

U.S. Census Bureau Pulse Surveys

Experimental Surveys to Address Data Needs During the Coronavirus Pandemic



COG Cooperative Forecasting and Data Subcommittee Overview

March 8, 2022

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Two Populations, Two Surveys

Small Business Pulse Survey (SBPS)

The SBPS measures the effect of changing business conditions during the coronavirus pandemic and other major events such as hurricanes on our nation's small businesses.

Timeline for SBPS Data Collection

April 26, 2020 - current

Partners

Small Business Administration
Federal Reserve Board of Governors
International Trade Administration
Minority Business Development Administration
Bureau of Economic Analysis
National Telecommunications and Information Administration
Bureau of Labor Statistics
U.S. Department of Health and Human Services

Household Pulse Survey (HPS)

Designed to understand impacts of Covid-19 on American families relating to employment, food security, housing, health and educational disruption

Timeline for HPS Data Collection

April 23, 2020 – current

Partners

Bureau of Labor Statistics
National Center for Health Statistics
Housing and Urban Development
National Center for Education Statistics
Office of Management and Budget
USDA Economic Research Service
Centers for Disease Control
Maternal and Child Health Bureau
National Institute for Occupational Safety and Health
Department of Defense
Office of Management and Budget

Small Business Pulse Survey (SBPS)

high frequency data about the challenges small businesses are facing due to COVID-19



What's the SBPS?

A weekly survey to measure the effect of changing business conditions during the Coronavirus pandemic on our nation's small businesses. Each phase has consisted of around 20 questions taking 5 - 6 minutes to complete. Each phase, this survey reaches ~1M small businesses split across nine weeks.

What are we collecting?

Near real time data from small business on operational challenges, vaccine requirements, supply chain impacts, and outlook and expectations.

Collaboration Partners

SBPS content has been developed in a joint effort between internal and external stakeholders. Internal: ADEP and CES. External: MBDA, FRB, SBA, ITA, NTIA, BTS, BEA and BLS

Phases

- Phase 1: April 2020 – June 2020
- Phase 2: August 2020 – October 2020
- Phase 3: November 2020 – January 2021
- Phase 4: February 2021 – April 2021
- Phase 5: May 2021 – July 2021
- Phase 6: August 2021 – October 2021
- Phase 7: November 2021 – January 2022
- Phase 8: February 2022 – April 2022



Methodology and Collection

- ~1M sample representative of 5.6M small businesses
- Includes all single-location businesses with 1-499 employees and \$1000+ revenue that reported an email address. Excludes non-employers or multi-units
- Initial email on Monday asking for a response by Thursday
- Due date reminder sent Wednesday and a final notice is sent on Friday.
- The company has until the end of the phase to respond.



SBPS Key Facts

- ✓ In March-April 2020, Small Business Pulse Survey (SBPS) went from concept to data release in 39 days.
- ✓ Is the first economic survey conducted solely by email
- ✓ Weekly data releases
- ✓ Provides national estimates as well as state, top 50 metro, and sector detail
- ✓ Uses Centurion as reporting instrument
- ✓ Response rate of ~25%



SBPS Data Products Summary

Highly Interactive Website

- National estimates map
- Sector estimates
- By sector, state, and MSA:
 - Survey detail bar charts
 - Scatter plot of 2 questions/answers
 - Time series by sector, state, and MSA

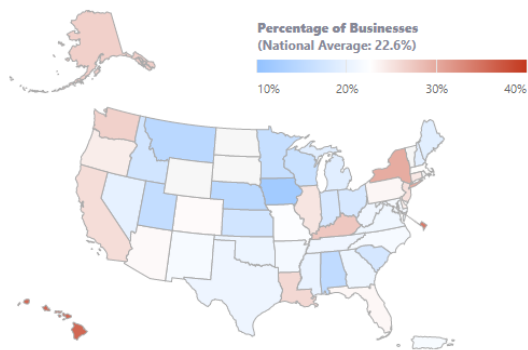
Download Files and Documentation

- National estimates
- State estimates (includes Puerto Rico)
- Sector & Sub-sector (NAICS2, NAICS3) estimates
- MSA estimates for top 50 by population
- Employment size class (1-4, 5-19, 20+) estimates

Responses by Geography and Sector

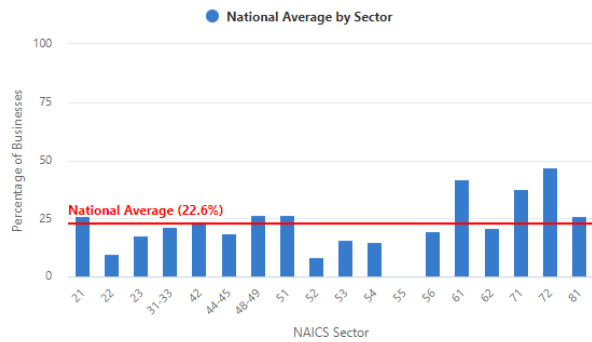
Overall, how has this business been affected by the Coronavirus pandemic?

Data Collected 11/15/2021 to 11/21/2021



Overall, how has this business been affected by the Coronavirus pandemic?

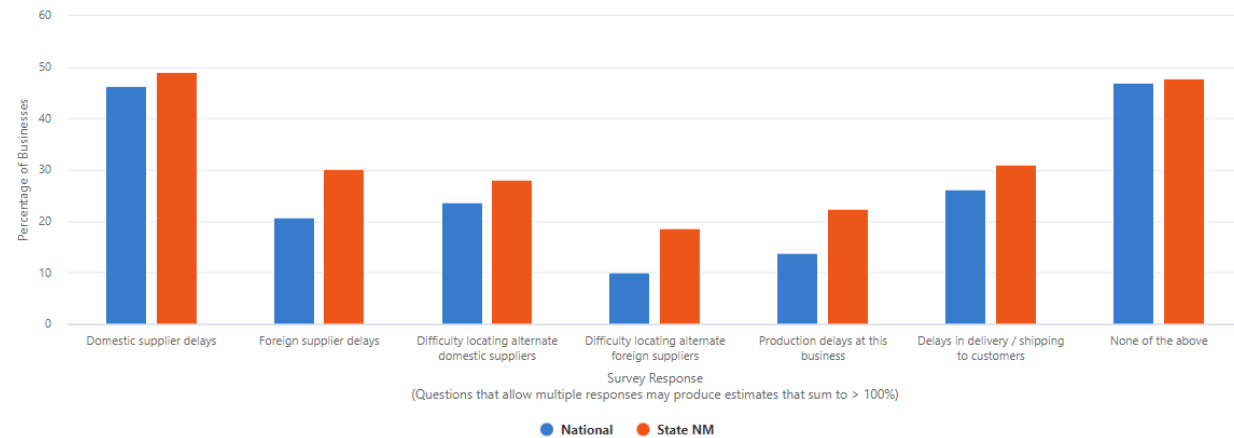
Data Collected 11/15/2021 to 11/21/2021



Survey Response Detail

In the last week, did this business have any of the following?

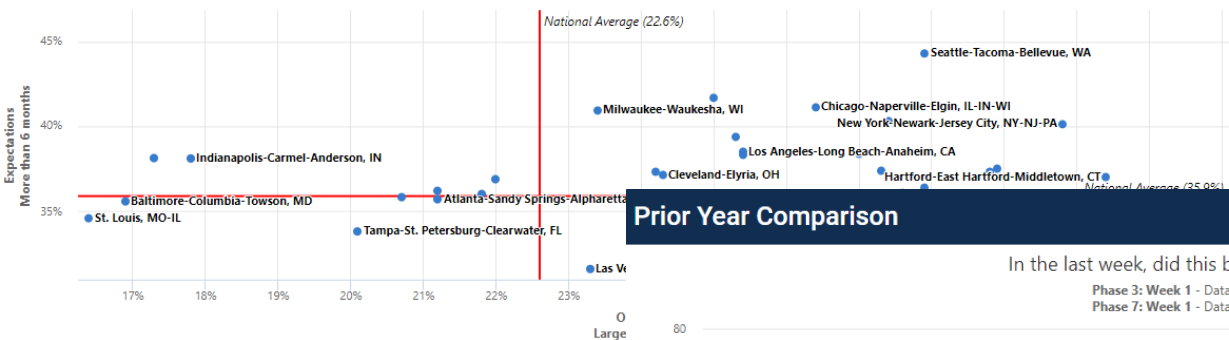
Data Collected 11/15/2021 to 11/21/2021



Multiple Response Comparisons

Overall effect vs Expectations

Data Collected 11/15/2021 to 11/21/2021

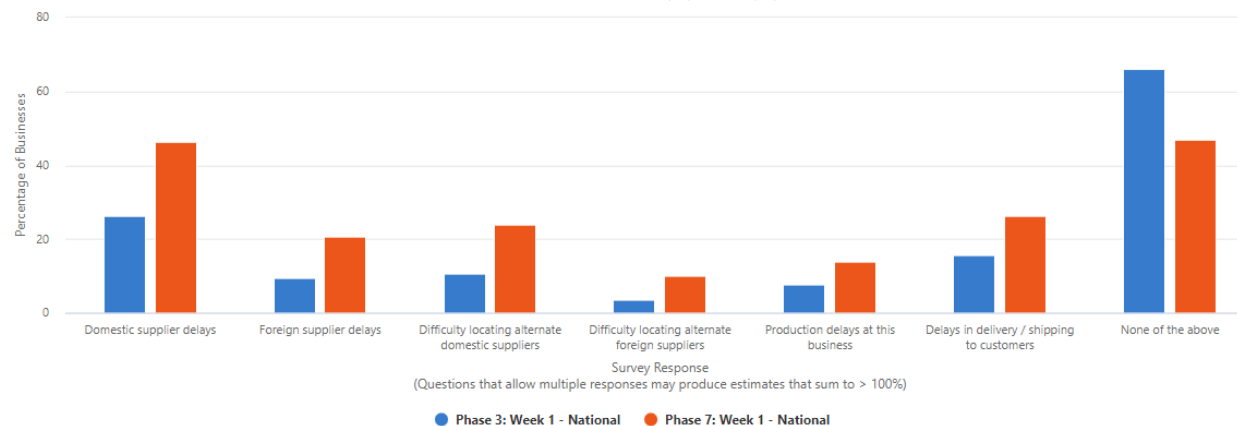


Prior Year Comparison

In the last week, did this business have any of the following?

Phase 3: Week 1 - Data Collected 11/09/2020 to 11/15/2020

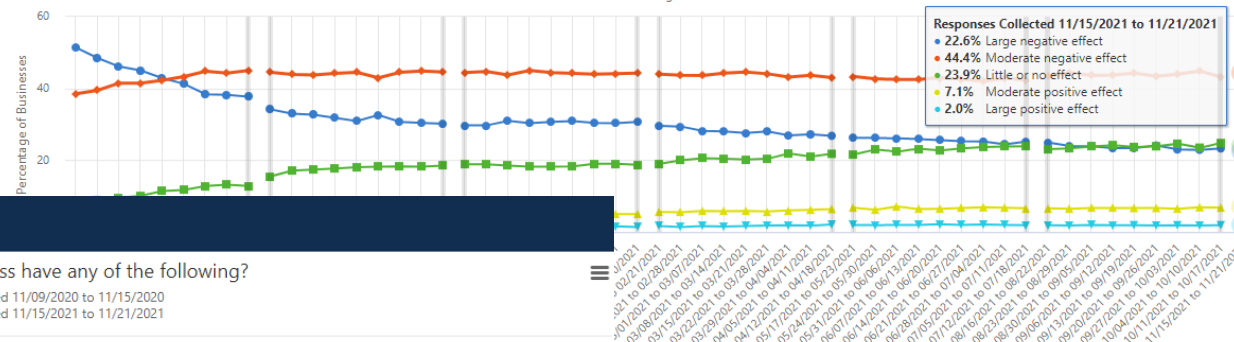
Phase 7: Week 1 - Data Collected 11/15/2021 to 11/21/2021



Survey Responses Weekly Comparison

Overall, how has this business been affected by the Coronavirus pandemic?

