Food Insecurity Experience Scale 2024

Food and Agriculture Organization of the United Nations

report_generated_on: July 31, 2025

visit_data_catalog_at: https://microdata.worldbank.org/index.php

Identification

SURVEY ID NUMBER
CHE_2024_FIES_v01_M_v01_A_ESS

TITLE
Food Insecurity Experience Scale 2024

ABBREVIATION OR ACRONYM
FIES 2024

COUNTRY/ECONOMY

Name	Country code
Switzerland	CHE

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 https://www.fao.org/measuring-hunger/en.

The FIES-based indicators are compiled using the FIES survey module, containing eight 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 downloads 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
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? (labelled as WORRIED)
2. You were unable to eat healthy and nutritious food? (labelled as HEALTHY)
3. You ate only a few kinds of foods? (labelled as FEWFOOD)
4. You had to skip a meal? (labelled as SKIPPED)
5. You ate less than you thought you should? (labelled as ATELESS)
6. Your household ran out of food? (labelled as RUNOUT)
7. You were hungry but did not eat? (labelled as HUNGRY)
8. You went without eating for a whole day? (labelled as WHLDAY)

Each of these questions has the following response options:
- Yes (coded as 1)
- No (coded as 0)
- Don't know / Refuse to answer (coded as NA)

The dataset includes derived FIES variables computed by FAO described in the documentation. It also contains demographic variables related to the number of adults and children in the household, age, education, area (urban/rural), gender, income and degree of urbanization.

TOPICS

Topic
SDGs
Food Access

KEYWORDS

Keyword
Food Insecurity Experience Scale
FIES
Sustainable Development Goals
SDG
Zero Hunger
End Hunger
SDG Indicator 2.1.2

Coverage

GEOGRAPHIC COVERAGE
National

UNIVERSE
Non-institutionalized adult population (15 years of age or older) living in households with access to landline and/or mobile phones.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Food and Agriculture Organization of the United Nations	United Nations

Sampling

SAMPLING PROCEDURE
With some exceptions, all samples are probability based and nationally representative of the resident adult population. The coverage area is the entire country including rural areas, and the sampling frame represents the entire civilian, non-institutionalized, aged 15 and older population.
For more details on the overall sampling and data collection methodology, see the World poll methodology attached as a resource in the downloads tab. Specific sampling details for each country are also attached as technical documents in the downloads tab.
Exclusions: NA

Design effect: 1.48

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
2024-08-26	2024-09-27

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.

METHODOLOGY NOTES

As part of the statistical disclosure control process, values for number of children and number of adults that were 10 or above, were recoded as "10+" and categories for area were combined into "urban/suburbs" and "towns/rural".

data_appraisal

ESTIMATES OF SAMPLING ERROR

The margin of error is estimated as 3.8 percentage points. By adding and subtracting this value to the result, the confidence interval at 95% level is obtained. The margin of error was calculated assuming a reported outcome of 50% (giving the maximum sampling variability for that sample size) and takes into account the design effect.

Access policy

CONTACTS

Name	Affiliation	Email	URL
Food and Agriculture Organization of the United Nations, Statistics Division	Food and Agriculture Organization of the United Nations	Carlo.Cafiero@fao.org, FIES-help@fao.org	Link

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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.

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- 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.

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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_CHE_2024_FIES_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata producer and Metadata adapted for FAM
Development Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

DDI DOCUMENT VERSION
Identical to a metadata (CHE_2024_FIES_v01_M_v01_A_ESS) published on FAO microdata repository (https://microdata.fao.org/index.php/catalog). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
CHE_2024_FIES_v01_M_v01_A_ESS This dataset contains the variables used to calculate the FIES-based indicator, demographic variables and some derived variables calculated by FAO from the survey.	1000	24

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

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:	1000
variables:	24

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 GWP 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	
76	DEGURBA	Degree of Urbanisation	

total: 24

RANDOM_ID: Unique respondent identifier

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 111122284 Maximum: 211086437 Mean: 158620869.91 Standard deviation: 28689298.698
Type: Continuous Decimal: 0 Width: 10 Range: 111122284 - 211086437 Format: Numeric

WORRIED: Worried you would not have enough food to eat because of a lack of money or other resources

