

ASKING OUESTIONS **ABOUT FOOD** INSECURITY





What is Food Insecurity?

- adequate food" at the household level
- While hunger may be an outcome of food
 - hunger
- point during the year

 According to the USDA, food insecurity is defined as "limited or uncertain access to insecurity, not all families/individuals who experience food insecurity also experience

• In 2020, 13.8 million households in the US experienced a type of food insecurity at some

Types of Food Insecurity

- The USDA measures food insecurity at two levels of severity
- In 2022, 12.8% of US households experienced "low food security" and 5.1% experienced "very low food security"

Low Food Security

- Households report reduced diet quality and reduced food variety
- Typically not reporting hunger/reduced food intake

Very Low Food Security

- Report reduced food intake
- Disrupted eating patterns
- Skipping meals
- Hunger





What are Food Deserts?

 According to the Food Empowerment Project, food deserts are "geographic areas where...access to affordable, healthy food options (especially fresh fruits and vegetables) is restricted or nonexistent due to the absence of grocery stores within convenient traveling distance." • The terms "food apartheid" and "food oppression" can also be used to acknowledge the systemic economic, racial, and cultural discrimination that lead to the development of food deserts.

United States Food Insecurity Datasets

- Food Security in the US, 2001-2022
- Food Access Research Atlas

<u>Covid-19 Food Insecurity Data, 4/23/2020 to 8/23/2021</u>

*Data Abstracted from United States Census Bureau's Pulse Survey

<u>Suite of Food Security Indicators</u>







Food and Agriculture Organization of the United Nations

Example Research Question

In 2022, was food insecurity experienced more in rural or urban areas in the US?



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How to Use:

1. From the link above, you can access the main "Food Security in the US" data webpage from the USDA 2. To view and export the raw data, you can click the "Food Security Data file" link to be redirected to a large data table with raw values from 2001-2022 (like the sample seen below) Food Security Data file 🖾 🖳 3. To see the full spectrum of responses from food secure to very low food security, scroll from side to side

Year	Category	Subcategory	Sub-subcategory	Food insecure-1,000	Food insecure-percent
2022	Area of residence	Inside metropolitan area		14319	12.5
2022	Area of residence	Inside metropolitan area	In principal cities	5838	15.3
2022	Area of residence	Inside metropolitan area	Not in principal cities	6202	10.5
2022	Area of residence	Outside metropolitan area		2662	14.7



Example Research Question

Do all low income areas experience food insecurity in the United States?



