Food Insecurity Experience Scale 2020

FAO Statistics Division

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

Identification

SURVEY ID NUMBER
SOM_2020_FIES_v01_M_v01_A_OCS

TITLE
Food Insecurity Experience Scale 2020

COUNTRY/ECONOMY

Name	Country code
Somalia	SOM

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 GeoPoll. 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
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?

In addition to the FIES questions, socio-demographic information on the respondent/household including gender, age, urban or rural area, region, education, composition of the household was collected.

The survey module was administered to respondents who answered on behalf of themselves (individually-referenced module). The questionnaire was translated into the main languages of each country.

TOPICS

Topic
SDGs
Food Access

KEYWORDS

Keyword
Food Insecurity
SDG

Coverage

GEOGRAPHIC COVERAGE
National coverage

UNIVERSE
Individuals of 15 years or older.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
FAO Statistics Division	FAO

Sampling

SAMPLING PROCEDURE
A Random Digit Dialling (RDD) approach was used to form a random sample of telephone numbers. Stratified phone numbers made available from telephone service providers or administrative registers were also used to integrate RDD when needed. Socio-demographic characteristics collected in the survey were then compared with the available information from recent national surveys to verify the extent to which the sample mirrored the total population structure. In case of discrepancies, post-stratification sampling weights were computed to adjust for the under-represented populations, typically using sex and education level.
Exclusions: None
Design effect: NA

WEIGHTING
Post-stratification weights are provided. Population statistics are used to weight the data by gender, age, and, where reliable data are available, education or socioeconomic status.

data_collection

DATES OF DATA COLLECTION

Start	End
2020-11-15	2020-12-15

DATA COLLECTION MODE
Computer Assisted Telephone Interview [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 NA. 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
Since the population with access to mobile telephones is likely to differ from the rest of the population with respect to their access to food, post-hoc adjustments were made to control for the potential resulting bias. Post-stratification weights were built to adjust the sample distribution by gender and education of the respondent at admin-1 level, to match the same distribution in the total population. However, an additional step was needed to try to ascertain the food insecurity condition of those with access to phones compared to that of the total population.

Using FIES data collected by FAO through the GWP between 2014 and 2019, and a variable on access to mobile telephones that was also in the dataset, it was possible to compare the prevalence of food insecurity at moderate or severe level, and severe level only, of respondents with access to a mobile phone to that of the total population at national level. The variable HEALTHY 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_SOM_2020_FIES_v01_M_v01_A_OCS

PRODUCERS

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata producer
Development Economics Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

DATE OF METADATA PRODUCTION
2023-01-03

DDI DOCUMENT VERSION
Version 01 (January 2023): This metadata was downloaded from the FAO website (https://microdata.fao.org/index.php/catalog) and it is identical to FAO version (SOM_2020_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
SOM_2020_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.	0	21

Data file	Cases	variables

Data file: SOM_2020_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:	0
variables:	21

variables

ID	Name	Label	Question
V1	Random_ID	Unique respondent identifier	
V2	WORRIED	Worried you would not have enough food to eat because of a lack of money or other resources	
V3	FEWFOOD	Ate only a few kinds of foods because of a lack of money or other resources	
V4	SKIPPED	Skipped a meal because there was not enough money or other resources to get food	
V5	ATELESS	Ate less than you thought you should because of a lack of money or other resources	
V6	RUNOUT	Household ran out of food because of a lack of money or other resources	
V7	HUNGRY	Hungry but did not eat because there was not enough money or other resources for food?	
V8	WHLDAY	Went without eating for a whole day because of a lack of money or other resources?	
V9	wt	Post-stratification sampling weights	
V10	year	Year when the study was administered in the country	
V11	N_adults	Number of adults 15 years of age and above in household	
V12	N_child	Number of children under 15 years of age in household	
V13	Raw_score	Sum of Affirmative responses to FIES questions	
V14	Raw_score_par	Estimated person parameters using the Rasch model	
V15	Raw_score_par_error	Estimated person parameter errors using the Rasch model	
V16	Prob_Mod_Sev	Probability of being moderately or severely food insecure	
V17	Prob_sev	Probability of being severely food insecure	
V18	Age	Age of the respondent	
V19	Education	Education of the respondent	
V20	Area	Area	
V21	Gender	Gender of the respondent	

total: 21

RANDOM_ID: Unique respondent identifier

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Unique respondent identifier

