

Food Insecurity Experience Scale 2020

FAO Statistics Division

report_generated_on: January 18, 2023

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

Identification

SURVEY ID NUMBER

JPN_2020_FIES_v01_M_v01_A_OCS

TITLE

Food Insecurity Experience Scale 2020

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 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?

TOPICS

| Topic |
|-------------|
| SDGs |
| Food Access |

KEYWORDS

| Keyword |
|-----------------|
| Food Insecurity |
| SDG |

Coverage

GEOGRAPHIC COVERAGE

National coverage

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

A simple stratified sample design was used for selection of landline phone samples. Within each explicit stratum (Prefecture) in the case of landline, sample of specified size was drawn using pure Random Digit Dial (RDD) procedures. Sampling was done independently within each stratum. Mobile phone samples were drawn using pure RDD procedures across all mobile phone providers proportional to the share of each provider. For respondents contacted by landline telephone, random respondent selection within the household was performed by asking for the person in the household aged 15 and older who had the next birthday. Respondents contacted by mobile telephone were screened for those aged 15 and older; no additional selection procedure was performed. For the purpose of data collection, the total initial sample was split into random subsamples (replicate samples) and released sequentially based on the progress of interviewing in different strata. The goal was to release an optimum amount of sample each time to achieve a high response rate while completing the targeted number of interviews within the field period.

Exclusions: NA

Design effect: 1.22

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 |
|------------|------------|
| 2020-08-07 | 2020-10-08 |

DATA COLLECTION MODE

Other [oth]

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 3.4. 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

| Name | Affiliation | Email | URL |
|-------------------------|-------------|-----------------------|----------------------|
| FAO Statistics Division | FAO | Carlo.Cafiero@fao.org | Link |

CONFIDENTIALITY

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 will only be used for statistical and/or research purposes;
- Any results derived from the micro dataset will be used solely for reporting aggregated information, and not for any specific individual entities or data subjects;
- 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_JPN_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

2023-01-17

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 (JPN_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 |
|--|-------|-----------|
| JPN_2020_FIES_v01_EN_M_v01_A_OCS This dataset contains the variables used to calculate the FIES-based indicator, demographic variables and some derived variables calculated by FAO from the survey. | 0 | 23 |

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

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: | 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 study 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_2020_FIES_v01_EN_M_v01_A_OCS**Overview**

Valid: 0 Invalid: 0

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

WT: Post-stratification sampling weights**Data file:** JPN_2020_FIES_v01_EN_M_v01_A_OCS**Overview**

Valid: 0 Invalid: 0

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

WORRIED: Worried you would not have enough food to eat because of a lack of money or other resources**Data file:** JPN_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 |

HEALTHY: Unable to eat healthy and nutritious food because of a lack of money or other resources**Data file:** JPN_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 |

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

Data file: JPN_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 |

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

Data file: JPN_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 |

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

Data file: JPN_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 |

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

Data file: JPN_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 |

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

Data file: JPN_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 |

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

Data file: JPN_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 |

YEAR: Year when the study was administered in the country**Data file:** JPN_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 |

N_ADULTS: Number of adults 15 years of age and above in household**Data file:** JPN_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 |
|-------|----------|
| 01 | 01 |
| 02 | 02 |
| 03 | 03 |
| 04 | 04 |
| 05 | 05 |
| 06 | 06 |
| 07 | 07 |

N_CHILD: Number of children under 15 years of age in household**Data file:** JPN_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 |

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

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

PROB_SEV: Probability of being severely food insecure

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0

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

AGE: Age of the respondent

Data file: JPN_2020_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 0 Invalid: 0

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

EDUCATION: Education of the respondent

Data file: JPN_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 |

AREA: Area

Data file: JPN_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 |

GENDER: Gender of the respondent

Data file: JPN_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 |

INCOME: Income quintile

Data file: JPN_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 | Poorest_20% |
| 2 | Second_20% |
| 3 | Middle_20% |
| 4 | Fourth_20% |
| 5 | Richest_20% |

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