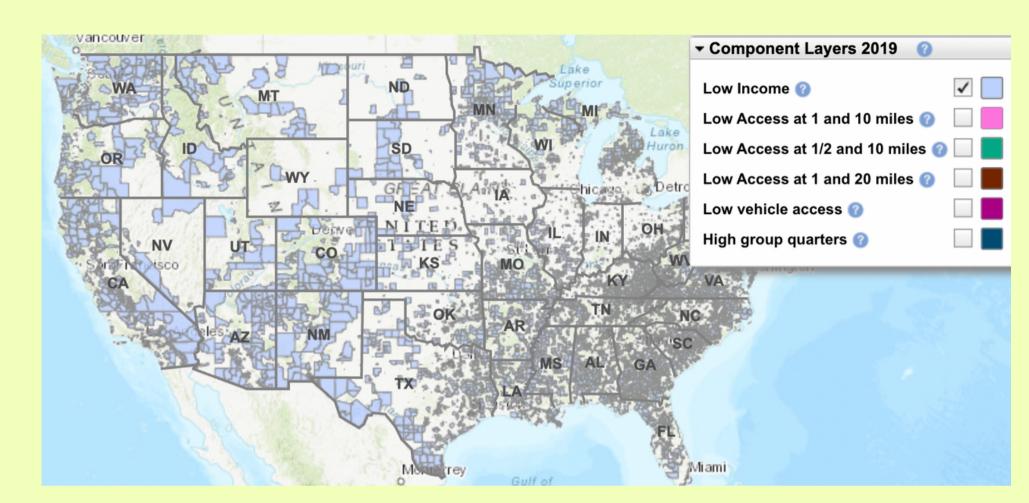
Economic Research Service

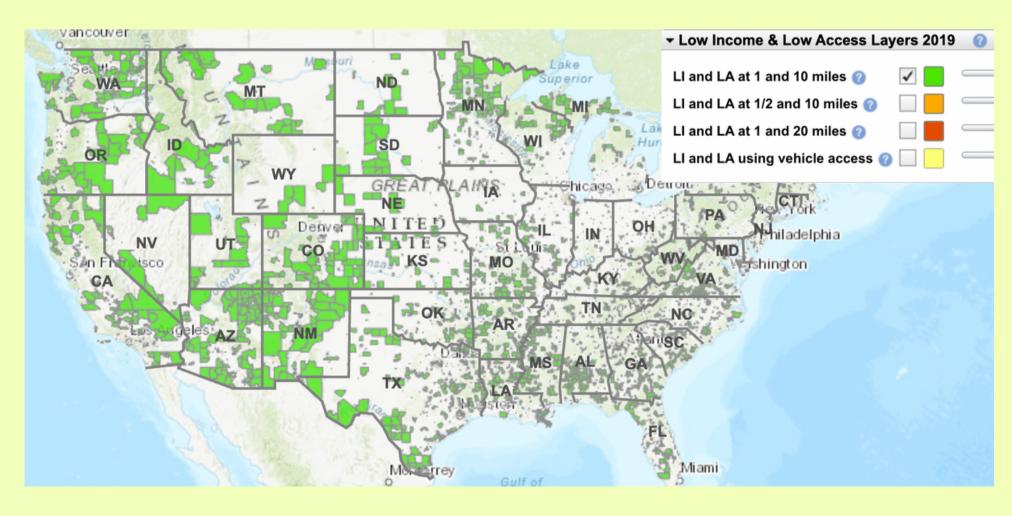
How to Use:

 To view/export the raw data files, click the "Food Access Research Atlas Data Download 2019" link on the "Download the Data" page:

Food Access Research Atlas Data Download 2019 断 획

- 2. To view the interactive data map, click the "Go to the Atlas" link in the menu on the left side of the screen: Go to the Atlas
- 3. On the map, you can toggle the variables using the color coded buttons as seen in the example





Example Research Question

Was race/ethnicity related to food insecurity during the COVID-19 pandemic?



How to Use:

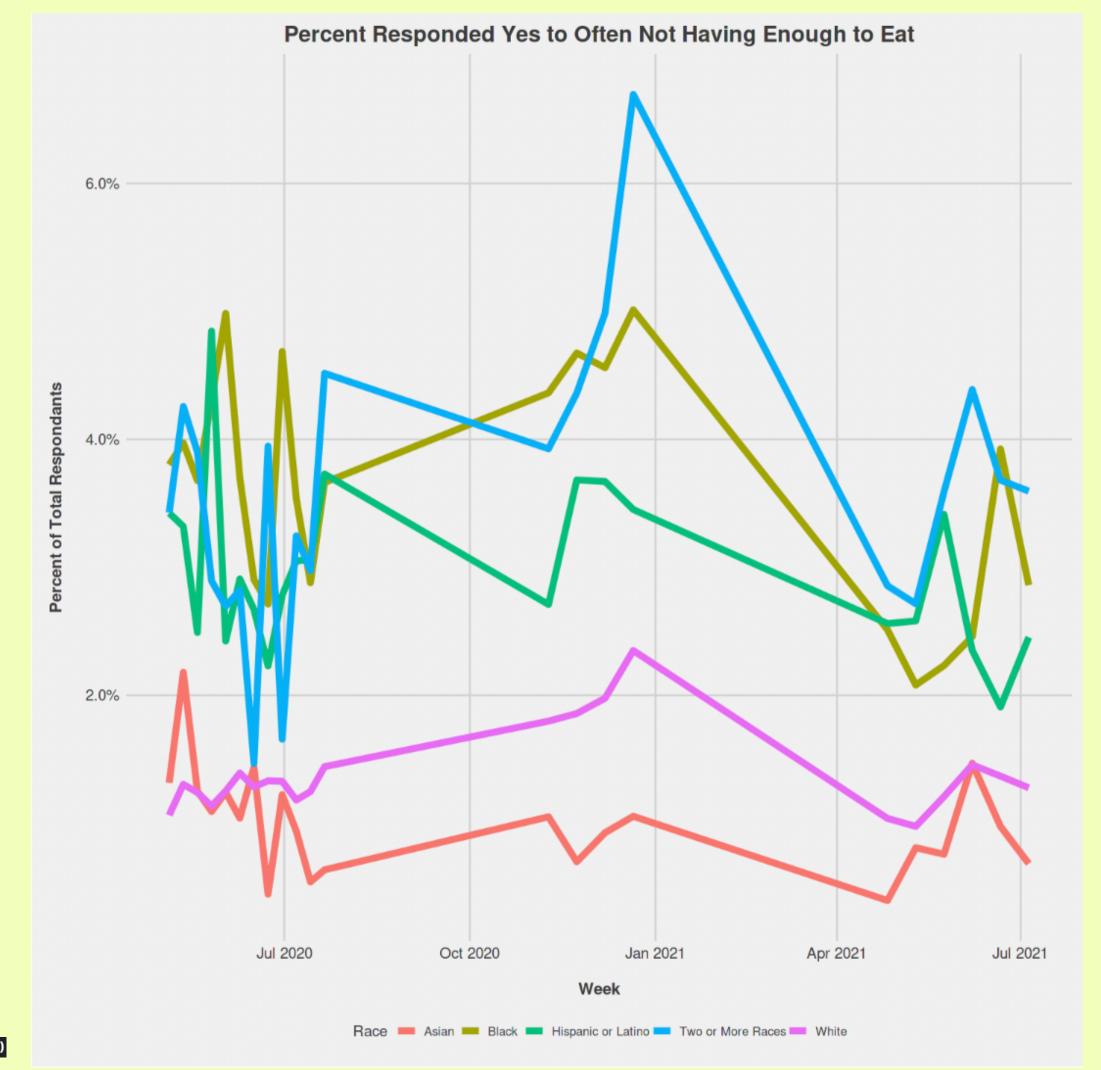
1. On the "Data Card" tab, click "Detail" to see the raw values collected from the survey:

Data Card Code (1) Discussion (0)

Final_Pulse_Data.csv (53.24 MB)

Detail Compact Column

- 2. Each column represents a different survey question
- 3. If you want to view data per participant characteristic (i.e. race/ethnicity, age, etc.), scroll to the right to see which row represents which characteristic
- 4. Data can be exported by clicking download: * Download (6 MB)



Example Research Question

Is prevalence of undernourishment related to prevalence of food insecurity in the US?



Food and Agriculture Organization of the United Nations

How to Use:

- 1. Select country of interest (you can also select Region and/or Special Groups i.e. low-income countries)
- 2. Select "Value" from the "Elements" section for the raw data values
- 3. Select variables of interest from the "Items" section
- 4. Select the time range you are interested in researching in the "Years" section
- 5. You can export/download the data by clicking the "Download Data" button: 👤 **Download Data**

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COUNTRIES REGIONS SPECIAL GROU	IPS	ELEMENTS		
\bigcirc Filter results e.g. afghanistan		Q Filter results e.g. value		
United Republic of Tanzania		⊘ Value		
United States of America		◯ Confidence interval		
Uruguay				
Uzbekistan				
🔵 Vanuatu				
🔵 Venezuela (Bolivarian Republic	: of)			
Select All	Clear All	Select All	Clear All	
United States of America \times		Value ×		
ITEMS		YEARS		
\bigcirc Filter results e.g. featured indic	ators > (list)	◯ Filter results e.g. 2022 / 20	21-2023	
Or Prevalence of undernourishment (percent)		2022 / 2021-2023		
		2021 / 2020-2022		
Or Prevalence of severe food insecurity in the total popul		2020 / 2019-2021		
		O 2019 / 2018-2020		
😔 Number of severely food ins	ecure people (million)	O 2018 / 2017-2019		
 Number of moderately or se Demonstrate of children under 		O 2017 / 2016-2018		
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age dietary energy requirement (kcal/cap/day) × age dietary energy supply adequacy (percent) (3- gerage) ×		2020 / 2019-2021 × 2021 / 2020-2022 ×		
		2022 / 2021-2023 ×		

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International Datasets



- On data.world, there are currently 304 datasets listed relating to food security around the world
- You can scroll through or search this resource for specific datasets for various countries
- You can also view the raw data files in the "tables" included with the dataset overviews (see examples in screenshot to the right)

Food Insecurity Mapping - Southern Africa (January Humanitarian Data Exchange · Updated 2 years ago
Food Insecurity Mapping - Southern Africa (January - March 2014)
Dataset with य 6 projects 🗅 16 files 囯 2 tables
Tagged agriculture, food security, security, weather and climate, angola, +6
☐ 25 ☐ Comment
Food Insecurity Mapping - Central America and The Humanitarian Data Exchange • Updated 2 years ago
Food Insecurity Mapping - Central America and The Caribbean (January - March 2013)
Dataset with 🚧 7 projects 🎦 16 files 囯 2 tables
Tagged agriculture, food security, security, weather and climate, el salvador, +4
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WFP and FAO Overview of Countries Affected by th Humanitarian Data Exchange · Updated 4 years ago WFP and FAO Overview of Countries Affected by the El Niño Dataset with 2 projects 2 files 2 tables Fagged el nino, food security, geodata, nutrition, angola, +32
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Food Insecurity Mapping - East Africa (April - June 2...

Humanitarian Data Exchange \cdot Updated 2 years ago

Food Insecurity Mapping - East Africa (April - June 2014)