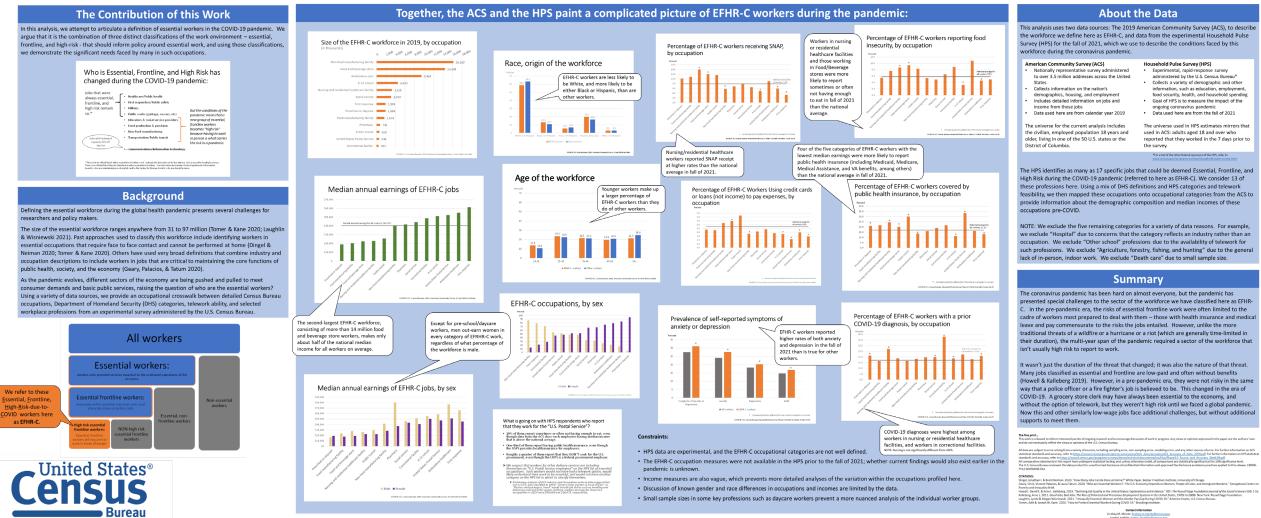
ESSENTIAL, FRONTLINE, & HIGH RISK:

How COVID-19 Prioritized Low-wage Workers while Heightening their Disadvantage

By Lindsay M. Monte & Lynda Laughlin, Social, Economic & Housing Statistics Division, U.S. Census Bureau



Presented at the Population Association of America Atlanta, GA April 6-9, 2022

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Poster prepared for PAA 2022

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Who are essential workers?

Defining the essential workforce during the global health pandemic presents several challenges for researchers and policy makers:

- The size of the essential workforce ranges anywhere from 31 to 97 million (Tomer & Kane 2020; Laughlin & Wisniewski 2021).
- Past approaches used to classify this workforce include identifying workers in essential occupations that require face to face contact and cannot be performed at home (Dingel & Neiman 2020; Tomer & Kane 2020).
- Others have used very broad definitions that combine industry and occupation descriptions to include workers in jobs that are critical to maintaining the core functions of public health, society, and the economy (Geary, Palacios, & Tatum 2020).



In this analysis, we attempt to articulate a definition of essential workers in the COVID-19 pandemic. We argue that it is the combination of three distinct classifications of the work environment – **essential**, **frontline, and high-risk** - that should inform policy around essential work, and using those classifications, we demonstrate the significant needs faced by many in such occupations.

> We refer to these <u>Essential, Frontline, High-</u> <u>Risk-due-to-COVID</u> workers here as **EFHR-C**.

