

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

report\_generated\_on: September 26, 2023

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

## Identification

### SURVEY ID NUMBER

ZMB\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Zambia	ZMB

### 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 Kantar. General information on the methodology can be found here: <https://www.kantar.com/about>. 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

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 and admin 1

## UNIVERSE

Individuals of 15 years or older.

## Producers and sponsors

## PRIMARY INVESTIGATORS

Name	Affiliation
FAO Statistics Division	FAO

## Sampling

## SAMPLING PROCEDURE

The adopted sample design for the study was a multi-stage clustered sample stratified by region and urbanity.

Exclusions: NA

Design effect: NA

## 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
2022-07-28	2022-08-29

## DATA COLLECTION MODE

Computer-Assisted Personal Interviewing (CAPI)

## 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 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.

## Access policy

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### CONTACTS

Name	Affiliation	Email	URL
FAO Statistics Division	FAO	Carlo.Caferio@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\_ZMB\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### PRODUCERS

Name	Abbreviation	Affiliation	Role
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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 (ZMB\_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>ZMB_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.	2179	23



**Data file: ZMB\_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: 2179

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: ZMB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 2179 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: ZMB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 2178 Invalid: 1  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	407	18.7%
1	Yes	1771	81.3%
Sysmiss		1	

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

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

**Overview**

Valid: 2173 Invalid: 6  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	640	29.5%
1	Yes	1533	70.5%
Sysmiss		6	

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

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

**Overview**

Valid: 2175 Invalid: 4  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	503	23.1%
1	Yes	1672	76.9%
Sysmiss		4	

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

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

**Overview**

Valid: 2175 Invalid: 4  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	683	31.4%
1	Yes	1492	68.6%
Sysmiss		4	

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

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

**Overview**

Valid: 2176 Invalid: 3  
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	588	27%

1	Yes	1588	73%
Sysmiss		3	

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

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

#### **Overview**

Valid: 2176 Invalid: 3  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	1254	57.6%
1	Yes	922	42.4%
Sysmiss		3	

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

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

#### **Overview**

Valid: 2172 Invalid: 7  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	1097	50.5%
1	Yes	1075	49.5%
Sysmiss		7	

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

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

#### **Overview**

Valid: 2173 Invalid: 6  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	No	1583	72.8%
1	Yes	590	27.2%
Sysmiss		6	

### WT: Post-stratification sampling weights

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

#### Overview

Valid: 2179 Invalid: 0 Minimum: 0.319 Maximum: 7.133 Mean: 0.999 Standard deviation: 0.969  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.319403669724771 - 7.133333333333333 Format: Numeric  
 Weighted: yes

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

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

#### Overview

Valid: 2179 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	2022	2179	100%
Sysmiss		0	

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

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

#### Overview

Valid: 2179 Invalid: 0  
 Type: Discrete Width: 12 Range: 0 - 9 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
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00	00	10	0.5%
01	01	211	9.7%
02	02	855	39.2%
03	03	563	25.8%
04	04	282	12.9%
05	05	152	7%
06	06	59	2.7%
07	07	24	1.1%
08	08	17	0.8%
09	09	1	0%
10	10+	5	0.2%
Sysmiss		0	

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

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

#### **Overview**

Valid: 2179 Invalid: 0  
Type: Discrete Width: 12 Range: 0 - 9 Format: character

#### **Questions and instructions**

#### CATEGORIES

Value	Category	Cases	
00	00	334	15.3%
01	01	360	16.5%
02	02	514	23.6%
03	03	485	22.3%
04	04	272	12.5%
05	05	123	5.6%
06	06	53	2.4%
07	07	23	1.1%
08	08	12	0.6%
09	09	3	0.1%
Sysmiss		0	

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

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

**Overview**

Valid: 2153 Invalid: 26 Minimum: 0 Maximum: 8 Mean: 4.903 Standard deviation: 2.509  
 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: ZMB\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 2153 Invalid: 26 Minimum: -2.517 Maximum: 2.944 Mean: 0.521 Standard deviation: 1.678  
 Type: Continuous Decimal: 0 Width: 10 Range: -2.51735465304425 - 2.94432940366347 Format: Numeric

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

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

**Overview**

Valid: 2153 Invalid: 26 Minimum: 0.603 Maximum: 1.087 Mean: 0.811 Standard deviation: 0.192  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.60292499280305 - 1.08678213267702 Format: Numeric

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

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

**Overview**

Valid: 2153 Invalid: 26 Minimum: 0 Maximum: 0.999 Mean: 0.677 Standard deviation: 0.38  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.998632804405903 Format: Numeric

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

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

**Overview**

Valid: 2153 Invalid: 26 Minimum: 0 Maximum: 0.837 Mean: 0.237 Standard deviation: 0.327  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.837306589960943 Format: Numeric

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**AGE: Age of the respondent**

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

**Overview**

Valid: 2179 Invalid: 0 Minimum: 18 Maximum: 93 Mean: 33.619 Standard deviation: 12.265  
 Type: Continuous Decimal: 0 Width: 10 Range: 18 - 93 Format: Numeric

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**EDUCATION: Education of the respondent**

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

**Overview**

Valid: 2179 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Primary/Elementary	870	39.9%
2	Secondary	767	35.2%
3	Tertiary	315	14.5%
4	Didn't attend school	222	10.2%
5	Refused	5	0.2%
Systemiss		0	

**AREA: Area**

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

**Overview**

Valid: 2179 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	A village	1462	67.1%
2	A town	485	22.3%
3	The suburbs of a big city	157	7.2%
4	The center of a big city	75	3.4%
Systemiss		0	

**GENDER: Gender of the respondent**

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

**Overview**

Valid: 2179 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

## Questions and instructions

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### CATEGORIES

Value	Category	Cases	
1	Male	1066	48.9%
2	Female	1113	51.1%
Sysmiss		0	

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## INCOME: Income quintile

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

### Overview

Valid: 2179 Invalid: 0

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

## Questions and instructions

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### CATEGORIES

Value	Category	Cases	
1	Between K1552 and K7760 per month	592	27.2%
2	Between K7760 and K15,520 per month	85	3.9%
3	Don't know	193	8.9%
4	Less than or about K1552 per month	1281	58.8%
5	Refused	14	0.6%
6	Above 15,520 per month	14	0.6%
Sysmiss		0	

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# 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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