Food Insecurity Experience Scale 2022

FAO Statistics Division

report_generated_on: September 25, 2023

visit_data_catalog_at:

Identification

SURVEY ID NUMBER
IRN_2022_FIES_v01_M_v01_A_OCS

TITLE
Food Insecurity Experience Scale 2022

COUNTRY

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

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 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

CONTACTS

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FAO Statistics Division	FAO	Carlo.Cafiero@fao.org	[Link](#)

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Metadata production

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.

Name	Abbreviation	Affiliation	Role

data_dictionary

Data file	Cases	variables
IRN_2022_FIES_v01_EN_M_v01_A_OCS This dataset contains the variables used to calculate the FIES-based indicator, deomographic variables and some derived variables calculated by FAO from the survey.	1007	23

Data file	Cases	variables
IRN_2022_FIES_v01_EN_M_v01_A_OCS		

Data file: IRN_2022_FIES_v01_EN_M_v01_A_OCS

This dataset contains the variables used to calculate the FIES-based indicator, deomographic 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	

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

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

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

title	Degree of Ubranisation: Harmonized Variable for Cross-country Survey Research
language	English
filename	World_Poll_Degree_of_Urbanisation.pdf