



Food Equity and Access Survey Toolkit

Business and Data Analytics Team
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Document Purpose

In late 2021/early 2022 The Greater Boston Food Bank (GBFB) implemented a survey to update our understanding of food insecurity and food assistance program usage in Massachusetts. The specific goals of the survey were to:

- Identify changes in rates of food insecurity and food assistance use
- Document barriers to and facilitators of food pantry use and SNAP enrollment
- Develop data-driven recommendations to improve food access equity through programmatic, policy and advocacy efforts

The [final report](#) and [presentation](#) on the 2022 survey results are available by clicking on the respective link.

The purpose of this document is to outline the steps taken by the Business and Data Analytics (BADA) team to design, implement, and present the results of the survey, with the goal of providing a toolkit for other food banks who may be interested in administering a similar survey in their state or geographic area.

It is important to note that the creation of a survey such as this typically requires research expertise. Food banks will want to work with local researchers, specifically those with epidemiological or biostatistics experience, if those skills do not exist within their staff.

Additionally, food banks should understand that this type of survey will require a substantial budget to cover the contract cost of working with a survey company, and potentially costs for the researcher(s), analysis, and report publication. Food banks should obtain quotes to understand the budget required.

Project Components and Timeline

To help other food banks understand the time commitment involved in designing, running, and analyzing survey results, the following table lists each component of the process and the general timelines followed by GBFB. The overall timeline for the full process, with the exception of supplementary academic papers from the data, is approximately 12 months. Additional details on most of the components listed can be found further down in this document:

Item	Time Required	Notes
Identify Survey Partner and Establish Contract	3 months	
Identify Survey Questions	3-4 months	
Identify Participant/ Representative Quotas	2 weeks	

Item	Time Required	Notes
IRB Prep & Approval	3 months	If working with an outside partner, this timeframe will vary depending on the institution
Data Use Agreement(s)	1-2 months	Sets up rules by which data can be shared to external partners
Data Collection	2 months	
Data Cleaning	During data collection and 2-3 weeks following data collection	
Data Analysis	2 months	
Draft of Initial Report	1 month	
Draft of Initial Presentation	1 month	
Finalize Report and Presentation	1-2 months	Update report and presentation with professional graphics and feedback from colleagues
Publication	1-2 months	Including posting report on website and social media, promoting, and presenting findings
Write up academic papers	6 –12 months	Collaborations with outside researchers

Process Steps

Identify Survey Partner and Establish Contract

The survey partner chosen serves the role of finding participants with the correct demographic distributions, collecting responses, and replacing “invalid” responses with new data. GBFB has used Qualtrics for both iterations of our statewide survey on food access but there are other online panel survey companies that one could consider.

Here are some useful documents describing Qualtrics’ processes and calculating the sample size required for a representative survey:

- [Qualtrics information needed for working with your IRB](#)
- [Understanding how Qualtrics recruits responders](#)
- [Calculating sample size](#)

Identify Survey Questions

In order to design our survey, GBFB reviewed other surveys focused on food insecurity and created an initial draft of survey questions. We then met with internal and external stakeholders, including other local food banks, food pantries, and other hunger relief and related organizations, as well as respected researchers in this field of study to further develop the survey instrument.

GBFB used the USDA's [Six-Item Short Form of the Food Security Survey Module](#) to assess adult food insecurity status. Our estimates reflect the food insecurity in the state in the past year.

The written version of the survey created and administered by GBFB, including a section for Consent and a section containing resources for participants in getting food and for mental health and other services, can be found in [Appendix 3](#). Note that the survey was administered online, so recipients responded anonymously and only viewed questions that were relevant to them, based on previous answers.

Identify Participant/Representative Quotas

To ensure that a representative sample of individual survey responses were available for analysis, GBFB provided Qualtrics with quotas identifying the percentage of survey respondents with different demographic characteristics necessary to statistically represent the residents of Massachusetts. Due to the complexity of acquiring a representative sample of data, we recommend working with researchers with expertise in this area to generate these quotas. The following sections provide details on the process we used.

Data Source and Variables

To identify demographic characteristics and their corresponding percentages of the Massachusetts population aged 18+, GBFB obtained data from the American Community Survey (ACS) available at <https://data.census.gov/cedsci/>.

Based on the goals of the survey, the variables selected from the ACS were: gender identity, age, household income, education, race/ethnicity, and region.

The data for the above variables was obtained from the ACS 5-Year Estimates Public Use Microdata Sample. GBFB retrieved the data programmatically using an API accessible via the R tidycensus package. The data used by GBFB for this iteration of the survey can also be found by accessing the following tables, which can easily be altered for different geographic regions and timeframes:

- [Gender Identity](#)
- [Age](#)
- [Education](#)
- [Region](#)
- [Race/Ethnicity](#)

Oversampling of Lower Income Individuals

One area in which GBFB's quotas intentionally do not match statewide distributions is household income. GBFB considered 4 household income ranges:

- <\$25,000
- \$25,000 to \$49,999
- \$50,000 to \$74,999
- >=\$75,000

Lower income adults are more likely to have challenges with food insecurity. Having a larger sample of this population allows us to explore and capture more of the experiences of food insecure individuals. To make sure that the survey contained enough responses from lower income adults, quotas were set for 25% for each of these groups, even though this is not the actual state percentage distribution. This oversampling of lower income adults is accounted for later in the process by weighting the results of the respondents so that the responses correctly reflect actual Massachusetts income distribution. Please see the section on [Survey Weighting](#) for more information.

Factoring Income into Demographic Quotas

Household income is considered when assigning demographic quotas. This means that for each demographic variable retrieved from ACS data, GBFB averaged the value of the variable within each of the 4 income categories to get an overall quota goal for the demographic. For example, if the ACS data showed a gender split for each income group as follows:

Income Category	Male %	Female %
<\$25,000	50	50
\$25,000 to \$49,999	44	56
\$50,000 to \$74,999	48	52
>=\$75,000	50	50

Then we would calculate the overall gender quota goal as Male 48% and Female 52%.

Using this strategy, and the data from the ACS tables linked above, GBFB created the following quota categories for Qualtrics to use to identify participants. Note that the demographic variables are independent of one another, except for race/ethnicity categories, which are nested within the 4 income categories.

Demographic	Category	Quota Goal %
Gender Identity	Male	45%
	Female	55%
Age	18 - 34	28%
	35 - 54	30%
	55+	42%
Education	Some college or high school or less	69%
	Bachelor's degree	19%
	Advanced degree	13%
Household income	<\$25,000	25%
	\$25,000 to \$49,999	25%

	\$50,000 to \$74,999	25%
	>=\$75,000	25%
Region	Western (Berkshire, Franklin, Hampshire, Hampden)	14%
	Central (Worcester)	12%
	Boston (Suffolk, Norfolk)	22%
	Northeast (Essex, Middlesex)	32%
	Southeast (Bristol, Plymouth, Barnstable, Dukes, Nantucket)	20%
Income and race/ethnicity	white, alone & income <25k	15%
	white, alone & income >=25k-<50k	17%
	white, alone & income >=50k-<75k	18%
	white, alone & income >=75k	20%
	black, alone & income <25k	2%
	black, alone & income >=25k-<50k	2%
	black, alone & income >=50k-<75k	1%
	black, alone & income >=75k	2%
	asian, alone & income <25k	1%
	asian, alone & income >=25k-<50k	1%
	asian, alone & income >=50k-<75k	2%
	asian, alone & income >=75k	5%
	hispanic & income <25k	4%
	hispanic & income >=25k-<50k	3%
	hispanic & income >=50k-<75k	2%
	hispanic & income >=75k	
	other/multi & income <25k	1%
	other/multi & income >=25k-<50k	1%
	other/multi & income >=50k-<75k	1%
	other/multi & income >=75k	1%

Qualtrics attempts to reach all quota goals, but they sometimes do not quite reach a goal. This undersampling of certain demographics is accounted for later in the process by weighting the results of the respondents so that the responses correctly reflect actual Massachusetts residents. Please see the section on [Survey Weighting](#) for more information.

IRB Prep and Approval

Per the [FDA Information Sheet](#), the purpose of an Institutional Review Board (IRB) review is to assure that appropriate steps are taken to protect the rights and welfare of humans participating as subjects in research. To facilitate the IRB preparation and approval process, GBFB partnered with Massachusetts General Brigham (MGB) to submit a proposal to the MGB IRB and administered the survey through an existing MGB-licensed Qualtrics account

relationship. It might be beneficial for other food banks considering implementing a similar survey to work with a local research institution on the IRB process.

