National Health and Nutrition Examination Survey

2017-March 2020 Data Documentation, Codebook, and Frequencies

Food Security (P_FSQ)

Data File: P_FSQ.xpt

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Component Description

The NHANES program suspended field operations in March 2020 due to the coronavirus disease 2019 (COVID-19) pandemic. As a result, data collection for the NHANES 2019-2020 cycle was not completed and the collected data are not nationally representative. Therefore, data collected from 2019 to March 2020 were combined with data from the NHANES 2017-2018 cycle to form a nationally representative sample of NHANES 2017-March 2020 pre-pandemic data. These data are available to the public. Please refer to the Analytic Notes section for more details on the use of the data.

The 2017-2018 and 2019-2020 food security questionnaires are available on the NHANES website. The Food Security section (variable name prefix FSQ) provides individual and household-level interview data on the following topics:

1. Household food security
In the household interview, an adult responded to the U.S. Food Security Survey Module (US FSSM) questions (Bickel G, et al, 2000). There are 18 items that were asked for households with children under the age of 18 years and 10 items for households without children. The questions refer to all household members, not just NHANES participants. Two categorical household-level variables were created to characterize the overall food security status for the entire household and the adults in the household. The categorical variables derived from these responses are released on each household participant's record.

A question on household member's use of emergency foods from food banks, soup kitchens, or other organizations in the last 12 months is also included in this section.

2. Supplemental Nutrition Assistance Program (SNAP)/Food Stamp program benefits
All SNAP/Food Stamp benefits questions were collected at the household level. In 2015-2016, the questionnaire for SNAP/Food Stamp benefits in the household interview was redesigned to obtain a more complete picture of all benefit recipients in the household and these changes continued in the 2017-2018 and 2019-2020 survey cycles. The data collection instruments were modified to identify each household member's SNAP/Food Stamp benefit receipt status on the household roster. The data were then summarized at the household level.

Household-level data on SNAP/Food Stamp benefits are released on all household participants' records.

3. Women, Infants and Children (WIC) program benefits
Data collected for WIC benefits included two household-level questions as well as six individual-level questions for participants aged birth to 5 years, one individual-level question for children 1-5 years, and four individual-level questions for women aged 12 years and over.

In the household interview, an adult from each family responded to the questions on whether anyone in the household received WIC benefits in the last 12 months. Beginning in 2015-2016, a question on current WIC participation in the last 30 days was added. These household-level questions are released on all household participants' records.

For children participants, the target age group for the WIC benefit questions was changed from 0-11 to 0-5 years, starting in the NHANES 2015-2016 cycle. Children's WIC participation data were collected through adult proxy during the household interview as part of the 2017-2018 and 2019-2020 Dietary Behavior and Nutrition questionnaire (DBQ). During a cognitive testing conducted in 2014, considerable recalling errors were observed among proxies for children aged 6-11 years old, which triggered this change in the target group. In addition, starting in 2015-2016, instead of whether these children received benefits in the last 12 months, information was collected on whether they ever received WIC benefits, since the latter provided a preferable time reference for children in this age group. Similarly, information on current participation and WIC participation during various important periods in early childhood, including prenatal, infancy, and 1-4 years old, was also collected and released on the individual participant's record.

For female participants 12 years and older, a new WIC module was added in 2015-2016 to determine WIC participation for pregnant and postpartum women separately. The questions, which were adapted from the National Center for Education Statistics' Early Childhood Longitudinal Study, Birth Cohort (ECLS-B), will allow researchers to determine whether a woman participated prenatally and/or postnatally. Women 12 years and older were asked about WIC benefits received during the latest pregnancy, the month of pregnancy when benefits started, and whether benefits were received post-partum. Like previous years, information was also collected on current WIC participation. These questions were administered as part of the 2017-2018 and 2019-2020 Reproductive Health questionnaire (RHQ) during the Mobile Examination Center (MEC) interview, using the Computer-Assisted Personal Interview-CAPI (interviewer administered) system. Due to potential disclosure risk, the WIC benefits data will only be released for women aged 20 years and above in the public dataset. Data for all women 12 years and older will be available in the Research Data Center (RDC) only. Please refer to the Analytic Notes section for more details.

