

# Kiribati - Household Income and Expenditure Survey 2019

**Kiribati National Statistical Office**

Report generated on: February 24, 2021

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# Overview

## Identification

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### ID NUMBER

SPC\_KIR\_2019\_HIES\_v01\_M\_v01\_A\_PUF

## Version

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### VERSION DESCRIPTION

Version 01: Cleaned, labelled and anonymized version of the Master file.

### PRODUCTION DATE

2021-01-29

## Overview

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### ABSTRACT

The purpose of the Household Income and Expenditure Survey (HIES) survey is to obtain information on the income, consumption pattern, incidence of poverty, and saving propensities for different groups of people in Kiribati. This information will be used to guide policy makers in framing socio-economic developmental policies and in initiating financial measures for improving economic conditions of the people.

Some more specific outputs from the survey are listed below:

- a) To obtain expenditure weights and other useful data for the revision of the consumer price index;
- b) To supplement the data available for use in compiling official estimates of household accounts in the systems of national accounts;
- c) To supply basic data needed for policy making in connection with social and economic planning;
- d) To provide data for assessing the impact on household living conditions of existing or proposed economic and social measures, particularly changes in the structure of household expenditures and in household consumption;
- e) To gather information on poverty lines and incidence of poverty throughout Kiribati.

In addition, newly developed modules were incorporated in the 2019 HIES including:

- Person Details;
- Anaemia & Diabetic Test;
- Food Recall;
- Food Away From Home;
- Partaker;
- Non-Food Recall;
- Household Details;
- Dietary Recall;
- Disability, Healthy Living & Time-Use;

- Deprivation And Financial Inclusion;
- Migrant Worker;
- Geographic Information + Photo;
- Market Survey;
- Village Resource Survey (Vrs).

## KIND OF DATA

Sample survey data [ssd]

## UNITS OF ANALYSIS

Individuals and Households.

## Scope

## NOTES

-INDIVIDUALS: Demographic characteristics; Education; Health; Communication; Alcohol and narcotics; Other individual expenditure; Economic activities; Income; Handicraft and processed food.

-HOUSEHOLDS: Dwelling characteristics, Housing expenditure, Household operations, Food expenditure; Sanitation; Water access; Energy; Agriculture; Fisheries; Hunting; Handicraft; Transport; Travel; Financial support; Ceremonies; Food insecurity; Copra production; Legal services.

## KEYWORDS

Kiribati, HIES, Income, Expenditure, Education, Economic activity, Health, Disability, Energy, Sanitation, Water, Transport, Communication, Agriculture, Fishing, Handicraft, Assets, COICOP, PACCOI, pacific-skills, education, training pacific-skills, education, training, pacific-skills, industry, training, pacific-skills, occupation, pacific-skills, gender, pacific-skills, disability

## Coverage

## GEOGRAPHIC COVERAGE

National Coverage and Regional Island Groups (Northern Gilberts, South Tarawa, Central Gilberts, Southern Gilberts, Line).

There are five main populations of interest for which estimates are required for this survey: South Tarawa, Northern, Central and Southern Gilbert Islands, and the Line Islands.

## UNIVERSE

The survey covered all persons resident in private households.

## Producers and Sponsors

## PRIMARY INVESTIGATOR(S)

Name	Affiliation
Kiribati National Statistical Office	Ministry of Finance and Economic Development

## OTHER PRODUCER(S)

Name	Affiliation	Role
Pacific Community		Technical assistance

## FUNDING

Name	Abbreviation	Role
Kiribati Ministry of Finance and Economic Development	MoFED	Staffing costs
New Zealand Ministry of Foreign Affairs and Trade	MFAT	Survey Costs

## OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
International Labour Organization	United Nations	Technical assistance
Food and Agriculture Organization	United Nations	Technical assistance
World Bank	World Bank Group	Technical assistance

## Metadata Production

## METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Kiribati National Statistics Office	KNSO	Ministry of Finance and Economic Development	Documentation of the study
Statistics for Development Division	SDD	Pacific Community	Review of the documentation

## DATE OF METADATA PRODUCTION

2019-10-08

## DDI DOCUMENT VERSION

-Version 01 (October 2019): First attempt at documenting the Kiribati Household Income and Expenditure Survey of 2019. Done by Statistics for Development Division (SDD), Pacific Community (SPC).