National Average



Legend for Weekly Comparison:

- Phase 3: Week 1 - National (Blue)
- Phase 7: Week 1 - National (Orange)
- Moderate positive effect (Yellow)
- Large positive effect (Cyan)

Downloads and Documentation

Weekly Data

Select Date Range:

Filter by Interest: [All](#) [National](#) [Sector \(NAICS\)](#) [State](#) [MSA](#) [Employment Size](#) [Metrics](#)

File	File Type	Date Range	Tags
National, Sector	XLSX	01/10/2022 to 01/16/2022	National Sector (NAICS)
National, State	XLSX	01/10/2022 to 01/16/2022	National State
National, State by Sector	XLSX	01/10/2022 to 01/16/2022	National State Sector (NAICS)
Top 50 MSA	XLSX	01/10/2022 to 01/16/2022	MSA
Sub-sector (NAICS3)	XLSX	01/10/2022 to 01/16/2022	Sector (NAICS)
National, State, Sector by Employment Size	XLSX	01/10/2022 to 01/16/2022	National State Sector (NAICS) Employee Size
Index values - National, State, Sector	XLSX	01/10/2022 to 01/16/2022	National State Sector (NAICS)
Unit Response Rate	XLSX	01/10/2022 to 01/16/2022	Metrics State
All Files	ZIP	01/10/2022 to 01/16/2022	National State Sector (NAICS) MSA Employee Size Metrics

General Info and Documentation

[EXPAND ALL](#) | [COLLAPSE ALL](#)

Survey Questionnaires

- [SBPS Questionnaire \(11/15/2021 - 01/16/2022\)](#)
- [SBPS Questionnaire \(08/16/2021 - 10/17/2021\)](#)
- [SBPS Questionnaire \(05/17/2021 - 07/18/2021\)](#)
- [SBPS Questionnaire \(02/15/2021 - 04/18/2021\)](#)
- [SBPS Questionnaire \(11/09/2020 - 01/10/2021\)](#)
- [SBPS Questionnaire \(08/09/2020 - 10/10/2020\)](#)
- [SBPS Questionnaire \(05/17/2020 - 06/27/2020\)](#)
- [SBPS Questionnaire \(04/26/2020 - 05/16/2020\)](#)

User Guides

- [Data Downloads](#)
- [Data Visualization](#)
- [Index construction](#)

Archives

SBPS Content Overview

Overall Effect

Operations
Metrics

COVID-19
Testing/Vaccine

Challenges &
Impacts

Change From
Pre-Pandemic /
6 Months Ago

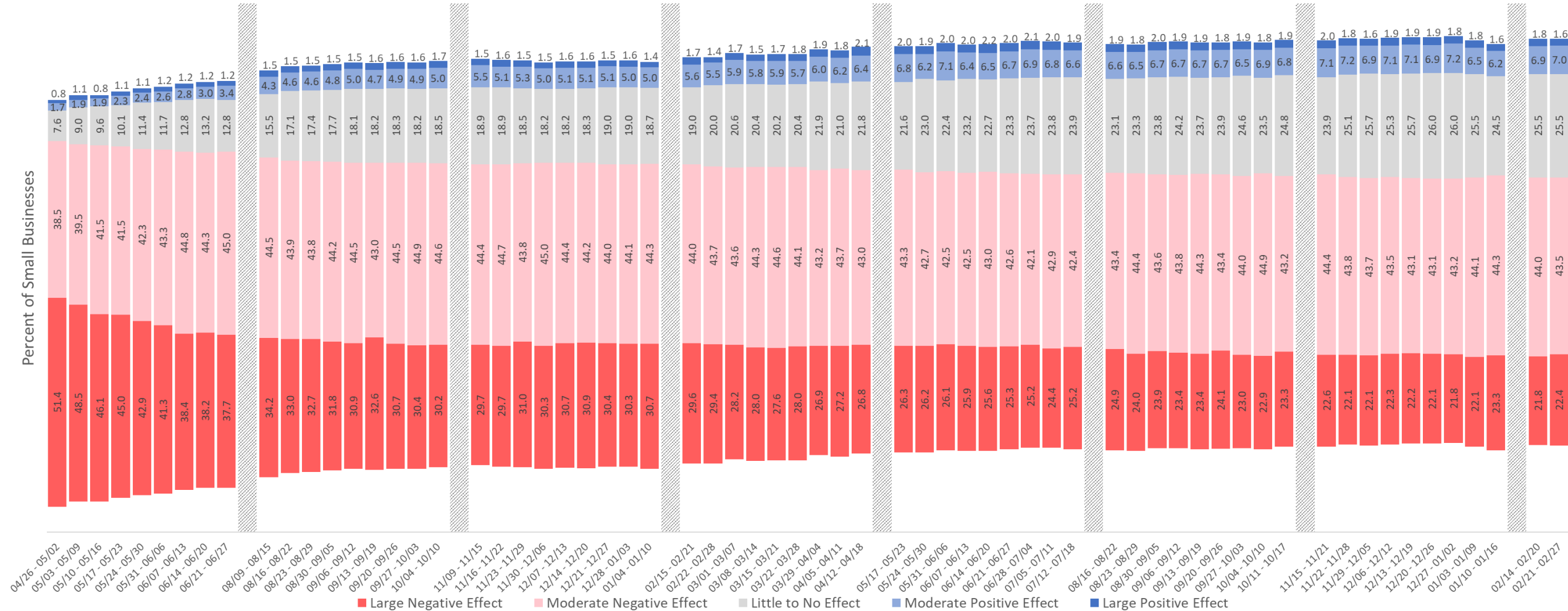
Business
Finances

Future Outlook

Overall Effect

Overall, how has this business been affected by the Coronavirus pandemic?

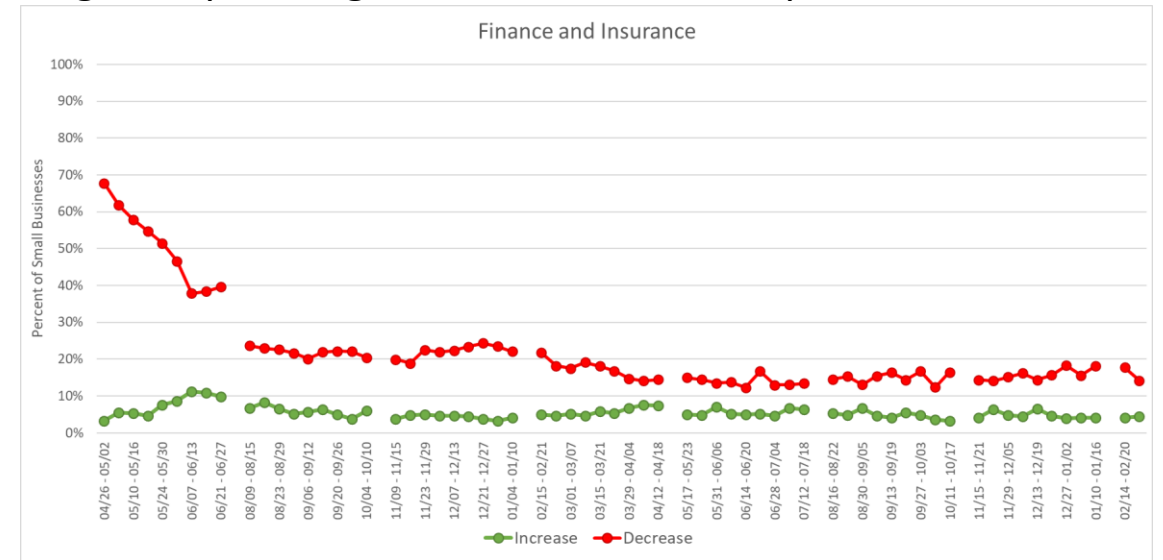
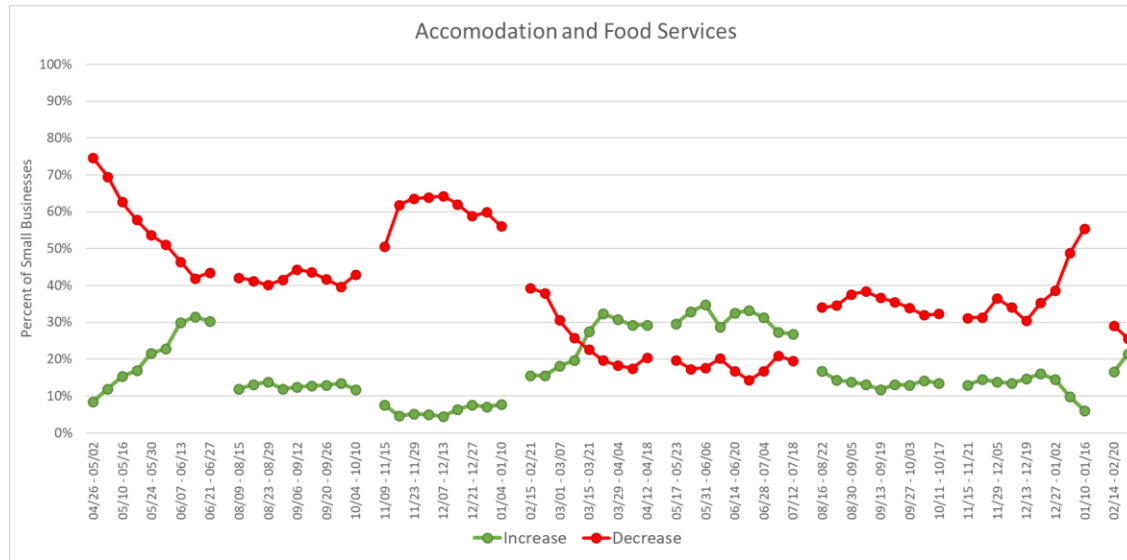
National Average



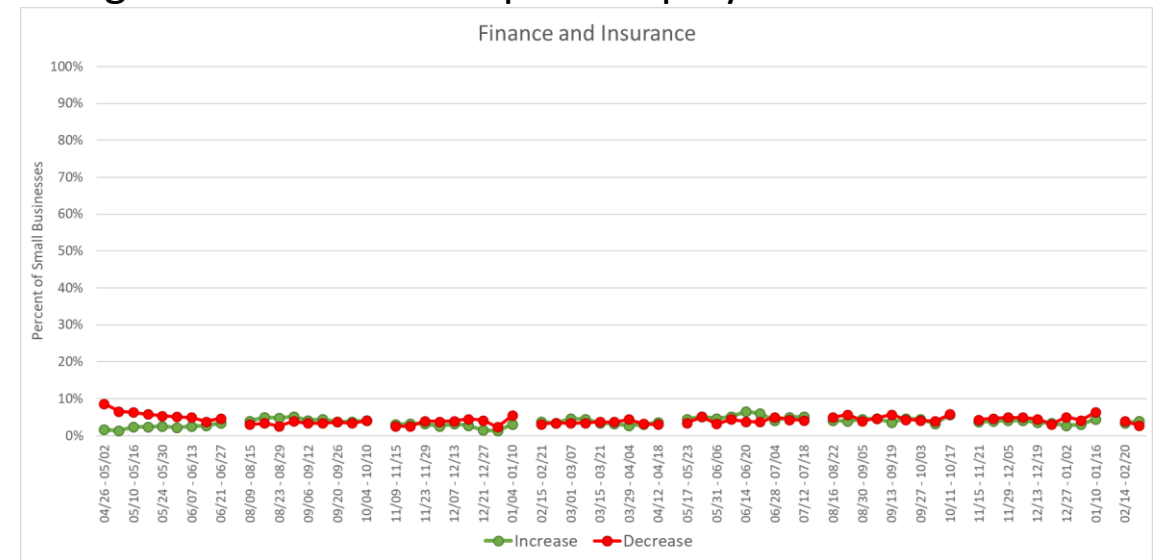
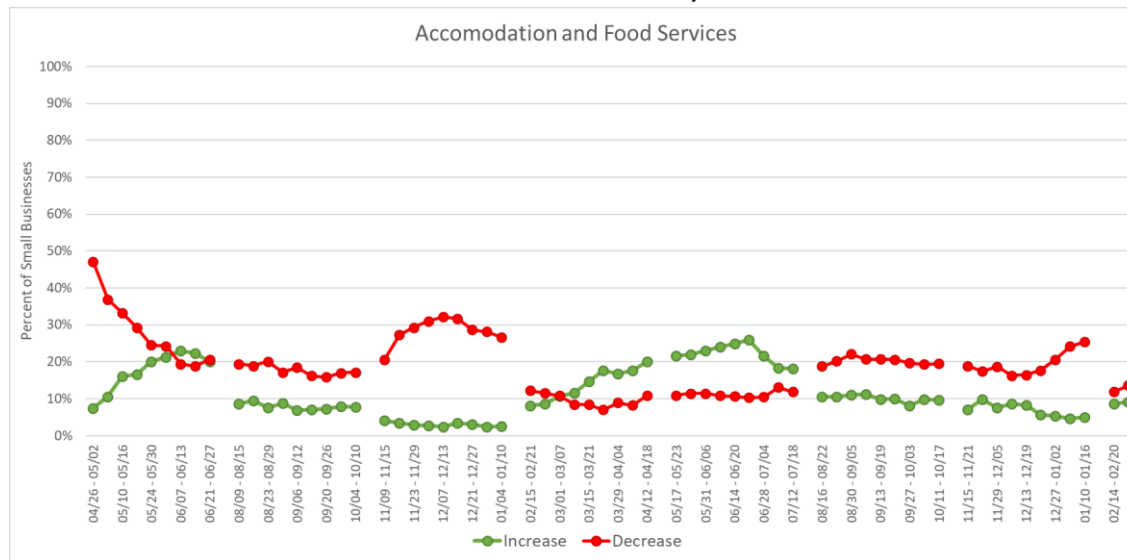
Note: Actual percentages may not sum to 100 due to rounding.