The table in Appendix 1 provides detailed information on each of the three FSQ components described above.

Quality Assurance & Quality Control

The automated interview systems used in NHANES are programmed with built-in consistency checks to reduce data entry errors. All the data were reviewed for accuracy and completeness. NHANES staff reviewed audio recordings of interviews, traveled to field sites to observe interviews, read interviewer comments, and attended training and re-training sessions to maintain the high-quality data.

Data Processing and Editing

Frequency counts were checked, "skip" patterns were verified, and the reasonableness of question responses was reviewed. Edits were made to some variables to ensure the completeness, consistency, and analytic usefulness of the data. Edits were also made, when necessary, to address data disclosure concerns.

FSDHH, FSDAD (Household and adult food security category)
Eighteen FSSM questions were asked of households with children under the age of 18. Ten questions were asked of households without children. Two categorical variables, each with four response levels, were created based on the number of affirmative responses for those questions. These categorical variables could be used to characterize the overall food security status for the entire household and the adults in the household. The algorithms used to derive these categorical variables are described below:

FSDHH (Household food security category):

Count affirmative responses in these 18 items: FSD032a, FSD032b, FSD032c, FSD032d, FSD032e, FSD032f, FSD041, FSD052, FSD061, FSD071, FSD081, FSD092, FSD102, FSD111, FSD122, FSD132, FSD141, and FSD146. Derive the codes as the following:

1 = Household full food security: no affirmative response in any of these items.
2 = Household marginal food security: 1-2 affirmative responses.
3 = Household low food security: 3-5 affirmative responses for household without children under the age of 18; 3-7 affirmative responses for household with children.
4 = Household very low food security: 6-10 affirmative responses for household without children under the

age of 18; 8-18 affirmative responses for household with children.

Households with children where no valid response was provided to any of the questions about children's food security were classified using the specifications for households without children.

FSDAD (Adult food security category):

Count affirmative responses in these 10 items: FSD032a, FSD032b, FSD032c, FSD041, FSD052, FSD061, FSD071, FSD081, FSD092, and FSD102. Derive the codes as the following:

1 = Adult full food security: no affirmative response in any of these items.
2 = Adult marginal food security: 1-2 affirmative responses.
3 = Adult low food security: 3-5 affirmative responses.
4 = Adult very low food security: 6-10 affirmative responses.

FSD165, FSQ012, FSD230 (variables for SNAP/Food Stamp benefits)
Information on the receipt of SNAP/Food Stamp benefits by any household members was provided in the present file: ever (FSQ165), received in the last 12 months (FSQ012), and currently receiving (FSD230). Receipt of SNAP/Food Stamp benefits by all individuals residing in the household, both survey and non-survey participants, was included. In households with more than one family where there were inconsistencies across families, all data were reviewed and reconciled.

FSD230 (Currently receive SNAP/Food Stamp benefits)
Prior to 2015-2016, the question on whether any members of the household currently receive SNAP/Food Stamp benefits (i.e., FSQ230) was only asked when the respondent refused to answer, did not know the exact date (day, month, and year) that the household last received SNAP/Food Stamp benefits, or the date reported was more than 30-days prior to the interview day. FSD230 was then derived from reported benefit receiving date (if the reported last benefits receiving date was within 30 days prior to the interview), or the information reported in question FSQ230. Since 2015-2016, the question (i.e., FSQ755) was directly asked to all family respondents and released in FSD230. Respondents with affirmative answers to FSQ755 were followed up with a question asking them to identify all persons living in the household who are currently receiving benefits from a household roster.

FSD162 (receive WIC benefits in the last 12 months)
This variable indicates whether there is any member of the household who received benefits from WIC in the last 12 months. It is derived for all households that responded to the FSQ section of the family questionnaire, regardless of WIC program eligibility of household members.

FSD652ZW (women received WIC benefits during latest pregnancy)
Information on WIC participation by women during their current (FSQ652a) or last (FSQ652b) pregnancy was obtained. The combined information is included in FSD652ZW.

