



Communicating Quality for Experimental Data Products

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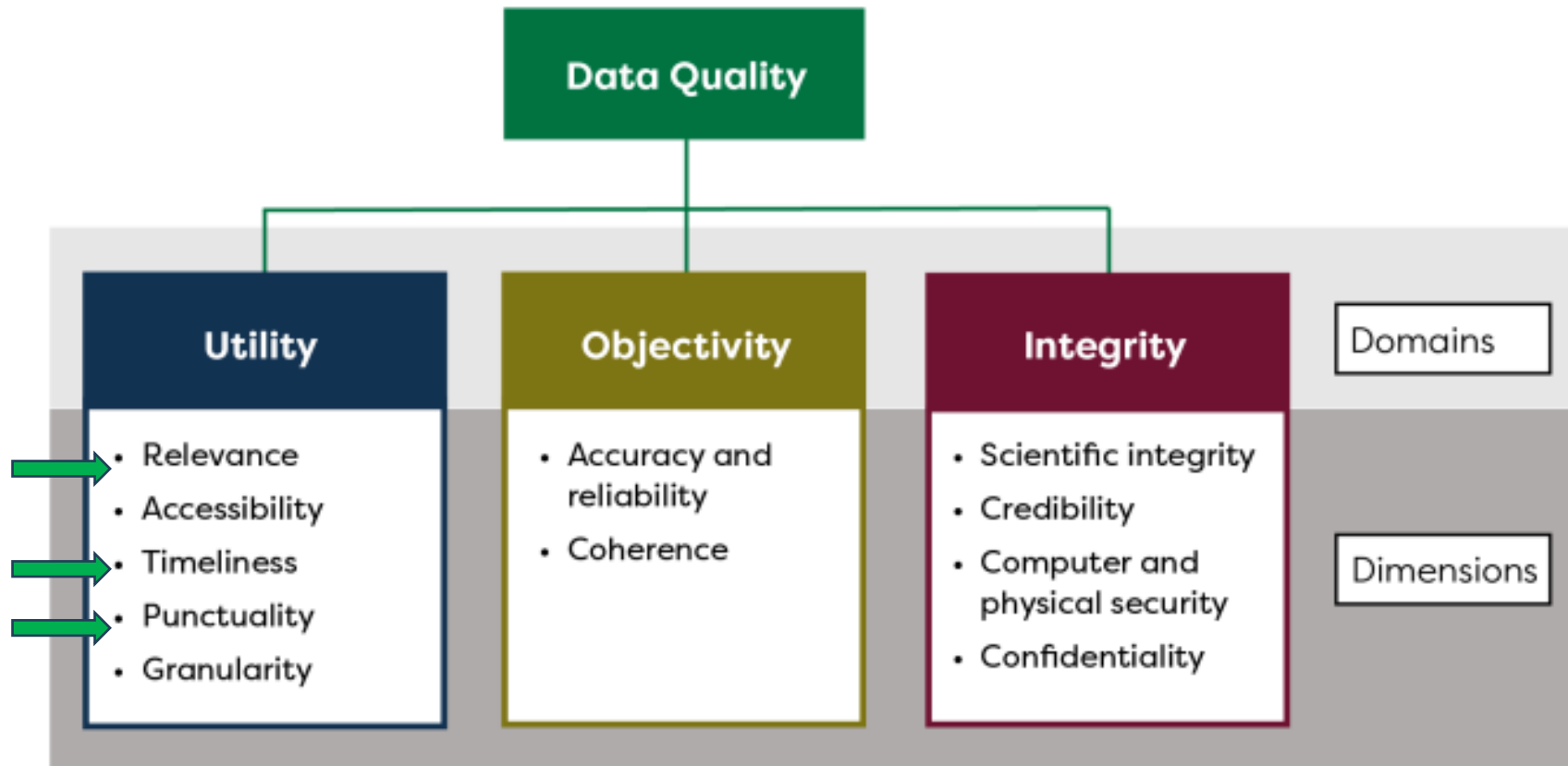
U.S. Census Bureau



What are Experimental Data Products?