Data Collection and Cleaning

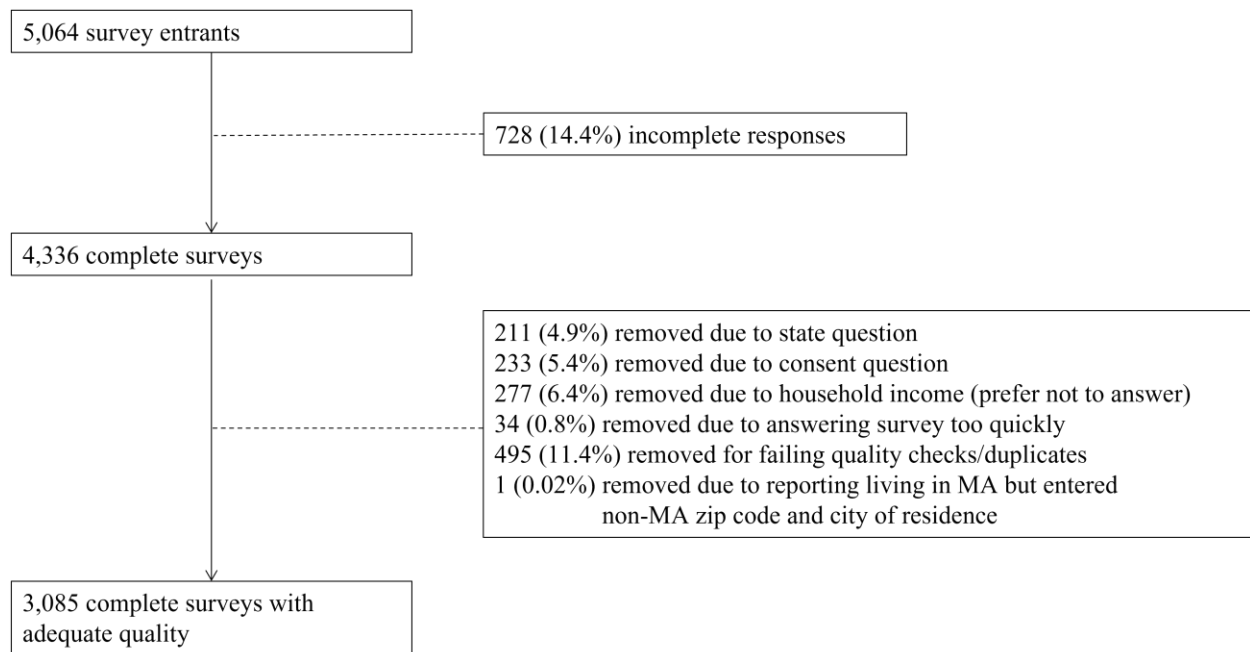
Once provided with the quotas, Qualtrics recruited participants to take the survey, performed an initial round of data analysis to flag invalid responses, and provided the data to GBFB. Invalid responses identified by Qualtrics included:

- Individuals not from Massachusetts
- Individuals who did not consent to the survey
- Individuals who preferred not to answer questions about their household income
- Individuals who completed the survey too quickly, implying that they may not have provided quality answers

GBFB received the first round of response data from Qualtrics then ran a series of data quality checks to identify any responses that contained potentially invalid data. [Appendix 4](#) contains the data dictionary of all variables provided by Qualtrics as well as derived variables created by GBFB in order to filter out invalid data and group data for later analysis. Responses filtered by GBFB data included:

- Open text responses reviewed manually and determined to be ‘gibberish’ responses. If the quantitative survey data seemed to be valid these participants were still included, but the text responses were removed.
- Responses containing invalid data. Flags were created to identify responses with potential invalid data. For example, records where age was listed as less than 18 or over 100, or records where a respondent indicated that they were a SNAP recipient but also provided an income that surpassed SNAP eligibility. There was not a set rule for how many invalid data flags were needed to exclude a response, but generally, responses with more than 5 invalid data flags resulted in exclusion.
- Records that showed straightlining (when survey respondents give identical, or nearly identical answers to items in a battery of questions using the same response scale) were considered for exclusion. In some contexts, straightlining is okay (e.g., when responding “NA” to a group of questions) so records were considered for exclusion on a case-by-case basis.

Any responses excluded based on the items above were replaced by Qualtrics with data from new respondents. This flowchart shows the participant results after respondent recruitment and replacement:



Data Analysis

After the complete data set was available, GBFB summarized the data for an initial look at the raw results, weighted responses to ensure that the demographic proportions of the survey were close to those of the population and analyzed the resultant data set.

Data Summarization

In order to look at specific survey question responses, GBFB created a collection of frequency tables for the 3,085 responses collected. Frequency tables provide direct results for each survey question and are a helpful tool for considering which survey responses might require further analysis. Each frequency table contains each distinct response for a survey question, along with the number of responders who provided the same answer, and the percentage of total responders that provided the same answer. Questions containing free form text answers were excluded from this process. In order to make comparisons across groups, the frequency table process was repeated for two separate subsets of survey results:

- Respondents that reported being food pantry users in the past year
- Respondents that reported being SNAP users in the past year

Perform Survey Weighting

With the 3,085 available survey results, GBFB balanced the results by weighting each individual survey response so that the resultant characteristics of the set of survey respondents more closely matched the characteristics of the MA population. The technique to create the weights for each survey response is called raking. GBFB implemented raking via the anesrake R package, which is described [here](#). Using the demographic distributions for gender identity, age group, race/ethnicity, education, income category, and geographic region identified in the [Identify](#)

[Participant/Representative Quotas](#) section, each record was assigned a weight, and any records with a weight over 5 were removed from the data.

Note that Qualtrics offers weighting for an additional cost, but the GBFB team decided to perform this internally.

Focused Analysis Areas

As seen in the final report, analysis was performed to show:

- Food insecurity for households/individuals with different demographic characteristics over multiple years
- Pantry use for households/individuals with different demographic characteristics over multiple years
- SNAP use for households/individuals with different demographic characteristics over multiple years
- Perceived everyday discrimination for individuals with different demographic characteristics by food security status
- Drivers of food pantry use
- Experiences of pantry users and suggestions for improvements
- Reasons for not using SNAP reported by adults experiencing food insecurity
- Federal child nutrition program usage over multiple years

GBFB analyzed many different variables in the survey. There were additional findings other than what was published in the report, but in order to emphasize the most important findings, the report was limited to the items above. This is one area where your food bank can consider customizing results to focus on your most important findings.

There were several questions in the survey that provided a place for free form text responses. Quotes from these responses were used in the report to emphasize the quantitative data.

Additional Analyses

With the data available from the survey, GBFB ran additional analyses to report on survey results for the three regions of Massachusetts: Central, Eastern and Western. The goal of this was to provide more actionable data for different sections of the state serviced by different food banks, by allowing them to focus on their own results. Due to the sample size of the survey, and the number of individuals in each region in MA, the responses by region were not able to be reported by demographic characteristics.

Report and Presentation

The BADA team wrote the initial drafts of the report and presentation in close collaboration with our policy, community impact, and communication team members as well as our external research partners. This allowed for the report to be useful for many teams and many external partners in advocating for programmatic and policy changes.

Presenting Results

The 2022 MA Statewide Survey on Food Insecurity, Equity & Access was released to the public in June 2022. The following methods were used to ensure widespread promotion of the report:

- Major print, television and radio news outlets
- GBFB website
- Social media release
- Internal and external newsletters

The BADA team presented the report to multiple audiences to allow the discussion to focus on areas relevant to each. Prior to the public release, presentations were held for the GBFB Executive Leadership and Senior Leadership Teams and the GBFB Health and Research Council, with the goal of eliciting feedback. After the report was publicly released, the following presentations were held:

- Open meeting for the public
- GBFB Agency Network
- GBFB Board of Directors
- Internal GBFB Lunch & Learn for employees

Talking Points

In order to help our colleagues with interviews and presentations regarding the survey and its results, GBFB's Communications team created several Talking Points documents summarizing some of the key information. These documents highlighted:

- Key statistics learned as a result of the survey being completed
- Important changes since the last results were published
- Potential reasons for the changes seen
- Goals for the use of the survey results
- Summary of background and methodology
- Reasons for differences in GBFB survey results compared to other organizations' results

Academic Publications

As a result of the survey data and report, GBFB partners, through our Health and Research Council, are working on several academic publications.