FSD660ZW (women currently received WIC benefits)
This question was asked of female participants who were pregnant or 0-24 months postpartum at the time of interview. The postpartum screening criterion for this question was added in 2007-2008 to better classify eligibility for WIC benefits and included women 0-2 years postpartum by calculating the differences in years between the reported current age and the age of last delivery. The questionnaire instrument was updated again in 2015-2016 to improve the classification of categorical WIC eligibility by adding a question specifically asking the year and month of the last delivery and comparing those with the interview date.

Analytic Notes

The COVID-19 pandemic required suspension of NHANES 2019-2020 field operations in March 2020 after data were collected in 18 of the 30 survey locations in the 2019-2020 sample. Data collection was cancelled for the remaining 12 locations. Because the collected data from 18 locations were not nationally representative, these data were combined with data from the previous cycle (2017-2018) to create a 2017-March 2020 pre-pandemic data file. A special weighting process was applied to the 2017-March 2020 pre-pandemic data file. The resulting sample weights in the present file should be used to calculate estimates

from the combined cycles. These sample weights are not appropriate for independent analyses of the 2019-2020 data and will not yield nationally representative results for either the 2017-2018 data alone or the 2019-March 2020 data alone. Please refer to the NHANES website for additional information for the NHANES 2017-March 2020 pre-pandemic data, and for the previous 2017-2018 public use data file with specific weights for that 2-year cycle.

NHANES has assessed household food security with the U.S. Food Security Survey Module (US FSSM) since 1999. Similar modules have been used in various surveys, including the Census Bureau's Current Population Survey (CPS) and a growing number of State, local, and regional studies, such as the California Health Interview Survey (CHIS). For more information on food security measurement, please refer to the USDA's website at: http://www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-the-us/measurement.aspx.

The NHANES household interview included two questionnaires: a sample participant questionnaire to collect information regarding each individual survey participant's personal health status, and a family questionnaire to collect information at the family level, such as total income for the family, food availability in the family, etc. The sample participant questionnaire was answered by participants themselves (adult proxy for child under 16 years old). The family questionnaire required an adult family member, preferably the head of the family, to respond to these questions for the entire family. The information on household food security status and SNAP/Food Stamp program as well as WIC program benefits in the FSQ section were collected as part of this family questionnaire.

Due to potential disclosure risk, this file does not include data of WIC benefit related variables for females less than 20 years old. For female participants 12-19 years old, records are coded as missing for the following variables: FSD652ZW, FSD672ZW, FSD652CW, and FSD660ZW. The complete data file containing all variables for females 12 years and older (P_FSQ_R) is available through the NCHS Research Data Center.

FSQ data were collected in the household and in the MEC. For data items collected in the household interview, the interview sample weights may be used in their analysis. However, if the data analysis requires merging of data collected in the household with data collected in the MEC, examination sample weights should be used for analyses. The recommended weights for each individual component in the FSQ section are listed in the table in Appendix 1.

Please refer to the NHANES Analytic Guidelines and the on-line NHANES Tutorial for further details on the use of sample weights and other analytic issues. Both are available on the NHANES website.

Disclosure risk and issues pertaining to confidentiality protection prevent NCHS from releasing all of the NHANES FSQ variables publicly. Additional information and instructions for requesting use of these data are available through the NCHS RDC.

References

- Guide to Measuring Household Food Security (Revised 2000) | Food and Nutrition Service (usda.gov). Available from: https://fns-prod.azureedge.net/sites/default/files/FSGuide.pdf

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:	SEQN
SAS Label:	Respondent sequence number
English Text:	Respondent sequence number.
Target:	Both males and females 0 YEARS - 150 YEARS

FSDHH - Household food security category

Variable Name: FSDHH

SAS Label: Household food security category

English Text: Household food security category for last 12 months

English Instructions: Calculated at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	HH full food security: 0	8668	8668	
2	HH marginal food security: 1-2	2197	10865	
3	HH low food security: 3-5 (HH w/o child) / 3-7 (HH w/ child)	2289	13154	
4	HH very low food security: 6-10 (HH w/o child) / 8-18 (HH w/ child)	1322	14476	
.	Missing	1084	15560	

FSDAD - Adult food security category

Variable Name: FSDAD

SAS Label: Adult food security category

English Text: Adult food security category for last 12 months

English Instructions: Calculated at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	AD full food security: 0	8774	8774	
2	AD marginal food security: 1-2	2329	11103	
3	AD low food security: 3-5	1901	13004	
4	AD very low food security: 6-10	1472	14476	
.	Missing	1084	15560	

FSD151 - HH Emergency food received

Variable Name: FSD151

SAS Label: HH Emergency food received

English Text: In the last 12 months, did {you/you or any member of your household} ever get emergency food from a church, a food pantry, or a food bank, or eat in a soup kitchen?

