

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

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visit\_data\_catalog\_at: <http://catalog.ihsn.org/>

## Identification

### SURVEY ID NUMBER

HRV\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY

| Name    | Country code |
|---------|--------------|
| Croatia | HRV          |

### 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

## 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

NA

Exclusions: NA

Design effect: 1.77

## 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        |
|------------|------------|
| 2022-09-07 | 2022-11-15 |

## DATA COLLECTION MODE

Face-to-Face [f2f]

## 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 4.1. 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;
- 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.

## 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\_HRV\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### PRODUCERS

| Name | Abbreviation | Affiliation | Role |
|------|--------------|-------------|------|
|------|--------------|-------------|------|

|                                  |       |                |   |
|----------------------------------|-------|----------------|---|
| Office of the Chief Statistician | OCS   | FAO            | Metadata producer                                 |
| Development Economics Data Group | DECDG | The World Bank | Metadata adapted for World Bank Microdata Library |

## DDI DOCUMENT VERSION

This metadata was downloaded from the FAO catalog (<https://microdata.fao.org/index.php/catalog>) and it is identical to FAO version (HRV\_2022\_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>HRV_2022_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. | 1002  | 24        |



**Data file: HRV\_2022\_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: 1002

variables: 24

**variables**

| ID | Name                | Label   | Question |
|----|---------------------|---|----------|
| 53 | Random_ID           | Unique respondent identifier  |          |
| 54 | WORRIED             | Worried you would not have enough food to eat because of a lack of money or other resources |          |
| 55 | HEALTHY             | Unable to eat healthy and nutritious food because of a lack of money or other resources     |          |
| 56 | FEWFOOD             | Ate only a few kinds of foods because of a lack of money or other resources                 |          |
| 57 | SKIPPED             | Skipped a meal because there was not enough money or other resources to get food            |          |
| 58 | ATELESS             | Ate less than you thought you should because of a lack of money or other resources          |          |
| 59 | RUNOUT              | Household ran out of food because of a lack of money or other resources                     |          |
| 60 | HUNGRY              | Hungry but did not eat because there was not enough money or other resources for food?      |          |
| 61 | WHLDAY              | Went without eating for a whole day because of a lack of money or other resources?          |          |
| 62 | wt                  | Post-stratification sampling weights  |          |
| 63 | year                | Year when the study was administered in the country   |          |
| 64 | N_adults            | Number of adults 15 years of age and above in household                                     |          |
| 65 | N_child             | Number of children under 15 years of age in household                                       |          |
| 66 | Raw_score           | Sum of Affirmative responses to FIES questions  |          |
| 67 | Raw_score_par       | Estimated person parameters using the Rasch model   |          |
| 68 | Raw_score_par_error | Estimated person parameter errors using the Rasch model                                     |          |
| 69 | Prob_Mod_Sev        | Probability of being moderately or severely food insecure                                   |          |
| 70 | Prob_sev            | Probability of being severely food insecure   |          |
| 71 | Age                 | Age of the respondent   |          |
| 72 | Education           | Education of the respondent   |          |
| 73 | Area                | Area  |          |
| 74 | Gender              | Gender of the respondent  |          |
| 75 | Income              | Income quintile   |          |
| 76 | DEGURBA             | Degree of Urbanisation  |          |

total: 24





**RANDOM\_ID: Unique respondent identifier****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1002   Invalid: 0

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

**WORRIED: Worried you would not have enough food to eat because of a lack of money or other resources****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 990   Invalid: 12

Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 0       | No       | 831   | 83.9% |
| 1       | Yes      | 159   | 16.1% |
| Sysmiss |          | 12    |       |

**HEALTHY: Unable to eat healthy and nutritious food because of a lack of money or other resources****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 989   Invalid: 13

Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

| Value   | Category | Cases |     |
|---------|----------|-------|-----|
| 0       | No       | 880   | 89% |
| 1       | Yes      | 109   | 11% |
| Sysmiss |          | 13    |     |