All workers

Essential workers:

workers who provided services essential to the continued operations of the economy

Essential frontline workers:

employees within essential industries who must physically show up to their jobs

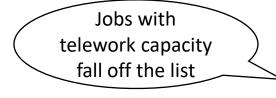
High risk essential frontline workers:

Essential, frontline workers still required to work in times of danger NON-high risk essential frontline workers Essential, nonfrontline workers Non-essential workers



Who is Essential, Frontline, and High Risk has changed during the COVID-19 pandemic:

Jobs that were always essential, frontline, and high risk remain so.*



- Healthcare/Public health
- First responders/Public safety
- Military
- Public works (garbage, sewers, etc)
 - Educators & Social service providers
 - Food production & provision
 - Non-food manufacturing
 - Transportation/Public transit

But the conditions of the pandemic mean that a new group of essential, frontline workers becomes "high risk" because having to work in person is what carries the risk in a pandemic.

-Communications/Information technology



*This is not an official list of either essential or frontline work. Instead, this list is derived by the authors, who crosswalked multiple sources. There is no official list of the jobs classified as either essential or frontline. We refer interested readers to the Department of Homeland Security, who are maintaining an evolving list, and to the Center for Disease Control, who are doing the same.

About the Data

This analysis uses two data sources:

- 1. The 2019 American Community Survey (ACS), to describe the workforce we define here as EFHR-C, and
- 2. Data from the experimental Household Pulse Survey (HPS) for the fall of 2021, which we use to describe the conditions faced by this workforce during the coronavirus pandemic.



American Community Survey (ACS)

- Nationally-representative survey administered to over 3.5 million addresses across the United States
- Collects information on the nation's demographics, housing, and employment
- Includes detailed information on jobs and income from those jobs
- Data used here are from calendar year 2019

The universe for the current analysis includes the civilian, employed population 18 years and older, living in one of the 50 U.S. states or the District of Columbia.



Household Pulse Survey (HPS)

- Experimental, rapid-response survey administered by the U.S. Census Bureau*
- Collects a variety of demographic and other information, such as childcare, education, employment, food security, health, and household spending
- Goal of HPS is to measure the impact of the ongoing coronavirus pandemic
- Data used here are from the fall of 2021

The universe used in HPS estimates mirrors that used in ACS: adults aged 18 and over who reported that they worked in the 7 days prior to the survey.



The HPS identifies as many as 17 specific jobs that could be deemed Essential, Frontline, and High Risk during the COVID-19 pandemic (referred to here as EFHR-C). We consider 13 of these professions here:

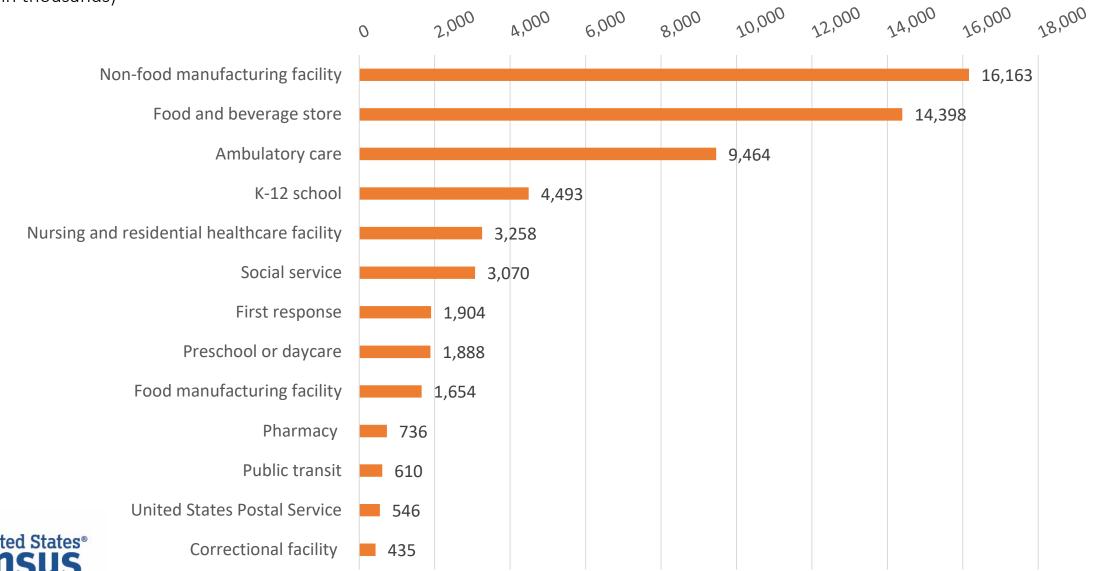
- Healthcare/public health
 - 1. Ambulatory healthcare workers (e.g. doctor, dentist or mental health specialist office, outpatient facility, medical and diagnostic laboratory, home health care)
 - 2. Pharmacy workers
 - 3. Nursing and residential healthcare facility workers
- First responders/public safety
 - 4. First responders (e.g., police or fire protection, emergency relief services)
 - 5. Correctional facility workers (e.g., jail, prison, detention center, reformatory)
- Public Works
 - 6. "United States Postal Service"
- Educators & Social Service providers
 - 7. Preschool or daycare workers
 - 8. K-12 school workers
 - 9. Social Service workers (e.g., child, youth, family, elderly, disability services)
- Food production & provision
 - **10.** Food & beverage store workers (e.g., grocery store, warehouse club, supercenters, convenience store, specialty food store, bakery)
 - 11. Food manufacturing facility workers (e.g., meat-processing, produce packing, food or beverage manufacturing)
- 12. Non-food manufacturing workers (e.g. metals, equipment and machinery, electronics)
- 13. Public transit workers (e.g., bus, commuter rail, subway, school bus)