Revenue & Employment

Q: In the last week, did this business have a change in operating revenues/sales/receipts?

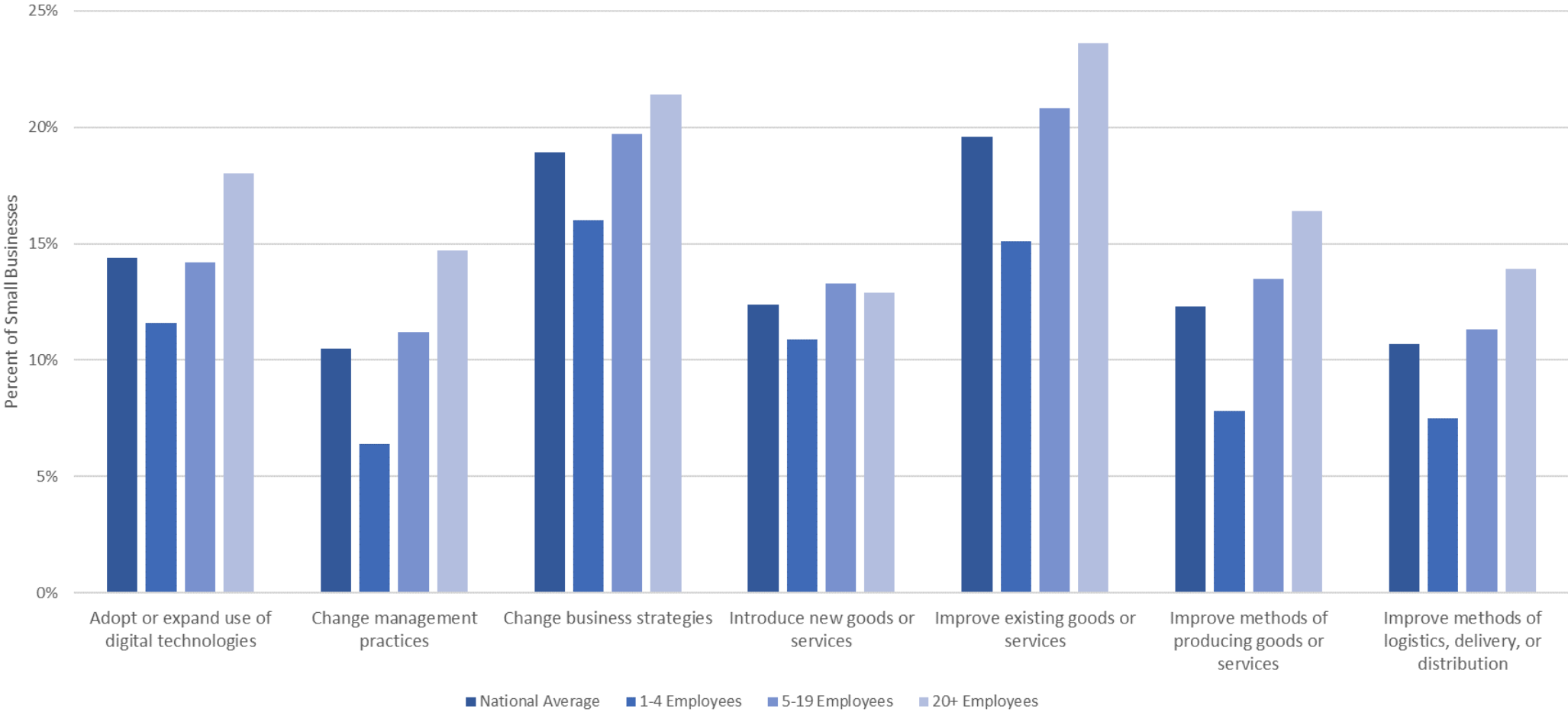


Q: In the last week, did this business have a change in the number of paid employees?



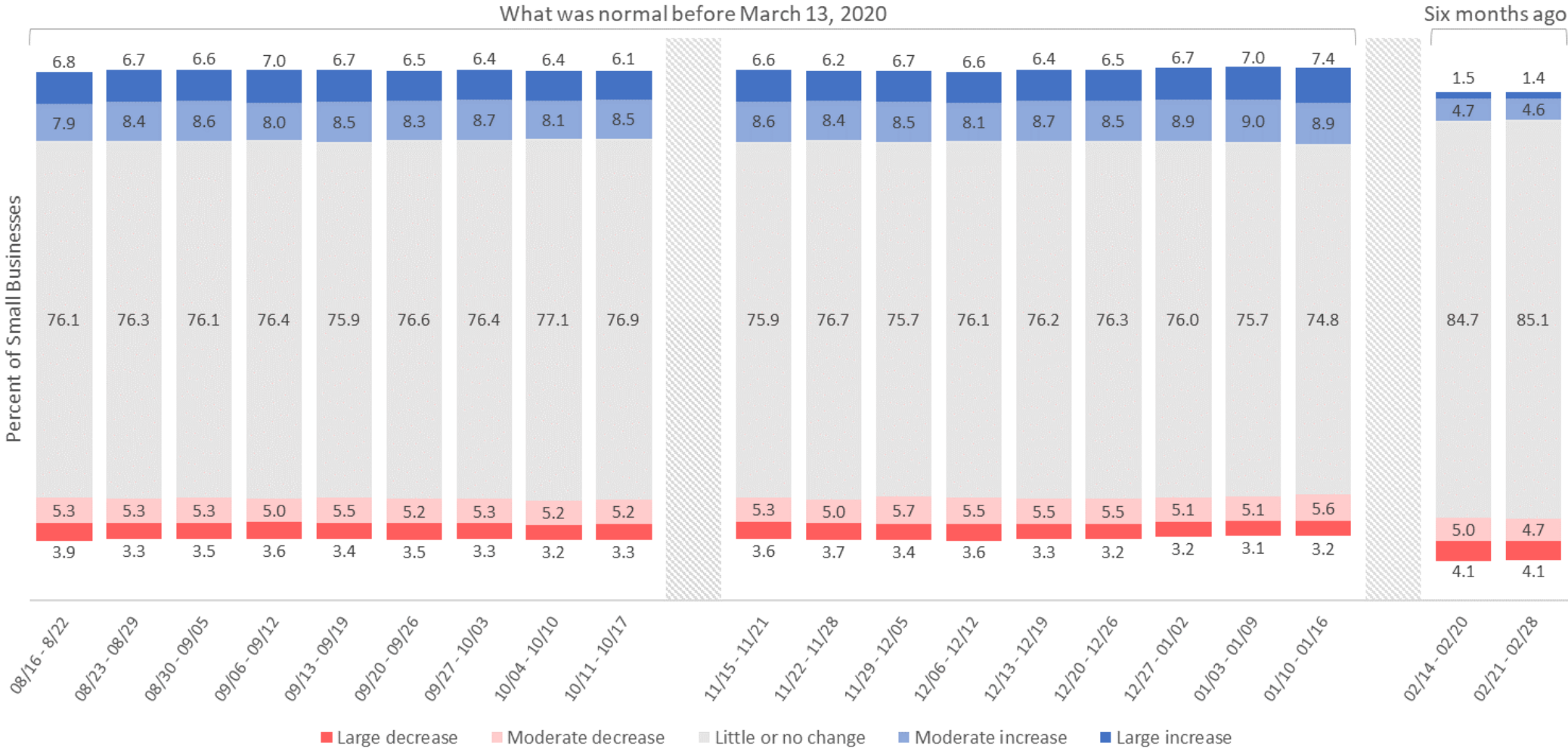
Changes to Business Practices

In the next six months, do you think this business will do any of the following?
 (Data Collected: 02/21/2022 - 02/27/2022)



Remote Work

How has the number of hours paid employees worked from home changed compared to...



Survey Indexes

Used to create a numeric representation of a question or set of questions.

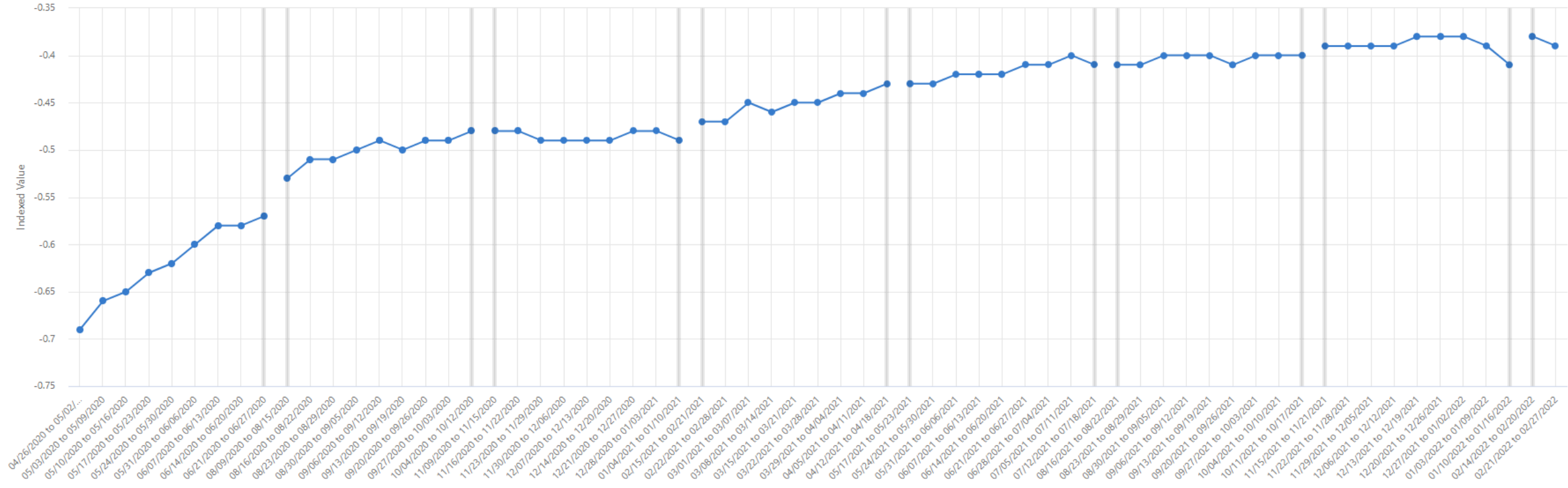
- Overall Sentiment Index (OSI) assesses the overall effect of the pandemic on businesses.
- Operational Challenges Index (OCI) assesses the overall effect of the pandemic on business operations
- Expected Recovery Index (ERI) summarizes the length of the expected recovery of businesses.

