

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

report\_generated\_on: September 22, 2023

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

## Identification

### SURVEY ID NUMBER

GNB\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Guinea-Bissau	GNB

### 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
2022-07-15	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>

### CONFIDENTIALITY

The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO.

### ACCESS CONDITIONS

Micro datasets disseminated by FAO shall only be allowed for research and statistical purposes. Any user which requests access working for a commercial company will not be granted access to any micro dataset regardless of their specified purpose. Users requesting access to any datasets must agree to the following minimal conditions:

- The micro dataset will only be used for statistical and/or research purposes;
- Any results derived from the micro dataset will be used solely for reporting aggregated information, and not for any specific individual entities or data subjects;
- The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO;
- The micro dataset cannot be re-disseminated by users or shared with anyone other than the individuals that are granted access to the micro dataset by FAO.

## 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

---

### DDI DOCUMENT ID

DDI\_GNB\_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 (GNB\_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>GNB_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.	1800	23



**Data file: GNB\_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: 1800

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:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1800   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:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	466	25.9%
1	Yes	1333	74.1%
Sysmiss		1	

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

Valid: 1798   Invalid: 2  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	293	16.3%
1	Yes	1505	83.7%
Sysmiss		2	

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

**Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	336	18.7%
1	Yes	1463	81.3%
Sysmiss		1	

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

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

**Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	727	40.4%
1	Yes	1072	59.6%
Sysmiss		1	

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

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

**Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	391	21.7%

1	Yes	1408	78.3%
Sysmiss		1	

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

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

#### **Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	977	54.3%
1	Yes	822	45.7%
Sysmiss		1	

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

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

#### **Overview**

Valid: 1800   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	729	40.5%
1	Yes	1071	59.5%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1799   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	No	1279	71.1%
1	Yes	520	28.9%
Sysmiss		1	

### WT: Post-stratification sampling weights

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

#### Overview

Valid: 1800 Invalid: 0 Minimum: 0.544 Maximum: 1.635 Mean: 1 Standard deviation: 0.375  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.543988 - 1.634675 Format: Numeric Weighted: yes

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

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

#### Overview

Valid: 1800 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	2022	1800	100%
Sysmiss		0	

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

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

#### Overview

Valid: 1800 Invalid: 0  
 Type: Discrete Width: 12 Range: 0 - 9 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
-------	----------	-------	--

00	00	8	0.4%
01	01	23	1.3%
02	02	124	6.9%
03	03	181	10.1%
04	04	247	13.7%
05	05	252	14%
06	06	180	10%
07	07	183	10.2%
08	08	143	7.9%
09	09	94	5.2%
10	10+	365	20.3%
Sysmiss		0	

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

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

### Overview

Valid: 1800   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 9   Format: character

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
00	00	65	3.6%
01	01	146	8.1%
02	02	212	11.8%
03	03	331	18.4%
04	04	308	17.1%
05	05	242	13.4%
06	06	180	10%
07	07	103	5.7%
08	08	79	4.4%
09	09	24	1.3%
10	10+	110	6.1%
Sysmiss		0	

**RAW\_SCORE: Sum of Affirmative responses to FIES questions****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1793   Invalid: 7   Minimum: 0   Maximum: 8   Mean: 5.112   Standard deviation: 2.476  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 8   Format: Numeric

---

**RAW\_SCORE\_PAR: Estimated person parameters using the Rasch model****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1793   Invalid: 7   Minimum: -1.946   Maximum: 2.89   Mean: 0.889   Standard deviation: 1.476  
 Type: Continuous   Decimal: 0   Width: 10   Range: -1.94558752928959 - 2.8899989159151   Format: Numeric

---

**RAW\_SCORE\_PAR\_ERROR: Estimated person parameter errors using the Rasch model****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1793   Invalid: 7   Minimum: 0.534   Maximum: 0.929   Mean: 0.707   Standard deviation: 0.156  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0.533862922183578 - 0.928765529570628   Format: Numeric

---

**PROB\_MOD\_SEV: Probability of being moderately or severely food insecure****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1793   Invalid: 7   Minimum: 0   Maximum: 1   Mean: 0.771   Standard deviation: 0.351  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.999716964063065   Format: Numeric

---

**PROB\_SEV: Probability of being severely food insecure****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1793   Invalid: 7   Minimum: 0   Maximum: 0.863   Mean: 0.281   Standard deviation: 0.343  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.862642989508413   Format: Numeric

---

**AGE: Age of the respondent****Data file:** GNB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1800   Invalid: 0   Minimum: 18   Maximum: 83   Mean: 34.376   Standard deviation: 11.371  
 Type: Continuous   Decimal: 0   Width: 10   Range: 18 - 83   Format: Numeric

---

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

Valid: 1800 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Tertiary institution	311	17.3%
2	Secondary school	829	46.1%
3	Didn't attend school	174	9.7%
4	Primary/Elementary school	424	23.6%
5	Other [specify]	56	3.1%
6	DON'T KNOW	6	0.3%
Sysmiss		0	

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

Valid: 1800 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	A VILLAGE	451	25.1%
2	THE CENTER OF A BIG CITY	676	37.6%
3	THE SUBURBS OF A BIG CITY	306	17%
4	A TOWN	307	17.1%
5	A FARM	60	3.3%
Sysmiss		0	

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

**Overview**

Valid: 1800 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Male	900	50%
2	Female	900	50%
Sysmiss		0	

**INCOME: Income quintile**

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

**Overview**

Valid: 1800 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Between 60000 XOF and 300000 XOF per month	706	39.2%
2	DON'T KNOW	399	22.2%
3	Less than 60000 XOF per month	631	35.1%
4	Between 300001 XOF and 600000 XOF per month	43	2.4%
5	Above 600000 XOF per month	12	0.7%
6	REFUSED	9	0.5%
Sysmiss		0	

# study\_resources

## questionnaires

### Food Insecurity Experience Scale: Questionnaire

---

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

---

## technical\_documents

### Computed variables at respondent level

---

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

---