Changes Being Considered for Future Surveys

Based on finding and recommendations, GBFB is considering the following changes for future surveys:

1. Offering the survey in other languages

2. Moving to the USDA's [18-item U.S. Household Food Security Survey Module](#) in order to examine childhood food insecurity
3. Additional analysis of free form text in comments using Natural Language Processing techniques
4. Adding quotas for gender and sexual orientation
5. Oversampling of certain demographics such as Latinx communities
6. Producing small summaries to communities that were not reached by the online panel to see if results are meaningful and accurate for them

Lessons Learned

Here are some lessons we learned during this process:

1. It is important to make sure there is enough time to plan, complete, and analyze the survey, as well as enough time to write the report with internal and external stakeholders' feedback.
2. Ensure the survey questions are relevant for the stakeholders by thinking forward to make sure the data is top of mind, based on local, state, and national economic and political climate.
3. Make sure that the questions you are asking will drive solutions.
4. Make sure that stakeholders have input from the beginning and feel that they are part of the full process.
5. The survey company cannot always meet the initial provided quotas. There may need to be some flexibility with these numbers. GBFB handled this situation by using the raking process for weighting as described earlier, however, there were some cases where there were not enough individuals in a group to allow us to perform detailed analysis.

Additional Resources

This document refers to the second round of our Food Equity and Access survey. The report for the first round published in 2021 can be found [here](#). An academic article providing more details on the 2021 report can be found [here](#).

Another option for Feeding America members considering implementing a survey is the Feeding America Client Survey (FACS). Detailed information for the FACS survey can be found [here](#).

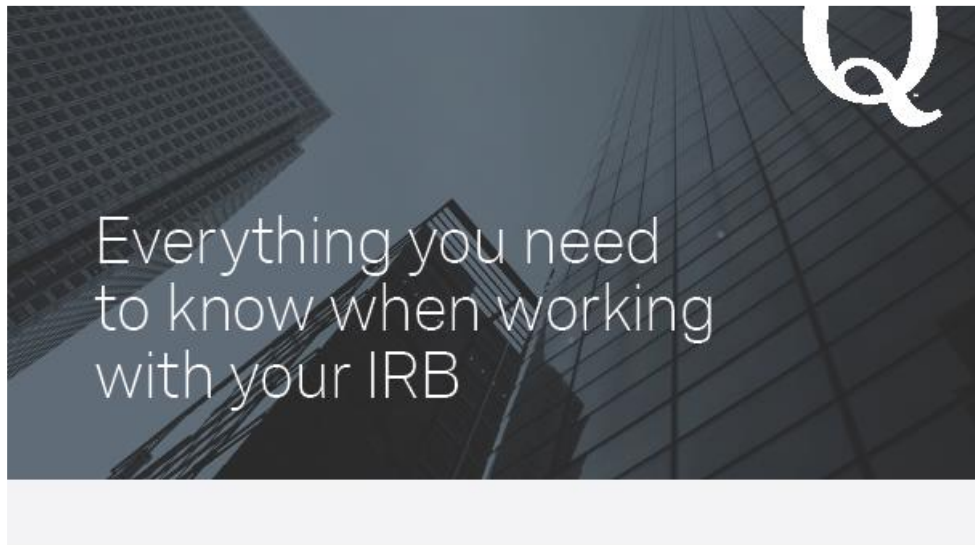
Contact Information

If you have questions, please reach out to the Business and Data Analytics Team at data@gbfb.org.

Appendices

Appendix 1: Qualtrics IRB FAQ

Double click on the picture to open the full document.



HOW ARE PARTICIPANTS RECRUITED AND VERIFIED?

Participants are recruited from various sources, including website intercept recruitment, member referrals, targeted email lists, gaming sites, customer loyalty web portals, permission-based networks, and social media, etc.

Consumer panel members' names, addresses, and dates of birth are typically validated via third-party verification measures prior to their joining a panel.

B2B participants are subject to additional quality control measures such as LinkedIn matching, phone calls to the participant's place of business, and other third-party verification methods (TrueSample, RelevantID, Verity, etc.).

HOW MUCH IS EACH PARTICIPANT INCENTIVIZED?

Our panelists join from a variety of sources. They may be airline customers who chose to join in reward for SkyMiles, retail customers who opted in to get points at their favorite retail outlet, or general consumers who participate for cash or gift cards, etc.

When participants are invited to take a survey, they are informed what they will be compensated.

Because each respondent is compensated differently, it would be inappropriate to inform how much they will be compensated in the cover letter. Instead, we recommend including verbiage along the lines of: "You will be compensated the amount you agreed upon before you entered into the survey."

qualtrics.

To find out more, call 02 8310 8031.

Appendix 2: Qualtrics ESOMAR 28 Questions

Double click on the picture to open the full document.

qualtricsSM



Updated: 4/30/19

ESOMAR 28

28 Questions to Help Buyers of Online Samples

Appendix 3: Survey Questions

Double click on the picture to open the full document.

MA NFACT Survey 2

Start of Block: Consent and Screener

JS

Q1 Why is this study being done?

This study is being conducted by Massachusetts General Hospital (MGH) and the Greater Boston Food Bank (GBFB) and is funded by the Hunger to Health Collaboratory and Stop & Shop. The purpose of this study to understand how the COVID-19 pandemic is affecting people's ability to obtain food, healthcare access, employment, and wellbeing. Your responses will help inform programs and policies, now and in the future, to better serve the needs of our communities. We are asking for up to 4,000 individuals to complete this survey.

What am I being asked to do?

If you take part in the study, you will be asked questions about your recent experiences getting enough food and your health. You will be asked your opinions about accessing food resources. The survey will take about 15 minutes to complete. You are free to stop the survey at any time.

Are there any benefits to me for participating?

There are no direct benefits for you; however, information from this study may benefit the people of Massachusetts and across the country now or in the future. You will be compensated upon completion of the survey by your panel provider.

Are there any risks?

We do not think you will have any problems from participating in this survey. Some of the questions may make you feel uncomfortable. You can decide not to answer any question. There is also a small risk of loss of privacy whenever personal or medical information is collected for research.

Are there any costs to participate?

There will be no costs to you for participation in this research study.

How will you protect my privacy?

The survey data will be kept in a secure database. The survey responses will be securely shared with Massachusetts General Hospital and their research collaborators in order to conduct the evaluation. However, Massachusetts General Hospital and their collaborators will not receive any information that could link you to your responses. Your answers will be combined with other people's answers when the data is published. Please do not type your name or any contact information into the survey at any time to ensure your privacy.

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Appendix 4: Data Dictionary

Survey Variables

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q4	county	Demographics	Categorical	Middlesex, Worcester, Essex, Suffolk, Norfolk, Bristol, Plymouth, Hampden, Barnstable, Hampshire, Berkshire, Franklin, Dukes, Nantucket, Don't Know	County of residence
Q4a	city	Demographics	Text		Text to specify city of residence if county is unknown
Q5	zip	Demographics	Numeric		5-digit zip code. Note that responses beginning with 0 are 4 digits
Q6	age	Demographics	Categorical	18-34 years old, 35-54 years old, 55-64 years old, 65 years and older	Age group
Q7_1	race_white	Demographics	Binary	1=Yes, 0=No	White
Q7_2	race_hispanic	Demographics	Binary	1=Yes, 0=No	Hispanic, Latino or Spanish Origin
Q7_3	race_black	Demographics	Binary	1=Yes, 0=No	Black or African
Q7_4	race_asian	Demographics	Binary	1=Yes, 0=No	Asian
Q7_5	race_mena	Demographics	Binary	1=Yes, 0=No	Middle Eastern or North African
Q7_6	race_aian	Demographics	Binary	1=Yes, 0=No	American Indian or Alaska Native
Q7_7	race_other	Demographics	Binary	1=Yes, 0=No	Other race or origin
Q7_7_TEXT	race_other_text	Demographics	Text		Text to specify race
Q8	education	Demographics	Categorical	Some high school or less (no diploma); High school graduate (including GED); Some college (no degree); Associates degree, Technical school, apprenticeship; Bachelor's degree; Postgraduate (e.g., Master's PhD, professional degree (e.g., JD))	Education
Q9	income	Demographics	Categorical	Less than \$10,000 per year; \$10,000-\$24,999 per year; \$25,000-\$49,999 per year; \$50,000-	Income