NOTE: We exclude the five remaining categories for a variety of data reasons. For example, we exclude "Hospital" due to concerns that the category reflects an industry rather than an occupation. We exclude "Other school" professions due to the availability of telework for such professions. We exclude "Agriculture, forestry, fishing, and hunting" due to the general lack of in-person, indoor work. We exclude "death care" due to small sample size.

Size of the EFHR-C workforce in 2019, by occupation

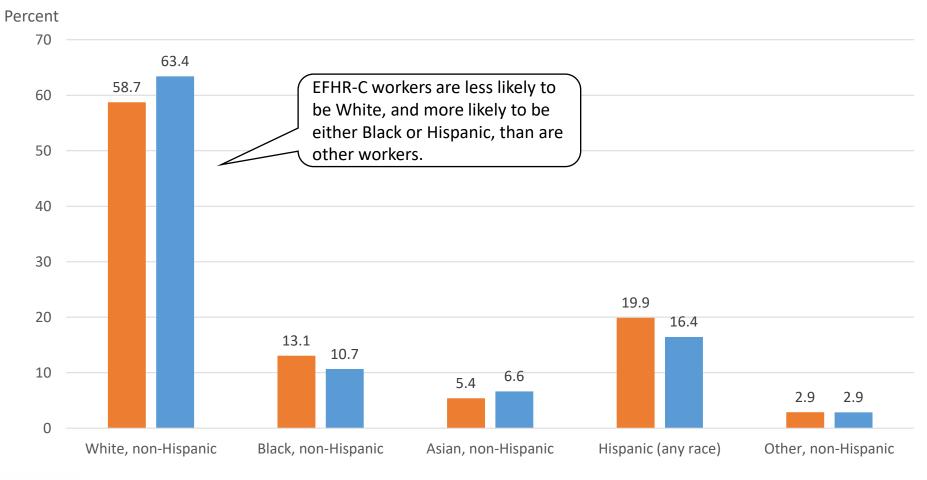
(in thousands)