- Innovative statistical products created using new data sources or methodologies to fill unmet needs
- Focus on transparency, timeliness and relevance
- Less focus on other traditional metrics of data quality, like response rates
- Communication of data quality is key

FCSM Data Quality Framework



Current Experimental Data Products



Experimental Data Product

Monthly Wholesale Real Dollar Estimates

The Census Bureau has released the monthly wholesale real dollar estimates of sales and inventories as an experimental data product.



Experimental Data Product

2022 Local Estimates of Internet Adoption (LEIA)

The LEIA are experimental, county-level estimates of high-speed internet access.



Experimental Data Product

Household Pulse Survey

The Household Pulse Survey is designed to deploy quickly, and efficiently collect data on emergent social and economic matters facing U.S. households.



Experimental Data Product

Community Resilience Estimates (CRE) for Heat

The CRE for Heat identifies the specific areas across the country most socially vulnerable to the effects of heat exposure.



Experimental Data Product

Justice Outcomes Explorer (JOE)



Experimental Data Product

Commodity Flow Survey Expanded Hazardous Materials (CFS-EHM) Estimates



Experimental Data Product

Monthly Puerto Rico Business Applications



Experimental Data Product

Manufacturing Industrial Robotic Equipment: 2018 - 2021

More Experimental Data Products



Experimental Data Product

County Estimates from 2019 American Housing Survey: Signs of Rodents

This experimental data product provides small area estimates of "signs of rodents in the past 12 months" using the 2019 American Housing Survey.



Experimental Data Product

Experimental Business Dynamics Statistics (EXP-BDS)

A suite of experimental business dynamics statistics created from new data linkages in the Longitudinal Business Database (LBD) infrastructure.



Experimental Data Product

Cannabis Excise Sales Tax Collections

This experimental product provides quarterly data on cannabis excise sales tax collections.



Experimental Data Product

VIUS National Estimates with Modeled Estimates for New Hampshire

Model-based estimates for the United States, including New Hampshire, for the 2021 Vehicle Inventory and Use Survey.



Experimental Data Product

Business Trends and Outlook Survey (BTOS) Data

Provides insights with timely, high



Experimental Data Product

National Experimental Wellbeing Statistics (NEWS)

The NEWS project aims to produce



Experimental Data Product

Census Bureau Index of Economic Activity (IDEA)

The Census IDEA is an aggregation of



Experimental Data Product

Monthly Subnational Construction Spending: Private Manufacturing

Even More Experimental Data Products



Experimental Data Product

Small Business Pulse Survey

Measures the effect of changing business conditions during the Coronavirus pandemic on our nation's small businesses.



Experimental Data Product

**Commodity Flow Survey
Subarea Estimates**

This product provides additional geographic granularity to existing Commodity Flow Survey Estimates.



Experimental Data Product

Selected Monthly State Tax Collections

The Monthly State Tax Collections is the new monthly measure of state government tax collections for selected taxes.



Experimental Data Product

Monthly State Retail Sales

The Census Bureau has released the Monthly State Retail Sales (MSRS) an experimental data product featuring monthly state-level retail sales.



Experimental Data Product

Veteran Employment Outcomes



Experimental Data Product

Post-Secondary Employment Outcomes (PSEO)



Experimental Data Product

Dispersion Statistics on Productivity (DiSP)

Former Experimental Products – Now Official Products



Economic Survey

2018 Robotic Equipment Expenditures

Now a standard data product that provides additional detail to the national level estimates measuring investment in machinery and equipment.



Economic Survey

2019 Capital Expenditures for Robotic Equipment

Now a standard data product that provides additional detail to the national level estimates measuring investment in machinery and equipment.



Demographic Survey

Community Resilience Estimates (CRE)

The Community Resilience Estimates provide an easily understood metric for how at-risk every neighborhood in the United States is to the impacts of disasters.