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
				\$74,999 per year; \$75,000-\$99,999 per year; \$100,000-\$149,999 per year; \$150,000-\$199,999 per year; \$200,000 or more per year; Don't know; Prefer not to answer	
Q10	employ	Demographics	Categorical	Employed, salaried, full-time; Employed, hourly, full-time; Employed, salaried, part-time or seasonal; Employed, hourly, part-time or seasonal; Disabled; Retired; Homemaker; Student; Unemployed	Employment status
Q11_1	gender_man	Demographics	Binary	1=Yes, 0=No	Man
Q11_2	gender_woman	Demographics	Binary	1=Yes, 0=No	Woman
Q11_3	gender_nb	Demographics	Binary	1=Yes, 0=No	Non-binary
Q11_4	gender_trans	Demographics	Binary	1=Yes, 0=No	Transgender
Q11_5	gender_none	Demographics	Binary	1=Yes, 0=No	None of these describe me, and I'd like to consider additional options
Q11a	gender_other	Demographics	Categorical	Trans man, Transgender Man, FTM; Trans woman, Transgender Woman, MTF; Genderqueer; Genderfluid; Gender variant; Questioning or unsure of my gender identity; None of these describe me, and I want to specify;; (NA=Not asked)	Gender identity other choices
Q11a_7_TEXT	gender_other_text	Demographics	Text		Text to specify other gender identity
Q12	sexual	Demographics	Categorical	Gay; Lesbian; Straight, that is, not gay or lesbian, etc.; Bisexual; None of these describe me, and I'd like to see additional options	Sexual orientation
Q12a	sexual_other	Demographics	Categorical	Queer; Polysexual, omnisexual, sapiosexual or pansexual; Asexual; Two-spirit; Have not figured out or are in the process of figuring out my sexuality; Mostly straight, but sometimes attracted to people of my own	Sexual orientation other

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
				sex; Do not think of myself as having sexuality; Do not use labels to identify myself; Don't know the answer; No, I mean something else.; Prefer not to answer; (NA=Not asked)	
Q12a_10_TEXT	sexual_other_text	Demographics	Text		Sexual orientation other text
Q13	marital	Demographics	Categorical	Married; Widowed; Divorced/Separated; Never married; Living with partner	Marital status
Q14	hh_size	Demographics	Numeric		# of people in household
Q15	num_children	Demographics	Numeric		# of children in household
Q16_1	children_under_5	Demographics	Binary	1=Yes, 0=No	Children under 5 years old
Q16_2	adults_older65	Demographics	Binary	1=Yes, 0=No	Adults 65 years or older
Q16_3	no_children_no_seniors	Demographics	Binary	1=Yes, 0=No	Not applicable
Q17#1_1	usda_foodlast_year	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the last year - The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more
Q17#1_2	usda_afford_year	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the last year - (I/we) couldn't afford to eat balanced meals
Q17#2_1	usda_foodlast_30d	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the last 30 days - The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more
Q17#2_2	usda_afford_30d	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the last 30 days - (I/we) couldn't afford to eat balanced meals
Q17#3_1	usda_foodlast_pp	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the year before the COVID-19 pandemic - The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more
Q17#3_2	usda_afford_pp	General Food Access	Categorical	Often true; Sometimes true; Never true; Don't know or refused	In the year before the COVID-19 pandemic - (I/we) couldn't afford to eat balanced meals

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q18#1_1	usda_cutskip_year	General Food Access	Categorical	Yes; No; Don't know	In the last year - Did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food?
Q18#1_2	usda_eatless_year	General Food Access	Categorical	Yes; No; Don't know	In the last year - Did you ever eat less than you felt you should because there wasn't enough money for food?
Q18#1_3	usda_hungry_year	General Food Access	Categorical	Yes; No; Don't know	In the last year - Were you ever hungry but didn't eat because there wasn't enough money for food?
Q18#2_1	usda_cutskip_30d	General Food Access	Categorical	Yes; No; Don't know	In the last 30 days - Did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food?
Q18#2_2	usda_eatless_30d	General Food Access	Categorical	Yes; No; Don't know	In the last 30 days - Did you ever eat less than you felt you should because there wasn't enough money for food?
Q18#2_3	usda_hungry_30d	General Food Access	Categorical	Yes; No; Don't know	In the last 30 days - Were you ever hungry but didn't eat because there wasn't enough money for food?
Q18#3_1	usda_cutskip_pp	General Food Access	Categorical	Yes; No; Don't know	In the year before the COVID-19 pandemic - Did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food?
Q18#3_2	usda_eatless_pp	General Food Access	Categorical	Yes; No; Don't know	In the year before the COVID-19 pandemic - Did you ever eat less than you felt you should because there wasn't enough money for food?
Q18#3_3	usda_hungry_pp	General Food Access	Categorical	Yes; No; Don't know	In the year before the COVID-19 pandemic - Were you ever hungry but didn't eat because there wasn't enough money for food?
Q18a	usda_num_cutskip_year	General Food Access	Categorical	Almost every month; Some months but not every month; Only 1 or 2 months; Don't know; (NA=Not asked)	How often did you cut the size of your meals or skip meals in the last year?

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q18b	usda_num_cut_skip_30d	General Food Access	Numeric	1-30	In the last 30 days, how many days did you cut the size of your meals or skip meals? (____ days)
Q18c	usda_num_cut_skip_pp	General Food Access	Categorical	Almost every month; Some months but not every month; Only 1 or 2 months; Don't know; (NA=Not asked)	How often did you cut the size of your meals or skip meals in the year before the COVID-19 pandemic?
Q19_1_1	prog_pantry_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used food pantry/food bank in the last 30 days
Q19_1_2	prog_pantry_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used food pantry/food bank in the last year
Q19_1_3	prog_pantry_ever_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used food pantry/food bank more than a year ago but not currently using
Q19_1_4	prog_pantry_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used food pantry/food bank
Q19_1_5	prog_pantry_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used food pantry/food bank
Q19_2_1	prog_snap_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used SNAP in the last 30 days
Q19_2_2	prog_snap_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used SNAP in the last year
Q19_2_3	prog_snap_ever_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used SNAP more than a year ago but not currently using
Q19_2_4	prog_snap_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used SNAP

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q19_2_5	prog_snap_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used SNAP
Q19_3_1	prog_hip_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used HIP in the last 30 days
Q19_3_2	prog_hip_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used HIP in the last year
Q19_3_3	prog_hip_over_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used HIP more than a year ago but not currently using
Q19_3_4	prog_hip_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used HIP
Q19_3_5	prog_hip_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used HIP
Q19_4_1	prog_wic_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used WIC in the last 30 days
Q19_4_2	prog_wic_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used WIC in the last year
Q19_4_3	prog_wic_over_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used WIC more than a year ago but not currently using
Q19_4_4	prog_wic_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used WIC
Q19_4_5	prog_wic_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used WIC

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q19_5_1	prog_school_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used school meal program in the last 30 days
Q19_5_2	prog_school_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used school meal program in the last year
Q19_5_3	prog_school_over_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used school meal program more than a year ago but not currently using
Q19_5_4	prog_school_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used school meal program
Q19_5_5	prog_school_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used school meal program
Q19_6_1	prog_summer_30d	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used summer EATS meal program in the last 30 days
Q19_6_2	prog_summer_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used summer EATS meal program in the last year
Q19_6_3	prog_summer_over_year	Food Assistance/New Users	Binary	1=Yes, 0=No	Household used summer EATS meal program more than a year ago but not currently using
Q19_6_4	prog_summer_never	Food Assistance/New Users	Binary	1=Yes, 0=No	Household never used summer EATS meal program
Q19_6_5	prog_summer_dk	Food Assistance/New Users	Binary	1=Yes, 0=No	Doesn't know if household used summer EATS meal program
Q20_1	new_pantry_p	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of food pantry/food bank during pandemic