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	971	97.1%
1	Yes	29	2.9%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	971	97.1%
1	Yes	29	2.9%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	972	97.2%
1	Yes	28	2.8%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	976	97.6%
1	Yes	24	2.4%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	979	97.9%
1	Yes	21	2.1%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	980	98%
1	Yes	20	2%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	978	97.8%
1	Yes	22	2.2%
Sysmiss		0	

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

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	987	98.7%
1	Yes	13	1.3%
Sysmiss		0	

WT: Post-stratification sampling weights

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 0.311 Maximum: 2.711 Mean: 1 Standard deviation: 0.694
Type: Continuous Decimal: 0 Width: 10 Range: 0.310734460887105 - 2.71118318030795 Format: Numeric
Weighted: yes

YEAR: Year when the GWP was administered in the country

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 2024 Maximum: 2024 Mean: 2024 Standard deviation: 0
Type: Continuous Decimal: 0 Width: 10 Range: 2024 - 2024 Format: Numeric

N_ADULTS: Number of adults 15 years of age and above in household

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 1 - 6 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
01	01	291	29.1%
02	02	493	49.3%
03	03	121	12.1%

04	04	65	6.5%
05	05	27	2.7%
06	06	3	0.3%
Sysmiss		0	

N_CHILD: Number of children under 15 years of age in household

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 5 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
00	00	864	86.4%
01	01	71	7.1%
02	02	41	4.1%
03	03	16	1.6%
04	04	7	0.7%
05	05	1	0.1%
Sysmiss		0	

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 8 Mean: 0.186 Standard deviation: 0.707
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: -9.153 Maximum: 8.935 Mean: -8.7 Standard deviation: 1.655
Type: Continuous Decimal: 0 Width: 10 Range: -9.15325150375132 - 8.93504136820095 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 2.337 Maximum: 4.769 Mean: 4.603 Standard deviation: 0.497
Type: Continuous Decimal: 0 Width: 10 Range: 2.33663269964152 - 4.76893483589937 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 0.974 Mean: 0.014 Standard deviation: 0.081
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.973747755754149 Format: Numeric

PROB_SEV: Probability of being severely food insecure

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 0.931 Mean: 0.006 Standard deviation: 0.06
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.93060484794253 Format: Numeric

AGE: Age of the respondent

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0 Minimum: 15 Maximum: 100 Mean: 53.168 Standard deviation: 16.226
Type: Continuous Decimal: 0 Width: 10 Range: 15 - 100 Format: Numeric

EDUCATION: Education of the respondent

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 984 Invalid: 16
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	118	12%
2	Secondary	284	28.9%
3	College	582	59.1%

Sysmiss		16	

AREA: Area

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	227	22.7%
2	Towns/Rural	772	77.2%
4	Refused	1	0.1%
Sysmiss		0	

GENDER: Gender of the respondent

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	491	49.1%
2	Female	509	50.9%
Sysmiss		0	

INCOME: Income quintile

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Poorest_20%	163	16.3%
2	Second_20%	166	16.6%
3	Middle_20%	206	20.6%
4	Fourth_20%	207	20.7%
5	Richest_20%	258	25.8%
Sysmiss		0	

DEGURBA: Degree of Urbanisation

Data file: CHE_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1000 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Rural areas	218	21.8%
2	Towns and semi-dense areas	506	50.6%
3	Cities	276	27.6%
Sysmiss		0	

study_resources

questionnaires

FIES questions

title	FIES questions
description	This document contains the 8 FIES questions as they were asked during the survey.
filename	FIES_Questions.pdf

technical_documents

Derived variables and methodology to compute indicator 2.1.2

title	Derived variables and methodology to compute indicator 2.1.2
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 Urbanisation Variable

title	Degree of Urbanisation Variable
description	This document contains an explanation on the degree of urbanisation from Gallup, an harmonized variable for cross-country survey research.
filename	World_Poll_Degree_of_Urbanisation_2024_FAO.pdf

World Poll Methodology

title	World Poll Methodology
description	This document contains the description of the methodology used for the survey.
filename	Gallup_World_Poll_Methodology.pdf

Technical Methodology

title	Technical Methodology
country	Switzerland
filename	Switzerland_2024_Methodology.pdf