

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

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visit\_data\_catalog\_at: <http://catalog.ihsn.org/>

## Identification

### SURVEY ID NUMBER

CMR\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY

Name	Country code
Cameroon	CMR

### 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 GeoPoll. General information on the methodology can be found here: <https://www.geopoll.com/>. 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.

### KIND OF DATA

Sample survey data [ssd]

### UNIT OF ANALYSIS

Individuals

## Scope

### NOTES

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?

In addition to the FIES questions, socio-demographic information on the respondent/household including gender, age, urban or rural area, region, education, composition of the household was collected.

The survey module was administered to respondents who answered on behalf of themselves (individually-referenced module). The questionnaire was translated into the main languages of each country.

## TOPICS

Topic
SDGs
Food Access

## KEYWORDS

Keyword
Food Insecurity
SDG

## Coverage

## GEOGRAPHIC COVERAGE

National and Admin 1

## 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: NA

Design effect: NA

## WEIGHTING

Post-stratification weights are provided. Population statistics are used to weight the data by gender, age, and, where reliable data are available, education or socioeconomic status.

## data\_collection

## DATES OF DATA COLLECTION

Start	End
2022-08-15	2022-09-15

## DATA COLLECTION MODE

Computer-Assisted Telephone Interviewing [CATI]

## data\_processing

### 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

### ESTIMATES OF SAMPLING ERROR

The margin of error is estimated as NA. 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

Since the population with access to mobile telephones is likely to differ from the rest of the population with respect to their access to food, post-hoc adjustments were made to control for the potential resulting bias. Post-stratification weights were built to adjust the sample distribution by gender and education of the respondent at admin-1 level, to match the same distribution in the total population. However, an additional step was needed to try to ascertain the food insecurity condition of those with access to phones compared to that of the total population.

Using FIES data collected by FAO through the GWP between 2014 and 2019, and a variable on access to mobile telephones that was also in the dataset, it was possible to compare the prevalence of food insecurity at moderate or severe level, and severe level only, of respondents with access to a mobile phone to that of the total population at national level.

## Access policy

### CONTACTS

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

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## Disclaimer and copyrights

### DISCLAIMER

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\_CMV\_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 (CMV\_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>CMR_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.	2000	23



**Data file: CMR\_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: 2000

variables: 23

**variables**

ID	Name	Label	Question
53	Random_ID	Unique respondent identifier	
54	WORRIED	Worried you would not have enough food to eat because of a lack of money or other resources	
55	HEALTHY	Unable to eat healthy and nutritious food because of a lack of money or other resources	
56	FEWFOOD	Ate only a few kinds of foods because of a lack of money or other resources	
57	SKIPPED	Skipped a meal because there was not enough money or other resources to get food	
58	ATELESS	Ate less than you thought you should because of a lack of money or other resources	
59	RUNOUT	Household ran out of food because of a lack of money or other resources	
60	HUNGRY	Hungry but did not eat because there was not enough money or other resources for food?	
61	WHLDAY	Went without eating for a whole day because of a lack of money or other resources?	
62	wt	Post-stratification sampling weights	
63	year	Year when the study was administered in the country	
64	N_adults	Number of adults 15 years of age and above in household	
65	N_child	Number of children under 15 years of age in household	
66	Raw_score	Sum of Affirmative responses to FIES questions	
67	Raw_score_par	Estimated person parameters using the Rasch model	
68	Raw_score_par_error	Estimated person parameter errors using the Rasch model	
69	Prob_Mod_Sev	Probability of being moderately or severely food insecure	
70	Prob_sev	Probability of being severely food insecure	
71	Age	Age of the respondent	
72	Education	Education of the respondent	
73	Area	Area	
74	Gender	Gender of the respondent	
75	Income	Income quintile	

total: 23





**RANDOM\_ID: Unique respondent identifier****Data file:** CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 2000   Invalid: 0  
 Type: Discrete   Width: 12   Range: NA - NA   Format:

**WORRIED: Worried you would not have enough food to eat because of a lack of money or other resources****Data file:** CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1995   Invalid: 5  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	480	24.1%
1	Yes	1515	75.9%
Sysmiss		5	

**HEALTHY: Unable to eat healthy and nutritious food because of a lack of money or other resources****Data file:** CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1990   Invalid: 10  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	675	33.9%
1	Yes	1315	66.1%
Sysmiss		10	

**FEWFOOD: Ate only a few kinds of foods because of a lack of money or other resources****Data file:** CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1987   Invalid: 13  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	636	32%
1	Yes	1351	68%
Sysmiss		13	

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

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

**Overview**

Valid: 1997   Invalid: 3  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	646	32.3%
1	Yes	1351	67.7%
Sysmiss		3	

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

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

**Overview**

Valid: 1987   Invalid: 13  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	558	28.1%