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q20_2	new_snap_p	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of SNAP during pandemic
Q20_3	new_wic_p	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of WIC during pandemic
Q20_4	new_school_p	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of school meal program during pandemic
Q20_5	new_summer_p	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of summer EATS meal program during pandemic
Q21_1	new_pantry_year	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of food pantry/food bank last year
Q21_2	new_snap_year	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of SNAP last year
Q21_3	new_wic_year	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of WIC last year
Q21_4	new_school_year	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of school meal program last year
Q21_5	new_summer_year	Food Assistance/New Users	Binary	Yes; No; (NA=Not asked)	New user of summer EATS meal program last year
Q22	pantry_food_freq	Food Pantry Use	Categorical	One time; About once a month; 2-3 times per month; About once a week; A few times each week; (NA=Not asked)	How many times has household used food pantry/food bank in last year
Q23	pantry_groceries_freq	Food Pantry Use	Categorical	Almost every month; Some months but not every month; Only 1 or 2 months; (NA=Not asked)	How often has household received free groceries from food pantry/food bank in last year

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q24	pantry_longer	Food Pantry Use	Categorical	1 month or less; 2-3 months; 4-6 months; 7-12 months; More than 12 months; Don't know; Not applicable; (NA=Not asked)	How much longer do you anticipate on using a food pantry/food bank
Q25	pantry_amount	Food Pantry Use	Categorical	None; Less than half; Half; More than half; All; (NA=Not asked)	Amount of groceries from food pantry/food bank in last year
Q26	pantry_travel	Food Pantry Use	Categorical	Walk; Take public transportation (like a bus or train); Drive myself); Get a ride with family or friends; Take a taxi or rideshare (like Uber or Lyft); Take The Ride; None of the above as the food pantry delivers to me; Other (please specify);; (NA=Not asked)	How do you get to a food pantry/food bank
Q26_8_TEXT	pantry_travel_other	Food Pantry Use	Text		How do you get to a food pantry/food bank other text
Q27	pantry_travel_time	Food Pantry Use	Categorical	0-15 minutes; 16-30 minutes; 31-60 minutes; more than 1 hour; (NA=Not asked)	How long does it take to get to food pantry/food bank
Q28	pantry_learn	Food Pantry Use	Categorical	Friend or family; Online search; Project Bread; Phone app; Healthcare provider; Other, please describe;; (NA=Not asked)	How did you learn about the food pantry
Q28_6_TEXT	pantry_learn_other	Food Pantry Use	Text		How did you learn about the food pantry other text
Q29	pantry_stop	Food Pantry Use	Binary	Yes; No; (NA=Not asked)	Have you stopped using food pantries/food banks this year
Q29a_1	pantry_stop_hard	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - Too hard to get to
Q29a_2	pantry_stop_open	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - I can't get there when it's open
Q29a_3	pantry_stop_food	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - Don't like the food
Q29a_4	pantry_stop_income	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - My household income increased
Q29a_5	pantry_stop_benefits	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - My household received federal food assistance benefits (for example SNAP or WIC)

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q29a_6	pantry_stop_help	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - My household received help from friends or family
Q29a_7	pantry_stop_other	Food Pantry Use	Pseudo-binary	1=Yes; (NA=No)	Why did you stop using food pantries/food banks - Other (please describe) :
Q29a_7_TEXT	pantry_stop_other_text	Food Pantry Use	Text		Why did you stop using food pantries/food banks other text
Q30_1	pantry_start_learn	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Only recently learned about the food pantry/food bank
Q30_2	pantry_start_cost	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Increased cost of groceries
Q30_3	pantry_start_income	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Decreased household income
Q30_4	pantry_start_benefits	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Lost federal food assistance benefits (for example SNAP or WIC)
Q30_5	pantry_start_childcare	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Had additional childcare expenses
Q30_6	pantry_start_covid	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Quarantined due to COVID
Q30_7	pantry_start_housing	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Lost housing or housing costs increased
Q30_8	pantry_start_health	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Healthcare expenses for me or household members
Q30_9	pantry_start_other	Start Using	Pseudo-binary	1=Yes; (NA=No)	Why did you start using food pantries/food banks this year - Other (please describe)
Q30_9_TEXT	pantry_start_other_text	Start Using	Text		Why did you start using food pantries/food banks other text

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q31_1	pantry_helpful	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	Food offered at the food pantry/food bank has been helpful for my household
Q31_2	pantry_foodlike	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank has food that my household likes to eat
Q31_3	pantry_foodquality	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank has good quality food
Q31_4	pantry_foodenough	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank provides enough food for my household
Q31_5	pantry_foodprepare	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank gives me food I know how to prepare
Q31_6	pantry_foodculture	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food I get from the food pantry/food bank aligns with my cultural beliefs
Q31_7	pantry_staff	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank staff look like me
Q32_1	pantry_enoughmeat	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Meat/poultry (like hamburger, chicken, or turkey)
Q32_2	pantry_enoughdairy	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Dairy (like cheese, milk or yogurt)
Q32_3	pantry_enoughfish	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Fish (like cod, salmon, canned tuna)
Q32_4	pantry_enoughveg	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Fresh or frozen vegetables

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q32_5	pantry_enough fruit	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Fresh or frozen fruits
Q32_6	pantry_enough canveg	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Canned vegetables
Q32_7	pantry_enough canfruit	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Canned fruits
Q32_8	pantry_enough egg	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Eggs
Q32_9	pantry_enough grain	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Grains (like bread, rice, pasta)
Q32_10	pantry_enough legume	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Beans, lentils, chickpeas, tofu
Q32_11	pantry_enough nut	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Peanut butter and nuts
Q32_12	pantry_enough supplies	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Cooking supplies (like spices, cooking oil, flour, baking supplies)
Q32_13	pantry_enough easy	Food Pantry Feedback Facilitators	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not applicable because I don't eat this food; (NA=Not asked)	The food pantry/food bank provides me with enough: - Easy to prepare foods (like soups/stews or frozen meals)
Q33_1	pantry_exp_dis crim	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	I have been treated unfairly by the food pantry/food bank because of my race or ethnicity
Q33_2	pantry_exp_ru nsout	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/bank runs out of food often
Q33_3	pantry_exp_ho urs	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	Food pantry/food bank hours are convenient

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q33_4	pantry_exp_lines	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	There are long lines /long wait times at the food pantry/food bank
Q33_5	pantry_exp_limits	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	I cannot go to the food pantry/food bank as often as I'd like because they limit how often people can go
Q33_6	pantry_exp_embarrass	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	I feel embarrassed to go to the food pantry/food bank for free food
Q33_7	pantry_exp_welcome	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	The food pantry/food bank made me feel welcome
Q33_8	pantry_exp_recommend	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	I would recommend the food pantry/food bank for others who need help with food
Q34_1	pantry_bar_location	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I know where food pantries/food banks are located
Q34_2	pantry_bar_open	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I know when food pantries/food banks are open
Q34_3	pantry_bar_hours	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	The hours are convenient for me to use a food pantry/food bank
Q34_4	pantry_bar_convenient	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	The locations are convenient for me to use a food pantry/food bank
Q34_5	pantry_bar_travel	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	It is difficult for me to travel to food pantries/food banks
Q34_6	pantry_bar_docs	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I'm worried about the documents or information I might be asked to share to use a food pantry/food bank
Q34_7	pantry_bar_assets	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I'm worried that I have too many personal assets (savings, house, car) to qualify for a food pantry/food bank

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q34_8	pantry_bar_lines	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I'm worried about long lines at the food pantry/food bank
Q34_9	pantry_bar_discrim	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I'm worried about unfair treatment from food pantries/food banks because of my race, ethnicity, or color
Q34_10	pantry_bar_finding	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I'm worried people would find out if I use a food pantry/food bank
Q34_11	pantry_bar_self	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I want to support myself instead of using food pantries/food banks
Q34_12	pantry_bar_embarrass	Food Pantry Barriers Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need a food pantry; (NA=Not asked)	I would feel embarrassed to use a food pantry/food bank
Q35_1	pantry_go_curbside	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Curbside pick-up
Q35_2	pantry_go_giftcard	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Grocery gift cards
Q35_3	pantry_go_delivery	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Home delivery
Q35_4	pantry_go_online	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Online ordering
Q35_5	pantry_go_counsel	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Nutrition counseling
Q35_6	pantry_go_cookdemo	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Cooking demonstrations

