Webinar: Innovating with Open Government Data

Monday, March 16, 2020
4:30 - 5:30 p.m.
Who We Are

- The Data Coalition is America’s premier voice on data policy.
- A membership-based business association.
- We advocate for responsible policies to make government data high-quality, accessible, and useable.
Innovating with Open Government Data

Neil Jacobs, Ph.D.
Assistant Secretary of Commerce for Environmental Observation and Prediction
Performing the duties of Under Secretary of Commerce of Oceans and Atmospheres
Data Processing, Storage, and Open Access

**Ingest**

- **Satellite Data**
  - Polar
  - Geo Stationary

- **Conventional Data**
  - Radiosonde
  - Aircraft
  - Buoys, etc.

**Pre-Processing (Product Generation)**

- **Data Assimilation**
- **Global NWP Model (FV3-GFS)**
- **Post-Processed Output**

**Downstream Models**

- (RAP, HRRR, NWM, etc.)

**Operational Real Time**

- (NWS, etc.)

**Non-real Time**

- (OAR, public, etc.)

**Archive**

**Downstream Models**

- **Operational Real Time** (NWS, etc.)
- **Non-real Time** (OAR, public, etc.)

= Satellite Data
= Conventional Data
= Model Data
Welcome to the UFS Weather Model wiki!

The ufs-weather-model repository contains the model code and external links needed to build the Unified Forecast System (UFS) atmosphere model and associated components, including the WaveWatch III model. This weather model is used in several of the UFS applications, including the medium-range weather application and the short-range weather application.

This wiki includes a Getting Started section that leads you through a quick example. It also includes a Graduate Student Test based on that example. The Graduate Student Test is a way for students, postdocs and others to provide feedback on the usability of the code by running through a series of experiments and then filling out a questionnaire about the experience.

Documentation and User Support

The UFS Weather Model User’s Guide has more comprehensive information than this wiki, including links to scientific descriptions of the code and more thorough technical instructions.

Depending on what you are doing, you may need different versions of the User’s Guide:

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tag</td>
<td>Documentation for the most recent release and the version currently used in the Getting Started section and Graduate Student Test.</td>
</tr>
<tr>
<td>Latest</td>
<td>Documentation for the head of the development. This may have gaps and errors.</td>
</tr>
</tbody>
</table>

You can also get expert help through a user support forum set up specifically for the UFS Weather
Thank You!
New, Innovative, and Ready for Feedback: Experimental Data Products

Rebecca Hutchinson
United States Census Bureau
March 16, 2020

Disclaimer: Any views expressed are those of the author and not necessarily those of the United States Census Bureau.
What are Experimental Data Products?

- Provide data users with more timely and relevant data
- Created using new data sources and/or methodologies
- Provide a benefit to data users in the absence of other available data
- Benefit from feedback from data users
- May not meet all Census Bureau quality standards
What Experimental Data Products are currently available?

- Business Formation Statistics
- Dispersion Statistics on Productivity
- Post-Secondary Employment Outcomes (PSEO)
- Supplemental Quarterly E-Commerce Table
Experimental Data Products?

Where can you find the Experimental Data Products?

How do I provide feedback?

Census.Experimental.Data@census.gov
Experiment Data Product in Action: Business Formation Statistics (BFS)
Overview of BFS

• Provides quarterly data on business applications and business formations nationwide and by state, released 2 weeks after the close of a quarter

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

• Available data products measuring new business activity typically come with a lag

• For example, Census Bureau’s Business Dynamics Statistics (BDS) offers annual information on business entry with a 2-year lag

• BFS focuses on measuring early-stage business activity with shorter lag and with more frequent updates

• New experimental, public-use data product

• Uses only EIN Application Form (SS-4) data from the IRS
Origins of BFS

Began as a Center for Economic Studies (CES) research collaboration with

- Board of Governors of the Federal Reserve System
- Federal Reserve Bank of Atlanta
- University of Maryland
- University of Notre Dame

First Published as Experimental Data Product on July 17, 2019
Business Application Series

Business Applications – The number of applications for an Employer Identification number (EIN) with the Internal Revenue Service (IRS).

• **Business Applications (BA)** - The core series that excludes all EIN applications in the U.S. that are not filed with 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, etc.)

• **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
  • In manufacturing, retail, health care and restaurants/food service
Business Applications (BA) and High-Propensity Business Applications (HBA), 2004q3-2019q4
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

- **All series are also provided for an 8-quarter window (BF8Q, PBF8Q, SBF8Q, DUR8Q)**
Business Formations within 4 Quarters, Actual (BF4Q) and Projected (PBF4Q), 2004q3-2019q4

Q32004  Q32006  Q32008  Q32010  Q32012  Q32014  Q32016  Q32018

BF4Q  PBF4Q
Overall, the U.S. received 891,286 Business Applications in 2019 Q4. This was a 3.4% increase from the prior quarter.