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1884	1884	
2	No	12592	14476	
7	Refused	23	14499	
9	Don't know	6	14505	
.	Missing	1055	15560	

FSQ165 - HH FS benefit: ever received

Variable Name: FSQ165

SAS Label: HH FS benefit: ever received

English Text: The next questions are about SNAP, the Supplemental Nutrition Assistance Program, formerly known as the Food Stamp Program. SNAP benefits are provided on an electronic debit card {or EBT card} {called the {DISPLAY STATE NAME FOR EBT CARD}} card in STATE}. Have {you/you or anyone in your household} ever received SNAP or Food Stamp benefits?

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	7093	7093	
2	No	7311	14404	FSD162
7	Refused	42	14446	FSD162
9	Don't know	59	14505	FSD162
.	Missing	1055	15560	

FSQ012 - HH FS benefit: receive in last 12 months

Variable Name: FSQ012

SAS Label: HH FS benefit: receive in last 12 months

English Text: In the last 12 months, did {you/you or any member of your household} receive SNAP or Food Stamp benefits?

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	4332	4332	
2	No	2740	7072	FSD162
7	Refused	2	7074	FSD162
9	Don't know	19	7093	FSD162
.	Missing	8467	15560	

FSD230 - HH FS benefit: currently receive

Variable Name: FSD230

SAS Label: HH FS benefit: currently receive

English Text: {Do you/Does any member of your household} currently receive SNAP or Food Stamp benefits?

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3802	3802	
2	No	522	4324	
7	Refused	0	4324	
9	Don't know	8	4332	
.	Missing	11228	15560	

FSD162 - HH WIC benefit: receive in last 12 month

Variable Name: FSD162

SAS Label: HH WIC benefit: receive in last 12 month

English Text: Next are a few questions about the WIC program, that is, the Women, Infants and Children program. In the last 12 months, did {you/you or any member of your household} receive benefits from the WIC program?

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	2396	2396	
2	No	12065	14461	FSQBOX6
7	Refused	10	14471	FSQBOX6
9	Don't know	25	14496	FSQBOX6
.	Missing	1064	15560	

FSQ760 - HH WIC benefit: received in last 30 days

Variable Name: FSQ760

SAS Label: HH WIC benefit: received in last 30 days

English Text: Did {you/you or anyone who lives here} receive WIC benefits in the past 30 days? {Here is the list of children 5 years and younger and women ages 12 to 59 years who live here, let me read it to you.}

English Instructions: Collected at household level.

Target: Both males and females 0 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1904	1904	
2	No	489	2393	
7	Refused	0	2393	
9	Don't know	3	2396	
.	Missing	13164	15560	

FSQBOX6 - CHECK ITEM

Variable Name: FSQBOX6

English Instructions: BOX 6. CHECK ITEM: IF THE RESPONDENT AGE BETWEEN 0-5 YEARS,
                              CONTINUE WITH FSQ653. IF THE RESPONDENT IS FEMALE AND AGE 20
                              YEARS OR OLDER, GO TO BOX7. OTHERWISE, GO TO END OF
                              SECTION.