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q35_7	pantry_go_recipe	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Recipes for the food they provide
Q35_8	pantry_go_language	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Staff that speak my language
Q35_9	pantry_go_staff	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Staff that look like me
Q35_10	pantry_no_go	Food Pantry Barriers	Pseudo-binary	1=Yes; (NA=No)	I would be more willing to use a food pantry or go more often if they had the following services: Not applicable because I don't need a food pantry
Q36	pantry_comments_text	Food Pantry Barriers	Text		Any other comments about using a food pantry? Or how services could be improved?
Q37_1	snap_helpful	SNAP Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	SNAP benefits are helpful for my household
Q37_2	snap_easy	SNAP Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	SNAP benefits are easy to use to buy food for my household
Q37_3	snap_runsout	SNAP Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	We have to seek additional food assistance, such as going to a food pantry / food bank, because our SNAP benefits run out before we receive more
Q37_4	snap_online	SNAP Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	We use SNAP benefits to order groceries online for delivery or pick-up
Q37_5	snap_enough	SNAP Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	Amount of money received from SNAP benefits is enough
Q38	snap_full	SNAP Feedback	Categorical	Always; Often; Sometimes; Rarely; Never; (NA=Not asked)	How often do you spend your full months' worth of SNAP benefits?
Q38a_1	snap_full_save	SNAP Feedback	Pseudo-binary	1=Yes; (NA=No)	Why are you not using your full SNAP benefits within the month you receive them? Saving SNAP benefits to use in future months
Q38a_2	snap_full_assist	SNAP Feedback	Pseudo-binary	1=Yes; (NA=No)	Why are you not using your full SNAP benefits within the month you receive them? Food needs

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
					are met through other means (for example, food pantries or food banks, friends or family, WIC)
Q38a_3	snap_full_hard	SNAP Feedback	Pseudo-binary	1=Yes; (NA=No)	Why are you not using your full SNAP benefits within the month you receive them? No stores nearby and/or hard to get to the store
Q38a_4	snap_full_extra	SNAP Feedback	Pseudo-binary	1=Yes; (NA=No)	Why are you not using your full SNAP benefits within the month you receive them? SNAP benefits provide more money than I need to buy food
Q38a_5	snap_full_other	SNAP Feedback	Pseudo-binary	1=Yes; (NA=No)	Why are you not using your full SNAP benefits within the month you receive them? Other:
Q38a_5_TEXT	snap_full_other_text	SNAP Feedback	Text		Why are you not using your full SNAP benefits within the month you receive them? Other text
Q39_1	know_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I know what SNAP is
Q39_2	timeapply_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I have time to apply for SNAP
Q39_3	knowapply_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I know how to apply for SNAP
Q39_4	info_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I am worried about the information I need to share to enroll in SNAP
Q39_5	eligible_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I do not know if I am eligible for SNAP
Q39_6	self_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I want to support myself instead of using SNAP
Q39_7	worry_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I am worried people will find out I use SNAP
Q39_8	embar_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I would feel embarrassed to use SNAP
Q39_9	else_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I am worried that getting SNAP benefits would take them away from someone else who needs it more

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q39_10	immstatus_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	I am worried that applying for SNAP benefits would impact my immigration status
Q39_11	notworth_snap	SNAP Barriers	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; NA/Don't need SNAP; (NA=Not asked)	It is not worth my time because the amount of money received is too low
Q40	used_hip	SNAP Barriers	Categorical	Yes; No; Don't know; (NA=Not asked)	I have used the Massachusetts Healthy Incentives Program (HIP), which provides a dollar-for-dollar match for SNAP purchases of fresh fruits and vegetables at farmers' markets.
Q41_1	snap_increase_food_p	SNAP Benefits Impact	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not Applicable; (NA=Not asked)	during the COVID-19 pandemic - I've had to visit a food pantry or ask for help with food less often due to the increased SNAP benefits
Q41_2	snap_increase_bills_p	SNAP Benefits Impact	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not Applicable; (NA=Not asked)	during the COVID-19 pandemic - I have been able to pay more of my other bills due to the increases in SNAP benefits
Q41_3	snap_increase_stop_p	SNAP Benefits Impact	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; Not Applicable; (NA=Not asked)	during the COVID-19 pandemic - I am worried about being able to afford enough food if the increases in SNAP benefits stop
Q42	snap_comments_text	SNAP Benefits Impact	Text		Any other comments about using SNAP?
Q43	snap_online	SNAP Benefits Impact	Categorical	Always; Often; Sometimes; Rarely; Never; (NA=Not asked)	How often do you use SNAP benefits to order groceries online for delivery or pick-up?
Q44	snap_increase_text	SNAP Benefits Impact	Text		What would a permanent increase to SNAP benefits mean for you?
Q45_1	wic_helpful	WIC Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	WIC benefits are helpful for my household
Q45_2	wic_easy	WIC Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	Overall, WIC benefits are easy to use to buy food for our household
Q45_3	wic_limited	WIC Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	There is a limited variety of food options at the stores that we can buy with our WIC benefits
Q45_4	wic_usefull	WIC Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	We cannot use our full months' worth of WIC benefits (because, for example, it is hard to go shopping or stores are sold out of WIC items)

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q45_5	wic_online	WIC Feedback	Categorical	Strongly Disagree; Disagree; Agree; Strongly Agree; (NA=Not asked)	If available, we would be interested in shopping for WIC foods online and using curbside pickup or delivery
Q46	wic_comments_text	WIC Feedback	Text		Any other comments about using WIC?
Q47	meet_food_needs	Money Needed	Categorical	More; Less; Same	In order to buy just enough food to meet the needs of your household, would you need to spend more than you do now, or could you spend less?
Q47a	more_meet_food_needs	Money Needed	Numeric		About how much MORE would you need to spend each week to buy just enough food to meet the needs of your household? (Whole dollar amounts)
Q48	foodor_medicine	Tradeoffs	Categorical	Every month; Some months during the year; 1 or 2 times per year; Never	How often in the last 12 months did you or anyone else in your household have to choose between paying for food and paying for medicine or medical care?
Q49	foodor_utility	Tradeoffs	Categorical	Every month; Some months during the year; 1 or 2 times per year; Never	How often during the last 12 months did you or anyone else in your household have to choose between paying for food and paying for utilities?
Q50	foodor_rent	Tradeoffs	Categorical	Every month; Some months during the year; 1 or 2 times per year; Never	How often during the last 12 months did you or anyone else in your household have to choose between paying for food and paying for rent or mortgage?
Q51	foodor_transport	Tradeoffs	Categorical	Every month; Some months during the year; 1 or 2 times per year; Never	How often during the last 12 months did you or anyone in your household have to choose between paying for food and paying for transportation or gas for a car?
Q52	foodor_school	Tradeoffs	Categorical	Every month; Some months during the year; 1 or 2 times per year; Never	How often during the last 12 months did you or anyone in your household have to choose between paying for food and paying for school loans, tuition, or other education expenses?

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q53_1	gad_1	Anxiety/Depression	Categorical	Not at all; Several days; More than half the days; Nearly every day	Over the last 2 weeks, how often have you been bothered by the following problems? - Feeling nervous, anxious or on edge
Q53_2	gad_2	Anxiety/Depression	Categorical	Not at all; Several days; More than half the days; Nearly every day	Over the last 2 weeks, how often have you been bothered by the following problems? - Not being able to stop or control worrying
Q53_3	phq_1	Anxiety/Depression	Categorical	Not at all; Several days; More than half the days; Nearly every day	Over the last 2 weeks, how often have you been bothered by the following problems? - Little interest or pleasure in doing things
Q53_4	phq_2	Anxiety/Depression	Categorical	Not at all; Several days; More than half the days; Nearly every day	Over the last 2 weeks, how often have you been bothered by the following problems? - Feeling down, depressed or hopeless
Q54_1	discrim_courtesy	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - You are treated with less courtesy than other people are
Q54_2	discrim_respect	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - You are treated with less respect than other people are
Q54_3	discrim_service	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - You receive poorer service than other people at restaurants or stores
Q54_4	discrim_smart	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - People act as if they think you are not smart
Q54_5	discrim_afraid	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - People act as if they are afraid of you
Q54_6	discrim_dishonest	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - People act as if they think you are dishonest