ensus

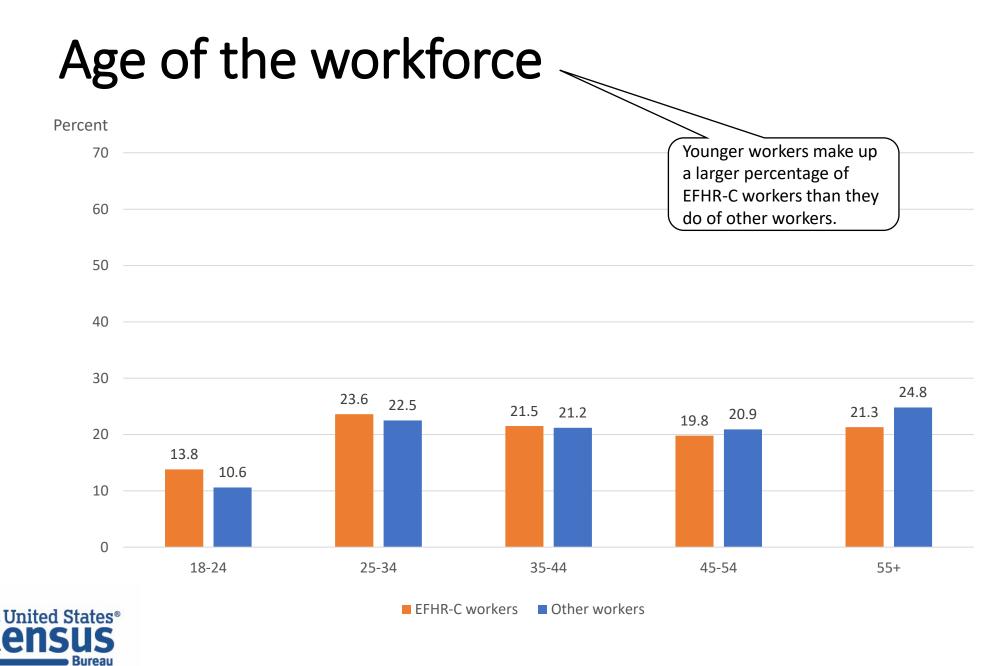
All comparative statements in this report have undergone statistical testing, and, unless otherwise noted, all comparisons are statistically significant at the 10% significance level.