Index	Survey Question	Response Categories	Numerical Value Assigned
Overall Sentiment Index (OSI)	Q2 (Overall Impact)	Large negative effect	-1.0
		Moderate negative effect	-0.5
		Little or no effect	0.0
		Moderate positive effect	+0.5
		Large positive effect	+1.0
Operational Challenges Index (OCI)	Q4 (Revenue change)	Yes, increased	+1.0
		Yes, decreased	-1.0
		No	0.0
	Q5 (Temporary closure)	Temporary closure	-1.0
		Permanent closure	-1.0
		All other responses	0.0
	Q6 (Employment)	Yes, increased	+1.0
		Yes, decreased	-1.0
		No	0.0
	Q7 (Hours)	Yes, increased	+1.0
Yes, decreased		-1.0	
No		0.0	
Q11 (Supply chain)	Any response besides none of the above	-1.0	
	None of the above	0.0	
Expected Recovery Index (ERI)	Q21 (Expected recovery)	1 month or less	-0.2
		2-3 months	-0.4
		4-6 months	-0.6
		More than 6 months	-0.8
		I do not believe this business will return to its usual level of operations	-1.0
		There has been little or no effect on this business's usual level of operations	0.0

Overall Sentiment - National

Overall sentiment index

Index values range from [-1,1] with -1 (+1) representing the most negative (positive) sentiment.



Research Papers and Data Products

Papers

CATHERINE BUFFINGTON, DANIEL CHAPMAN, EMIN DINLERSOZ, LUCIA FOSTER, JIM HUNT, AND SHAWN KLIMEK

Small Business Pulse Survey Estimates by Owner Characteristics and Rural/Urban Designation

[View paper here](#)

WORKING PAPER NUMBER CES-WP-21-24 AUGUST 2021

CATHERINE BUFFINGTON, DANIEL CHAPMAN, EMIN DINLERSOZ, LUCIA FOSTER, AND JOHN HALTIWANGER

High-frequency data from the U.S. Census Bureau during the COVID-19 pandemic: small vs. new businesses

[View paper here](#)

BUSINESS ECONOMICS VOL. 56 JULY 2021

CATHERINE BUFFINGTON, JASON FIELDS, AND LUCIA FOSTER

Measuring the Impact of COVID-19 on Businesses and People: Lessons from the Census Bureau's Experience

[View paper here](#)

AEA PAPERS AND PROCEEDINGS VOL. 111 MAY 2021

CATHERINE BUFFINGTON, DANIEL CHAPMAN, EMIN DINLERSOZ, LUCIA FOSTER, AND JOHN HALTIWANGER

High Frequency Business Dynamics in the United States During the COVID-19 Pandemic

[View paper here](#)

WORKING PAPER NUMBER CES-21-06 MARCH 2021

CATHERINE BUFFINGTON, CARRIE DENNIS, EMIN DINLERSOZ, LUCIA FOSTER, AND SHAWN KLIMEK

Measuring the Effect of COVID-19 on U.S. Small Businesses: The Small Business Pulse Survey

[View paper here](#)

WORKING PAPER NUMBER CES-20-16 MAY 2020

SBPS for Owner Characteristic: Sex, P1

Source: SBPS 2020, ABS2018, ABS2019

Approval #: CBDRB-FY21-291

Research Data Product

Sex	Question	Answer	Survey Week	Estimate	SE
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Female SBPS for Owner Characteristic: Race, P1

Source: SBPS 2020, ABS2018, ABS2019

Approval #: CBDRB-FY21-291

Research Data Product

Race	Question	Answer	Survey Week	Estimate	SE
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Female AIAN SBPS for Owner Characteristic: Ethnicity, P1

Source: SBPS 2020, ABS2018, ABS2019

Approval #: CBDRB-FY21-291

Research Data Product

Ethnicity	Question	Answer	Survey Week	Estimate	SE
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Female AIAN SBPS for Owner Characteristic: Veteran Status, P1

Source: SBPS 2020, ABS2018, ABS2019

Approval #: CBDRB-FY21-291

Research Data Product

.....	Hispanic	Question	Answer	Survey Week	Estimate	SE
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Hispanic Veteran Status

Hispanic Veteran 1 1 1 45.9 2.46

Hispanic Veteran 1 1 2 40.2 3.13

Hispanic Veteran 1 1 3 38.1 2.86

Hispanic Veteran 1 1 4 42.2 2.81

Hispanic Veteran 1 1 5 40.8 2.95

Hispanic Veteran 1 1 6 32.7 2.32

Hispanic Veteran 1 1 7 30.4 3.54

Hispanic Veteran 1 1 8 36.2 2.57

Hispanic Veteran 1 1 9 34.8 2.01

Hispanic Veteran 1 1 10 30.0 2.71

Hispanic Veteran 1 1 11 31.5 2.71

Hispanic Veteran 1 1 12 31.5 2.71

Hispanic Veteran 1 1 13 31.5 2.71

Hispanic Veteran 1 1 14 31.5 2.71

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Hispanic Veteran 1 1 19 31.5 2.71

Hispanic Veteran 1 1 20 31.5 2.71

Hispanic Veteran 1 1 21 31.5 2.71

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Hispanic Veteran 1 1 23 31.5 2.71

Hispanic Veteran 1 1 24 31.5 2.71

Hispanic Veteran 1 1 25 31.5 2.71

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Hispanic Veteran 1 1 29 31.5 2.71

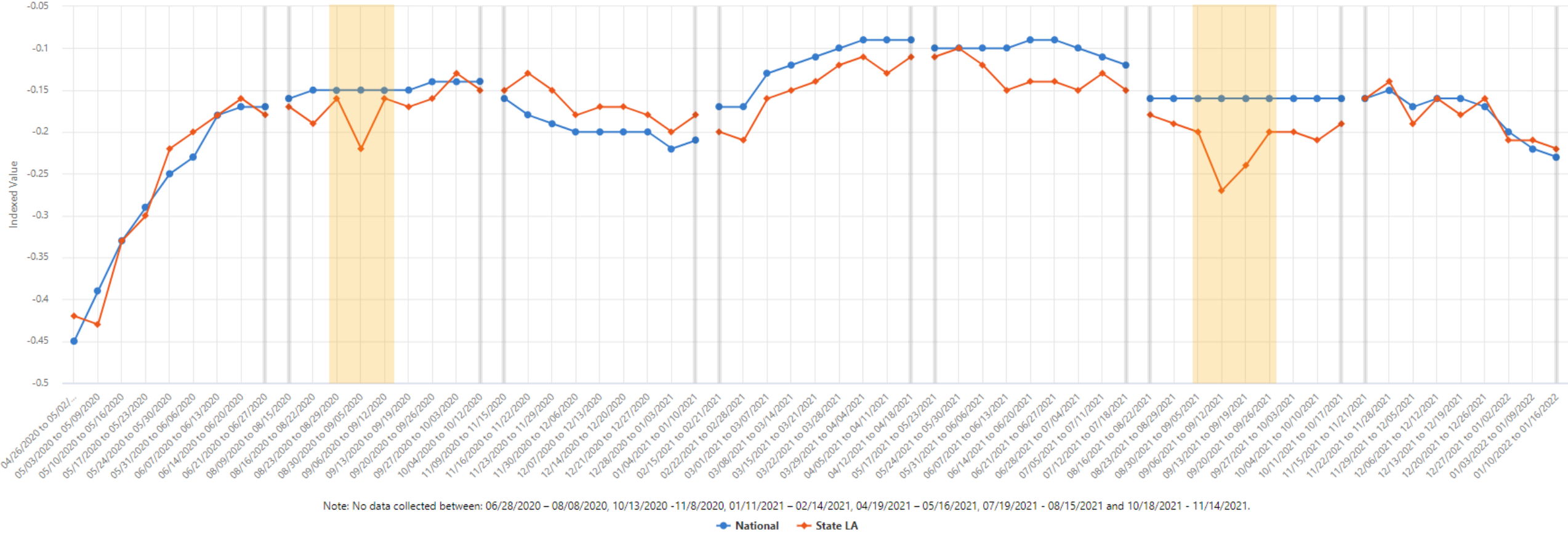
Providing Insights Beyond COVID

Operational challenges index

Index values range from [-1,1] with -1 (+1) representing the most (least) challenges.

Laura

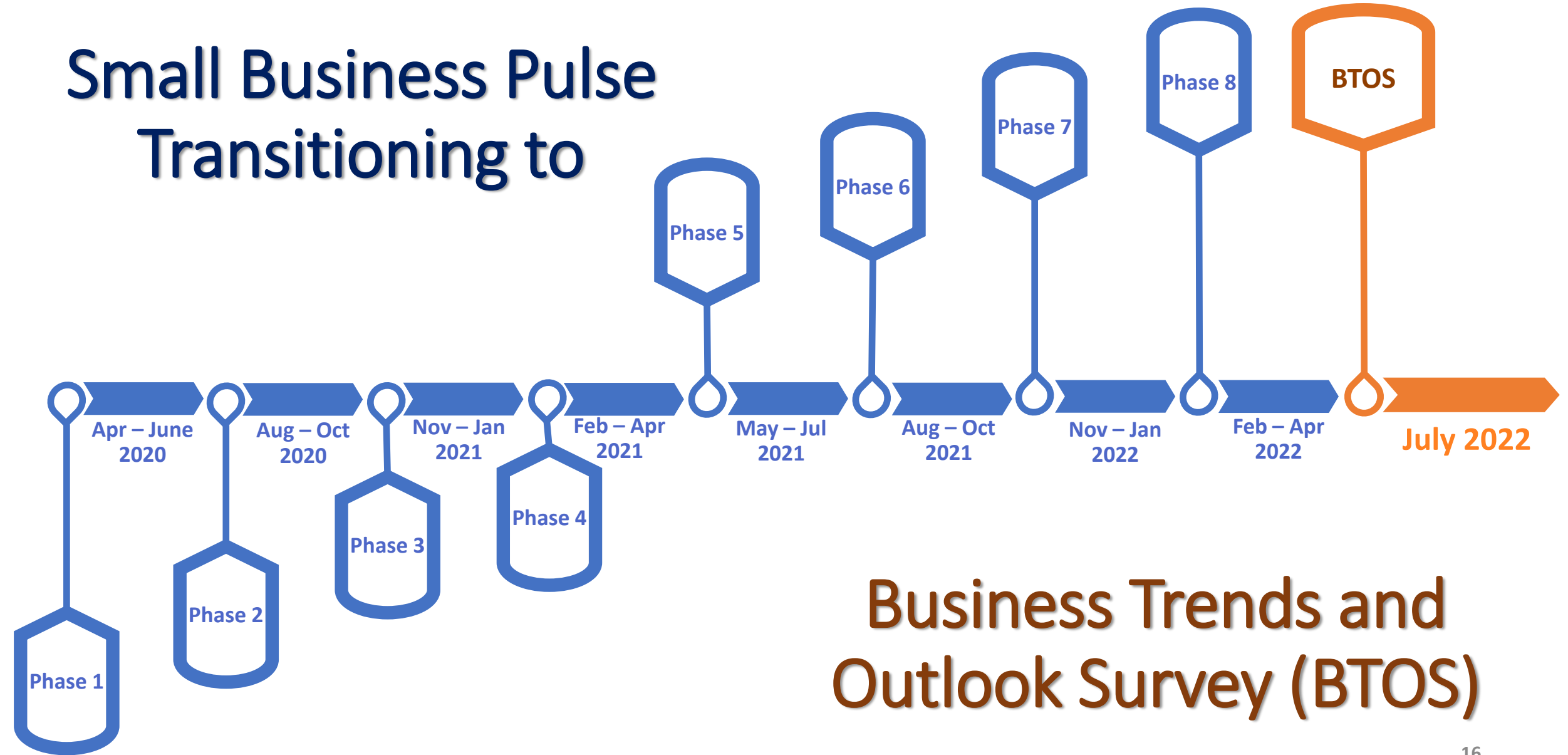
Ida



Note: No data collected between: 06/28/2020 – 08/08/2020, 10/13/2020 -11/8/2020, 01/11/2021 – 02/14/2021, 04/19/2021 – 05/16/2021, 07/19/2021 - 08/15/2021 and 10/18/2021 - 11/14/2021.

— National — State LA

Small Business Pulse Transitioning to



Business Trends and Outlook Survey (BTOS)

Changes With BTOS

Content

Pivot from COVID-19 to capturing:

- Economic baseline norms
- Unforeseen events and recovery

Timing

Bi-weekly data collection and publications with no gaps between phases.

