Food Insecurity Experience Scale 2022

FAO Statistics Division

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Identification

SURVEY ID NUMBER
MLT_2022_FIES_v01_M_v01_A_OCS

TITLE
Food Insecurity Experience Scale 2022

COUNTRY

Name	Country code
Malta	MLT

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: 1.37

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
2022-05-22	2022-07-25

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 3.6. 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

CONTACTS

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Metadata production

DDI DOCUMENT ID

DDI_MLT_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 (MLT_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
MLT_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.	1002	24

Data file: MLT_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:	1002
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 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	
76	DEGURBA	Degree of Urbanisation	

total: 24

RANDOM_ID: Unique respondent identifier

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 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: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	884	88.2%
1	Yes	118	11.8%
Sysmiss		0	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1001 Invalid: 1
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	902	90.1%
1	Yes	99	9.9%
Sysmiss		1	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	873	87.3%
1	Yes	127	12.7%
Sysmiss		2	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1001 Invalid: 1
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	940	93.9%
1	Yes	61	6.1%
Sysmiss		1	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 999 Invalid: 3
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	918	91.9%

1	Yes	81	8.1%
Sysmiss		3	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 999 Invalid: 3
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	949	95%
1	Yes	50	5%
Sysmiss		3	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	963	96.1%
1	Yes	39	3.9%
Sysmiss		0	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	985	98.3%
1	Yes	17	1.7%
Sysmiss		0	

WT: Post-stratification sampling weights

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 0.29 Maximum: 2.454 Mean: 1 Standard deviation: 0.604
Type: Continuous Decimal: 0 Width: 10 Range: 0.289731901093344 - 2.45370083569933 Format: Numeric
Weighted: yes

YEAR: Year when the study was administered in the country

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	2022	1002	100%
Sysmiss		0	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1001 Invalid: 1
Type: Discrete Width: 12 Range: 1 - 8 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	

01	01	178	17.8%
02	02	418	41.8%
03	03	214	21.4%
04	04	146	14.6%
05	05	35	3.5%
06	06	5	0.5%
08	08	1	0.1%
10	10+	4	0.4%
Sysmiss		1	

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

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1001 Invalid: 1
Type: Discrete Width: 12 Range: 0 - 5 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
00	00	725	72.4%
01	01	164	16.4%
02	02	93	9.3%
03	03	14	1.4%
04	04	4	0.4%
05	05	1	0.1%
Sysmiss		1	

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 0 Maximum: 8 Mean: 0.591 Standard deviation: 1.495
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: -2.566 Maximum: 2.786 Mean: -2.184 Standard deviation: 0.96
Type: Continuous Decimal: 0 Width: 10 Range: -2.5663199390548 - 2.78581036158717 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 0.643 Maximum: 1.173 Mean: 1.093 Standard deviation: 0.165
Type: Continuous Decimal: 0 Width: 10 Range: 0.643489603578526 - 1.17300682331942 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 0 Maximum: 0.996 Mean: 0.073 Standard deviation: 0.224
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.995863785080951 Format: Numeric

PROB_SEV: Probability of being severely food insecure

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 0 Maximum: 0.781 Mean: 0.014 Standard deviation: 0.085
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.781130985267899 Format: Numeric

AGE: Age of the respondent

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0 Minimum: 15 Maximum: 89 Mean: 49.062 Standard deviation: 17.724
Type: Continuous Decimal: 0 Width: 10 Range: 15 - 89 Format: Numeric

EDUCATION: Education of the respondent

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	82	8.2%
2	Secondary	520	51.9%
3	College	398	39.7%
4	Dont_know	2	0.2%
5	Refused	0	0%
Sysmiss		0	

AREA: Area

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	416	41.5%
2	Towns/Rural	568	56.7%
3	Dont_know	15	1.5%
4	Refused	3	0.3%
Sysmiss		0	

GENDER: Gender of the respondent

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	458	45.7%
2	Female	544	54.3%
Sysmiss		0	

INCOME: Income quintile

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Poorest_20%	165	16.5%
2	Second_20%	193	19.3%
3	Middle_20%	216	21.6%
4	Fourth_20%	207	20.7%
5	Richest_20%	221	22.1%
Sysmiss		0	

DEGURBA: Degree of Urbanisation

Data file: MLT_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1002 Invalid: 0
Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Cities	435	43.4%
2	Towns and semi-dense areas	531	53%
3	Rural areas	34	3.4%
4	Not available	2	0.2%
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