Race, origin of the workforce

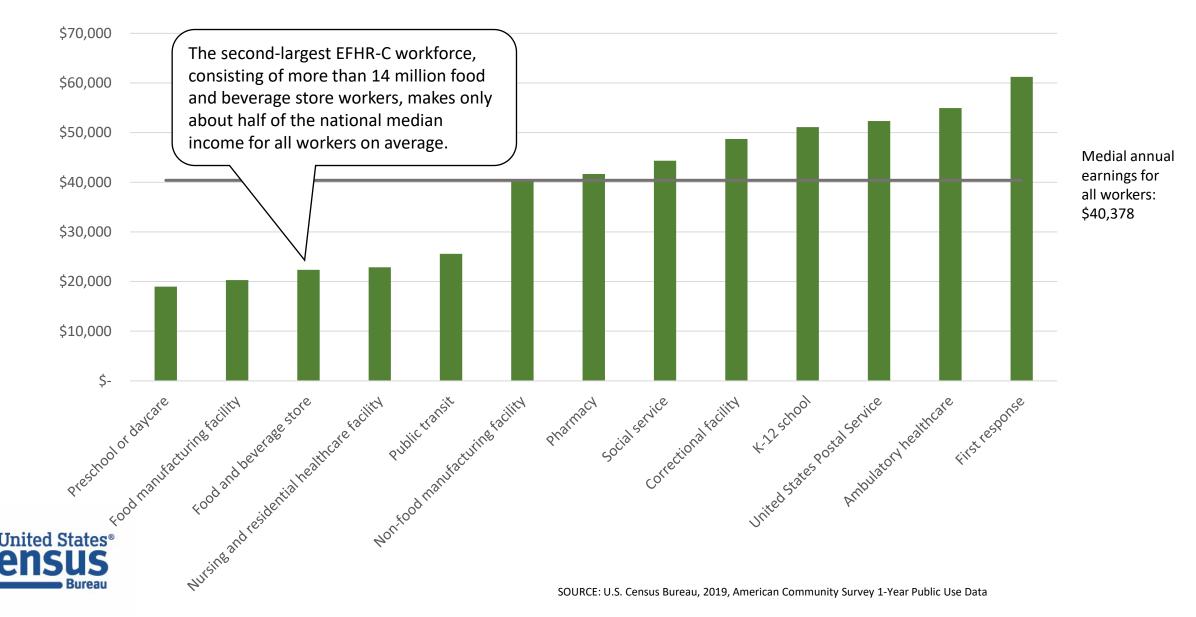


■ EFHR-C workers ■ Other workers

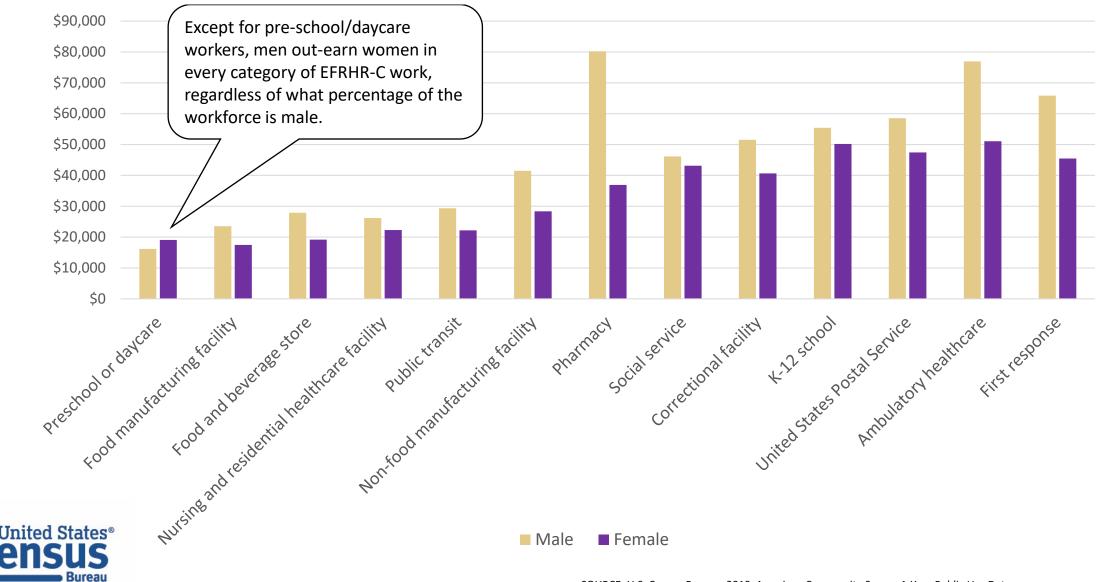




