

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

report\_generated\_on: September 11, 2023

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

## Identification

### SURVEY ID NUMBER

AUS\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Australia	AUS

### 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

NA

Exclusions: NA

Design effect: 1.72

## 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
2022-07-18	2022-09-11

## DATA COLLECTION MODE

Computer-Assisted Telephone Interviewing [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 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>

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- The micro dataset will only be used for statistical and/or research purposes;
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## 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\_AUS\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### PRODUCERS

Name	Abbreviation	Affiliation	Role
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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 (AUS\_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>AUS_2022_FIES_v01_EN_M_v01_A_OCS</b> This dataset contains the variables used to calculate the FIES-based indicator, demographic variables and some derived variables calculated by FAO from the survey.	1000	24



**Data file: AUS\_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: 1000

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:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000   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:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	906	90.6%
1	Yes	94	9.4%
Sysmiss		0	

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

Valid: 1000   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	908	90.8%
1	Yes	92	9.2%
Sysmiss		0	

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

**Overview**

Valid: 1000   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	857	85.7%
1	Yes	143	14.3%
Sysmiss		0	

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

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

**Overview**

Valid: 1000   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	943	94.3%
1	Yes	57	5.7%
Sysmiss		0	

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

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

**Overview**

Valid: 1000   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	915	91.5%

1	Yes	85	8.5%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1000 Invalid: 0  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	949	94.9%
1	Yes	51	5.1%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1000 Invalid: 0  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	943	94.3%
1	Yes	57	5.7%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1000 Invalid: 0  
Type: Discrete Width: 12 Range: 0 - 1 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	No	987	98.7%
1	Yes	13	1.3%
Sysmiss		0	

### WT: Post-stratification sampling weights

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

#### Overview

Valid: 1000 Invalid: 0 Minimum: 0.186 Maximum: 3.173 Mean: 1 Standard deviation: 0.851  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.185842078158769 - 3.17304911839059 Format: Numeric  
 Weighted: yes

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

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

#### Overview

Valid: 1000 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	2022	1000	100%
Sysmiss		0	

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

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

#### Overview

Valid: 998 Invalid: 2  
 Type: Discrete Width: 12 Range: 1 - 6 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
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01	01	307	30.8%
02	02	476	47.7%
03	03	122	12.2%
04	04	70	7%
05	05	16	1.6%
06	06	7	0.7%
Sysmiss		2	

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

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

### Overview

Valid: 998 Invalid: 2  
Type: Discrete Width: 12 Range: 0 - 7 Format: character

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
00	00	810	81.2%
01	01	86	8.6%
02	02	78	7.8%
03	03	22	2.2%
05	05	1	0.1%
07	07	1	0.1%
Sysmiss		2	

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

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

### Overview

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 8 Mean: 0.592 Standard deviation: 1.612  
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

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

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

### Overview

Valid: 1000 Invalid: 0 Minimum: -2.86 Maximum: 2.738 Mean: -2.462 Standard deviation: 1.08  
Type: Continuous Decimal: 0 Width: 10 Range: -2.86045826318881 - 2.73770265092425 Format: Numeric

**RAW\_SCORE\_PAR\_ERROR: Estimated person parameter errors using the Rasch model****Data file:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000 Invalid: 0 Minimum: 0.647 Maximum: 1.181 Mean: 1.116 Standard deviation: 0.155  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.646636484067512 - 1.18072464969499 Format: Numeric

**PROB\_MOD\_SEV: Probability of being moderately or severely food insecure****Data file:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 0.995 Mean: 0.071 Standard deviation: 0.227  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.995099015138538 Format: Numeric

**PROB\_SEV: Probability of being severely food insecure****Data file:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000 Invalid: 0 Minimum: 0 Maximum: 0.767 Mean: 0.017 Standard deviation: 0.094  
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.767366601131785 Format: Numeric

**AGE: Age of the respondent****Data file:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000 Invalid: 0 Minimum: 17 Maximum: 100 Mean: 59.984 Standard deviation: 19.07  
 Type: Continuous Decimal: 0 Width: 10 Range: 17 - 100 Format: Numeric

**EDUCATION: Education of the respondent****Data file:** AUS\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1000 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 5 Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	22	2.2%

2	Secondary	560	56%
3	College	409	40.9%
4	Dont_know	7	0.7%
5	Refused	2	0.2%
Sysmiss		0	

## AREA: Area

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

### Overview

Valid: 1000 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	701	70.1%
2	Towns/Rural	296	29.6%
3	Dont_know	3	0.3%
4	Refused	0	0%
Sysmiss		0	

## GENDER: Gender of the respondent

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

### Overview

Valid: 1000 Invalid: 0

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

### Questions and instructions

#### CATEGORIES

Value	Category	Cases	
1	Male	512	51.2%
2	Female	488	48.8%
Sysmiss		0	



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

Valid: 1000 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Poorest_20%	174	17.4%
2	Second_20%	236	23.6%
3	Middle_20%	194	19.4%
4	Fourth_20%	195	19.5%
5	Richest_20%	201	20.1%
Sysmiss		0	

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

Valid: 1000 Invalid: 0

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

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Cities	502	50.2%
2	Towns and semi-dense areas	291	29.1%
3	Rural areas	165	16.5%
4	Not available	42	4.2%
Sysmiss		0	

# study\_resources

## questionnaires

### Food Insecurity Experience Scale: Questionnaire

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title Food Insecurity Experience Scale: Questionnaire  
 country Australia  
 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  
 country Australia  
 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  
 country Australia  
 language English  
 filename World\_Poll\_Degree\_of\_Urbanisation.pdf

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