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## U.S. Census Bureau's Household Pulse Survey and Its Possible Uses for SCAG Region

### JungHo Park, PhD

Research Professor at Chung-Ang University, Seoul, South Korea Nonresident Research Associate at USC Population Dynamics Research Group



Sol Price School of Public Policy

## Background

The COVID-19 pandemic disrupted nearly all Americans' lives and livelihoods from *a wide range of public health and socioeconomic perspectives* 

But **some demographic and socioeconomic groups** were hit harder than others

Pandemic experiences and hardships also vary across regions and over time

How do we know the *variations and disparities in the pandemic hardships?* Do we have *any data?* 

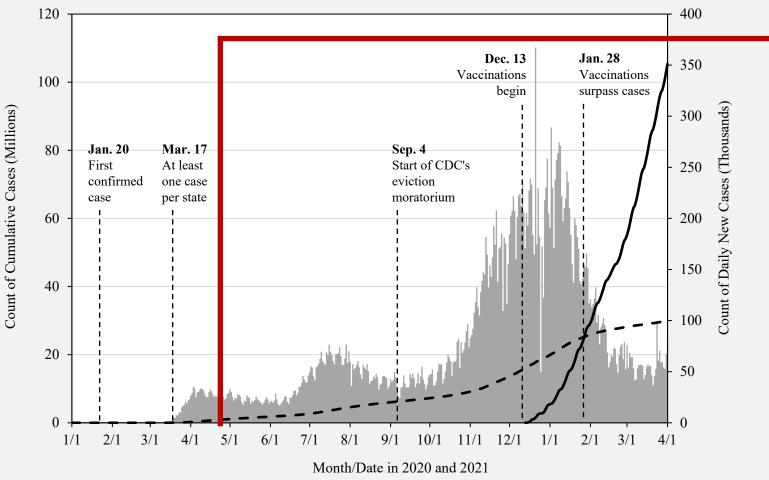
Yes – here is the U.S. Census Bureau's new data for all, Household Pulse Survey (HPS)

# The Advent of U.S. Census Bureau's Household Pulse Survey (HPS)

### U.S. COVID-19 Trend and the Advent of HPS in April, 2020

Daily New Cases (Right Y-axis)

- - Cumulative Cases (Left Y-axis)
  - --- Cumulative People Receiving 1 or More Doses (Left Y-axis)



Since 4/23/2020, the **ONLY RECORD** of the past one year and two months in the U.S.

## And the survey **STILL ONGOING NOW**

*Sources*: USC JungHo Park's revised graph from Figure 1 in Park, J. (2021). Who is hardest hit by a pandemic? Racial disparities in COVID-19 hardship in the U.S. International Journal of Urban Sciences, 25(2), 149–177. https://doi.org/10.1080/12265934.2021.1877566

## What is the Household Pulse Survey?



// Census.gov > Data > Experimental Data Products > Household Pulse Survey

## Measuring Household Experiences during the Coronavirus Pandemic

Household Pulse Survey - Phase 3.1 (Starting April 14, 2021)

#### What is the Household Pulse Survey?

The U.S. Census Bureau, in collaboration with multiple federal agencies, is in a unique position to produce data on the social and economic effects of coronavirus on American households. The Household Pulse Survey is designed to deploy quickly and efficiently, collecting data to measure household experiences during the coronavirus pandemic. Data will be disseminated in near real-time to inform federal and state response and recovery planning.

Sources: U.S. Census Bureau's Household Pulse Survey (HPS) main page https://www.census.gov/data/experimental-data-products/household-pulse-survey.html

\* 11 federal agencies: 1. Bureau of Labor Statistics (BLS); 2. Bureau of Transportation Statistics (BTS); 3. Centers for Disease Control and Prevention (CDC); 4. Department of Defense (DOD); 5. Department of Housing and Urban Development (HUD); 6. Maternal and Child Health Bureau (MCHB); 7. National Center for Education Statistics (NCES); 8. National Center for Health Statistics (NCHS); 9. National Institute for Occupational Safety and Health (NIOSH); 10. Social Security Administration (SSA); 11. USDA Economic Research Service (ERS).