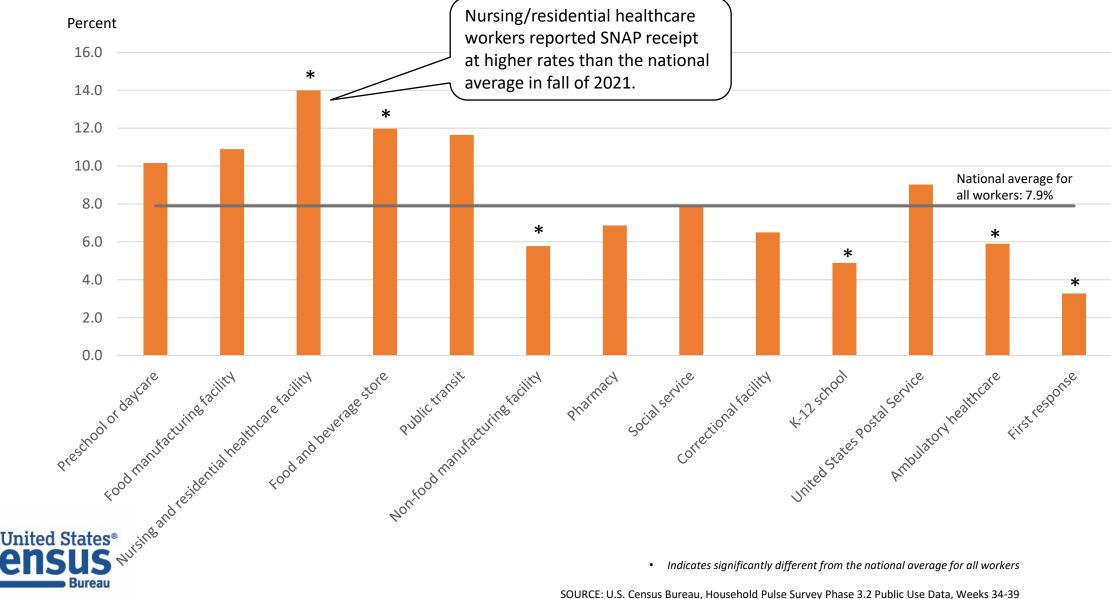
Median annual earnings of EFHR-C jobs



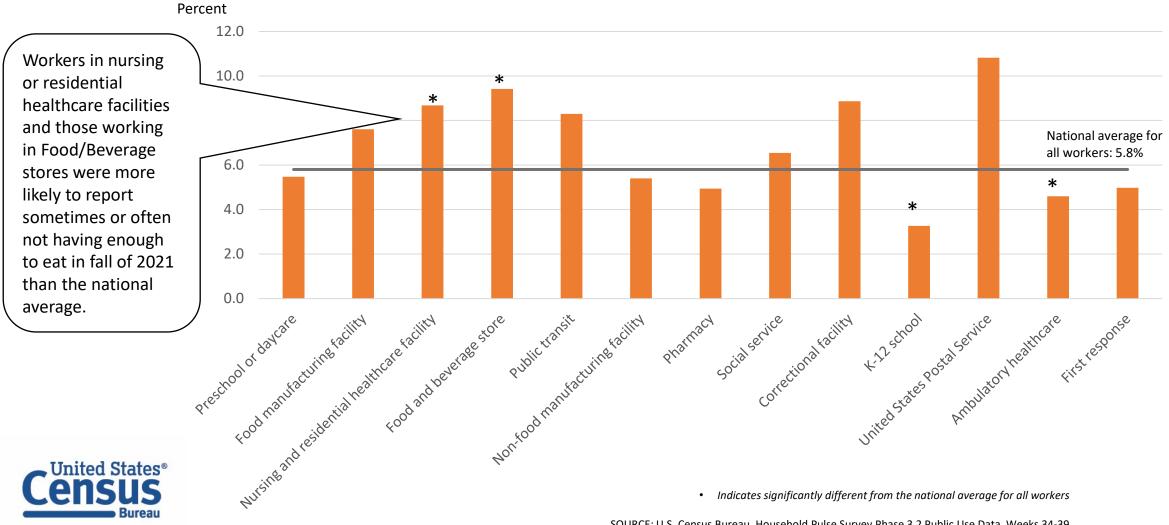
Median annual earnings of EFHR-C jobs, by sex