Demographic Survey

Community Resilience Estimates (CRE) for Puerto Rico

Community Resilience Estimates (CRE) for Puerto Rico measures social vulnerability to disasters at the state/commonwealth, municipio and census tract levels.



Economic Survey

Monthly Business Formation Statistics

Monthly Business Formation



Economic Survey

Supplemental Quarterly E-Commerce Table

Supplemental Quarterly E-Commerce



Economic Survey

Weekly Business Formation Statistics

The weekly breakout of business

Demographic High-Frequency Surveys (DHFS) Program



- Borne out of the COVID era to address an emergent need for real-time data
- Distinguished from other survey operations by a **streamlined survey lifecycle** facilitated by a **lighter infrastructure** for instrument development, data processing, and dissemination
- DHFS projects have at least one of these characteristics:
 - **Rapid Response:** rapidly developed and deployed to produce near real-time data to support emergent events that impact the social and/or economic well-being of the U.S. public (e.g., the COVID-19 pandemic, the 2008 housing market collapse)
 - **High Frequency:** produces data released on a high-frequency, cyclical basis when there is a need to measure rapidly changing circumstances
- Produces data on a **time-limited basis**; once the events prompting the needs have passed, the content is moved off the survey; not intended as a permanent data collection vehicle



DHFS: From Emergent to Established

- DHFS has grown beyond the early days of COVID:
 - Formally funded since FY2023 to meet ongoing needs for high-frequency and/or rapid-response statistics on broad topics of interest
 - Building a sustainable structure to enable **rapid deployment of surveys** or **production of non-survey data products** as national, regional, or state-level events demand
- High-frequency and rapid-response outcomes supplement data collected via established benchmark surveys
- **Continue to build on partnerships with other Federal statistical agencies** to develop a central service hub and associated assets that enable agencies to meet rapid-response data needs as they arise

The Original DHFS: Household Pulse Survey



- The Household Pulse Survey (HPS) was developed to address the need for ongoing and more timely insight into the impacts of the COVID-19 pandemic on American households
- The initial survey was developed in collaboration with five other federal agencies. The list now includes 20 agencies/offices
- Data collection was initially completed in one-week cycles using a single mode (the internet) with contact via email and SMS; this pace was moved to two-weeks and then monthly to balance urgency and burden
- A sample of one million households was selected for each cycle. At the end of each cycle, the data were processed, and estimates released at national and state levels and for the 15 largest metropolitan areas, enabling policy-makers to track dynamics across multiple dimensions in near real time
- As the pandemic persisted survey questions were revised, removed or added as needs changed
- HPS represented a new approach for producing Federal statistics that are timely and relevant, while preserving the integrity and transparency for which Federal statistics are known
- Designated an experimental efforts and accepting that output may not meet traditional quality standards

HPS Partners

While funding for the HPS is appropriated to the Census Bureau and the survey is managed by Census staff, we actively engage with multiple agencies who assist us in identifying data needs.



Bureau of Labor Statistics (BLS)
Bureau of Transportation Statistics (BTS)
Centers for Disease Control and Prevention (CDC)
Consumer Financial Protection Bureau (CFPB)
Department of Defense (DOD)
Energy Information Administration (EIA)
Department of Health and Human Services (HHS)
Department of Housing and Urban Development (HUD)
Food and Drug Administration (FDA)
Maternal and Child Health Bureau (MCHB)
National Center for Education Statistics (NCES)
National Center for Health Statistics (NCHS)

National Center for Immunization and Respiratory Diseases (NCIRD)
National Endowment for the Arts (NEA)
National Institute for Occupational Safety and Health (NIOSH)
Office of the Surgeon General (OSG)
USDA Economic Research Service (USDA-ERS)
USDA Food and Nutrition Service (USDA-FNS)
The White House Council of Economic Advisers (CEA)
The White House Domestic Policy Council (DPC)

HPS Past and Present Content

Basic demographics

Age, race, Hispanic origin, marital status, educational attainment
SOGI (Census/OMB/DPC)
Disability status (NCHS/CDC)
Armed forces status (DOD)