- One of U.S. Census Bureau's quick and timely responses to the pandemic, together with 11 federal agencies\*
  - Who Adult (18+) Americans (including SCAG residents)
- When Biweekly since 4/23/2020 (initially even weekly)
- Where Entire U.S. mainland (including SCAG region)
- How 20-minute online survey
- What i) Pandemic hardships &
  ii) various policies and programs

### **Public Health and Socioeconomic Hardships and Pandemic Policies**

Category	Туре	Example Survey Question(s)
Pandemic Hardships	Income Loss	Have you, or has anyone in your household experienced a loss of employment income since March 13, 2020?
	Housing Instability	Is this household currently caught up on mortgage (or rent) payments?
	Transit Use Changes	Have you taken fewer trips than you normally would have by bus, rail, or ride-sharing services because of the coronavirus pandemic?
	Food Insufficiency	Which of these statements best describes the food eaten in your household?
	K-12/Secondary Education	How has the coronavirus pandemic affected how the children in this household received education for the 2020 – 2021 school year?
	Expenditure Difficulty	How difficult has it been for your household to pay for usual household expenses?
	Mental Health Problems	How often have you been bothered by the following problems Feeling Nervous, anxious, or on edge?
	Other Types of Hardship	

## **Pros** and **Cons** of HPS Data When Used for SCAG Region

### Pros

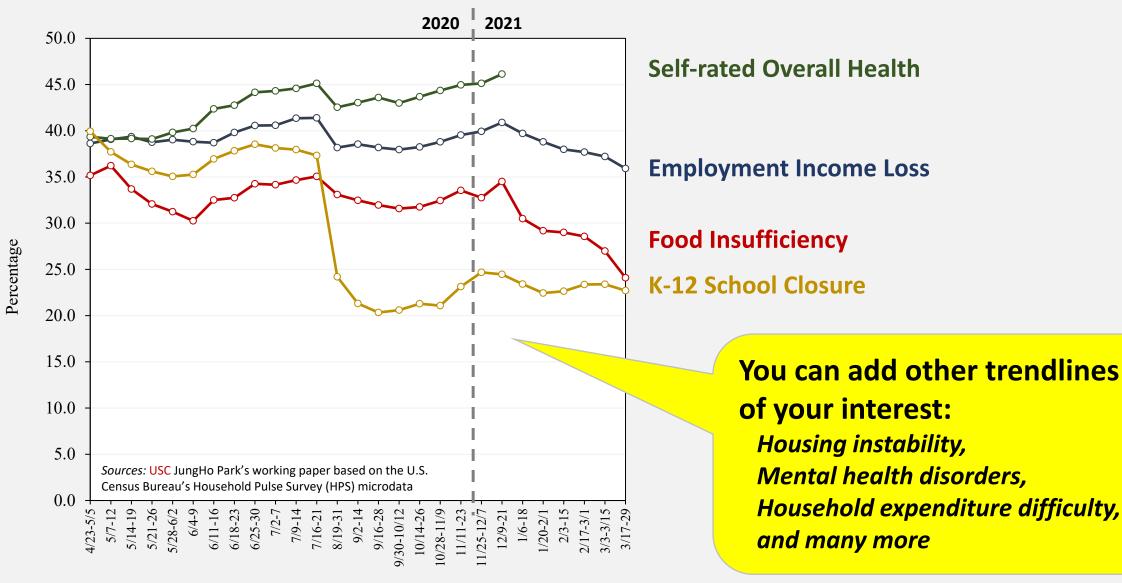
- Data Type i) Simple Excel tables, ii) online tables & maps, and iii) microdata about individual respondents (2.5 million)
- Spatial Scope Nationally representative, including SCAG region
- Temporal Scope One year and two months since 4/23/2020, and ongoing
- Survey Frequency Biweekly
- Data Release Timing Near real-time, today's survey result released in 2 weeks
- Data Cost Free even without login

### Cons

- Spatial Level i) available across states but not counties, and ii) only 4 SCAG counties except Imperial and Ventura
- Missing Period No survey at the very beginning of the pandemic from the 1<sup>st</sup> confirmed case in 1/20/2020 to 4/22
- Survey Break Time No survey for several weeks between 4 survey phases, the 4<sup>th</sup> phase ongoing now
- (For Researchers) Data Structure Pooled cross-sectional data but not panel data, except mid-2020 survey period (phase 1)