Percentage of EFHR-C workers receiving SNAP, by occupation

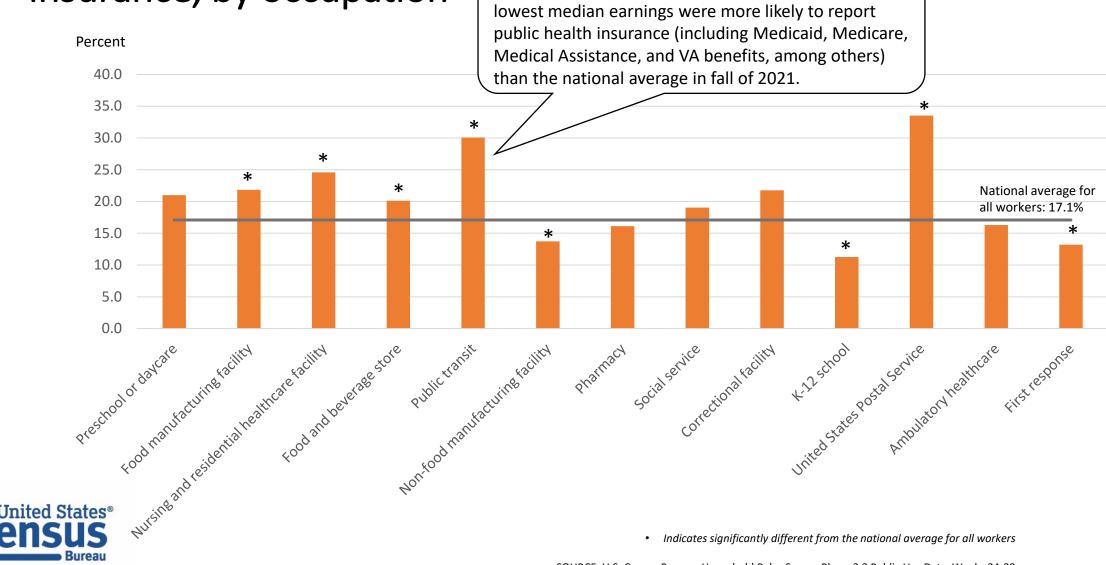


Percentage of EFHR-C workers reporting food insecurity, by occupation



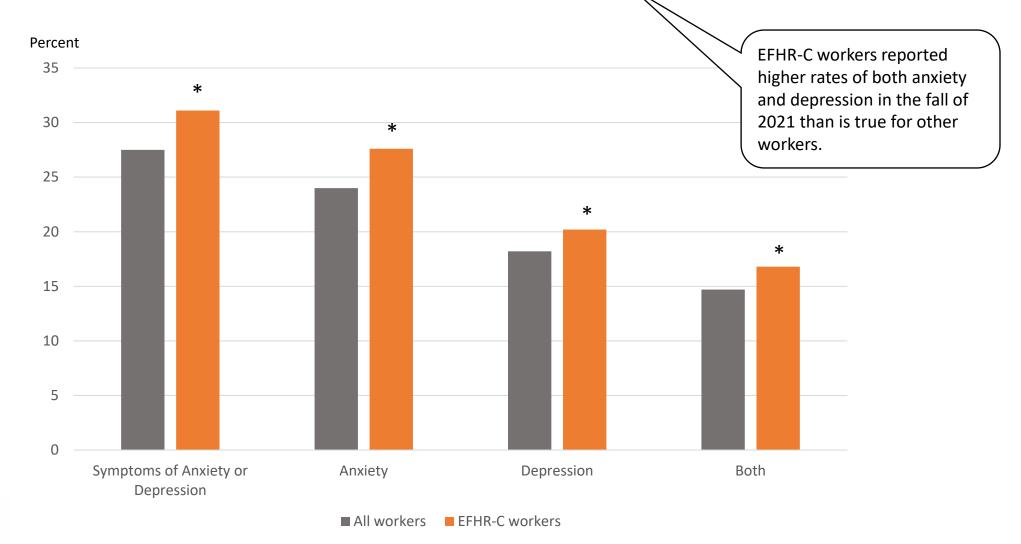
SOURCE: U.S. Census Bureau, Household Pulse Survey Phase 3.2 Public Use Data, Weeks 34-39

Percentage of EFHR-C workers covered by public health insurance, by occupation Four of the five categories of EFHR-C workers with the



SOURCE: U.S. Census Bureau, Household Pulse Survey Phase 3.2 Public Use Data, Weeks 34-39

