

# Niger - Food Insecurity Experience Scale 2021

**FAO Statistics Division**

Report generated on: January 11, 2023

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## Identification

### SURVEY ID NUMBER

NER\_2021\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2021

### COUNTRY/ECONOMY

| Name  | Country code |
|-------|--------------|
| Niger | NER          |

### 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 Kantar, on behalf of the Food and Agriculture Organization (FAO). General information on the methodology and implementation is available in the documentations tab. 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 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 multi-stage sampling, random route walk method was employed. The first level was an automatic selection of all administrative level one units in the country. After this, PSUs were selected in each units, followed by SSUs.

Exclusions: The regions of Tillabéri and Diffa were excluded from sampling for safety reasons. The unsampled areas cover approximately 13 percent of the national population.

Design effect: NA

#### 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        |
|------------|------------|
| 2021-11-15 | 2021-12-15 |

## 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.

## 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.

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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

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## Metadata production

## DDI DOCUMENT ID

DDI\_NER\_2021\_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  
2023-01-11

#### 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 (NER\_2021\_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 |
|--|-------|-----------|
| <b>NER_2021_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     | 22        |



**Data file: NER\_2021\_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: 22

**Variables**

| ID  | Name                | Label   | Question |
|-----|---------------------|---|----------|
| V1  | WORRIED             | Worried you would not have enough food to eat because of a lack of money or other resources |          |
| V2  | HEALTHY             | Unable to eat healthy and nutritious food 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  |          |
| V22 | Random_ID           | Unique respondent identifier  |          |

Total: 22





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

Data file: NER\_2021\_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: NER\_2021\_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     | 2021     |

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

Data file: NER\_2021\_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:** NER\_2021\_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:** NER\_2021\_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:** NER\_2021\_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: NER\_2021\_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: NER\_2021\_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: NER\_2021\_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      |

**WT: Post-stratification sampling weights****Data file:** NER\_2021\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0    Invalid: 0

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

**N\_ADULTS: Number of adults 15 years of age and above in household****Data file:** NER\_2021\_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+      |

**N\_CHILD: Number of children under 15 years of age in household****Data file:** NER\_2021\_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+ |

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

Data file: NER\_2021\_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: NER\_2021\_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: NER\_2021\_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: NER\_2021\_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:** NER\_2021\_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:** NER\_2021\_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:** NER\_2021\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Range: 1 - 15 Format: Numeric

**Questions and instructions**

## CATEGORIES

| Value | Category                                       |
|-------|--|
| 1     | Elementary_or_less                             |
| 2     | Secondary                                      |
| 3     | College  |
| 4     | Dont_know                                      |
| 5     | Refused  |
| 6     | Didn't attend school/only kuranic/bible school |
| 7     | Don't know                                     |
| 8     | Other [specify]                                |
| 9     | Post tertiary education                        |
| 10    | Primary/Elementary complete                    |
| 11    | Primary/Elementary incomplete                  |
| 12    | Secondary complete                             |
| 13    | Secondary incomplete                           |
| 14    | Tertiary complete                              |

|    |                     |
|----|---------------------|
| 15 | Tertiary incomplete |
|----|---------------------|

**AREA: Area****Data file:** NER\_2021\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Range: 1 - 8 Format: Numeric

**Questions and instructions**

## CATEGORIES

| Value | Category                  |
|-------|---------------------------|
| 1     | Urban/Suburbs             |
| 2     | Towns/Rural               |
| 3     | Dont_know                 |
| 4     | Refused                   |
| 5     | A town                    |
| 6     | A village                 |
| 7     | The center of a big city  |
| 8     | The suburbs of a big city |

**GENDER: Gender of the respondent****Data file:** NER\_2021\_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   |

**RANDOM\_ID: Unique respondent identifier****Data file:** NER\_2021\_FIES\_v01\_EN\_M\_v01\_A\_OCS



## Overview

Valid: 0    Invalid: 0

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

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# Documentation

## Questionnaires

### Food Insecurity Experience Scale: Questions

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Title Food Insecurity Experience Scale: Questions  
 Language English  
 Filename FIES\_Questions.pdf

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## Technical documents

### Computed variables at respondent level

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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

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### Food Insecurity Experience Scale, Survey Implementation Plan

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Title Food Insecurity Experience Scale, Survey Implementation Plan  
 Language English  
 Filename FIES\_Kantar\_Survey\_Implementation\_Plan.pdf

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