

Liberia - Food Insecurity Experience Scale 2022

FAO Statistics Division

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Identification

SURVEY ID NUMBER

LBR_2022_FIES_v01_M_v01_A_OCS

TITLE

Food Insecurity Experience Scale 2022

ABBREVIATION OR ACRONYM

FIES 2022

COUNTRY

Name	Country code
Liberia	LBR

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 Kantar. General information on the methodology can be found here: <https://www.kantar.com/about>. 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.

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 and admin 1

UNIVERSE

Individuals of 15 years or older.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
FAO Statistics Division	FAO

Sampling

SAMPLING PROCEDURE

The adopted sample design for the study was a multi-stage clustered sample stratified by region and urbanity.

Exclusions: NA

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
2022-08-09	2022-09-13

DATA COLLECTION MODE

Computer-Assisted Personal Interviewing [CAPI]

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.

METHODOLOGY NOTES

As part of the statistical disclosure control process, values for number of children and number of adults that were 10 or above, were recoded as "10+" and categories for area were combined into "urban/suburbs" and "towns/rural".

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

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

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Metadata production

DDI DOCUMENT ID

DDI_LBR_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 (LBR_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
LBR_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.	3208	23

Data file: LBR_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: 3208

Variables: 23

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	

Total: 23

RANDOM_ID: Unique respondent identifier**Data file:** LBR_2022_FIES_v01_EN_M_v01_A_OCS**Overview**

Valid: 3208 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:** LBR_2022_FIES_v01_EN_M_v01_A_OCS**Overview**

Valid: 3206 Invalid: 2
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	370	11.5%
1	Yes	2836	88.5%
Sysmiss		2	

HEALTHY: Unable to eat healthy and nutritious food because of a lack of money or other resources**Data file:** LBR_2022_FIES_v01_EN_M_v01_A_OCS**Overview**

Valid: 3205 Invalid: 3
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	523	16.3%
1	Yes	2682	83.7%
Sysmiss		3	

FEWFOOD: Ate only a few kinds of foods because of a lack of money or other resources**Data file:** LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3204 Invalid: 4
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	395	12.3%
1	Yes	2809	87.7%
Sysmiss		4	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3207 Invalid: 1
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	485	15.1%
1	Yes	2722	84.9%
Sysmiss		1	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	421	13.1%

1	Yes	2787	86.9%
Sysmiss		0	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3207 Invalid: 1
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	1331	41.5%
1	Yes	1876	58.5%
Sysmiss		1	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3205 Invalid: 3
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	1067	33.3%
1	Yes	2138	66.7%
Sysmiss		3	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3207 Invalid: 1
Type: Discrete Width: 12 Range: 0 - 1 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
0	No	1920	59.9%
1	Yes	1287	40.1%
Sysmiss		1	

WT: Post-stratification sampling weights

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0 Minimum: 0.33 Maximum: 3.508 Mean: 1 Standard deviation: 0.715
 Type: Continuous Decimal: 0 Width: 10 Range: 0.33 - 3.50819672131148 Format: Numeric Weighted: Yes

YEAR: Year when the study was administered in the country

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	2022	3208	100%
Sysmiss		0	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Width: 12 Range: 0 - 9 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
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00	00	13	0.4%
01	01	296	9.2%
02	02	1061	33.1%
03	03	593	18.5%
04	04	458	14.3%
05	05	302	9.4%
06	06	202	6.3%
07	07	106	3.3%
08	08	81	2.5%
09	09	25	0.8%
10	10+	71	2.2%
Sysmiss		0	

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

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Width: 12 Range: 0 - 9 Format: character

Questions and instructions

CATEGORIES

Value	Category	Cases	
00	00	439	13.7%
01	01	497	15.5%
02	02	633	19.7%
03	03	551	17.2%
04	04	460	14.3%
05	05	240	7.5%
06	06	149	4.6%
07	07	95	3%
08	08	42	1.3%
09	09	33	1%
10	10+	69	2.2%
Sysmiss		0	

RAW_SCORE: Sum of Affirmative responses to FIES questions**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3193 Invalid: 15 Minimum: 0 Maximum: 8 Mean: 5.97 Standard deviation: 2.137
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 8 Format: Numeric

RAW_SCORE_PAR: Estimated person parameters using the Rasch model**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3193 Invalid: 15 Minimum: -2.695 Maximum: 2.915 Mean: 1.163 Standard deviation: 1.561
 Type: Continuous Decimal: 0 Width: 10 Range: -2.69485157126246 - 2.91533592429727 Format: Numeric

RAW_SCORE_PAR_ERROR: Estimated person parameter errors using the Rasch model**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3193 Invalid: 15 Minimum: 0.612 Maximum: 1.091 Mean: 0.87 Standard deviation: 0.181
 Type: Continuous Decimal: 0 Width: 10 Range: 0.611536383689187 - 1.09100171185026 Format: Numeric

PROB_MOD_SEV: Probability of being moderately or severely food insecure**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3193 Invalid: 15 Minimum: 0 Maximum: 0.998 Mean: 0.807 Standard deviation: 0.315
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.998451571895148 Format: Numeric

PROB_SEV: Probability of being severely food insecure**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3193 Invalid: 15 Minimum: 0 Maximum: 0.83 Mean: 0.356 Standard deviation: 0.348
 Type: Continuous Decimal: 0 Width: 10 Range: 0 - 0.829722609913552 Format: Numeric

AGE: Age of the respondent**Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS****Overview**

Valid: 3208 Invalid: 0 Minimum: 18 Maximum: 92 Mean: 33.184 Standard deviation: 12.48
 Type: Continuous Decimal: 0 Width: 10 Range: 18 - 92 Format: Numeric

EDUCATION: Education of the respondent

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 7 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Secondary	1289	40.2%
2	Primary/Elementary	772	24.1%
3	Didn't attend school	794	24.8%
4	Tertiary	339	10.6%
5	Others (specify)	6	0.2%
6	Don't know	7	0.2%
7	Refused	1	0%
Sysmiss		0	

AREA: Area

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	A town	2141	66.7%
2	The suburbs of a big city	294	9.2%
3	A village	307	9.6%
4	The center of a big city	466	14.5%
Sysmiss		0	

GENDER: Gender of the respondent

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Male	1602	49.9%
2	Female	1606	50.1%
Sysmiss		0	

INCOME: Income quintile

Data file: LBR_2022_FIES_v01_EN_M_v01_A_OCS

Overview

Valid: 3208 Invalid: 0
 Type: Discrete Decimal: 0 Width: 12 Range: 1 - 6 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Less than (or about 15,250.00 LRD) per month	1918	59.8%
2	Between 15,250.00 and 76,250.00 LRD per month	456	14.2%
3	Don't know	745	23.2%
4	Between 76,250.00 and 152,500.00 LRD per month	38	1.2%
5	Refused	34	1.1%
6	Above 152,500.00 LRD per month	17	0.5%
Sysmiss		0	

