Food Insecurity Experience Scale 2024

Food and Agriculture Organization of the United Nations

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Identification

SURVEY ID NUMBER
MMR_2024_FIES_v01_M_v01_A_ESS

TITLE
Food Insecurity Experience Scale 2024

ABBREVIATION OR ACRONYM
FIES 2024

COUNTRY/ECONOMY

Name	Country code
Myanmar	MMR

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: 2.1

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
2024-09-20	2024-10-11

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.

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 4.5 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 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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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_MMR_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 (KOR_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
MMR_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.	1005	24

Data file: MMR_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:	1005
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: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0 Minimum: 111138283 Maximum: 210955300 Mean: 161977556.944 Standard deviation: 28700753.318
Type: Continuous Decimal: 0 Width: 10 Range: 111138283 - 210955300 Format: Numeric

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	471	46.9%
1	Yes	533	53.1%
Sysmiss		1	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	653	65%
1	Yes	352	35%
Sysmiss		0	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	577	57.5%
1	Yes	427	42.5%
Sysmiss		1	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	803	79.9%
1	Yes	202	20.1%
Sysmiss		0	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	580	57.7%
1	Yes	425	42.3%
Sysmiss		0	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	788	78.4%
1	Yes	217	21.6%
Sysmiss		0	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1003 Invalid: 2
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	712	71%
1	Yes	291	29%
Sysmiss		2	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	913	90.9%
1	Yes	91	9.1%
Sysmiss		1	

WT: Post-stratification sampling weights

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0 Minimum: 0.222 Maximum: 3.996 Mean: 1 Standard deviation: 1.047
Type: Continuous Decimal: 0 Width: 10 Range: 0.221987390551221 - 3.99577302992198 Format: Numeric
Weighted: yes

YEAR: Year when the GWP was administered in the country

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 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: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 1 - 8 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
01	01	341	33.9%
02	02	254	25.3%
03	03	169	16.8%

04	04	121	12%
05	05	87	8.7%
06	06	23	2.3%
07	07	8	0.8%
08	08	1	0.1%
10	10+	1	0.1%
Sysmiss		0	

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

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 7 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
00	00	487	48.5%
01	01	287	28.6%
02	02	165	16.4%
03	03	47	4.7%
04	04	15	1.5%
06	06	2	0.2%
07	07	1	0.1%
10	10+	1	0.1%
Sysmiss		0	

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1001 Invalid: 4 Minimum: 0 Maximum: 8 Mean: 2.532 Standard deviation: 2.505
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1001 Invalid: 4 Minimum: -3.046 Maximum: 2.696 Mean: -1.316 Standard deviation: 1.712
Type: Continuous Decimal: 0 Width: 10 Range: -3.04636393692143 - 2.69552806329902 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1001 Invalid: 4 Minimum: 0.674 Maximum: 1.22 Mean: 0.938 Standard deviation: 0.224
Type: Continuous Decimal: 0 Width: 10 Range: 0.673789685206121 - 1.21957037090615 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1001 Invalid: 4 Minimum: 0 Maximum: 0.993 Mean: 0.286 Standard deviation: 0.378
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.993166359784158 Format: Numeric

PROB_SEV: Probability of being severely food insecure

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1001 Invalid: 4 Minimum: 0 Maximum: 0.749 Mean: 0.065 Standard deviation: 0.18
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.749323363207366 Format: Numeric

AGE: Age of the respondent

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0 Minimum: 15 Maximum: 82 Mean: 32.68 Standard deviation: 12.718
Type: Continuous Decimal: 0 Width: 10 Range: 15 - 82 Format: Numeric

EDUCATION: Education of the respondent

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	315	31.3%
2	Secondary	553	55%
3	College	137	13.6%
Sysmiss		0	

AREA: Area

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1004 Invalid: 1
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	426	42.4%
2	Towns/Rural	578	57.6%
Sysmiss		1	

GENDER: Gender of the respondent

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	483	48.1%
2	Female	522	51.9%
Sysmiss		0	

INCOME: Income quintile

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Poorest_20%	137	13.6%
2	Second_20%	145	14.4%
3	Middle_20%	155	15.4%
4	Fourth_20%	243	24.2%
5	Richest_20%	325	32.3%
Sysmiss		0	

DEGURBA: Degree of Urbanisation

Data file: MMR_2024_FIES_v01_M_v01_A_ESS

Overview

Valid: 1005 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Rural areas	176	17.5%
2	Towns and semi-dense areas	410	40.8%
3	Cities	334	33.2%
4	Not available	85	8.5%
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
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	Myanmar
filename	Myanmar_2024_Methodology.pdf