

# 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

IRN\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Iran, Islamic Rep.	IRN

### 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: NA

Design effect: 1.45

#### 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
2022-10-03	2022-10-11

#### 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 3.7. 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 FEWFOOD 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\_IRN\_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 (IRN\_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>IRN_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.	1007	23



**Data file: IRN\_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: 1007

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	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	WHLDAY	Went without eating for a whole day because of a lack of money or other resources?	
61	wt	Post-stratification sampling weights	
62	year	Year when the study was administered in the country	
63	N_adults	Number of adults 15 years of age and above in household	
64	N_child	Number of children under 15 years of age in household	
65	Raw_score	Sum of Affirmative responses to FIES questions	
66	Raw_score_par	Estimated person parameters using the Rasch model	
67	Raw_score_par_error	Estimated person parameter errors using the Rasch model	
68	Prob_Mod_Sev	Probability of being moderately or severely food insecure	
69	Prob_sev	Probability of being severely food insecure	
70	Age	Age of the respondent	
71	Education	Education of the respondent	
72	Area	Area	
73	Gender	Gender of the respondent	
74	Income	Income quintile	
75	DEGURBA	Degree of Urbanisation	

total: 23





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

Valid: 1007    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:** IRN\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1007    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	659	65.4%
1	Yes	348	34.6%
Sysmiss		0	

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

Valid: 1007    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	636	63.2%
1	Yes	371	36.8%
Sysmiss		0	

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

**food****Data file:** IRN\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1006    Invalid: 1  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	669	66.5%
1	Yes	337	33.5%
Sysmiss		1	

**ATELESS: Ate less than you thought you should because of a lack of money or other resources****Data file:** IRN\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1007    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	618	61.4%
1	Yes	389	38.6%
Sysmiss		0	

**RUNOUT: Household ran out of food because of a lack of money or other resources****Data file:** IRN\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1007    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
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0	No	581	57.7%
1	Yes	426	42.3%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1004    Invalid: 3  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	832	82.9%
1	Yes	172	17.1%
Sysmiss		3	

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

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

#### **Overview**

Valid: 1007    Invalid: 0  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	950	94.3%
1	Yes	57	5.7%
Sysmiss		0	

### **WT: Post-stratification sampling weights**

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

## Overview

Valid: 1007 Invalid: 0 Minimum: 0.266 Maximum: 3.58 Mean: 1 Standard deviation: 0.671  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.265860271971141 - 3.58027782405728 Format: Numeric  
 Weighted: yes

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

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

### Overview

Valid: 1007 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	2022	1007	100%
Sysmiss		0	

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

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

### Overview

Valid: 1007 Invalid: 0  
 Type: Discrete Width: 12 Range: 1 - 9 Format: character

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
01	01	56	5.6%
02	02	335	33.3%
03	03	304	30.2%
04	04	212	21.1%
05	05	78	7.7%
06	06	13	1.3%
07	07	6	0.6%
08	08	1	0.1%
09	09	2	0.2%
Sysmiss		0	

**N\_CHILD: Number of children under 15 years of age in household****Data file:** IRN\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1003    Invalid: 4  
 Type: Discrete    Width: 12    Range: 0 - 8    Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
00	00	536	53.4%
01	01	271	27%
02	02	160	16%
03	03	29	2.9%
04	04	5	0.5%
05	05	1	0.1%
08	08	1	0.1%
Sysmiss		4	

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

Valid: 1007    Invalid: 0    Minimum: 0    Maximum: 7    Mean: 2.085    Standard deviation: 2.264  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 7    Format: Numeric

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

Valid: 1007    Invalid: 0    Minimum: -1.697    Maximum: 2.277    Mean: -0.618    Standard deviation: 1.215  
 Type: Continuous    Decimal: 0    Width: 10    Range: -1.69712510740393 - 2.27697592203914    Format: Numeric

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

Valid: 1007    Invalid: 0    Minimum: 0.501    Maximum: 0.861    Mean: 0.714    Standard deviation: 0.147  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0.500627620873986 - 0.860998870120163    Format: Numeric

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

Valid: 1007   Invalid: 0   Minimum: 0   Maximum: 0.999   Mean: 0.358   Standard deviation: 0.41  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.998679551771228   Format: Numeric

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

Valid: 1007   Invalid: 0   Minimum: 0   Maximum: 0.679   Mean: 0.058   Standard deviation: 0.16  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.67948167613741   Format: Numeric

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

Valid: 1007   Invalid: 0   Minimum: 15   Maximum: 90   Mean: 43.369   Standard deviation: 16.654  
 Type: Continuous   Decimal: 0   Width: 10   Range: 15 - 90   Format: Numeric

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

Valid: 1007   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 5   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	222	22%
2	Secondary	501	49.8%
3	College	281	27.9%
4	Dont_know	1	0.1%
5	Refused	2	0.2%
Sysmiss		0	

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

Valid: 1007 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	618	61.4%
2	Towns/Rural	389	38.6%
3	Dont_know	0	0%
4	Refused	0	0%
Sysmiss		0	

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

Valid: 1007 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Male	474	47.1%
2	Female	533	52.9%
Sysmiss		0	

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

Valid: 1007 Invalid: 0

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

**Questions and instructions**

## CATEGORIES



Value	Category	Cases	
1	Poorest_20%	156	15.5%
2	Second_20%	179	17.8%
3	Middle_20%	211	21%
4	Fourth_20%	220	21.8%
5	Richest_20%	241	23.9%
Sysmiss		0	

## DEGURBA: Degree of Urbanisation

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

### Overview

Valid: 1007 Invalid: 0

Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Towns and semi-dense areas	329	32.7%
2	Cities	485	48.2%
3	Rural areas	193	19.2%
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 Urbanisation: Harmonized Variable for Cross-country Survey Research

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

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