

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

report\_generated\_on: September 25, 2023

visit\_data\_catalog\_at: <https://microdata.worldbank.org/index.php>

## Identification

### SURVEY ID NUMBER

KWT\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Kuwait	KWT

### STUDY TYPE

Socio-Economic/Monitoring Survey [hh/sems]

### ABSTRACT

Sustainable Development Goal (SDG) target 2.1 commits countries to end hunger, ensure access by all people to safe, nutritious and sufficient food all year around. Indicator 2.1.2, "Prevalence of moderate or severe food insecurity based on the Food Insecurity Experience Scale (FIES)", provides internationally-comparable estimates of the proportion of the population facing difficulties in accessing food. More detailed background information is available at <http://www.fao.org/in-action/voices-of-the-hungry/fies/en/> .

The FIES-based indicators are compiled using the FIES survey module, containing 8 questions. Two indicators can be computed:

1. The proportion of the population experiencing moderate or severe food insecurity (SDG indicator 2.1.2),
2. The proportion of the population experiencing severe food insecurity.

These data were collected by FAO through the Gallup World Poll. General information on the methodology can be found here: <https://www.gallup.com/178667/gallup-world-poll-work.aspx>. National institutions can also collect FIES data by including the FIES survey module in nationally representative surveys.

Microdata can be used to calculate the indicator 2.1.2 at national level. Instructions for computing this indicator are described in the methodological document available in the documentations tab. Disaggregating results at sub-national level is not encouraged because estimates will suffer from substantial sampling and measurement error.

### KIND OF DATA

Sample survey data [ssd]

### UNIT OF ANALYSIS

Individuals

## Scope

### NOTES

This dataset contains demographic variables related to number of adults and children in the household, age, education, area (urban/rural), gender, and income. Also, the FIES survey module includes the following questions to compute the FIES-based indicators:

During the last 12 months, was there a time when, because of lack of money or other resources:

1. You were worried you would not have enough food to eat?
2. You were unable to eat healthy and nutritious food?
3. You ate only a few kinds of foods?
4. You had to skip a meal?
5. You ate less than you thought you should?
6. Your household ran out of food?
7. You were hungry but did not eat?
8. You went without eating for a whole day?

The dataset also includes derived variables computed by FAO described in the documentation.

#### TOPICS

Topic
SDGs
Food Access

#### KEYWORDS

Keyword
Food Insecurity
SDG

## Coverage

#### GEOGRAPHIC COVERAGE

National

#### UNIVERSE

Individuals of 15 years or older with access to landline and/or mobile phones.

## Producers and sponsors

#### PRIMARY INVESTIGATORS

Name	Affiliation
FAO Statistics Division	FAO

## Sampling

#### SAMPLING PROCEDURE

NA

Exclusions: Includes only Kuwaitis, Arab expatriates and non-Arabs who were able to complete the interview in Arabic, English, Bengali or Hindi.

Design effect: 1.89

#### WEIGHTING

The sample data was weighted to minimize bias in survey-based estimates. The weighting procedure was formulated based on the sample design and was carried out in multiple stages. A probability weight factor (base weight) was constructed to account for selection of telephone numbers from the respective frames and correct for unequal selection probabilities as a result of selecting one adult in landline households and for dual-users coming from both the landline and mobile frame. At the next step, the base weights were post-stratified to adjust for non-response and to match the weighted sample totals to known target population totals obtained from country level census data.

## data\_collection

#### DATES OF DATA COLLECTION

Start	End
2022-09-15	2022-10-06

#### DATA COLLECTION MODE

Computer-Assisted Telephone Interviewing [CATI]

## data\_processing

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### DATA EDITING

Statistical validation assesses the quality of the FIES data collected by testing their consistency with the assumptions of the Rasch model. This analysis involves the interpretation of several statistics that reveal 1) items that do not perform well in a given context, 2) cases with highly erratic response patterns, 3) pairs of items that may be redundant, and 4) the proportion of total variance in the population that is accounted for by the measurement model.

## data\_appraisal

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### ESTIMATES OF SAMPLING ERROR

The margin of error is estimated as 4.3. This is calculated around a proportion at the 95% confidence level. The maximum margin of error was calculated assuming a reported percentage of 50% and takes into account the design effect.

