

# Food Insecurity Experience Scale 2022

**FAO Statistics Division**

report\_generated\_on: September 26, 2023

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

## Identification

### SURVEY ID NUMBER

SGP\_2022\_FIES\_v01\_M\_v01\_A\_OCS

### TITLE

Food Insecurity Experience Scale 2022

### COUNTRY/ECONOMY

Name	Country code
Singapore	SGP

### 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: 1.68

## 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
2022-12-10	2022-12-28

## 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. 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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## 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\_SGP\_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 (SGP\_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>SGP_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.	1028	24



**Data file: SGP\_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: 1028

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

Valid: 1028   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:** SGP\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1027   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	888	86.5%
1	Yes	139	13.5%
Sysmiss		1	

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

Valid: 1028   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	897	87.3%
1	Yes	131	12.7%
Sysmiss		0	

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

**Overview**

Valid: 1027   Invalid: 1  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	867	84.4%
1	Yes	160	15.6%
Sysmiss		1	

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

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

**Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	905	88%
1	Yes	123	12%
Sysmiss		0	

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

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

**Overview**

Valid: 1025   Invalid: 3  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
0	No	878	85.7%

1	Yes	147	14.3%
Sysmiss		3	

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

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

#### **Overview**

Valid: 1026   Invalid: 2  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	946	92.2%
1	Yes	80	7.8%
Sysmiss		2	

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

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

#### **Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

#### **Questions and instructions**

##### CATEGORIES

Value	Category	Cases	
0	No	930	90.5%
1	Yes	98	9.5%
Sysmiss		0	

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

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

#### **Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Width: 12   Range: 0 - 1   Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
0	No	965	93.9%
1	Yes	63	6.1%
Sysmiss		0	

### WT: Post-stratification sampling weights

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

#### Overview

Valid: 1028 Invalid: 0 Minimum: 0.235 Maximum: 4.18 Mean: 1 Standard deviation: 0.825  
 Type: Continuous Decimal: 0 Width: 10 Range: 0.234507434294349 - 4.18034991568188 Format: Numeric  
 Weighted: yes

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

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

#### Overview

Valid: 1028 Invalid: 0  
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	2022	1028	100%
Sysmiss		0	

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

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

#### Overview

Valid: 1026 Invalid: 2  
 Type: Discrete Width: 12 Range: 1 - 9 Format: character

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
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01	01	129	12.6%
02	02	250	24.4%
03	03	200	19.5%
04	04	200	19.5%
05	05	152	14.8%
06	06	65	6.3%
07	07	15	1.5%
08	08	2	0.2%
09	09	2	0.2%
10	10+	11	1.1%
Sysmiss		2	

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

**Data file:** SGP\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 1024   Invalid: 4  
 Type: Discrete   Width: 12   Range: 0 - 8   Format: character

### **Questions and instructions**

#### **CATEGORIES**

<b>Value</b>	<b>Category</b>	<b>Cases</b>	
00	00	676	66%
01	01	171	16.7%
02	02	130	12.7%
03	03	27	2.6%
04	04	12	1.2%
05	05	4	0.4%
06	06	3	0.3%
08	08	1	0.1%
Sysmiss		4	

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

**Data file:** SGP\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS

### **Overview**

Valid: 1028   Invalid: 0   Minimum: 0   Maximum: 8   Mean: 0.915   Standard deviation: 1.991  
 Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 8   Format: Numeric

**RAW\_SCORE\_PAR: Estimated person parameters using the Rasch model****Data file:** SGP\_2022\_FIES\_v01\_EN\_M\_v01\_A\_OCS**Overview**

Valid: 1028   Invalid: 0   Minimum: -3.362   Maximum: 3.437   Mean: -2.597   Standard deviation: 1.645  
Type: Continuous   Decimal: 0   Width: 10   Range: -3.36181394669387 - 3.43654917104837   Format: Numeric

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

Valid: 1028   Invalid: 0   Minimum: 0.841   Maximum: 1.617   Mean: 1.481   Standard deviation: 0.259  
Type: Continuous   Decimal: 0   Width: 10   Range: 0.841472811562439 - 1.61711741665874   Format: Numeric

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

Valid: 1028   Invalid: 0   Minimum: 0   Maximum: 0.99   Mean: 0.112   Standard deviation: 0.277  
Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.989773169876889   Format: Numeric

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

Valid: 1028   Invalid: 0   Minimum: 0   Maximum: 0.833   Mean: 0.044   Standard deviation: 0.166  
Type: Continuous   Decimal: 0   Width: 10   Range: 0 - 0.83280432868092   Format: Numeric

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

Valid: 1028   Invalid: 0   Minimum: 15   Maximum: 100   Mean: 38.983   Standard deviation: 14.314  
Type: Continuous   Decimal: 0   Width: 10   Range: 15 - 100   Format: Numeric

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

**Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 5   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	56	5.4%
2	Secondary	503	48.9%
3	College	461	44.8%
4	Dont_know	6	0.6%
5	Refused	2	0.2%
Sysmiss		0	

**AREA: Area**

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

**Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 4   Format: Numeric

**Questions and instructions**

## CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	980	95.3%
2	Towns/Rural	0	0%
3	Dont_know	47	4.6%
4	Refused	1	0.1%
Sysmiss		0	

**GENDER: Gender of the respondent**

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

**Overview**

Valid: 1028   Invalid: 0  
 Type: Discrete   Decimal: 0   Width: 12   Range: 1 - 2   Format: Numeric



## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Male	584	56.8%
2	Female	444	43.2%
Sysmiss		0	

## INCOME: Income quintile

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

### Overview

Valid: 1028 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Poorest_20%	194	18.9%
2	Second_20%	164	16%
3	Middle_20%	209	20.3%
4	Fourth_20%	227	22.1%
5	Richest_20%	234	22.8%
Sysmiss		0	

## DEGURBA: Degree of Urbanisation

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

### Overview

Valid: 1028 Invalid: 0

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

## Questions and instructions

### CATEGORIES

Value	Category	Cases	
1	Cities	1028	100%
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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