Employment and spending questions

Employment and employment income (BLS/Census)
Spending source of funds (BLS)
Series on expenditures and price increases (BLS)
Telework (BTS)
Child Care Arrangements (HHS-ASPE)
Ability to pay energy bills (EIA)

Food security questions

Past and current food sufficiency (USDA-ERS)
Free meals (USDA-ERS)
SNAP receipt (USDA-ERS)
Access to Infant Formula (USDA-FNS)

Health questions

Health insurance (NCHS/Census)
Vaccination receipt (CDC/HHS-ASPE)
Children's vaccination receipt (CDC/HHS-ASPE)

Long COVID (NCHS)

COVID Testing and Diagnosis (HHS-ASPE)

COVID Treatments (HHS-ASPE)

Pediatric Mental Health and Treatment (MCHB)

Difficulty with Self Care (NCHS)

Housing questions

Tenure (HUD)
Living quarters (HUD)
Rent and mortgage current payment status (HUD)
Eviction and foreclosure expectations (HUD)
Months behind on rent/mortgage (CFPB)
Feelings of pressure to move (HUD)
Energy usage in home (EIA)

Education questions

K-12 Enrollment (NCES)

Effects of Natural Disasters (Census)

Other

Social Isolation Indicators (OSG)

Participation with the Arts (NEA)



Interactive Data Tool – Displaced Last Year by Natural Disaster



Household Pulse Survey

Feedback

Select an Estimate:

Displaced in Last Year by N...

Filter Map and Table By:

States: --

Metro Areas: --

Select Data Collection Range:

September 20 - October 2, ...

Show: States

Clear Selections

[Download all data](#)

Phase 3.10

The Household Pulse Survey is designed to deploy quickly and efficiently, collecting data on a range of ways in which people's lives have been impacted by the pandemic. Data will be disseminated in near real-time to inform federal and state response and recovery planning.

Notes:

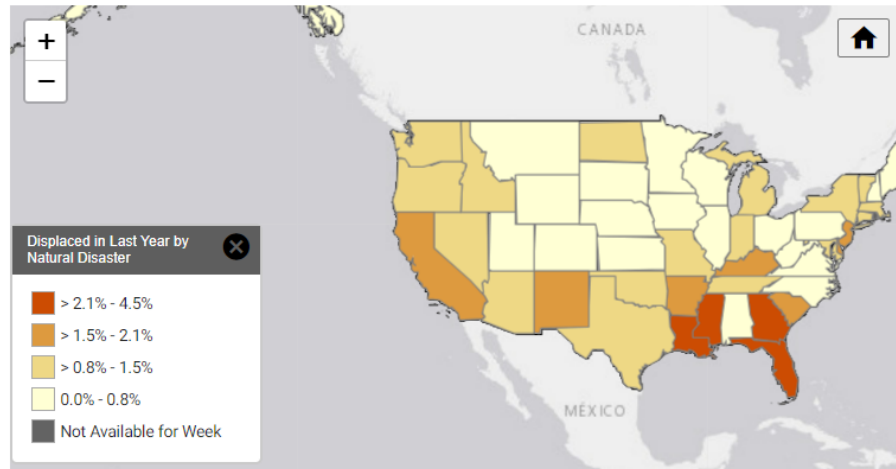
- [Please see the Household Pulse Survey Technical Documentation webpage for background information on the Household Pulse Survey, Source and Accuracy statements, and](#)

Displaced in Last Year by Natural Disaster

Percentage of adults in households who were displaced from their homes because of a natural disaster in the past year