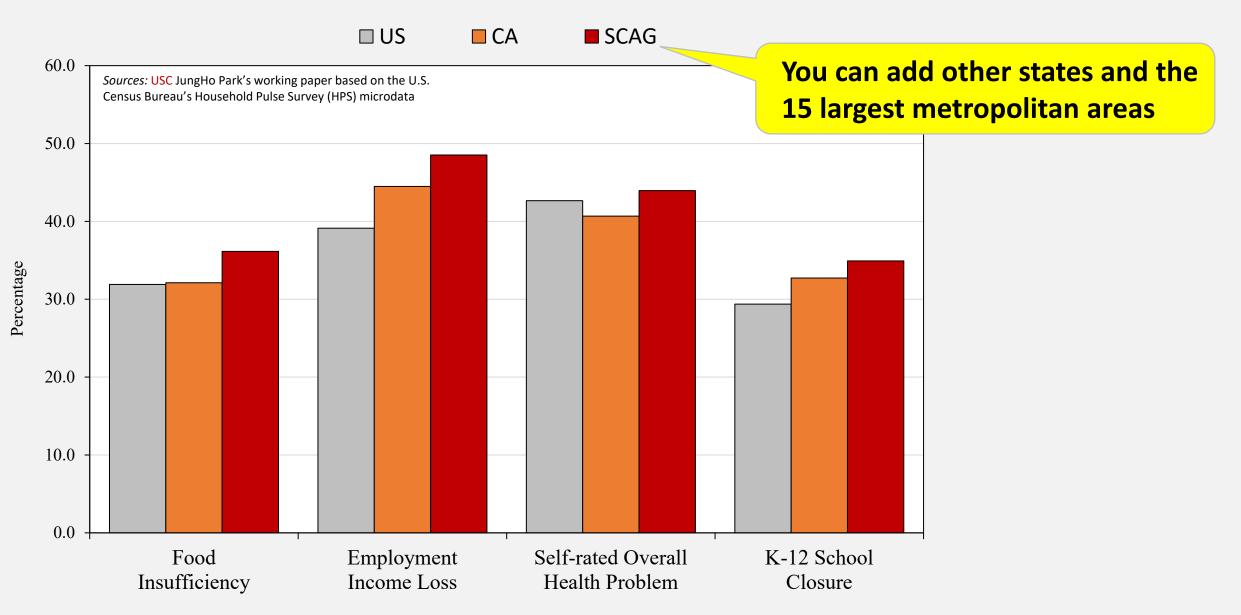
# **Possible Uses of HPS Data for Local SCAG Residents**

