

# Food Insecurity Experience Scale 2017

**FAO Statistics Division**

report\_generated\_on: November 30, 2022

visit\_data\_catalog\_at: <https://microdata.worldbank.org/index.php>

## Identification

### SURVEY ID NUMBER

NPL\_2017\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2017

### COUNTRY/ECONOMY

| Name  | Country code |
|-------|--------------|
| Nepal | NPL          |

### 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

## Version

### VERSION DESCRIPTION

- v01

## 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 coverage

#### UNIVERSE

Individuals of 15 years or older.

## Producers and sponsors

#### PRIMARY INVESTIGATORS

| Name                    | Affiliation |
|-------------------------|-------------|
| FAO Statistics Division | FAO         |

## Sampling

#### SAMPLING PROCEDURE

The population was stratified by all five geographic regions, three ecological belts, and by urban and rural distribution.

Exclusions: None

Design effect: 1.45

#### 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        |
|------------|------------|
| 2017-08-10 | 2017-09-12 |

### DATA COLLECTION MODE

Face-to-face [f2f]

## questionnaires

### QUESTIONNAIRES

The questionnaire is provided as an external resource in the Documentation Section.

## 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 3.7. 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 | <a href="#">Link</a> |

### 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.

### ACCESS CONDITIONS

Micro datasets disseminated by FAO shall only be allowed for research and statistical purposes. Any user who requests access working for a commercial company will not be granted access to any micro dataset regardless of their specified purpose. Users requesting access to any datasets must agree to the following minimal conditions:

- 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.

reported immediately to FAO;

- The micro dataset cannot be re-disseminated by users or shared with anyone other than the individuals that are granted access to the micro dataset by FAO.

#### CITATION REQUIREMENTS

Use of the dataset must be acknowledged using a citation which would include:

- the Identification of the Primary Investigator
- the title of the survey (including country, acronym and year of implementation)
- the survey reference number
- the source and date of download

Example,

FAO Statistics Division. Nepal- Food Insecurity Experience Scale (FIES) 2017, Ref. NPL\_2017\_FIES\_v01\_M\_v01\_A\_OCS. Dataset downloaded from [url] on [date].

#### LOCATION OF DATA COLLECTION

The Food and Agriculture Organization

## Disclaimer and copyrights

#### 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\_NPL\_2017\_FIES\_v01\_M\_v01\_A\_OCS

#### PRODUCERS

| Name                             | Abbreviation | Affiliation | Role     |
|----------------------------------|--------------|-------------|----------|
| Office of the Chief Statistician | OCS          | FAO         | Metadata |

#### DATE OF METADATA PRODUCTION

2019-10-15

#### DDI DOCUMENT VERSION

Version 01 (October 2019). This version is identical to FAO Version (NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS\_v01) except for the following fields that were edited by the World Bank: DDI ID, Study ID, DDI Version Description, Questionnaires, Locations of Data Collection and Citation Requirement.

**data\_dictionary**

| Data file  | Cases | variables |
|--|-------|-----------|
| <b>NPL_2017_FIES_v01_EN_M_v01_A_OCS</b><br>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: NPL\_2017\_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 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:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 111610710 - 211008450    Format: Numeric

**WT: Post-stratification sampling weights****Data file:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0.264833738178122 - 2.651361511034    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:** NPL\_2017\_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:** NPL\_2017\_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:** NPL\_2017\_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:** NPL\_2017\_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:** NPL\_2017\_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: NPL\_2017\_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: NPL\_2017\_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: NPL\_2017\_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: NPL\_2017\_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     | 2017     |

## N\_ADULTS: Number of adults 15 years of age and above in household

Data file: NPL\_2017\_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  |
| 09 | 09  |
| 10 | 10+ |

## **N\_CHILD: Number of children under 15 years of age in household**

Data file: NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 12 Range: - Format: character

### **Questions and instructions**

#### **CATEGORIES**

| <b>Value</b> | <b>Category</b> |
|--------------|-----------------|
| 00           | 00              |
| 01           | 01              |
| 02           | 02              |
| 03           | 03              |
| 04           | 04              |
| 05           | 05              |
| 06           | 06              |
| 07           | 07              |
| 08           | 08              |
| 10           | 10+             |

## **RAW\_SCORE: Sum of Affirmative responses to FIES questions**

Data file: NPL\_2017\_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: NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 10 Range: -2.69514766957729 - 2.92129669888496 Format: Numeric

**RAW\_SCORE\_PAR\_ERROR: Estimated person parameter errors using the Rasch model****Data file:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0.674635377243596 - 1.20654479575765    Format: Numeric

**PROB\_MOD\_SEV: Probability of being moderately or severely food insecure****Data file:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 0.99631484818309    Format: Numeric

**PROB\_SEV: Probability of being severely food insecure****Data file:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 0.806957931423813    Format: Numeric

**AGE: Age of the respondent****Data file:** NPL\_2017\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

Type: Continuous    Decimal: 0    Width: 10    Range: 15 - 88    Format: Numeric

**EDUCATION: Education of the respondent****Data file:** NPL\_2017\_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 | Don't know |
| 5 | Refused    |

## AREA: Area

Data file: NPL\_2017\_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     | Don't know    |
| 4     | Refused       |

## GENDER: Gender of the respondent

Data file: NPL\_2017\_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: NPL\_2017\_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

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### CATEGORIES

| Value | Category    |
|-------|-------------|
| 1     | Poorest_20% |
| 2     | Second_20%  |
| 3     | Middle_20%  |
| 4     | Fourth_20%  |
| 5     | Richest_20% |

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# study\_resources

## questionnaires

### Nepal- Food Insecurity Experience Scale 2017: Questions

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title Nepal- Food Insecurity Experience Scale 2017: Questions  
language English  
filename FIES\_Questions.pdf

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## technical\_documents

### Nepal- Food Insecurity Experience Scale 2017: Derived variables and methodology to compute indicator 2.1.2

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title Nepal- Food Insecurity Experience Scale 2017: Derived variables and methodology to compute indicator 2.1.2  
language English  
filename Derived\_variables\_and\_Computation\_indicator.pdf

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