**FEWFOOD: Ate only a few kinds of foods because of a lack of money or other resources****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 997    Invalid: 5  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 0       | No       | 863   | 86.6% |
| 1       | Yes      | 134   | 13.4% |
| Sysmiss |          | 5     |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 996    Invalid: 6  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 0       | No       | 950   | 95.4% |
| 1       | Yes      | 46    | 4.6%  |
| Sysmiss |          | 6     |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 990    Invalid: 12  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

**Questions and instructions**

## CATEGORIES

| Value | Category | Cases |       |
|-------|----------|-------|-------|
| 0     | No       | 918   | 92.7% |

|         |     |    |      |
|---------|-----|----|------|
| 1       | Yes | 72 | 7.3% |
| Sysmiss |     | 12 |      |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 999    Invalid: 3  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

### **Questions and instructions**

#### CATEGORIES

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 0       | No       | 955   | 95.6% |
| 1       | Yes      | 44    | 4.4%  |
| Sysmiss |          | 3     |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 997    Invalid: 5  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

### **Questions and instructions**

#### CATEGORIES

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 0       | No       | 962   | 96.5% |
| 1       | Yes      | 35    | 3.5%  |
| Sysmiss |          | 5     |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 993    Invalid: 9  
 Type: Discrete    Width: 12    Range: 0 - 1    Format: character

## Questions and instructions

### CATEGORIES

| Value   | Category | Cases |     |
|---------|----------|-------|-----|
| 0       | No       | 973   | 98% |
| 1       | Yes      | 20    | 2%  |
| Sysmiss |          | 9     |     |

### WT: Post-stratification sampling weights

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

#### Overview

Valid: 1002 Invalid: 0 Minimum: 0.257 Maximum: 4.385 Mean: 1 Standard deviation: 0.877  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.256844425983474 - 4.38464559259277 Format: Numeric  
 Weighted: yes

### YEAR: Year when the study was administered in the country

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

#### Overview

Valid: 1002 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

| Value   | Category | Cases |      |
|---------|----------|-------|------|
| 1       | 2022     | 1002  | 100% |
| Sysmiss |          | 0     |      |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

#### Overview

Valid: 1002 Invalid: 0  
 Type: Discrete Width: 12 Range: 1 - 7 Format: character

## Questions and instructions

### CATEGORIES

| Value | Category | Cases |  |
|-------|----------|-------|--|
|-------|----------|-------|--|

|         |    |     |       |
|---------|----|-----|-------|
| 01      | 01 | 194 | 19.4% |
| 02      | 02 | 513 | 51.2% |
| 03      | 03 | 171 | 17.1% |
| 04      | 04 | 96  | 9.6%  |
| 05      | 05 | 23  | 2.3%  |
| 06      | 06 | 4   | 0.4%  |
| 07      | 07 | 1   | 0.1%  |
| Sysmiss |    | 0   |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

#### **Overview**

Valid: 994    Invalid: 8  
 Type: Discrete    Width: 12    Range: 0 - 4    Format: character

#### **Questions and instructions**

#### **CATEGORIES**

| Value   | Category | Cases |       |
|---------|----------|-------|-------|
| 00      | 00       | 749   | 75.4% |
| 01      | 01       | 113   | 11.4% |
| 02      | 02       | 95    | 9.6%  |
| 03      | 03       | 29    | 2.9%  |
| 04      | 04       | 7     | 0.7%  |
| 10      | 10+      | 1     | 0.1%  |
| Sysmiss |          | 8     |       |

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

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

#### **Overview**

Valid: 1002    Invalid: 0    Minimum: 0    Maximum: 8    Mean: 0.618    Standard deviation: 1.511  
 Type: Continuous    Decimal: 0    Width: 10    Range: 0 - 8    Format: Numeric