## Temporal Trajectory of Pandemic Hardships Over Time, U.S.

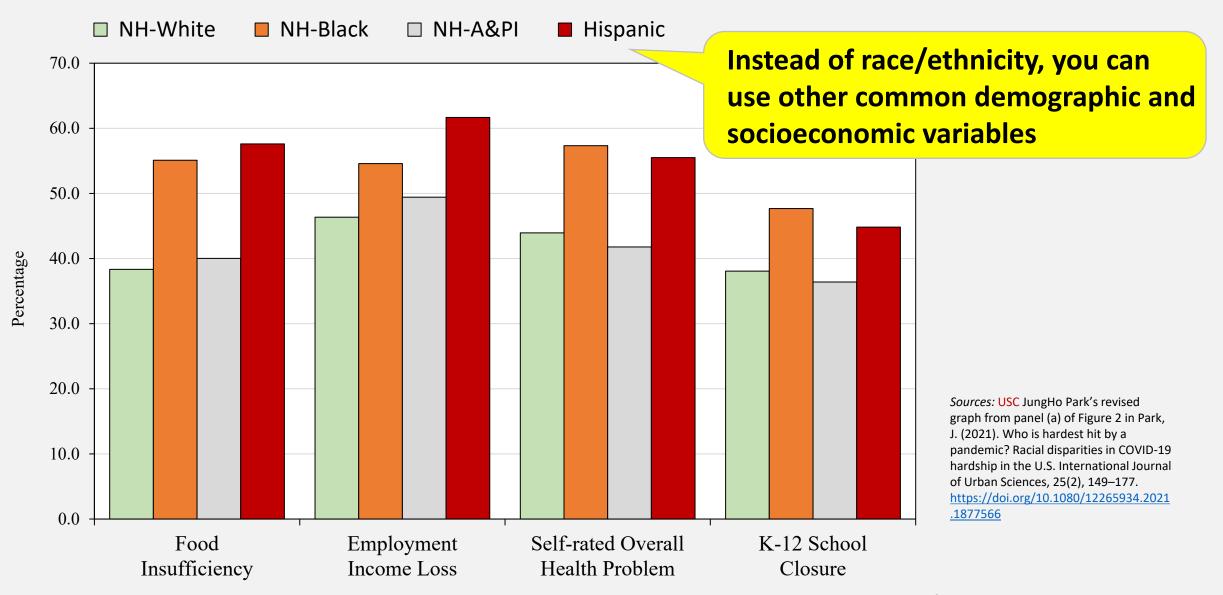


Month/Date in 2020 and 2021

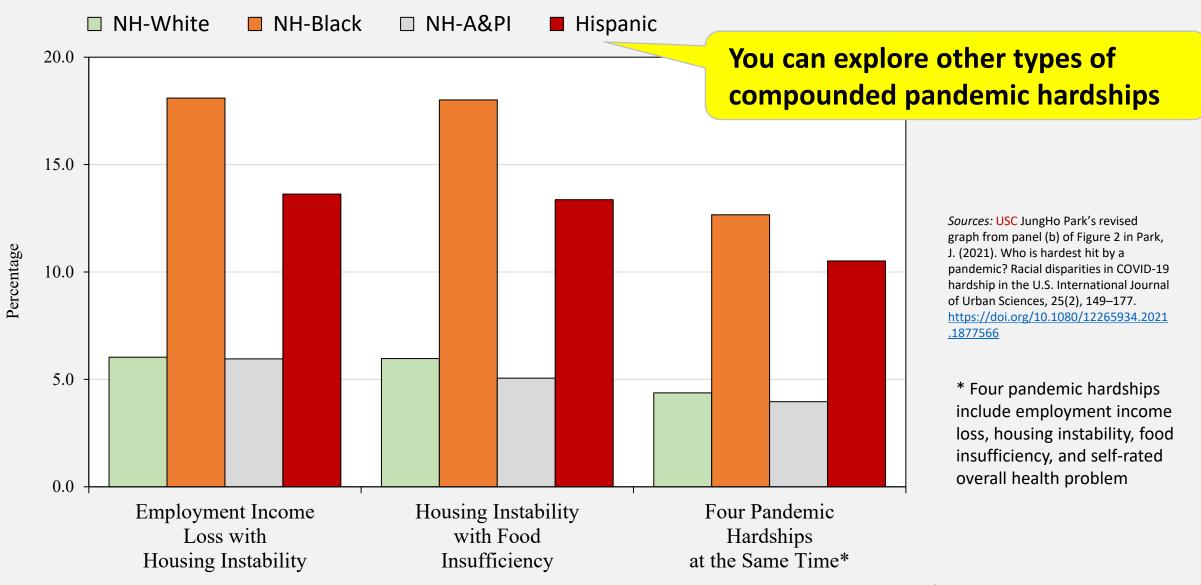
## Comparisons Between SCAG Region, California, and U.S.



## Racial and Ethnic Differences in Pandemic Hardships, U.S.



## Compounded Pandemic Hardships by Race/Ethnicity, U.S.



## Thank you

#### For new papers based on the Household Pulse Survey:

- Park, J. (2021). Who is hardest hit by a pandemic? Racial disparities in COVID-19 hardship in the U.S. International Journal of Urban Sciences, 25(2), 149–177. <u>https://doi.org/10.1080/12265934.2021.1877566</u>
- Park, J., & Kim, B. (2021). Associations of Small Business Closure and Reduced Urban Mobility with Mental Health Problems in COVID-19 Pandemic: A National Representative Sample Study. Journal of Urban Health, 98(1), 13–26. <u>https://doi.org/10.1007/s11524-020-00511-0</u>

## JungHo Park, PhD

Jhpark.planner@gmail.com



Sol Price School of Public Policy