### DATA APPRAISAL

The variable WHLDAY was not considered in the computation of the published FAO food insecurity indicator based on FIES due to the results of the validation process. The variable WORRIED was not considered in the computation of the published FAO food insecurity indicator based on FIES due to the results of the validation process.

## Access policy

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### CONTACTS

Name	Affiliation	Email	URL
FAO Statistics Division	FAO	Carlo.Cafiero@fao.org	<a href="#">Link</a>

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The user of the data acknowledges that the original collector of the data, the authorized distributor of the data, and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

## Metadata production

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### DDI DOCUMENT ID

DDI\_KWT\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### PRODUCERS

Name	Abbreviation	Affiliation	Role
Office of the Chief Statistician	OCS	FAO	Metadata producer
Development Economics Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

### DDI DOCUMENT VERSION

This metadata was downloaded from the FAO catalog (<https://microdata.fao.org/index.php/catalog>) and it is identical to FAO version (KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS). The following two metadata fields were edited - Document ID and Survey ID.

**data\_dictionary**

Data file	Cases	variables
<b>KWT_2022_FIES_v01_EN_M_v01_A_OCS</b> This dataset contains the variables used to calculate the FIES-based indicator, demographic variables and some derived variables calculated by FAO from the survey.	1004	22



**Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**

This dataset contains the variables used to calculate the FIES-based indicator, demographic variables and some derived variables calculated by FAO from the survey.

Cases: 1004

variables: 22

**variables**

ID	Name	Label	Question
53	Random_ID	Unique respondent identifier	
54	HEALTHY	Unable to eat healthy and nutritious food because of a lack of money or other resources	
55	FEWFOOD	Ate only a few kinds of foods because of a lack of money or other resources	
56	SKIPPED	Skipped a meal because there was not enough money or other resources to get food	
57	ATELESS	Ate less than you thought you should because of a lack of money or other resources	
58	RUNOUT	Household ran out of food because of a lack of money or other resources	
59	HUNGRY	Hungry but did not eat because there was not enough money or other resources for food?	
60	wt	Post-stratification sampling weights	
61	year	Year when the study was administered in the country	
62	N_adults	Number of adults 15 years of age and above in household	
63	N_child	Number of children under 15 years of age in household	
64	Raw_score	Sum of Affirmative responses to FIES questions	
65	Raw_score_par	Estimated person parameters using the Rasch model	
66	Raw_score_par_error	Estimated person parameter errors using the Rasch model	
67	Prob_Mod_Sev	Probability of being moderately or severely food insecure	
68	Prob_sev	Probability of being severely food insecure	
69	Age	Age of the respondent	
70	Education	Education of the respondent	
71	Area	Area	
72	Gender	Gender of the respondent	
73	Income	Income quintile	
74	DEGURBA	Degree of Urbanisation	

total: 22



**RANDOM\_ID: Unique respondent identifier**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004    Invalid: 0  
 Type: Discrete    Width: 12    Range: NA - NA    Format:

**HEALTHY: Unable to eat healthy and nutritious food because of a lack of money or other resources**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1001    Invalid: 3  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	890	88.9%
1	Yes	111	11.1%
Sysmiss		3	

**FEWFOOD: Ate only a few kinds of foods because of a lack of money or other resources**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 997    Invalid: 7  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	883	88.6%
1	Yes	114	11.4%
Sysmiss		7	

**SKIPPED: Skipped a meal because there was not enough money or other resources to get food**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 992 Invalid: 12  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	903	91%
1	Yes	89	9%
Sysmiss		12	

**ATELESS: Ate less than you thought you should because of a lack of money or other resources**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 989 Invalid: 15  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	891	90.1%
1	Yes	98	9.9%
Sysmiss		15	

**RUNOUT: Household ran out of food because of a lack of money or other resources**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 995 Invalid: 9  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	922	92.7%
1	Yes	73	7.3%

Sysmiss		9	
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## HUNGRY: Hungry but did not eat because there was not enough money or other resources for food?