Prevalence of self-reported symptoms of anxiety or depression

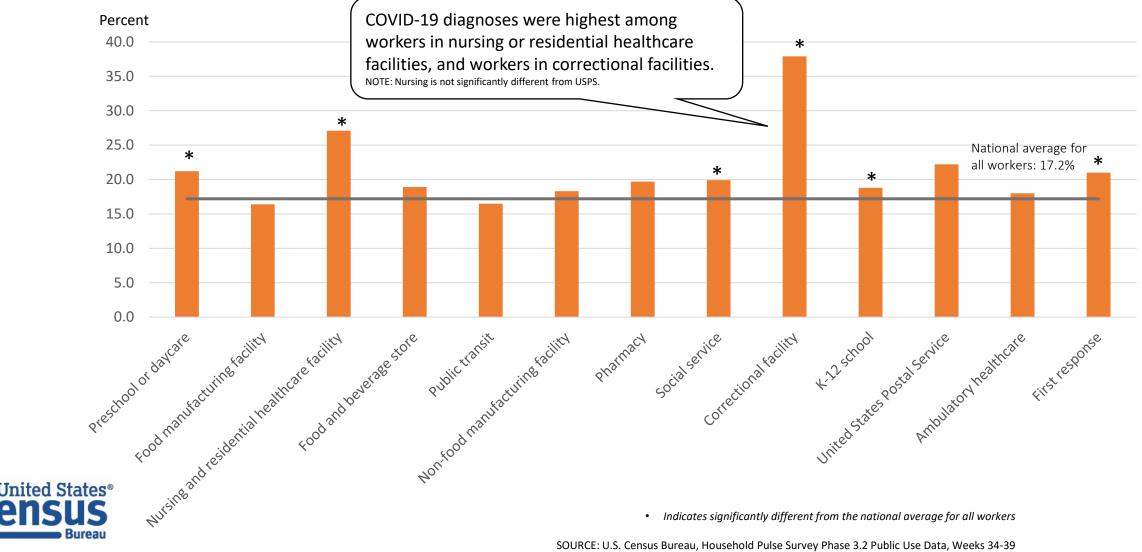




• Indicates significantly different from the national average for all workers

SOURCE: U.S. Census Bureau, Household Pulse Survey Phase 3.2 Public Use Data, Weeks 34-39

Percentage of EFHR-C workers with a prior COVID-19 diagnosis, by occupation



The take-aways

- EFHR-C workers come from a diverse set of occupations
 - Some of those jobs have health care and leave options to help workers deal with the risks of COVID-19, but many of them do not.
- As a result, many EFHR-C workers are reliant on public welfare programs like SNAP and Medicaid
- Many have additionally faced mental health concerns and COVID-19 diagnoses
- Low-income work presents its own risks (Kalleberg 2011), but these have been reinforced by the dangers inherent to frontline work in the coronavirus pandemic.



All data are subject to error arising from a variety of sources, including sampling error, non-sampling error, modeling error, and any other sources of error. For further information on ACS statistical standards and accuracy, refer to https://www2.census.gov/programs-surveys/acs/tech docs/accuracy/ACS Accuracy of Data 2019.pdf. For further information on HPS statistical standards and accuracy, refer to https://www2.census.gov/programs-surveys/demo/technical-documentation/hhp/Phase3-2 Source and Accuracy Week39.pdf.

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What is going on with HPS respondents who report that they work for the "U.S. Postal Service"?

- 10% of them report sometimes or often not having enough to eat, even though data from the ACS show such employees having median income that is above the national average.
- One-third of them report having public health insurance, even though the USPS provides health insurance for employees.
- Roughly a quarter of them report that they DON'T work for the U.S. government, even though the USPS is a federal government employer.
- ➤ We suspect that workers for other delivery services are including themselves as "U.S. Postal Service employees" on the HPS list of essential occupations. Such workers would not have had a telework option, would likely understand their work to be essential, and would not have another category on the HPS list in which to classify themselves.
 - Preliminary analysis of ACS Industry and Occupation write-in data suggest that non-U.S.P.S. jobs classified as either "Drivers/sales workers & truck drivers" or "Packers and packagers, hand" would include job duties such as handling and delivering mail and other goods. Fulltime, median earnings for these two occupations in 2019 were \$46,698 and \$26,673, respectively.