Data Products

- New indexes summarizing core concepts
- Data available via API

BTOS Content

Reference Period

Prior two weeks

6-month outlook

Concepts

Performance

Revenue

Temporary Closures

Employment

Hours

Hiring Difficulties

Demand

Input/Output Prices

Supply Chain Delays

E-commerce

SBPS Links

- [Small Business Pulse Respondent Landing Page](#)
- [Small Business Pulse Data Landing Page](#)
- [Small Business Pulse Data Visualization and Downloads Page](#)
- COVID19 Data Hub Link – uses downloads data: <https://covid19.census.gov/>
 - ESRI uses data download files from data viz page (MSA, National, Sector)

SBPS & BTOS Contacts

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Development of the COVID-19 Household Pulse Survey

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Survey Director

Associate for Demographic Programs – Survey Operations

U.S. Census Bureau

Any opinions and conclusions expressed herein are those of the author and do not represent the views of the U.S. Census Bureau. All results are from the Household Pulse Survey website that notes the following: *The U.S. Census Bureau reviewed this data product for unauthorized disclosure of confidential information and approved the disclosure avoidance practices applied to this release. CBDRB-FY21-091.*

Setting the Stage



Issues of the Moment (as of Feb....)

- **Census 2020** – operations accelerating and April 1, 2020 Census Day imminent
- Declining response
- Maintaining data quality
- Enhancing use of administrative records and adaptive design
- Developing survey based small-area estimates
- Moving forward with disclosure protection development for surveys

COVID-19 ONSET [MARCH 13 through the end of MARCH]

- In-person field data collection ceased
- Mail-center activities at National Processing Center (NPC) ceased
- Telephone Interviewing (CATI) centers closed
- Field personnel shifted from in-person to decentralized telephone interviewing
- Headquarters staff were shifted to full-time telework

Survey changes

- Content changes for ongoing surveys was expedited, but did not change survey cycles

The Household Pulse



What are the goals of the pulse?

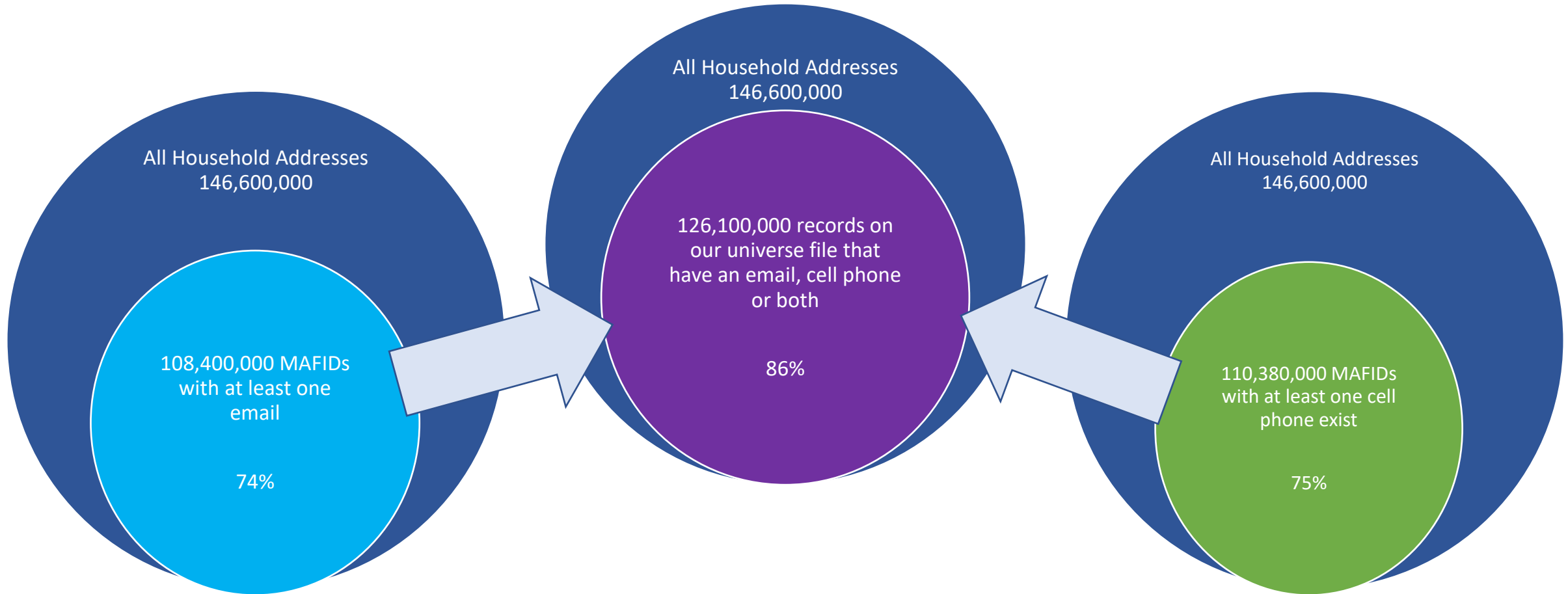
- Focus on quickly and efficiently, collecting data on a range of ways in which people's lives have been impacted by the pandemic
- Serve federal agencies to meet their critical information gaps in household information needed for their decisions related to the pandemic
- Provide data as rapidly as possible with as much transparency in methods and quality as possible
- Experimental data collection – Proof of concept – Accepting that this does not meet regular program quality standards

Frame



Contact frame and MAF

- Matched to Census Bureau's Master Address File (MAF) records
- Emails and phone numbers from respondent contacts and from third party vendors



Agency Collaboration



Rapid Collaboration and Extensive Expertise

- Subject matter experts recognized opportunity and limitations of the tools available
- Quickly aligned information requests to the limitations
- Cognitive labs at Census, NCHS, and BLS collaborated to evaluate proposed questionnaire content

Burden and success

- Rapidly expanding interest in the Household Pulse platform highlighted information gap and demand for rapid information sources
- Requests were well supported by programmatic needs to measure the impact of the pandemic and the course of the recovery.
- Response and respondent burden are ongoing concerns

Agency Partner	Phase 1 Apr 23 - Jul 21, 2020	Phase 2 Aug 19 – Oct 26, 2020	Phase 3 Oct 28 - Dec 21, 2020	Phase 3 Update Jan 6 – Mar 1, 2021	Phase 3.1 Apr 14 – July 5, 2021	Phase 3.2 Jul 21 – Oct 11, 2021	Phase 3.3 Dec 1, 2021 – Feb 7, 2022	Phase 3.4 Mar 2 – May 9, 2022
Bureau of Labor Statistics	X	X	X	X	X	X	X	X
National Center for Health Statistics	X	X	X	X	X	X	X	X
National Center for Education Statistics	X	X	X	X	X	X	X	X
Housing and Urban Development	X	X	X	X	X	X	X	X
USDA Economic Research Service	X	X	X	X	X	X	X	X
Office of Management and Budget	X	X	X	X	X	X	X	X
Bureau of Transportation Statistics		X	X	X	X		X	X
Social Security Administration		X	X	X	X			
Centers for Disease Control				X	X	X	X	X
Nat. Inst. of Occ. Health and Safety					X	X	X	X
Maternal and Child Health Bureau					X	X	X	X
Department of Defense				X	X	X	X	X
Energy Information Administration						X	X	X
Consumer Finance Protection Bureau						X	X	X
Council of Economic Advisors						X	X	X
Domestic Policy Council						X	X	X
AVERAGE INTERVIEW LENGTH	11 MIN	18-20 MIN	18-20 MIN	18-20 MIN	20-21 MIN	22 MIN	22 MIN	22 MIN



U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
[census.gov](https://www.census.gov)

Responses



PHASE 1 Week	Interviews	Weighted Response Rate
April 23 – May 5 : Week 1	74,413	3.8
May 7 – May 12 : Week 2	41,996	1.3
May 14 – May 19 : Week 3	132,961	2.3
May 21 – May 26 : Week 4	101,215	3.1
May 28 – June 2 : Week 5	105,066	3.5
June 4 – June 9 : Week 6	83,302	3.1
June 11 – June 16: Week 7	73,472	2.3
June 18 – June 23: Week 8	108,062	2.9
June 25 – June 30: Week 9	98,663	3.3
July 2 – July 7: Week 10	90,767	3.2
July 9 – July 14: Week 11	91,605	3.1
July 16 – July 21: Week 12	86,792	2.9

PHASE 2/3 Week	Interviews	Weighted Response Rate
Aug. 19 – Aug. 31: Week 13	109,051	10.3
Sept. 2 – Sept. 14: Week 14	110,019	10.3
Sept. 16 – Sept. 28: Week 15	99,302	9.2
Sept. 30 – Oct. 12: Week 16	95,604	8.8
Oct. 14 – Oct. 26: Week 17	88,716	8.1
Oct. 28 – Nov. 9: Week 18	58,729	5.3
Nov. 11 – Nov. 23: Week 19	71,939	6.6
Nov. 25 – Dec. 7: Week 20	72,484	6.7
Dec. 9 – Dec. 21: Week 21	69,944	6.5
PHASE 3 Week	Interviews	Weighted Response Rate
Jan. 6 – Jan. 18, 2021: Week 22	68,348	6.4%
Jan. 20 – Feb. 1: Week 23	80,567	7.5%
Feb. 3 – Feb. 15: Week 24	77,122	7.3%
Feb. 17 – March 1: Week 25	77,788	7.3%
March 3 – March 15: Week 26	78,306	7.4%
March 17 – March 29: Week 27	77,104	7.2%

PHASE 3.1 Week	Interviews	Weighted Response Rate
April 14 – April 26: Week 28	68,913	6.6%
April 28 – May 10: Week 29	78,467	7.4%
May 12 – May 24: Week 30	72,897	6.8%
May 26 – June 7: Week 31	70,854	6.7%
June 9 – June 21: Week 32	68,067	6.4%
June 23 – July 5: Week 33	66,262	6.3%

PHASE 3.2 Week	Interviews	Weighted Response Rate
July 21 – Aug. 2: Week 34	64,562	6.1%
Aug. 4 – Aug. 16: Week 35	68,799	6.5%
Aug. 18 – Aug. 30: Week 36	69,114	6.5%
Sept. 1 – Sept. 13: Week 37	63,536	6.0%
Sept. 15 – Sept. 27: Week 38	59,833	5.6%
Sept. 29 – Oct. 11: Week 39	57,064	5.4%

PHASE 3.3 Week	Interviews	Weighted Response Rate
Dec. 1 – Dec. 13: Week 40	60,826	5.8%
Dec. 29 – Jan. 10, 2022: Week 41	74,995	7.2%
Jan. 26 – Feb. 7: Week 42	75,482	7.2%

**TOTAL 45,383,353 Sampled Units
3,407,692 Interviews**



U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
[census.gov](https://www.census.gov)

Content: Phase 3.4

Basic demographics

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

Employment questions

Employment and employment income (BLS/Census)
Unemployment Insurance receipt (BLS)
Spending source of funds (BLS)
Child Tax Credit receipt (CEA/DPC/BLS/Census)
Series on expenditures (BLS)
Essential worker occupations (NIOSH)

Food security questions

Past and current food sufficiency (USDA-ERS)
Free meals (USDA-ERS)
SNAP receipt (USDA-ERS)

Health questions

Mental health and mental health services use (NCHS)
Health insurance (NCHS/Census)
Vaccination receipt, intentions, and COVID diagnosis (CDC)
Children's vaccination receipt (CDC)
Tele/Video health (NCHS/MCHB)
Children's preventive health care (MCHB)

Housing questions

Tenure (HUD)
Living quarters (HUD)
Rent and mortgage current payment status (HUD)
Confidence about paying rent/mortgage next month (HUD)
Eviction and foreclosure expectations (HUD)
Months behind on rent/mortgage (CFPB)
Use of rent assistance (CFPB)
Energy assistance and use (EIA)
Transportation use (BTS)

Education questions

Post-Secondary questions (NCES)
Distance Learning (NCES)



Figure: 1 Percent of Men and Women Not Working Because of Children's Arrangements among Adults who are Not Retired or Out of the Labor Force