Source: Business Formation Statistics
What’s next for BFS?

Pursuing Economic Indicator Designation from OMB

Publishing Potential New Series

- More granular geography (county, MSA)
- Industry series (broad NAICS sectors)
- Higher frequency series (monthly, weekly)
Questions?

Rebecca Hutchinson

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Expanding Financial Transparency and Open Data
USING DATA AS A STRATEGIC ASSET

1. Understand data users needs.
2. Begin with specific use cases.
3. Provide simple access to data and visualizations.

• What key management challenges can data inform?
• What key questions can data answer?
UNDERSTAND DATA USERS NEEDS

THE CFO
Name: Shane Robledo  Age: 42  Occupation: Deputy CFO, Agency  Location: Downtown & telework from Silver Spring

Goals & Tasks
- Identifies and corrects errors to improve data quality
- Reconciles data from general ledger
- Ensures agency compliance with laws
- Gains real-time insights into cash flow
- May also be a Data Creator

THE CITIZEN
Name: Manny LeCroix  Age: 74  Occupation: Retired Press Tech for the New Orleans Advocate  Location: Metairie, LA

“"When I want to know more about a story I’ve seen in the news, I look for articles from sources that I trust.""

Goals & Tasks
- Uses Google to search for more information about news stories of interest
- Wants to be an informed citizen, taxpayer, and voter
- Wants a general sense of how the government spends its money

Attitudes & Motivations
- Loves to read news and non-fiction and talk about the news and politics
- Walks to his local coffee shop each afternoon and talks with friends over coffee and lunch. Loves to have good information to fuel his debates

Pain Points
- If information does not turn up in a Google search, he won’t find it
- Homepage is disorienting—not sure what to do
- Data is overwhelming and lacks a “story”
- Manny does not have the background to interpret the financial data on USA Spending

Skills
- Financial
- Technological

Tools
- Computer
- Phone
Use Case:
How much does the federal government spend in a day?
How much does the federal government spend each day?

AMOUNT SPENT ON
NED, SEP 18, 2019

$28.2B

From 9/18/2019 to 9/18/2019

CHART RANGE

FREQUENCY

CATEGORIES

TOTAL SPENDING BY FISCAL YEAR

11. All categories were created by taking Total Withdrawals (excluding transfers) and subtracting Public Debt Cash Holdings (Table 14) from the first corresponding entry.

The Daily Treasury Statement (DTS) is published daily that the Federal Government is open, transmittable data on the cash and debt operations of the U.S. Treasury based on reporting of the Treasury account balances by the Federal Reserve banks. For more information about the

Additional notes on all this statement, please go to: https://www.treasurydirect.gov/instit/fds
Use Case:
How much funding does my Alma Mater receive from the federal government?
02

MY ALMA MATER

Find how much your Alma Mater received in federal funds.

The federal government may have invested in your college or university, whether it is public, private, four-year, or two-year. Use the map below to determine the amount of investment for individual campuses. Click on a region to zoom in and expand the area and see the schools in that area.

Instructions

[Map with various data points and financial information]
Use Case:
How many people are homeless in DC on a single night?

How many beds are available?
Number of People Experiencing Homelessness
People experiencing homelessness on a single night in January in this cluster

169,971 people

Population Density
Number of people per square mile in this cluster

11,758

Total Population
Total population in this cluster

26,116,471

Property Crime Rate
Range of property crime incidents per 100K people for areas within this cluster

CLUSTER MEDIAN: 56

Beds Available
Total sheltered and permanent beds available within this cluster

122,995 beds
In 2018, the government spent $4.11 trillion.

USA Spending tracks federal spending to ensure taxpayers can see how their money is being used in communities across America. Learn more on how this money was spent with tools to help you navigate spending from top to bottom.

New! – Daily Treasury Statement Tracker
Explore how much money the federal government spends each day, month, and fiscal year using an interactive tool that visualizes the Daily Treasury Statement.

New! – Download Account Data
Download account data at the Federal Account or Treasury Account level, including account data linked to award data.

New! – Recipient Profiles
Find insights into each recipient with the tools and summaries found in our new Recipient Profile pages.
Answer all your questions about federal government finance.

Your Guide to America's Finances
Questions & Answers - Submit your questions via GoToWebinar platform

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Upcoming Events

Realizing the Benefits of the Financial Transparency Act
April 8, 2020

RegTech Data Week
April 20 – April 24, 2020
Thank you for participating!

Visit datacoalition.org

Sign up for newsletter!