Target: Both males and females 0 YEARS - 150 YEARS

FSQ653 - CH WIC benefit: ever received

Variable Name: FSQ653

SAS Label: CH WIC benefit: ever received

English Text: Next are a few questions about the WIC program. Has {SP} ever received benefits from WIC, that is, the Women, Infants, and Children program?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1472	1472	
2	No	866	2338	FSQ690
7	Refused	0	2338	FSQ690
9	Don't know	4	2342	FSQ690
.	Missing	13218	15560	

FSD660ZC - CH WIC benefit: currently receive

Variable Name: FSD660ZC

SAS Label: CH WIC benefit: currently receive

English Text: Is {SP} now receiving benefits from the WIC program?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	736	736	
2	No	733	1469	
7	Refused	0	1469	
9	Don't know	3	1472	
.	Missing	14088	15560	

FSD675 - CH WIC benefit: received in infancy

Variable Name: FSD675

SAS Label: CH WIC benefit: received in infancy

English Text: Did {SP} receive benefits from WIC when {he/she} was less than one year old?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1409	1409	
2	No	58	1467	
7	Refused	0	1467	
9	Don't know	5	1472	
.	Missing	14088	15560	

FSD680 - CH WIC benefit: received b/w 1-4 yrs old

Variable Name: FSD680

SAS Label: CH WIC benefit: received b/w 1-4 yrs old

English Text: Did {SP} receive benefits from WIC when {he/she} {was/is} between the ages of {1 to {SP AGE/4} years old/12 to {SP AGE} months old}?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 1 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	801	801	
2	No	268	1069	
7	Refused	0	1069	
9	Don't know	6	1075	
.	Missing	14485	15560	

FSD670ZC - CH WIC benefit: # of months received

Variable Name: FSD670ZC

SAS Label: CH WIC benefit: # of months received

English Text: How long {did SP receive/has SP been receiving} benefits from the WIC
program?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
0 to 60	Range of Values	1458	1458	
777	Refused	0	1458	
999	Don't know	14	1472	
.	Missing	14088	15560	

FSQ690 - CH WIC benefit: Mom received while preg.

Variable Name: FSQ690

SAS Label: CH WIC benefit: Mom received while preg.

English Text: Did {SP's} mother receive benefits from WIC, while she was pregnant with {SP}?

English Instructions: Collected at individual level in the household interview.

Target: Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1181	1181	
2	No	1126	2307	End of Section
7	Refused	1	2308	End of Section
9	Don't know	34	2342	End of Section
.	Missing	13218	15560	

FSQ695 - CH WIC benefit: starting month of preg.

Variable Name:	FSQ695
SAS Label:	CH WIC benefit: starting month of preg.
English Text:	What month of the pregnancy did {SP's} mother begin to receive WIC benefits?
English Instructions:	Collected at individual level in the household interview.
Target:	Both males and females 0 YEARS - 5 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 9	Range of Values	1132	1132	
77	Refused	0	1132	
99	Don't know	49	1181	
.	Missing	14379	15560	

FSQBOX7 - CHECK ITEM

Variable Name:	FSQBOX7
English Instructions:	BOX 7. CHECK ITEM: IF SP CURRENTLY PREGNANT (CODED '1' IN RHD143), CONTINUED WITH FSD652ZW. IF RHQ197 IS CODED '1-24', CONTINUED WITH FSD652ZW. ELSE IF THE MONTH IN RHQ184 WAS "REFUSED" OR "DON'T KNOW" AND [(THE YEAR IN RHQ184) > (CURRENT YEAR - 3)], CONTINUED WITH FSD652ZW. OTHERWISE, SKIPPED TO END OF SECTION. NOTE: RHD143 AND RHQ197 ARE REPORTED IN THE REPRODUCTIVE HEALTH SECTION (RHQ); RHQ184 IS INCLUDED IN THE REPRODUCTIVE HEALTH QUESTIONNAIRE.
Target:	Females only 20 YEARS - 150 YEARS

FSD652ZW - WM WIC benefit: receive in latest preg.

Variable Name:	FSD652ZW
SAS Label:	WM WIC benefit: receive in latest preg.
English Text:	During {this/your last} pregnancy did you use WIC benefits to buy food for yourself? {Please include any stillbirth or miscarriage.}
English Instructions:	Collected at individual level in the MEC interview.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	139	139	
2	No	158	297	FSD652CW
7	Refused	1	298	FSD652CW
9	Don't know	1	299	FSD652CW
.	Missing	15261	15560	

FSD672ZW - WM WIC benefit: starting month of preg.

Variable Name: FSD672ZW

SAS Label: WM WIC benefit: starting month of preg.