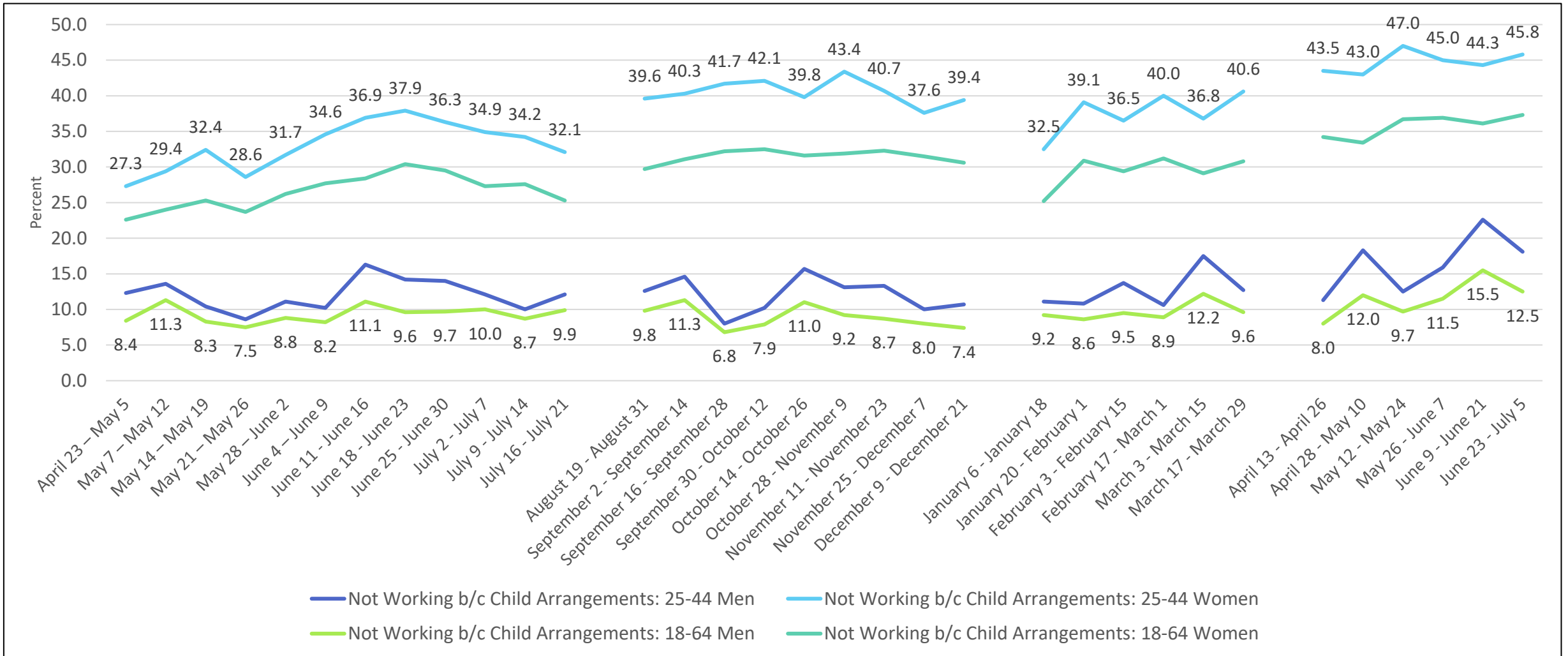


Figure 2: Percent of Adults Expecting Loss in Employment Income

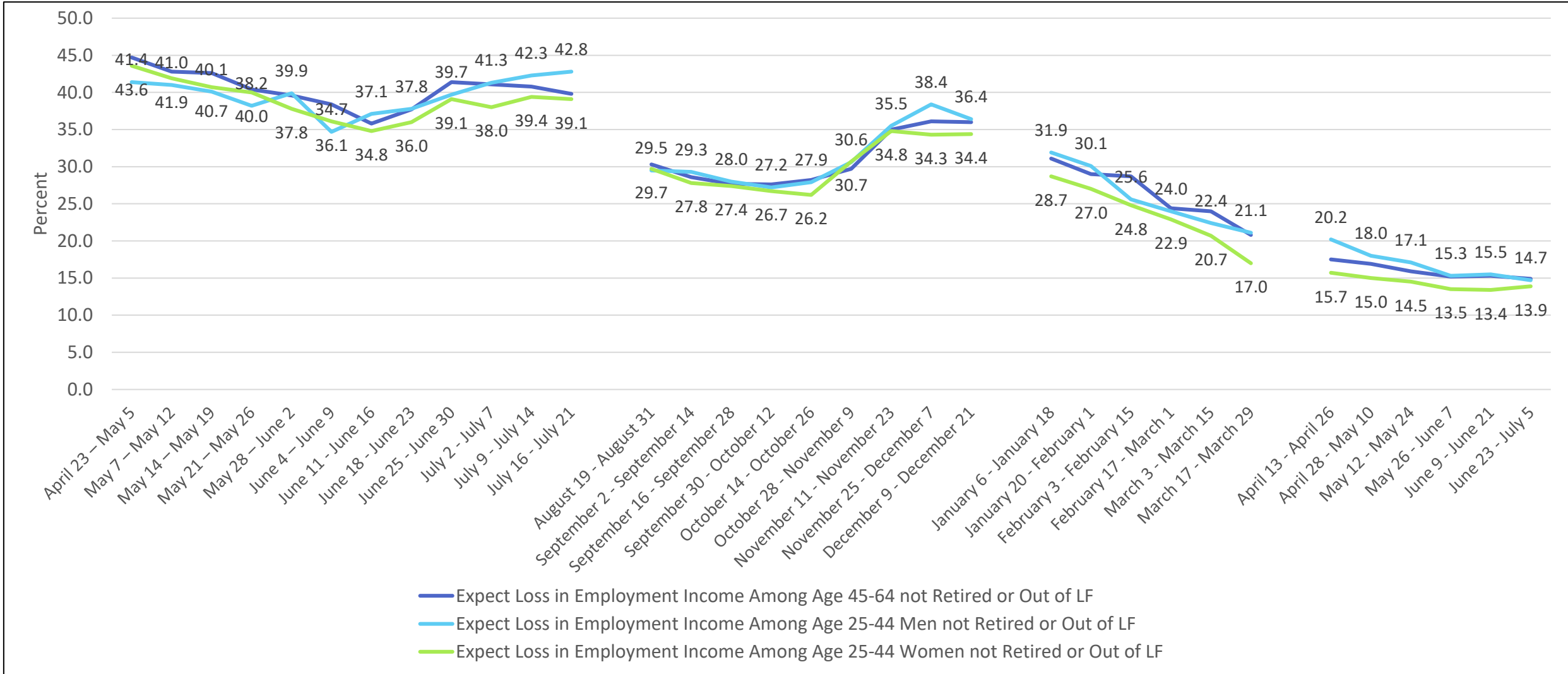


Figure 3: Percent of Adults in Households Where One Adult Has Substituted Some or All of Their Typical In-Person Work for Telework Because of the Coronavirus Pandemic

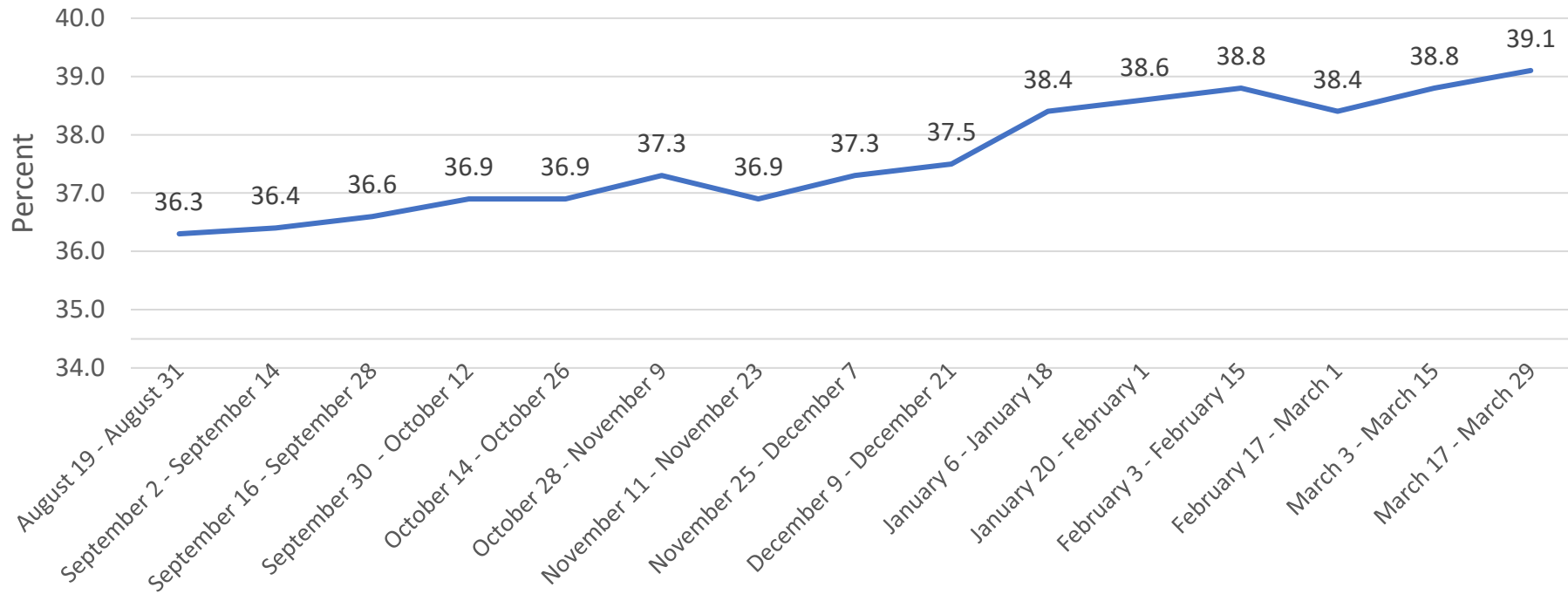
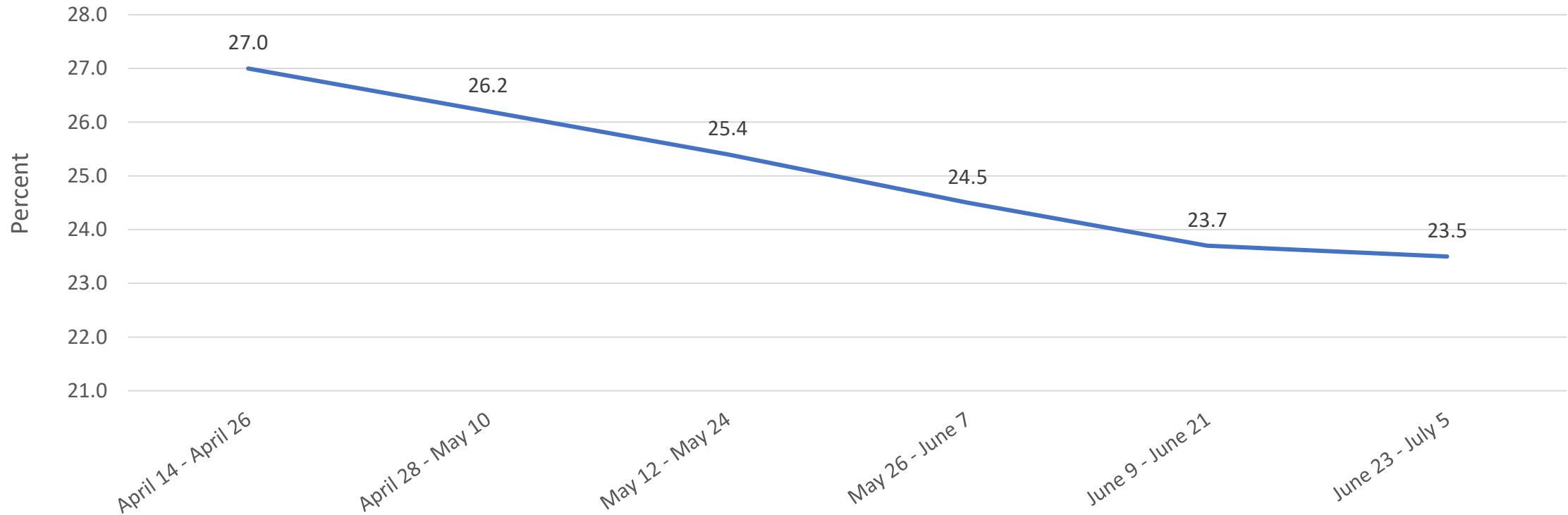


Figure 4: Percent of Adults in Households Where At Least One Adult Has Teleworked Because of the Coronavirus Pandemic in the Last 7 Days



America Counts: Stories Behind the Numbers – “Working From Home During the Pandemic: Those Who Switched to Telework Have Higher Income, Education and Better Health”



POPULATION

Working From Home During the Pandemic

The U.S. Census Bureau’s Household Pulse Survey shows that those who increased frequency of telework had higher income and education and better health.