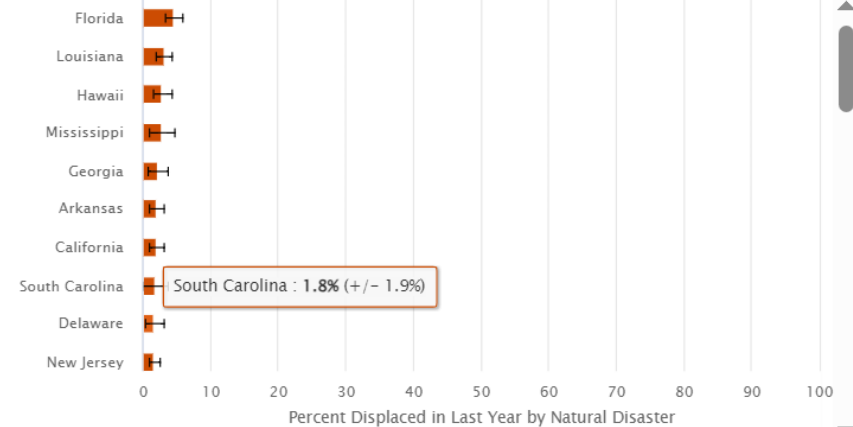
Download Help

Week 62 (September 20 - October 2, 2023)



Download Help

Week 62 (September 20 - October 2, 2023)



Source: U.S. Census Bureau, Household Pulse Survey

Download Help

Displaced in Last Year by Natural Disaster: Adults in households who were displaced from their homes because of a natural disaster in the past year

Area	Week	Total Displaced in Last Year by Natural Disaster			Percent Displaced in Last Year by Natural Disaster		Measure Universe	Total Population age 18+
		Number	Margin of Error +/-	Percent	Percent Margin of Error +/-			
United States	62 - September 20 - Oc...	2,864,135	422,244	1.4	0.2	208,695,840	254,966,752	
States								
Alabama	62 - September 20 - Oc...	19,969	12,374	0.7	0.4	3,026,065	3,852,301	
Alaska	62 - September 20 - Oc...	2,226	1,697	0.5	0.4	445,318	530,263	
Arizona	62 - September 20 - Oc...	64,982	55,468	1.4	1.2	4,729,439	5,723,779	

Detailed Food Table 3 – Recent Food Insufficiency for Households

	A	B	C	D	E	F
1	Food Table 3. Recent Food Insufficiency for Households, by Additional Food Related Household Characteristics: United States					
2	Source: U.S. Census Bureau Household Pulse Survey, Week 62.					
3	Note: These data are experimental. Users should take caution using estimates based on subpopulations of the data – sample sizes may be small and the standard errors may be large.**					
4	Total Population 18 Years and Older Reporting Current Food Insufficiency or Did Not Report Food Sufficiency***					
5			Households with food insufficiency in the last 7 days¹			
6	Select characteristics	Total (including did not report)	Enough food, but not always the kinds wanted	Sometimes not enough to eat	Often not enough to eat	Did not report
8	Total	134,830,787	75,089,480	20,438,509	7,171,605	32,131,193
9	Reason for recent food insufficiency*					
10	Couldn't afford to buy more food	64,941,558	40,939,262	17,768,319	6,233,977	-
11	Couldn't get to store to buy food because of transportation, mobility or health limitations	8,369,115	5,102,728	2,111,564	1,154,823	-
12	Couldn't go to store due to safety concerns	2,617,055	1,541,745	596,641	478,669	-
13	None of these reasons	30,731,272	28,498,840	1,726,832	505,600	-
14	Did not report	35,287,385	2,462,746	412,646	280,800	32,131,193
15	Free groceries in last 7 days					
16	Yes	12,888,059	7,441,109	3,843,009	1,562,187	41,754
17	No	88,605,145	66,193,074	16,014,068	5,336,320	1,061,684
18	Did not report	33,337,583	1,455,297	581,432	273,099	31,027,755
19	Frequency of feeling nervous, anxious, on edge					
20	Not at all	24,638,432	19,704,384	3,505,739	1,004,871	423,438
21	Several days	31,155,338	24,158,274	5,582,777	1,189,003	225,285
22	More than half the days	14,068,876	9,946,842	3,276,203	745,133	100,697
23	Nearly every day	23,785,034	14,127,056	6,099,403	3,277,230	281,345
24	Did not report	41,183,107	7,152,923	1,974,387	955,368	31,100,428