-Version 02 (January 2021): Second version of the documentation of the Kiribati Household Income and Expenditure Survey of 2019. This version aims at documenting the anonymized version of the Master file (and not the de-identified version as in Version 01). Done by Statistics for Development Division (SDD), Pacific Community (SPC).

## DDI DOCUMENT ID

DDI\_SPC\_KIR\_2019\_HIES\_v01\_M\_v01\_A\_PUF

# Sampling

## Sampling Procedure

### SAMPLE SIZE:

In determining an appropriate sample size for a survey of this nature, numerous factors come into the equation. These include:

- a) The degree of accuracy required for key estimates;
- b) The population size of the country;
- c) The manner in which the sample is selected;
- d) Cost or staffing constraints which may exist;
- e) Whether or not estimates are required for sub-populations;
- f) The level of variability in the data being collected.

Each of these factors have different magnitudes of importance, but the major priority should always be on selecting a sample big enough to produce results of suitable accuracy. Many of these issues are generally known as well - for instance:

- A user group may pre-specify what level of accuracy they may wish to achieve for the survey
- The population of a country can normally be estimated to a reasonable level of accuracy
- The sample selection technique adopted is known
- Cost and staff constraints are generally known, and
- A user group can once again provide information on whether estimates for sub-populations are required.

The Kiribati 2019 Household Income and Expenditure Survey (HIES) aims to release outputs at the island division level and National level.

The targeted sample size has been determined around 2,000 households based on the results of the previous 2006 HIES that provided the following Relative Sampling Error (RSE) at the strata level:

- Sth. Tarawa: 230 with an average cluster size of 10,5 and a Relative Sampling Error (RSE) of: 6,3%;
- Northern: 245 with an average cluster size of 11,1 and a Relative Sampling Error (RSE) of: 5,7%;
- Central: 217 with an average cluster size of 12,1 and a Relative Sampling Error (RSE) of: 6,7%;
- Southern: 244 with an average cluster size of 11,1 and a Relative Sampling Error (RSE) of: 19,0%;
- Line Is. & Phoenix: 225 with an average cluster size of 13,2 and a Relative Sampling Error (RSE) of: 14,7%;
- TOTAL: 1,161 with an average cluster size of 11,6 and a Relative Sampling Error (RSE) of: 5,4%.

The 2006 Kiribati HIES was based on stratified cluster sampling strategy. The selection of households was based on a three stages selection: island, EA and households. This is the reason why the RSE are above 5% in all domains.

In order to improve the quality of the 2019 HIES results, decisions were made to increase the total sample size (making sure we will not over pass the allocated budget) and to use a stratified cluster sampling strategy based on a 2 stage selection (selection of EA and households).

The optimal allocation of 1,800 households was used as a first step to the sample allocation, and through several adjustments, the total sample size is 2,180 households with a cluster size of 12 households.

- Sth. Tarawa: 600 with an average cluster size of 12, a number of EAS of 50 and RSE is: 3,8%;
- Northern: 400 with an average cluster size of 12, a number of EAS of 33 and RSE is: 4,3%;
- Central: 300 with an average cluster size of 12, a number of EAS of 25 and RSE is: 5,2%;
- Southern: 480 with an average cluster size of 12, a number of EAS of 40 and RSE is: 13,1%;
- Line Is. & Phoenix: 400 with an average cluster size of 12, a number of EAS of 33 and RSE is: 9,3%;
- Total: 2,180 with a number of EAS of 182 and RSE is: 2,9%.

### SAMPLE SELECTION:

The random selection of PSU (EAs) was based on a probability proportional to size selection within each domain.

Within each selected EA, a total of 18 households are selected in order to have a replacement list of 6 households (list B) and 12 to contact in priority (list A).