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### Overview

Valid: 991 Invalid: 13  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
0	No	920	92.8%
1	Yes	71	7.2%
Sysmiss		13	

## WT: Post-stratification sampling weights

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### Overview

Valid: 1004 Invalid: 0 Minimum: 0.227 Maximum: 9.023 Mean: 1 Standard deviation: 0.943  
Type: Continuous Decimal: 0 Width: 10 Range: 0.226866013103102 - 9.02339956227847 Format: Numeric  
Weighted: yes

## YEAR: Year when the study was administered in the country

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### Overview

Valid: 1004 Invalid: 0  
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	2022	1004	100%
Sysmiss		0	

**N\_ADULTS: Number of adults 15 years of age and above in household**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 997 Invalid: 7

Type: Discrete Width: 12 Range: 1 - 9 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
01	01	101	10.1%
02	02	230	23.1%
03	03	219	22%
04	04	202	20.3%
05	05	112	11.2%
06	06	62	6.2%
07	07	43	4.3%
08	08	8	0.8%
09	09	6	0.6%
10	10+	14	1.4%
Sysmiss		7	

**N\_CHILD: Number of children under 15 years of age in household**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 996 Invalid: 8

Type: Discrete Width: 12 Range: 0 - 7 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
00	00	470	47.2%
01	01	114	11.4%
02	02	226	22.7%
03	03	141	14.2%
04	04	37	3.7%
05	05	7	0.7%
07	07	1	0.1%

Sysmiss

8

**RAW\_SCORE: Sum of Affirmative responses to FIES questions**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: 0 Maximum: 6 Mean: 0.554 Standard deviation: 1.483  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 6 Format: Numeric

**RAW\_SCORE\_PAR: Estimated person parameters using the Rasch model**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: -2.926 Maximum: 2.522 Mean: -2.424 Standard deviation: 1.346  
 Type: Continuous Decimal: 0 Width: 10 Range: -2.92619154354185 - 2.5217401958507 Format: Numeric

**RAW\_SCORE\_PAR\_ERROR: Estimated person parameter errors using the Rasch model**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: 0.912 Maximum: 1.592 Mean: 1.528 Standard deviation: 0.177  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.911861409127175 - 1.59187386075225 Format: Numeric

**PROB\_MOD\_SEV: Probability of being moderately or severely food insecure**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: 0 Maximum: 0.962 Mean: 0.087 Standard deviation: 0.249  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.962462257325508 Format: Numeric

**PROB\_SEV: Probability of being severely food insecure**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: 0 Maximum: 0.658 Mean: 0.037 Standard deviation: 0.145  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.657606569168554 Format: Numeric

**AGE: Age of the respondent**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0 Minimum: 15 Maximum: 100 Mean: 32.607 Standard deviation: 9.968  
 Type: Continuous Decimal: 0 Width: 10 Range: 15 - 100 Format: Numeric

**EDUCATION: Education of the respondent**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	52	5.2%
2	Secondary	529	52.7%
3	College	417	41.5%
4	Dont_know	0	0%
5	Refused	6	0.6%
Sysmiss		0	

**AREA: Area**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	934	93%
2	Towns/Rural	64	6.4%
3	Dont_know	2	0.2%
4	Refused	4	0.4%
Sysmiss		0	

**GENDER: Gender of the respondent**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Male	642	63.9%
2	Female	362	36.1%
Sysmiss		0	

**INCOME: Income quintile**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Poorest_20%	190	18.9%
2	Second_20%	222	22.1%
3	Middle_20%	205	20.4%
4	Fourth_20%	196	19.5%
5	Richest_20%	191	19%
Sysmiss		0	

**DEGURBA: Degree of Urbanisation**

Data file: KWT\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1004 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

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## CATEGORIES

<b>Value</b>	<b>Category</b>	<b>Cases</b>	
1	Cities	913	90.9%
2	Not available	52	5.2%
3	Towns and semi-dense areas	36	3.6%
4	Rural areas	3	0.3%
Sysmiss		0	

# study\_resources

## questionnaires

### Food Insecurity Experience Scale: Questionnaire

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title Food Insecurity Experience Scale: Questionnaire  
language English  
description This document contains the 8 FIES questions as they were asked during the survey  
filename FIES\_Questions.pdf

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## technical\_documents

### Computed variables at respondent level

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title Computed variables at respondent level  
language English  
description This document contains the methodology of the derived variables and the computation of the indicator 2.1.2.  
filename Derived\_variables\_and\_Computation\_indicator.pdf

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### Degree of Ubranisation: Harmonized Variable for Cross-country Survey Research

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title Degree of Ubranisation: Harmonized Variable for Cross-country Survey Research  
language English  
filename World\_Poll\_Degree\_of\_Urbanisation.pdf

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