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Economic Hardship Declined in Households With Children as Child Tax Credit Payments Arrived



POPULATION

Adults in Households With Children More Likely to Report Loss in Employment Income During COVID-19

The U.S. Census Bureau's new Household Pulse Survey shows that adults living with children are especially likely to experience lost income and food



POPULATION

Around Half of Unvaccinated Americans Indicate They Will "Definitely" Get COVID-19 Vaccine

The Household Pulse Survey provides insight into attitudes toward COVID-19 vaccines.



Working From Home During the Pandemic



Those Who Switched to Telework Have Higher Income, Education and Better Health



LGBT Community Harder Hit by Economic Impact of Pandemic



Calling In Sick or Going on Vacation, Workers Aren't Showing Up This Summer

Some companies report difficulty keeping operations going due to illness and vacations, saying that maintaining workforces is tougher than at any previous time during the pandemic.

www.wsj.com

Inflation is making homelessness worse

Rising prices and soaring rents are taking their toll across the country

By [Abha Bhattarai](#) and [Rachel Siegel](#)

July 3, 2022 at 8:00 a.m. EDT

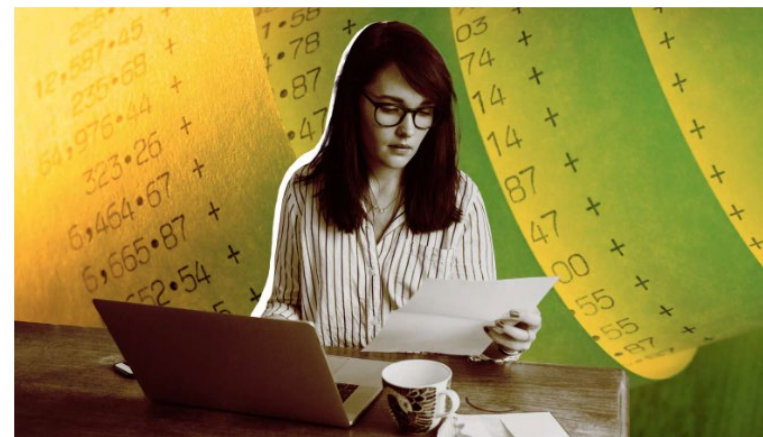


40% of Americans Are Struggling to Pay Their Bills Right Now

Author: Adam Hardy

Published: Jul 22, 2022 | 5 min read

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Money; Getty Images



How Many People Have Long COVID? The Statistics Are 'Pretty Scary'

Long COVID threatens to amass into a new wave of chronic illness with ramifications for health care systems and the economy for years to come.

www.usnews.com



Communicating Data Quality

- The Census Bureau and its federal statistical partners are considered the preeminent source of the nation's most important benchmark surveys. Many of these surveys have been ongoing for more than 80 years and provide valuable insight on social and economic trends.
- The production of these benchmark surveys is by nature a highly deliberative process. The process to release the data from these surveys can take months, sometimes years, before data are made publicly available.
- The approach for the Household Pulse Survey is different: it is designed to be a short-turnaround instrument that provides valuable data with a short turn-around time. The Census Bureau is fielding the Household Pulse Survey as a part of the agency's Experimental Data Series; as such, data products may not meet some of the Census Bureau's statistical quality standards. Data are subject to suppression based on overall response and disclosure avoidance thresholds.

Household Pulse Resources



- Main Page

- <https://www.census.gov/programs-surveys/household-pulse-survey.html>



- Data Tables

- <https://www.census.gov/programs-surveys/household-pulse-survey/data/tables.html>



- PUF

- <https://www.census.gov/programs-surveys/household-pulse-survey/data/datasets.html>



- Data Tool

- <https://www.census.gov/data-tools/demo/hhp/#/>



- Experimental Data Page

- <https://www.census.gov/data/experimental-data-products/household-pulse-survey.html>