Figure 5: America Counts: Stories Behind the Numbers – “Those Who Switched to Telework Have Higher Income, Education and Better Health”

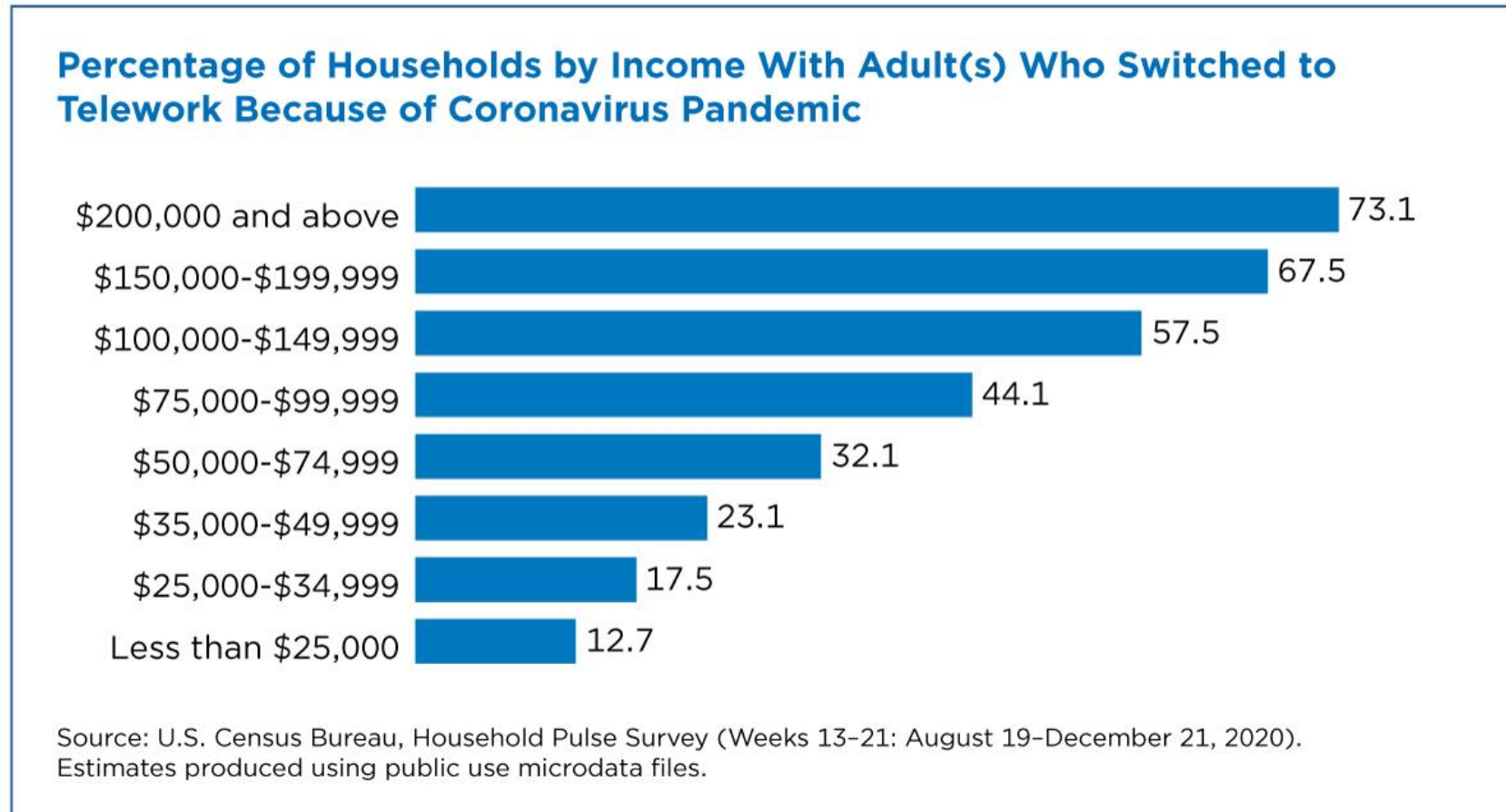


Figure 6: America Counts: Stories Behind the Numbers – “Those Who Switched to Telework Have Higher Income, Education and Better Health”

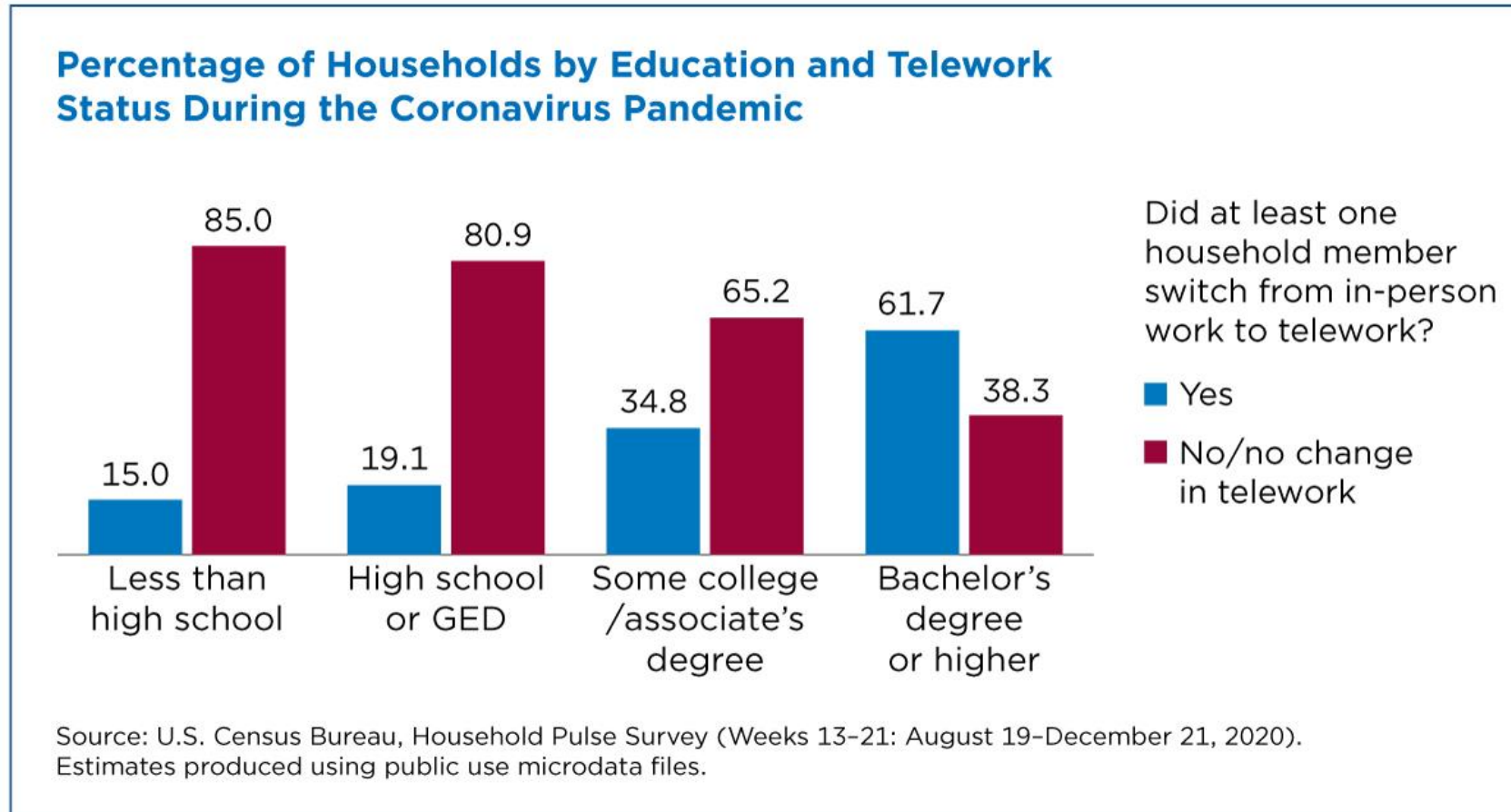
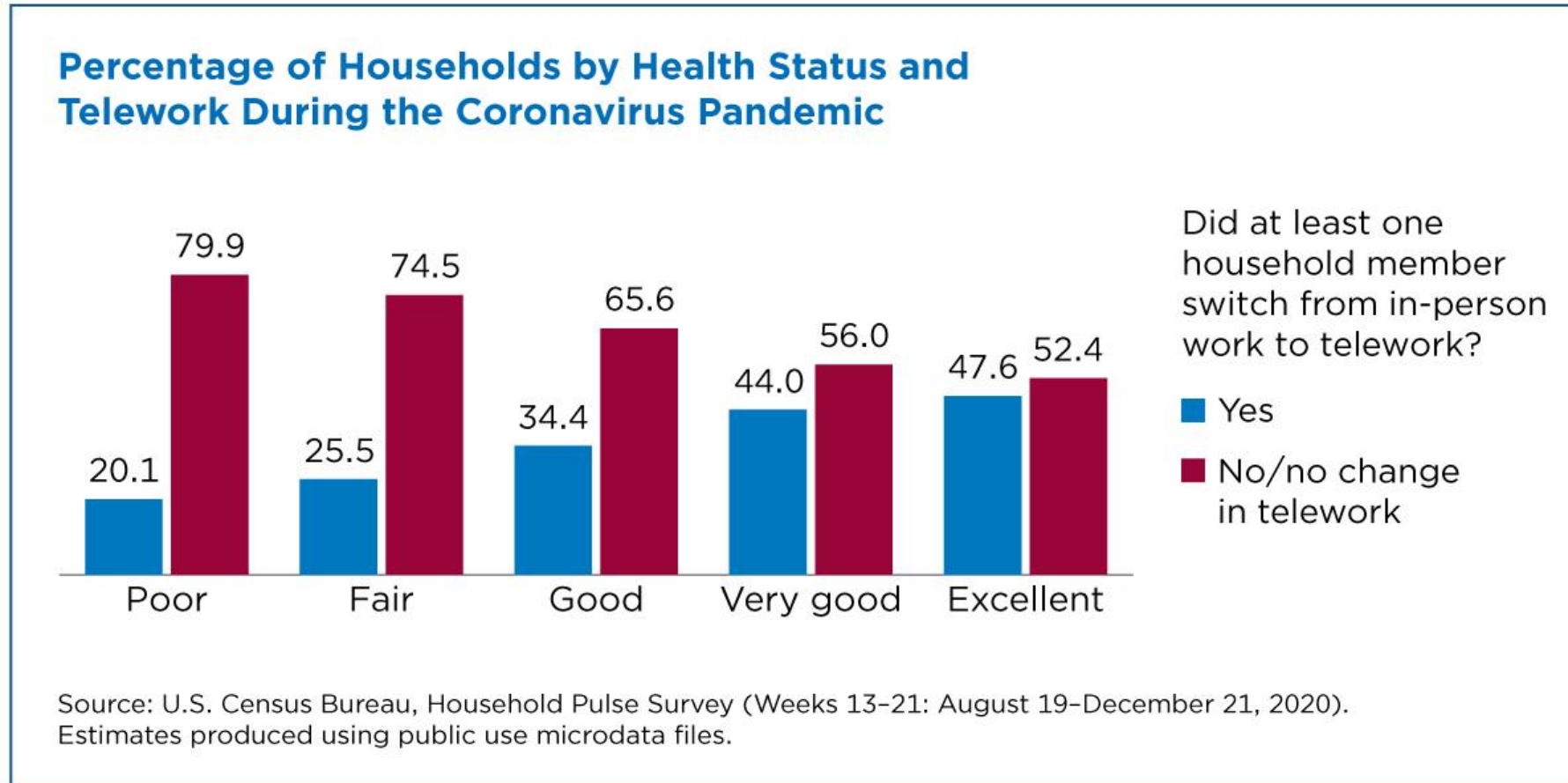


Figure 7: America Counts: Stories Behind the Numbers – “Those Who Switched to Telework Have Higher Income, Education and Better Health”



Data outputs

The screenshot shows the top navigation bar of the Census Bureau website with a search bar and menu items like 'EXPLORE DATA', 'LIBRARY', and 'SURVEYS/ PROGRAMS'. The main content area features the title 'Measuring Household Experiences during the Coronavirus Pandemic' and a sub-header 'What is the Household Pulse Survey?'. Below this, there are four orange buttons: 'DATA TABLES', 'PUBLIC USE FILES', 'INTERACTIVE TOOL', and 'COVID-19 VACCINATION TRACKER'. The 'DATA TABLES' and 'PUBLIC USE FILES' buttons are circled in black. A small icon for 'EXPERIMENTAL DATA' is also visible.