English Text: How many months pregnant were you when you first started to receive WIC benefits to buy food for yourself?

English Instructions: Collected at individual level in the MEC interview.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 9	Range of Values	137	137	
77	Refused	0	137	
99	Don't know	2	139	
.	Missing	15421	15560	

FSD652CW - WM WIC benefit: receive post-partum

Variable Name:	FSD652CW
SAS Label:	WM WIC benefit: receive post-partum
English Text:	After your {last} child was born, did you use WIC benefits to buy food for yourself?
English Instructions:	Collected at individual level in the MEC interview.
Target:	Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	116	116	
2	No	166	282	
3	Currently pregnant	15	297	
7	Refused	1	298	
9	Don't know	1	299	
.	Missing	15261	15560	

FSQBOX8 - CHECK ITEM

Variable Name:	FSQBOX8
English Instructions:	BOX 8. CHECK ITEM: IF PARTICIPANT CURRENTLY PREGNANT (CODED '1') IN RHD143, CONTINUED WITH FSD660ZW. IF RHQ197 WAS CODED 1-12, CONTINUED WITH FSD660ZW. IF THE MONTH IN RHQ184 WAS "REFUSED" OR "DON'T KNOW" AND [(THE YEAR IN RHQ184) > (CURRENT YEAR - 2)], CONTINUED WITH FSD660ZW. OTHERWISE, SKIPPED TO END OF SECTION. NOTE: RHQ184 IS INCLUDED IN THE REPRODUCTIVE HEALTH QUESTIONNAIRE (RHQ).
Target:	Females only 20 YEARS - 150 YEARS

FSD660ZW - WM WIC benefit: currently receive

Variable Name: FSD660ZW

SAS Label: WM WIC benefit: currently receive

English Text: Are you now receiving WIC benefits for yourself?

English Instructions: Collected at individual level in the MEC interview.

Target: Females only 20 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	63	63	
2	No	236	299	
7	Refused	0	299	
9	Don't know	0	299	
.	Missing	15261	15560	

Appendix 1

Components of the Food Security (FSQ) section in 2017- March 2020 Pre-Pandemic

Component	Data Collection Details	Recommended Weights	Variable Name	Target: Gender Age	Label
Household Food Security	Food Security (FSQ) Family Interview Household level	Interview	FSDHH	MF (0-150)	Household food security category
			FSDAD	MF (0-150)	Adult food security category
			FSD151	MF (0-150)	HH Emergency food received
Supplemental Nutrition Assistance Program (SNAP)/Food Stamp Program Benefits	Food Security (FSQ) Family Interview Household level	Interview	FSQ165	MF (0-150)	HH FS benefit: ever received
			FSQ012	MF (0-150)	HH FS benefit: receive in last 12 months
			FSD230	MF (0-150)	HH FS benefit: currently receive
Women, Infants and Children (WIC) Program Benefits	Food Security (FSQ) Family Interview Household level	Interview	FSQ162	MF (0-150)	HH WIC benefit: receive in last 12 month
			FSQ760	MF (0-150)	HH WIC benefit: receive in last 30 days
	Diet Behavior (DBQ) Household Interview Individual level	Interview	FSQ653	MF (0-5)	CH WIC benefit: Ever received
			FSD660ZC	MF (0-5)	CH WIC benefit: currently receive
			FSD675	MF (0-5)	CH WIC benefit: received in infancy
			FSD680	MF (1-5)	CH WIC benefit: received b/w 1-4 yrs old
			FSD670ZC	MF (0-5)	CH WIC benefit: # of months received
			FSQ690	MF (0-5)	CH WIC benefit: mom received while preg.
			FSQ695	MF (0-5)	CH WIC benefit: starting month of preg.
	Reproductive Health (RHQ) Mobile Exam Center (MEC) Individual level	MEC Exam	FSD652ZW	F (12-150)*	WM WIC benefit: receive in latest preg.
			FSD672ZW	F (12-150)*	WM WIC benefit: starting month of preg.
			FSD652CW	F (12-150)*	WM WIC benefit: receive post-partum
			FSD660ZW	F (12-150)*	WM WIC benefit: currently receive