### **RAW\_SCORE\_PAR: Estimated person parameters using the Rasch model**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0 Minimum: -2.23 Maximum: 2.39 Mean: -1.884 Standard deviation: 0.853  
 Type: Continuous Decimal: 0 Width: 10 Range: -2.23047691729378 - 2.39019856720754 Format: Numeric

---

**RAW\_SCORE\_PAR\_ERROR: Estimated person parameter errors using the Rasch model**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0 Minimum: 0.55 Maximum: 0.943 Mean: 0.879 Standard deviation: 0.129  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.550330153903562 - 0.942721528338438 Format: Numeric

---

**PROB\_MOD\_SEV: Probability of being moderately or severely food insecure**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0 Minimum: 0 Maximum: 0.998 Mean: 0.073 Standard deviation: 0.219  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.997922632842129 Format: Numeric

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**PROB\_SEV: Probability of being severely food insecure**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0 Minimum: 0 Maximum: 0.707 Mean: 0.013 Standard deviation: 0.087  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.707444176524153 Format: Numeric

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**AGE: Age of the respondent**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0 Minimum: 15 Maximum: 100 Mean: 47.515 Standard deviation: 18.29  
 Type: Continuous Decimal: 0 Width: 10 Range: 15 - 100 Format: Numeric

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**EDUCATION: Education of the respondent**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

**Questions and instructions**

## CATEGORIES

| Value   | Category           | Cases |       |
|---------|--------------------|-------|-------|
| 1       | Elementary_or_less | 96    | 9.6%  |
| 2       | Secondary          | 606   | 60.5% |
| 3       | College            | 299   | 29.8% |
| 4       | Dont_know          | 1     | 0.1%  |
| 5       | Refused            | 0     | 0%    |
| Sysmiss |                    | 0     |       |

**AREA: Area**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

| Value   | Category      | Cases |     |
|---------|---------------|-------|-----|
| 1       | Urban/Suburbs | 351   | 35% |
| 2       | Towns/Rural   | 651   | 65% |
| 3       | Dont_know     | 0     | 0%  |
| 4       | Refused       | 0     | 0%  |
| Sysmiss |               | 0     |     |

**GENDER: Gender of the respondent**

Data file: HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

**Overview**

Valid: 1002 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

| Value   | Category | Cases |     |
|---------|----------|-------|-----|
| 1       | Male     | 481   | 48% |
| 2       | Female   | 521   | 52% |
| Sysmiss |          | 0     |     |



**INCOME: Income quintile****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1002   Invalid: 0

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

**Questions and instructions**

## CATEGORIES

| Value   | Category    | Cases |       |
|---------|-------------|-------|-------|
| 1       | Poorest_20% | 159   | 15.9% |
| 2       | Second_20%  | 167   | 16.7% |
| 3       | Middle_20%  | 209   | 20.9% |
| 4       | Fourth_20%  | 199   | 19.9% |
| 5       | Richest_20% | 268   | 26.7% |
| Sysmiss |             | 0     |       |

**DEGURBA: Degree of Urbanisation****Data file:** HRV\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1002   Invalid: 0

Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 3   Format: Numeric

**Questions and instructions**

## CATEGORIES

| Value   | Category                   | Cases |       |
|---------|----------------------------|-------|-------|
| 1       | Rural areas                | 433   | 43.2% |
| 2       | Towns and semi-dense areas | 281   | 28%   |
| 3       | Cities                     | 288   | 28.7% |
| Sysmiss |                            | 0     |       |

# study\_resources

## questionnaires

### Food Insecurity Experience Scale: Questionnaire

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title Food Insecurity Experience Scale: Questionnaire  
 language English  
 description This document contains the 8 FIES questions as they were asked during the survey  
 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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### Degree of Urbanisation: Harmonized Variable for Cross-country Survey Research

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title Degree of Urbanisation: Harmonized Variable for Cross-country Survey Research  
 language English  
 filename World\_Poll\_Degree\_of\_Urbanisation.pdf

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