## Response Rate

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Below is a table showing the response rates based on list A (households selected from the sample):

- South Tarawa: 85.8%;
- Northern: 91.2%;
- Central: 80%;
- Is. & Phoenix: 87.5%;
- TOTAL: 81.1%.

Below is the table showing the completion rates based on valid households from lists A and B (households from the sample + replacements):

- South Tarawa: 99.7%;
- Northern: 100%;
- Central: 100%;
- Is. & Phoenix: 100%;
- TOTAL: 100%.

## Weighting

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Sample weights were calculated for each stratum and adjusted for non-response. Weights for the survey were derived using the inverse of the households probability of selection.

The "weight" variable to be used in the Kiribati Household Income and Expenditure Survey dataset is called "fweight".

# Questionnaires

## Overview

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The questionnaires were published in English.

There are 16 sections in the Household Income and Expenditure Survey questionnaire which relate to the following:

- 1. Household ID
- 2. Household member roster
- 3. Person details
- 4. Anaemia & diabetic test
- 5. Food recall
- 6. Food away from home
- 7. Partaker
- 8. Non-food recall
- 9. Household details
- 10. Dietary recall
- 11. Disability, healthy living & time-use
- 12. Deprivation and financial inclusion
- 13. Migrant worker
- 14. Geographic information + photo
- 15. Market survey
- 16. Village resource survey (vrs).

## Data Collection

### Data Collection Dates

Start	End	Cycle
2019-05-20	2020-03-15	Data collection

### Data Collection Mode

Computer Assisted Personal Interview [capi]

### Data Collection Notes

#### -FIELD WORK:

Data were collected through face-to-face interviews over the period of May 2019 to March 2020. The survey was broken up into 40 rounds of collection. The survey was implemented over a period of 10-months in order to capture seasonal fluctuations in consumption, production, income and expenditure. In addition to staff from Kiribati National Statistics Office (KNSO), a total of 10 interviewers and 5 supervisors - divided into 5 teams - were employed to implement the survey.

Enumerator training was held from April, 29 to May 12 2019. This was then followed by the first of forty rounds on May, 20 2019. The last round (40th) took place on March, 15 2020.

Each survey team is made of 3 staff, 1 supervisor and 2 interviewers that will be responsible for 6 households each.

5 teams (15 staff) were hired and trained, including 4 teams based in South Tarawa and covering South Tarawa, Central, Southern and Northern groups, and 1 team based in Kiritimati island covering the Line group.

The interviews were conducted both in English and in I-Kiribati.

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### Data Collectors

Name	Abbreviation	Affiliation
Kiribati National Statistics Office	KNSO	Ministry of Finance and Economic Development



## Supervision

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To supervise in accordance with the directions of the Statistics Office staff, the completion of the Household Income and Expenditure Survey (HIES) 2019 for all selections, specifically to:

- a) With assistance from the Island Council, undertake the recruitment of interviewers on their respective islands;
- b) Ensure that all schedules and materials are distributed to interviewers according to the instructions of the NSO staff;
- c) Ensure that the interviewers understand which household he/she is responsible for and that none are left out;
- d) With assistance from the interviewer, conduct information sessions for selected households prior to collecting information from those households;
- e) Visit interviewers regularly during the collection phase to make sure they are carrying out their responsibilities correctly;
- f) Make sure all forms from the interviewers are accounted for at the end of each 3 week period;
- g) Do spot checks for completeness of questionnaires and deal with any problems that might arise in the field;
- h) Dispatch all completed questionnaires (in sealed envelopes) to the NSO after he/she is fully satisfied that
- (i) All the entries of the questionnaires are properly completed.

The National Statistics Office recruited and trained 5 supervisors. The completed survey forms were processed by staff of the National Statistics Office who recorded their receipt from the supervisors and checked the questionnaires for completeness.

Each survey team is made of 3 staff, 1 supervisor and 2 interviewers that will be responsible for 6 households each. 5 teams (15 staff) will be hired and trained, 4 teams based in South Tarawa and covering South Tarawa, Central, Southern and Northern groups, and 1 team based in Kiritimati island covering the Line group.

