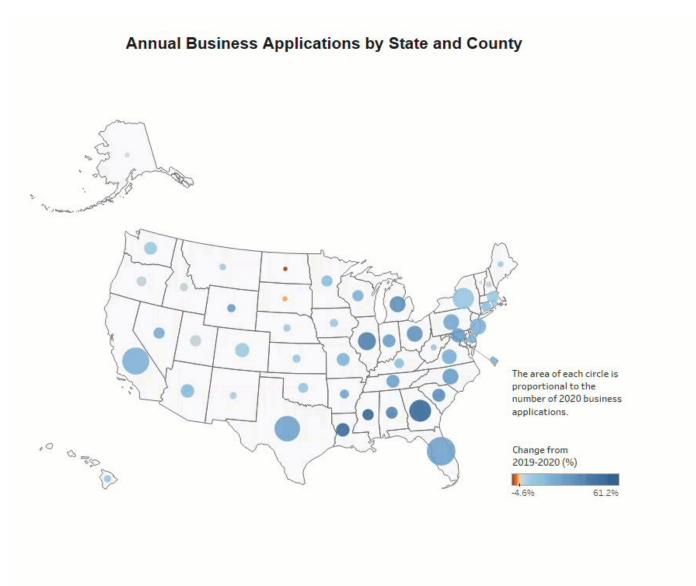
Sectoral shifts and reallocation in business applications and formations during recessions

• by Dinlersoz, Dunne, Haltiwanger, and Penciakova

The short and long-run effects of weather events on business applications and formations - modeling and predicting the impact of local weather events on entrepreneurship

- Joint with EID and NASA researchers Batuhan Osmanoglu and Arif Albayrak
- Combines satellite weather data and BFS micro-data at the local level to study the connection between strength of weather events and business applications





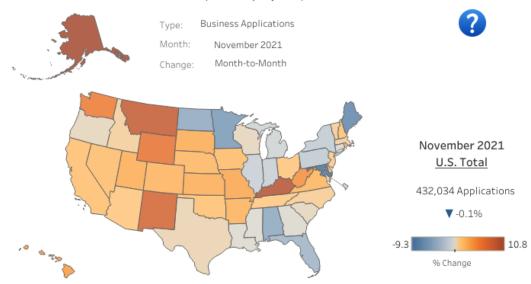


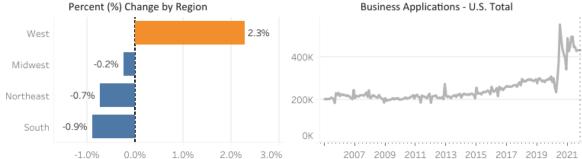
Source: U.S. Census Bureau, Business Formation Statistics

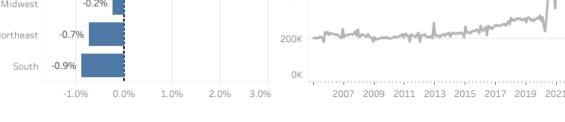


Business Applications

Change From October 2021 to November 2021 (Seasonally Adjusted)







Source: Business Formation Statistics

Business Formation Statistics (BFS) Interactive Visualizations U.S. Total Monthly Business Applications (BA) and High Propensity Business Applications (HBA) Monthly Business Applications with Planned Wages (WBA) Monthly Business Applications from Corporations (CBA) Monthly Business Formations - Actual & Projected (SBF4Q) By State Monthly Business Applications by State (BA) Monthly Business Formations by State (SBF4Q) Source: Business Formation Statistics



Source: Monthly Geographical Visualization & Monthly Interactive Graphs

BFS Contact Information

Website - https://www.census.gov/econ/bfs/index.html

Email – eid.bfs@census.gov

Phone – (301) 763-2000

