Food Insecurity Experience Scale 2018

FAO Statistics Division

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

Identification

SURVEY ID NUMBER
JPN_2018_FIES_v01_M_v01_A_OCS

TITLE
Food Insecurity Experience Scale 2018

COUNTRY/ECONOMY

Name	Country code
Japan	JPN

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 under the "DOCUMENTATION" tab above. 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.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
FAO Statistics Division	FAO

Sampling

SAMPLING PROCEDURE
Landline and Mobile RDD. The landline sample was stratified by region.
Exclusions: Agency Blacklisted numbers. Also excluded 12 municipalities near the nuclear power plant in Fukushima. These areas were designated as not-to-call districts due to the devastation from the 2011 disasters. The exclusion represents less than 1% of the population of Japan.
Design effect: 1.47

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
2018-06-29	2018-09-12

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 3.8 .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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FAO Statistics Division	FAO	Carlo.Cafiero@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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Metadata production

DDI DOCUMENT ID

DDI_JPN_2018_FIES_v01_M_v01_A_OCS

PRODUCERS

Name	Abbreviation	Affiliation	Role

Office of the Chief Statistician	OCS	FAO	Metadata

DDI DOCUMENT VERSION

Version 01 (September 2019). This survey documentation (DDI) is identical to the DDI published in the FAO microdata catalog except for the Document ID and Study ID.

data_dictionary

Data file	Cases	variables
JPN_2018_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	23

Data file: JPN_2018_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:	23

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	HEALTHY	Unable to eat healthy and nutritious food because of a lack of money or other resources	
V4	FEWFOOD	Ate only a few kinds of foods because of a lack of money or other resources	
V5	SKIPPED	Skipped a meal because there was not enough money or other resources to get food	
V6	ATELESS	Ate less than you thought you should because of a lack of money or other resources	
V7	RUNOUT	Household ran out of food because of a lack of money or other resources	
V8	HUNGRY	Hungry but did not eat because there was not enough money or other resources for food?	
V9	WHLDAY	Went without eating for a whole day because of a lack of money or other resources?	
V10	wt	Post-stratification sampling weights	
V11	year	Year when the GWP was administered in the country	
V12	N_adults	Number of adults 15 years of age and above in household	
V13	N_child	Number of children under 15 years of age in household	
V14	Raw_score	Sum of Affirmative responses to FIES questions	
V15	Raw_score_par	Estimated person parameters using the Rasch model	
V16	Raw_score_par_error	Estimated person parameter errors using the Rasch model	
V17	Prob_Mod_Sev	Probability of being moderately or severely food insecure	
V18	Prob_sev	Probability of being severely food insecure	
V19	Age	Age of the respondent	
V20	Education	Education of the respondent	
V21	Area	Area	
V22	Gender	Gender of the respondent	
V23	Income	Income quintile	

total: 23

RANDOM_ID: Unique respondent identifier

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 111139306 - 211021286 Format: Numeric

WT: Post-stratification sampling weights

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 0.260821070058134 - 2.60821070058134 Format: Numeric
Weighted: yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No

1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
0	No
1	Yes

YEAR: Year when the GWP was administered in the country

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	2018

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
01	01
02	02
03	03
04	04
05	05
06	06

07	07
08	08
10	10+

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

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
00	00
01	01
02	02
03	03
04	04

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: -2.96798213617436 - 2.87484472195818 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: 0.718159372041858 - 1.34787104919331 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.990965615196697 Format: Numeric

PROB_SEV: Probability of being severely food insecure

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.77077403893735 Format: Numeric

AGE: Age of the respondent

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0
Type: Continuous Decimal: 0 Width: 10 Range: 15 - 100 Format: Numeric

EDUCATION: Education of the respondent

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

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

AREA: Area

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

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

GENDER: Gender of the respondent

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Male
2	Female

INCOME: Income quintile

Data file: JPN_2018_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category
1	Poorest_20%

2	Second_20%
3	Middle_20%
4	Fourth_20%
5	Richest_20%

study_resources

questionnaires

Food Insecurity Experience Scale 2016, Questions

title	Food Insecurity Experience Scale 2016, Questions
language	English
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
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