<https://www.census.gov/householdpulsedata>



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

EDUCATION

Homeschooling on the Rise During COVID-19 Pandemic
The U.S. Census Bureau's Household Pulse Survey shows a substantial increase in homeschooling during COVID-19.

FAMILIES

Despite Unemployment Insurance, Many Households Struggle to Meet Basic Needs
The Household Pulse Survey shows that 31.2% of households that used unemployment insurance reported a very difficult time paying for usual household expenses.

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.

America Counts: Stories Behind the Numbers

<https://www.census.gov/library/stories/all.html>

Detailed Transportation Table 1 – Telework During the Pandemic



Transportation Table 1. Teleworking during the Coronavirus Pandemic, by Select Characteristics: United States

Source: U.S. Census Bureau Household Pulse Survey, Week 33.



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.**

Total Population 18 Years and Older

Select characteristics	Total	Some adult in household teleworked in the last 7 days				
		Yes			No	Did not report
		Because of the coronavirus pandemic	Not because of the coronavirus pandemic	Did not report		
Total	250,265,449	57,995,930	13,547,081	206,268	174,904,689	3,611,482
Age						
18 - 24	20,501,837	6,073,109	1,357,722	-	12,901,727	169,280
25 - 39	66,960,518	20,073,200	3,217,432	65,950	42,784,617	819,319
40 - 54	63,890,830	17,606,219	4,067,527	32,491	41,354,013	830,580
55 - 64	43,385,406	8,846,636	2,582,253	29,234	31,338,615	588,668
65 and above	55,526,858	5,396,766	2,322,147	78,593	46,525,716	1,203,636
Sex						
Male	121,078,275	29,009,121	7,167,800	77,000	83,029,460	1,794,893
Female	129,187,174	28,986,808	6,379,281	129,267	91,875,228	1,816,589
Hispanic origin and Race						
Hispanic or Latino (may be of any race)	42,916,194	7,742,346	1,583,061	13,906	32,619,603	957,277
White alone, not Hispanic	156,306,222	37,422,309	9,906,540	130,336	107,065,004	1,782,034
Black alone, not Hispanic	28,501,773	5,548,255	1,048,648	58,169	21,244,955	601,746
Asian alone, not Hispanic	13,613,405	5,107,555	644,648	1,210	7,677,246	182,745
Two or more races + Other races, not Hispanic	8,927,855	2,175,465	364,184	2,647	6,297,881	87,679
Education						
Less than high school	20,053,979	1,578,169	460,227	4,907	17,330,550	680,126
High school or GED	77,310,601	8,386,258	2,593,185	64,489	64,799,226	1,467,443
Some college/associate's degree	75,639,514	15,575,540	4,228,769	60,216	54,948,190	826,799

Interactive Tool




// Census.gov / Our Surveys & Programs / Household Pulse Survey / Data / Household Pulse Survey


Household Pulse Survey

Select an Estimate:

Telework (Because of Coro...

Filter By:

States: —

Metro Areas: —

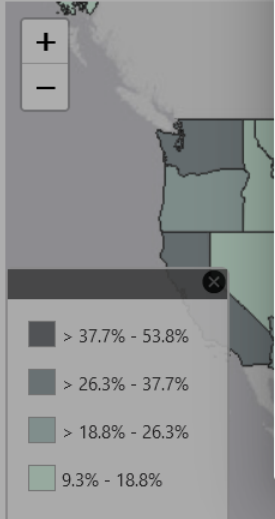
Map and Chart Display:

Week: 33

Show: States

Reset

The Household Pulse Survey is designed to deploy quickly and efficiently, collecting data on a range of ways in which people's lives have

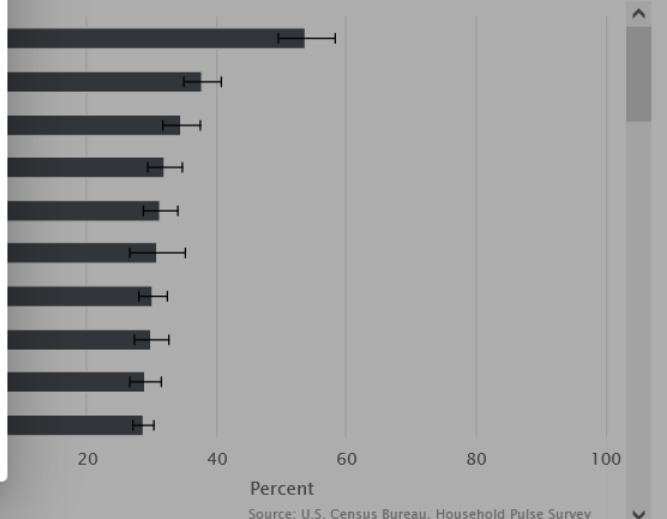


Legend:

- > 37.7% - 53.8%
- > 26.3% - 37.7%
- > 18.8% - 26.3%
- 9.3% - 18.8%

us pandemic in the last 7 days

Week 33



Percent

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

Choose Estimate

Estimate	Weeks Available
<input style="width: 100%;" type="text"/>	
<ul style="list-style-type: none"> > Education (5) > Employment (3) > Food Sufficiency and Security (2) > Health (5) > Housing (4) > Spending (2) ▼ Transportation (3) <ul style="list-style-type: none"> Telework (Substituted for in Person Work) 13 through 27 <li style="background-color: #e1f5fe;">Telework (Because of Coronavirus) 28 through 33 Planned Trips 28 through 33 	
<p>▼ Expand All ▶ Collapse All</p> <p>CANCEL OK</p>	

Telework (Because of Coronavirus): Adults in households where at least one adult has teleworked because of the coronavirus pandemic in the last 7 days

Is this page helpful? ✕

👍 Yes
👎 No

Interactive Tool –Telework



// Census.gov / Our Surveys & Programs / Household Pulse Survey / Data / Household Pulse Survey Interactive Tool

Household Pulse Survey



Select an Estimate:

Telework (Because of Coro...

Filter By:

States: —

Metro Areas: —

Map and Chart Display:

Week: 33

Show: States

Reset

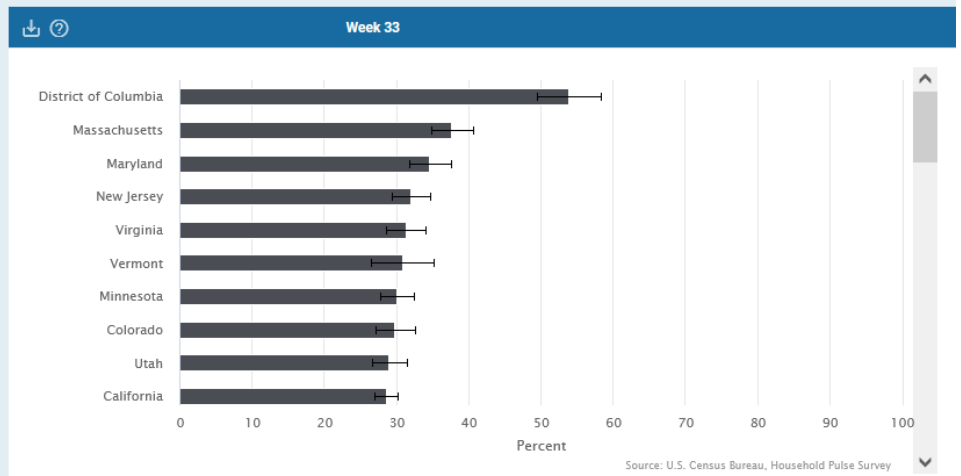
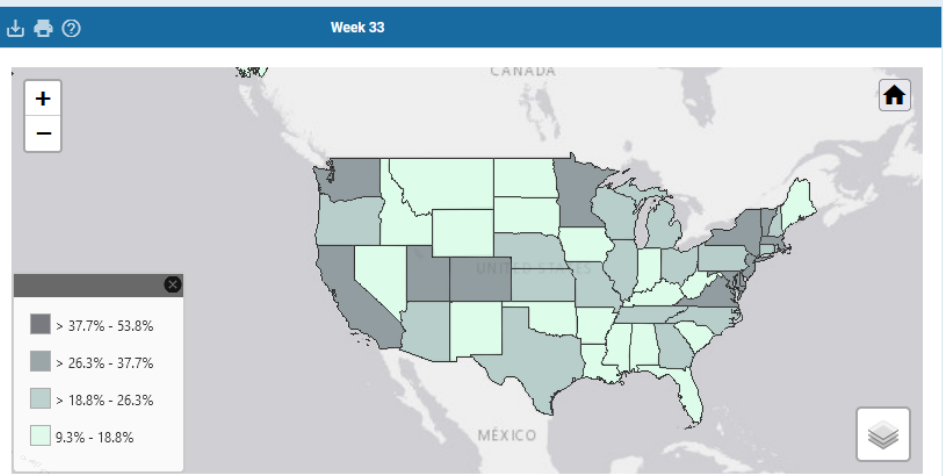
The Household Pulse Survey is designed to deploy quickly and efficiently, collecting data on a range of ways in which people's lives have been impacted by the pandemic. Data will be disseminated in near real-time to inform federal and state response and recovery planning.

Notes:

- Percentages are based on reporting distributions and do not include the populations that did not report to specific items.
- A margin of error is a measure of an estimate's variability. This number,

Telework (Because of Coronavirus)

Percentage of adults in households where at least one adult has teleworked because of the coronavirus pandemic in the last 7 days



Telework (Because of Coronavirus): Adults in households where at least one adult has teleworked because of the coronavirus pandemic in the last 7 days

		Total Telework (Because of Coronavirus)			Percent Telework (Because of Coronavirus)				
Week	Area	Number	Margin of Error +/-	Percent	MOE +/-	Measure Universe	Total Population age 18+		
33	United States	57,995,930	1,150,196	23.5	0.5	246,653,967	250,265,449		
33	Alabama	566,468	108,211	15.4	2.9	3,673,208	3,737,637		
33	Alaska	89,991	12,271	17.3	2.4	519,599			
33	Arizona	1,399,262	136,596	24.5	2.4	5,701,600			

Is this page helpful?



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Lessons Learned: Where do we go from here?



What we did

- React to the disruption of our information systems to provide additional resources

What did it tell us?

- Data collection – a place for low response data collection with enough caution
- Data processing – limited data processing has an appropriate use
- Incredible hunger and need for new and rapid information sources especially during major events
- New work highlighted gaps in staffing that would be needed to support it

What we need

- Continue development of integrated data resources that can generate rapid, reliable estimates to support information needs
- Geographic requirements (national, states, regions, small areas) – ability to serve all the above
- Integrate small-area estimates feasibility into the design and coverage requirements
- Incorporate administrative records and adaptive design to monitor and adjust data collection



Household Pulse Resources – External Links

Household Pulse Survey main page:

<https://www.census.gov/householdpulsedata>

Data tool:

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

Vaccine tracker:

<https://www.census.gov/library/visualizations/interactive/household-pulse-survey-covid-19-vaccination-tracker.html>

Data Tables main page:

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

Technical Documentation:

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

Survey Respondent overview:

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

National Center for Health Statistics Data Tool: <https://www.cdc.gov/nchs/covid19/pulse/mental-health.htm>