Imputation and derivation

IMPUTATION
Unique respondent identifier

Others

SECURITY
Unique respondent identifier

YEAR: Year when the study was administered in the country

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	2020

description

SOURCE OF INFORMATION
Year when the study was administered in the country

Imputation and derivation

IMPUTATION
Year when the study was administered in the country

Others

SECURITY
Year when the study was administered in the country

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION
Worried you would not have enough food to eat because of a lack of money or other resources

Imputation and derivation

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

Others

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

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION

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

Imputation and derivation

IMPUTATION

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

Others

SECURITY

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

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION

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

Imputation and derivation

IMPUTATION

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

Others

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION
Ate less than you thought you should because of a lack of money or other resources

Imputation and derivation

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

Others

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

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION
Household ran out of food because of a lack of money or other resources

Imputation and derivation

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

Others

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

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION
Hungry but did not eat because there was not enough money or other resources for food?

Imputation and derivation

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

Others

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Yes

description

SOURCE OF INFORMATION
Went without eating for a whole day because of a lack of money or other resources?

Imputation and derivation

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

Others

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

WT: Post-stratification sampling weights

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

Imputation and derivation

IMPUTATION
Post-stratification sampling weights

Others

SECURITY
Post-stratification sampling weights

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
00	00
01	01
02	02
03	03
04	04
05	05
06	06
07	07
08	08
09	09
10	10+

description

SOURCE OF INFORMATION
Number of adults 15 years of age and above in household

Imputation and derivation

IMPUTATION
Number of adults 15 years of age and above in household

Others

SECURITY
Number of adults 15 years of age and above in household

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

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
00	00
01	01
02	02
03	03
04	04
05	05
06	06
07	07
08	08
09	09
10	10+

description

SOURCE OF INFORMATION
Number of children under 15 years of age in household

Imputation and derivation

IMPUTATION
Number of children under 15 years of age in household

Others

SECURITY
Number of children under 15 years of age in household

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Sum of Affirmative responses to FIES questions

Imputation and derivation

IMPUTATION
Sum of Affirmative responses to FIES questions

Others

SECURITY
Sum of Affirmative responses to FIES questions

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Estimated person parameters using the Rasch model

Imputation and derivation

IMPUTATION
Estimated person parameters using the Rasch model

Others

SECURITY
Estimated person parameters using the Rasch model

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Estimated person parameter errors using the Rasch model

Imputation and derivation

IMPUTATION
Estimated person parameter errors using the Rasch model

Others

SECURITY
Estimated person parameter errors using the Rasch model

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Probability of being moderately or severely food insecure

Imputation and derivation

IMPUTATION
Probability of being moderately or severely food insecure

Others

SECURITY
Probability of being moderately or severely food insecure

PROB_SEV: Probability of being severely food insecure

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Probability of being severely food insecure

Imputation and derivation

IMPUTATION
Probability of being severely food insecure

Others

SECURITY
Probability of being severely food insecure

AGE: Age of the respondent

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0   Invalid: 0
Type: Continuous   Decimal: 0   Range: -   Format: Numeric

description

SOURCE OF INFORMATION
Age of the respondent

Imputation and derivation

IMPUTATION
Age of the respondent

Others

SECURITY
Age of the respondent

EDUCATION: Education of the respondent

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Elementary_or_less
2	Secondary
3	College
4	Dont_know
5	Refused

description

SOURCE OF INFORMATION
Education of the respondent

Imputation and derivation

IMPUTATION
Education of the respondent

Others

SECURITY
Education of the respondent

AREA: Area

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Urban/Suburbs
2	Towns/Rural
3	Dont_know
4	Refused

description

SOURCE OF INFORMATION
Area

Imputation and derivation

IMPUTATION
Area

Others

SECURITY
Area

GENDER: Gender of the respondent

Data file: SOM_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Male
2	Female

description

SOURCE OF INFORMATION
Gender of the respondent

Imputation and derivation

IMPUTATION
Gender of the respondent

Others

SECURITY
Gender of the respondent

study_resources

questionnaires

Food Insecurity Experience Scale: Questions

title	Food Insecurity Experience Scale: Questions
language	English
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