1	Yes	1429	71.9%
Sysmiss		13	

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

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

#### **Overview**

Valid: 1998   Invalid: 2  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	1085	54.3%
1	Yes	913	45.7%
Sysmiss		2	

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

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

#### **Overview**

Valid: 1995   Invalid: 5  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	1077	54%
1	Yes	918	46%
Sysmiss		5	

### **WHLDAY: Went without eating for a whole day because of a lack of money or other resources?**

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

#### **Overview**

Valid: 1999   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	No	1308	65.4%
1	Yes	691	34.6%
Sysmiss		1	

### WT: Post-stratification sampling weights

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

#### Overview

Valid: 2000 Invalid: 0 Minimum: 0.199 Maximum: 7.756 Mean: 1 Standard deviation: 0.855  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.198564669 - 7.755694726 Format: Numeric Weighted: yes

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

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

#### Overview

Valid: 2000 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	2022	2000	100%
Sysmiss		0	

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

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

#### Overview

Valid: 2000 Invalid: 0  
 Type: Discrete Width: 12 Range: 1 - 9 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
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01	01	168	8.4%
02	02	557	27.9%
03	03	413	20.7%
04	04	311	15.6%
05	05	226	11.3%
06	06	106	5.3%
07	07	79	4%
08	08	48	2.4%
09	09	29	1.5%
10	10+	63	3.2%
Sysmiss		0	

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

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

### **Overview**

Valid: 2000    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 9    Format: character

### **Questions and instructions**

#### CATEGORIES

Value	Category	Cases	
00	00	323	16.2%
01	01	238	11.9%
02	02	408	20.4%
03	03	402	20.1%
04	04	288	14.4%
05	05	147	7.4%
06	06	85	4.3%
07	07	48	2.4%
08	08	21	1.1%
09	09	11	0.6%
10	10+	29	1.5%
Sysmiss		0	

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

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

**Overview**

Valid: 1950   Invalid: 50   Minimum: 0   Maximum: 8   Mean: 4.77   Standard deviation: 2.49  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 8   Format: Numeric

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

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

**Overview**

Valid: 1950   Invalid: 50   Minimum: -3.51   Maximum: 3.616   Mean: 0.44   Standard deviation: 2.132  
 Type: Continuous   Decimal: 0   Width: 10   Range: -3.51007371632762 - 3.61622375243473   Format: Numeric

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

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

**Overview**

Valid: 1950   Invalid: 50   Minimum: 0.835   Maximum: 1.569   Mean: 1.113   Standard deviation: 0.285  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0.835437425323605 - 1.56874795559983   Format: Numeric

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

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

**Overview**

Valid: 1950   Invalid: 50   Minimum: 0   Maximum: 0.994   Mean: 0.631   Standard deviation: 0.387  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.993858757111812   Format: Numeric

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

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

**Overview**

Valid: 1950   Invalid: 50   Minimum: 0   Maximum: 0.866   Mean: 0.265   Standard deviation: 0.333  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.86641507043822   Format: Numeric

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**AGE: Age of the respondent**

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

**Overview**

Valid: 2000   Invalid: 0   Minimum: 18   Maximum: 90   Mean: 34.26   Standard deviation: 10.886  
 Type: Continuous   Decimal: 0   Width: 10   Range: 18 - 90   Format: Numeric

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**EDUCATION: Education of the respondent****Data file: CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS****Overview**

Valid: 2000 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 6 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Secondary school	979	49%
2	Tertiary institution	649	32.5%
3	Didn't attend school	70	3.5%
4	Primary/Elementary school	287	14.4%
5	REFUSED	3	0.2%
6	Other [specify]	12	0.6%
Sysmiss		0	

**AREA: Area****Data file: CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS****Overview**

Valid: 2000 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 7 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	A TOWN	805	40.3%
2	THE SUBURBS OF A BIG CITY	228	11.4%
3	A VILLAGE	527	26.4%
4	THE CENTER OF A BIG CITY	409	20.5%
5	DON'T KNOW	5	0.3%
6	A FARM	25	1.3%
7	REFUSED	1	0.1%
Sysmiss		0	



**GENDER: Gender of the respondent****Data file: CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS****Overview**

Valid: 2000    Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Male	1320	66%
2	Female	680	34%
Sysmiss		0	

**INCOME: Income quintile****Data file: CMR\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS****Overview**

Valid: 2000    Invalid: 0

Type: Discrete    Decimal: 0    Width: 12    Range: 1 - 6    Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Between 61000 and 310000 FCFA	869	43.5%
2	Less than 61000 FCFA	686	34.3%
3	DON'T KNOW	205	10.3%
4	Above 620000 FCFA	58	2.9%
5	REFUSED	51	2.6%
6	Between 310001 and 620000 FCFA	131	6.6%
Sysmiss		0	

# study\_resources

## questionnaires

### Food Insecurity Experience Scale: Questionnaire

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title Food Insecurity Experience Scale: Questionnaire  
country Cameroon  
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  
country Cameroon  
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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