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q54_7	discrim_better	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - People act as if they're better than you are
Q54_8	discrim_insults	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - You are called names or insulted
Q54_9	discrim_threat	General Discrimination	Categorical	Almost everyday; At least once a week; A few times a month; A few times a year; Less than once a year; Never	In your day-to-day life, how often do any of the following things happen to you? - You are threatened or harassed
Q54a_1	ancestry_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My ancestry or national origins
Q54a_2	gender_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My gender
Q54a_3	race_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My race
Q54a_4	age_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My age
Q54a_5	religion_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My religion
Q54a_6	height_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My height
Q54a_7	weight_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My weight
Q54a_8	otherphys_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - Some other aspect of my physical appearance
Q54a_9	sexual_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My sexual orientation
Q54a_10	socioeco_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My education or income level

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q54a_11	mental_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My mental health condition
Q54a_12	disab_discrim	General Discrimination	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My physical disability
Q55_1	pantry_discrim_courtesy	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - You are treated with less courtesy than other people are
Q55_2	pantry_discrim_respect	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - You are treated with less respect than other people are
Q55_3	pantry_discrim_service	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - You receive poorer service than other people
Q55_4	pantry_discrim_smart	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - People act as if they think you are not smart
Q55_5	pantry_discrim_afraid	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - People act as if they are afraid of you
Q55_6	pantry_discrim_dishonest	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - People act as if they think you are dishonest
Q55_7	pantry_discrim_better	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - People act as if they're better than you are
Q55_8	pantry_discrim_insults	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - You are called names or insulted
Q55_9	pantry_discrim_threat	Discrimination at a Food Pantry	Categorical	All of the time; Most of the time; Some of the time; Rarely; Never; (NA=Not asked)	At a food pantry, how often do any of the following things happen to you? - You are threatened or harassed

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q55a_1	pantry_ancestry_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My ancestry or national origins
Q55a_2	pantry_gender_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My gender
Q55a_3	pantry_race_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My race
Q55a_4	pantry_age_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My age
Q55a_5	pantry_religion_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My religion
Q55a_6	pantry_height_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My height
Q55a_7	pantry_weight_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My weight
Q55a_8	pantry_otherphys_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - Some other aspect of my physical appearance
Q55a_9	pantry_sexual_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My sexual orientation
Q55a_10	pantry_socioeco_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My education or income level
Q55a_11	pantry_mental_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My mental health condition
Q5a_12	pantry_disability_discrim	Discrimination at a Food Pantry	Pseudo-binary	1=Yes; (NA=No)	What do you think is the main reason for these experiences? (Check all that apply) - My physical disability
Q56_1	eat_processmeat	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? -

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
					Processed Meats (like sausages, salami, bologna, hot dogs, bacon)
Q56_2	eat_beef	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Beef, Pork, or Lamb (like hamburger, steak, stew, or mixed dish)
Q56_3	eat_fish	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Fish (like salmon, canned tuna)
Q56_4	eat_dairy	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Full fat dairy products (like cheese, whole milk or yogurt)
Q56_5	eat_fastfood	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Fast food or take-out, pizza, frozen dinners, restaurant meals
Q56_6	eat_soda	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Soda, soft drinks, sports or energy drinks (not including diet drinks)
Q56_7	eat_whitegrain	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - White bread, white rice, white pasta
Q56_8	eat_wholegrain	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Whole grain bread, brown rice, whole grain pasta
Q56_9	eat_sweets	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Sweets and desserts (like donuts, cookies, cake, candy, ice cream)

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
Q56_10	eat_legumes	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Beans, lentils, chickpeas, tofu
Q56_11	eat_veg	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Vegetables (like carrots, string beans, spinach, kale, broccoli, cauliflower, cabbage, NOT potatoes)
Q56_12	eat_fruit	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Whole fruits (like apples, oranges, bananas, berries, grapes, melons)
Q56_13	eat_nuts	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Peanut butter and nuts (like peanuts, almonds, walnuts, cashews, pistachios)
Q56_14	eat_alcohol	Diet	Categorical	Less than once per week; Once per week; 2-4 times per week; Nearly daily or daily; Twice or more per day	Thinking back over the last month, how often have you eaten each of the following foods? - Beer, wine, or liquor
Q57	country	General	Binary	United States; Other	In what country were you born? - Selected Choice
Q57_2_TEXT	country_text	General	Text		In what country were you born? - Other: - Text
Q57a	years_in_us	General	Numeric		In total, how many years have you lived in the United States?
Q58	general_comments	General	Text		Please share anything else about your experience related to the issue of food during the COVID-19 pandemic that is important for us to understand. Please use the space below.
gc	gc	Qualtrics	Categorical	1=Complete response; 2=Screened out response; 4=Quality check fail (speeders); (empty)=partial or dropout response	Indicator of response quality
term	term	Qualtrics	Categorical	Consent=Consent not given; Non_Mass=Respondent not from MA;	Reason for screening out a response

Qualtrics Name	Variable Name	Section	Type	Valid Values	Description
				HHI_PNTA=Household income not provided; Speeder=Survey completed unreasonably quickly;	
Ethnicity	ethnicity	Qualtrics	Categorical	Asian; Black; Hispanic; Other; White	Qualtrics-derived ethnicity
HHI	HHI	Qualtrics	Categorical	Under_25k; 25-50k; 50-75k; Over_75k	Qualtrics-derived household income

Derived Variables

Variable Name	Section	Type	Valid Values	Description
RUCA1	Demographics	Categorical	1=Metropolitan area core: primary flow within an urbanized area (UA); 2=Metropolitan area high commuting: primary flow 30% or more to a UA; 3=Metropolitan area low commuting: primary flow 10% to 30% to a UA; 4=Microopolitan area core: primary flow within an urban cluster of 10,000 to 49,999 (large UC); 5=Microopolitan high commuting: primary flow 30% or more to a large UC; 6=Microopolitan low commuting: primary flow 10% to 30% to a large UC; Small town core: primary flow within an urban cluster of 2,500 to 9,999 (small UC); 8=Small town high commuting: primary flow 30% or more to a small UC; 9=Small town low commuting: primary flow 10% to 30% to a small UC; 10=Rural areas: primary flow to a tract outside a UA or UC; 99=Not coded: Census tract has zero population and no rural-urban identifier information	Primary RUCA codes, 2010 from https://www.ers.usda.gov/data-products/rural-urban-commuting-area-codes/documentation/
RUCA2	Demographics	Categorical	Same as above but also including - 1.1=Secondary flow 30% to 50% to a larger UA; 2.1=Secondary flow 30% to 50% to a larger UA; 4.1=Secondary flow 30% to 50% to a UA; 5.1=Secondary flow 30% to 50% to a UA; 7.1=Secondary flow 30% to 50% to a UA;	Secondary RUCA codes, 2010

Variable Name	Section	Type	Valid Values	Description
			7.2=Secondary flow 30% to 50% to a large UC; 8.1=Secondary flow 30% to 50% to a UA; 8.2=Secondary flow 30% to 50% to a large UC; 10.1=Secondary flow 30% to 50% to a UA; 10.2=Secondary flow 30% to 50% to a large UC; 10.3=Secondary flow 30% to 50% to a small UC	
gender	Demographics	Categorical	Female; Male; Non-binary; Other gender identity; Transgender	Combines individual gender variables under one variable
gender2	Demographics	Binary	Female; Male	Male and non-male responses
gender3	Demographics	Categorical	Female; Male; Non-binary/Transgender	Combines non-cis gender options
sexual2	Demographics	Binary	Straight, that is, not gay or lesbian, etc.; LGBTQ+	Combines non-hetero options
lgbtq	Demographics	Binary	LGBTQ+; Non-LGBTQ+	Creates a LGBTQ+ group
children	Demographics	Binary	1=Yes; 0=No	Yes/No presence of children in household
race_total	Demographics	Numeric	0; 1; 2; 3; 4; 5; 6	Total number of races/ethnicities selected per respondent; >1 represents multiracial respondents
race	Demographics	Categorical	Asian; Black; Latino; Other; White	Final race variable
region	Demographics	Categorical	Boston; Central; Northeast; Southeast; Western; Don't know	MA regions based on county of respondent
region2	Demographics	Categorical	Central; Eastern; Western; Don't know	MA regions collapsing Boston, Northeast, & Southeast
urbanicity	Demographics	Categorical	Isolated; Large rural core; Other large rural; Other urban; Small rural code; Urban core; Missing or NA	Rural/urban groups based on RUCA2 codes
urbanicity2	Demographics	Categorical	Rural; Urban; Missing or NA	Further collapses urbanicity into Rural/Urban/Missing
minutes	Other	Numeric		Converts seconds variable into minutes taken to complete the survey
USDA_HFSSM_1_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines

