

Food Insecurity Experience Scale 2022

FAO Statistics Division

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Identification

SURVEY ID NUMBER

CZE_2022_FIES_v01_M_v01_A_OCS

TITLE

Food Insecurity Experience Scale 2022

COUNTRY

Name	Country code
Czechia	CZE

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. It also includes a new variable related to the degree of urbanisation, which provides a harmonized definition of different levels of urbanicity across the world. Furthermore, 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: 1.21

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
2022-05-23	2022-07-14

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 3.4. 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

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FAO Statistics Division	FAO	Carlo.Caferio@fao.org	Link

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Metadata production

DDI DOCUMENT ID

DDI_CZE_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 (CZE_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
CZE_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.	1003	24

Data file: CZE_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: 1003

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: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 111495050 Maximum: 210975814 Mean: 162500325.37 Standard deviation: 29586775.528
 Type: Continuous Decimal: 0 Width: 10 Range: 111495050 - 210975814 Format: Numeric

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1001 Invalid: 2
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	879	87.8%
1	Yes	122	12.2%
Sysmiss		2	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 999 Invalid: 4
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	856	85.7%
1	Yes	143	14.3%
Sysmiss		4	

FEWFOOD: Ate only a few kinds of foods because of a lack of money or other resources

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1000 Invalid: 3
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	862	86.2%
1	Yes	138	13.8%
Sysmiss		3	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1000 Invalid: 3
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	928	92.8%
1	Yes	72	7.2%
Sysmiss		3	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	922	91.9%
1	Yes	81	8.1%
Sysmiss		0	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	950	94.7%
1	Yes	53	5.3%
Sysmiss		0	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	959	95.7%
1	Yes	43	4.3%
Sysmiss		1	

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

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	979	97.6%
1	Yes	24	2.4%
Sysmiss		0	

WT: Post-stratification sampling weights

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 0.399 Maximum: 2.361 Mean: 1 Standard deviation: 0.456
 Type: Continuous Decimal: 0 Width: 10 Range: 0.398520079387775 - 2.36146494590789 Format: Numeric
 Weighted: yes

YEAR: Year when the study was administered in the country

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	2022	1003	100%
Sysmiss		0	

N_ADULTS: Number of adults 15 years of age and above in household

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1000 Invalid: 3
 Type: Discrete Width: 12 Range: 1 - 7 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
01	01	255	25.5%
02	02	479	47.9%
03	03	150	15%
04	04	90	9%
05	05	19	1.9%
06	06	5	0.5%
07	07	2	0.2%
Sysmiss		3	

N_CHILD: Number of children under 15 years of age in household

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 998 Invalid: 5
 Type: Discrete Width: 12 Range: 0 - 6 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
00	00	710	71.1%
01	01	137	13.7%
02	02	110	11%
03	03	31	3.1%
04	04	8	0.8%
05	05	1	0.1%
06	06	1	0.1%
Sysmiss		5	

RAW_SCORE: Sum of Affirmative responses to FIES questions

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 0 Maximum: 8 Mean: 0.674 Standard deviation: 1.671
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: -2.445 Maximum: 2.633 Mean: -2.028 Standard deviation: 1.03
Type: Continuous Decimal: 0 Width: 10 Range: -2.44545756906558 - 2.63307529996054 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 0.613 Maximum: 1.085 Mean: 1.014 Standard deviation: 0.154
Type: Continuous Decimal: 0 Width: 10 Range: 0.61343442719168 - 1.08531441453283 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 0 Maximum: 0.997 Mean: 0.087 Standard deviation: 0.247
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.99667000995697 Format: Numeric

PROB_SEV: Probability of being severely food insecure

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 0 Maximum: 0.757 Mean: 0.018 Standard deviation: 0.104
Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.757408677032662 Format: Numeric

AGE: Age of the respondent

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0 Minimum: 15 Maximum: 100 Mean: 49.554 Standard deviation: 17.886
Type: Continuous Decimal: 0 Width: 10 Range: 15 - 100 Format: Numeric

EDUCATION: Education of the respondent

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Elementary_or_less	66	6.6%
2	Secondary	621	61.9%
3	College	316	31.5%
4	Dont_know	0	0%
5	Refused	0	0%
Sysmiss		0	

AREA: Area

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Urban/Suburbs	401	40%
2	Towns/Rural	601	59.9%
3	Dont_know	0	0%
4	Refused	1	0.1%
Sysmiss		0	

GENDER: Gender of the respondent

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	455	45.4%
2	Female	548	54.6%
Sysmiss		0	

INCOME: Income quintile

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Poorest_20%	165	16.5%
2	Second_20%	187	18.6%
3	Middle_20%	208	20.7%
4	Fourth_20%	224	22.3%
5	Richest_20%	219	21.8%
Sysmiss		0	

DEGURBA: Degree of Urbanisation

Data file: CZE_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 1003 Invalid: 0

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

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Not available	77	7.7%
2	Rural areas	327	32.6%
3	Cities	326	32.5%

4	Towns and semi-dense areas	273	27.2%
Sysmiss		0	

study_resources

questionnaires

Food Insecurity Experience Scale: Questionnaire

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

technical_documents

Computed variables at respondent level

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

Degree of Ubranisation: Harmonized Variable for Cross-country Survey Research

title Degree of Ubranisation: Harmonized Variable for Cross-country Survey Research
language English
filename World_Poll_Degree_of_Urbanisation.pdf