Variable Name	Section	Type	Valid Values	Description
USDA_HFSSM_2_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines
USDA_HFSSM_3_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_4_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_5_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_6_3 0d	General Food Access	Binary	1=Yes; 0=No; NA	Coding >3 days as affirmative according to HFSSM guidelines
USDA_HFSSM_1_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines
USDA_HFSSM_2_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines
USDA_HFSSM_3_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_4_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_5_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_6_la styear	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'Almost every month' and 'Some months but not every month' as affirmative according to HFSSM guidelines
USDA_HFSSM_1_p p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines

Variable Name	Section	Type	Valid Values	Description
USDA_HFSSM_2_p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'often' and 'sometimes' as affirmative according to HFSSM guidelines
USDA_HFSSM_3_p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_4_p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_5_p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'yes' as affirmative according to HFSSM guidelines
USDA_HFSSM_6_p	General Food Access	Binary	1=Yes; 0=No; NA	Coding 'Almost every month' and 'Some months but not every month' as affirmative according to HFSSM guidelines
USDA_HFSSM_30d	General Food Access	Numeric	1; 2; 3; 4; 5; 6; NA	Sum of USDA HFSSM score for past 30 days
USDA_HFSSM_last year	General Food Access	Numeric	0; 1; 2; 3; 4; 5; 6; NA	Sum of USDA HFSSM score for past year
USDA_HFSSM_pp	General Food Access	Numeric	0; 1; 2; 3; 4; 5; 6; NA	Sum of USDA HFSSM score for year before pandemic
food_insecure_30d	General Food Access	Binary	Food insecure; Food secure; NA	Binary food insecure/secure in last 30 days accounting for "Don't know" responses
food_insecure_last year	General Food Access	Binary	Food insecure; Food secure; NA	Binary food insecure/secure in past year accounting for "Don't know" responses
food_insecure_pp	General Food Access	Binary	Food insecure; Food secure; NA	Binary food insecure/secure in year before the pandemic accounting for "Don't know" responses
food_insecure_year	General Food Access	Binary	1; 0; NA	Food insecurity status to include last 30 days OR last year
food_insecure_ever	General Food Access	Binary	1; 0; NA	Food insecurity status to include last 30 days OR last year OR year before the pandemic
pantry_ever	Food Assistance/New Users	Binary	1; 0	Pantry use in year before pandemic OR last year OR last 30 days

Variable Name	Section	Type	Valid Values	Description
pantry_year	Food Assistance/New Users	Binary	1; 0	Pantry use in last year OR last 30 days
snap_ever	Food Assistance/New Users	Binary	1; 0	SNAP use in year before pandemic OR last year OR last 30 days
snap_year	Food Assistance/New Users	Binary	1; 0	SNAP use in last year OR last 30 days
hip_ever	Food Assistance/New Users	Binary	1; 0	HIP use in year before pandemic OR last year OR last 30 days
hip_year	Food Assistance/New Users	Binary	1; 0	HIP use in last year OR last 30 days
wic_ever	Food Assistance/New Users	Binary	1; 0	WIC use in year before pandemic OR last year OR last 30 days
wic_year	Food Assistance/New Users	Binary	1; 0	WIC use in last year OR last 30 days
school_ever	Food Assistance/New Users	Binary	1; 0	Free school meals use in year before pandemic OR last year OR last 30 days
school_year	Food Assistance/New Users	Binary	1; 0	Free school meals use in last year OR last 30 days
summer_ever	Food Assistance/New Users	Binary	1; 0	Summer Eats program use in year before pandemic OR last year OR last 30 days
summer_year	Food Assistance/New Users	Binary	1; 0	Summer Eats program use in last year OR last 30 days
invalid_gender	Invalid Data	Binary	1; 0	Identifies respondents who selected male and female gender
invalid_sexual	Invalid Data	Binary	1; 0	Identifies respondents who selected male gender and lesbian sexual orientation
invalid_age	Invalid Data	Binary	1; 0	Identifies respondents who reported being 65 years and older but did not have any adults 65 or older living in the household

Variable Name	Section	Type	Valid Values	Description
invalid_dollar	Invalid Data	Binary	1; 0	Identifies respondents who reported needed \$0-10 or >\$5000 to meet additional food needs
invalid_hh	Invalid Data	Binary	1; 0	Identifies respondents where reported household size is less than or equal to number of children in household, household size is greater than 21, or number of children in household is greater than 15
invalid_hfssm	Invalid Data	Binary	1; 0	Identifies respondents with multiple "Don't know" answers to the HFSSM food insecurity module
invalid_snap	Invalid Data	Binary	1; 0	Identifies respondents who use SNAP but reported household income from the last year does not match SNAP eligibility requirements
invalid_pantry	Invalid Data	Binary	1; 0	Identifies respondents who reported using food pantries at least once in the past year but also reported that none of their food came from food pantries in the past year
invalid_pantry2	Invalid Data	Binary	1; 0	Identifies respondents who did not report using food pantries in the past year but reported that some of their food came from food pantries in the past year
invalid_wic	Invalid Data	Binary	1; 0	Identifies respondents who report using WIC in the past 30 days but do not report having any children under 5 in the household or who report any WIC use ever but do not have any children in the household
invalid_school	Invalid Data	Binary	1; 0	Identifies respondents who reported receiving free school meals in the past year but do not report having any children in their household
invalid_assist	Invalid Data	Binary	1; 0	Identifies respondents with contrasting responses for various forms of food assistance

Variable Name	Section	Type	Valid Values	Description
invalid_meals	Invalid Data	Binary	1; 0	Identifies respondents who reported skipping meals in the past 30 days but report either 0 or >30 days with meals skipped
invalid_EATS	Invalid Data	Binary	1; 0	Identifies respondents who reported using the summer eats program in the past 30 days (not possible because survey was distributed in the Fall and Winter)
invalid_discrim	Invalid Data	Binary	1; 0	Identifies respondents who reported discrimination based on sexual orientation but also report being heterosexual
invalid_child_expense	Invalid Data	Binary	1; 0	Identifies respondents who reported using pantries due to childcare expenses but did not have any children in the household
invalid_hip	Invalid Data	Binary	1; 0	Identifies respondents with conflicting responses to whether they use HIP
invalid_snap_online	Invalid Data	Binary	1; 0	Identifies respondents with conflicting responses related to using online grocery ordering/delivery and SNAP use
invalid_pantry_amount	Invalid Data	Binary	1; 0	Identifies respondents who reported receiving most groceries in the past year from pantries but do not report going to pantries often
invalid_child	Invalid Data	Binary	1; 0	Identifies respondents who reported having a child under 5 in the household but also report having no children in the household
invalid_total	Invalid Data	Numeric	0-20	Summary value of all Invalid Data questions
invalid_ipaddress	Invalid Data	Binary	1; 0	Identifies duplicate IP address among all responses

Variable Name	Section	Type	Valid Values	Description
invalid_straight_pantry_feedback	Invalid Data	Binary	1; 0	Straightlining questions on pantry feedback
invalid_straight_pantry_food	Invalid Data	Binary	1; 0	Straightlining questions on food received from pantries
invalid_straight_pantry_exp	Invalid Data	Binary	1; 0	Straightlining questions on pantry experiences
invalid_straight_pantry_bar	Invalid Data	Binary	1; 0	Straightlining questions on pantry barriers
invalid_straight_snap_bar	Invalid Data	Binary	1; 0	Straightlining questions on SNAP barriers
invalid_straight_discrim_life	Invalid Data	Binary	1; 0	Straightlining questions on everyday discrimination (excluding those who responded "never" to every question)
invalid_straight_discrim_pantry	Invalid Data	Binary	1; 0	Straightlining questions on pantry discrimination (excluding those who responded "never" to every question)
invalid_straight_diet	Invalid Data	Binary	1; 0	Straightlining question on dietary choices
invalid_straight_count	Invalid Data	Numeric	0-8	Summary value of all straightlining questions
weight	Other	Numeric	0-5	Survey weights for each response - weighted on gender, age, race, education, income, region