## Data Processing

### **Data Editing**

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Data editing was done using the software Stata Version 15.

### **Other Processing**

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The completed questionnaires were entered into the Survey Solutions CAPI data entry system.

## Data Appraisal

No content available

# Documentation

## Questionnaires

### Questionnaire - Kiribati 2019 HIES

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Title	Questionnaire - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01
Country	Kiribati
Language	English
Contributor(s)	Kiribati National Statistics Office; Pacific Community (SPC); International Labour Organization (ILO); Food and Agriculture Organization (FAO).
Publisher(s)	Kiribati National Statistics Office
	This file is the Complete Questionnaire from the 2019 Kiribati Household Income and Expenditure Survey.
Description	<p>The questionnaire is divided into 16 sections:</p> <ul style="list-style-type: none"> <li>-1. Household ID</li> <li>-2. Household member roster</li> <li>-3. Person details</li> <li>-4. Anaemia &amp; diabetic test</li> <li>-5. Food recall</li> <li>-6. Food away from home</li> <li>-7. Partaker</li> <li>-8. Non-food recall</li> <li>-9. Household details</li> <li>-10. Dietary recall</li> <li>-11. Disability, healthy living &amp; time-use</li> <li>-12. Deprivation and financial inclusion</li> <li>-13. Migrant worker</li> <li>-14. Geographic information + photo</li> <li>-15. Market survey</li> <li>-16. Village resource survey (vrs).</li> </ul>
Filename	Kiribati 2019 HIES Questionnaire - FINAL_NEW 6July2019.pdf
Format	Document, PDF [application/pdf]

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	-12. Deprivation and financial inclusion
	-13. Migrant worker
	-14. Geographic information + photo
	-15. Market survey
	-16. Village resource survey (vrs).
Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Kiribati/SPC_KIR_2019_HIES_v01_M/Doc/Questionnaires/Kiribati 2019 HIES Questionnaire - FINAL_NEW 6July2019.pdf
Format	Document, PDF [application/pdf]

## Technical documents

### Fieldwork Schedule - Kiribati 2019 HIES

Title	Fieldwork Schedule - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2020-10-26
Country	Kiribati
Language	English
Description	This file is the final fieldwork schedule of the 2019-2020 Household Income and Expenditure Survey (HIES) of Kiribati. It provides information on the schedule of rounds and fieldwork preparation.
Filename	Fieldwork Schedule - Final.xlsx
Format	Document, Microsoft Excel [application/msexcel]

### COICOP classification - Kiribati 2019 HIES

Title	COICOP classification - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01
Country	Kiribati
Language	English
Description	This file is the COICOP (Classification of Individual Consumption by Purpose) classification of the 2019-2020 Household Income and Expenditure Survey (HIES) of Kiribati. It contains all the expenditure-related codes and descriptions present in the dataset.
Filename	Kiribati 2020 HIES COICOP.xlsx
Format	Document, Microsoft Excel [application/msexcel]

### PACCOI classification - Kiribati 2019 HIES

Title	PACCOI classification - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01

Country	Kiribati
Language	English
Description	This file is the PACCOI (Pacific Classification of Income) classification of the 2019-2020 Household Income and Expenditure Survey (HIES) of Kiribati. It contains all the income-related codes and descriptions present in the dataset.
Filename	Kiribati 2020 HIES PACCOI.xlsx
Format	Document, Microsoft Excel [application/msexcel]

## ISIC and ISCO classifications - Kiribati 2019 HIES

Title	ISIC and ISCO classifications - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01
Country	Kiribati
Language	English
Description	This file is the ISIC (International Standard Industrial Classification) and ISCO (International Standard Classification of Occupations) classifications of the 2019-2020 Household Income and Expenditure Survey of Kiribati. It contains all the codes and descriptions relating to economic activities present in the dataset.
Filename	KI_ISIC and ISCO.xlsx
Format	Document, Microsoft Excel [application/msexcel]

## Field Staff Manual - Kiribati 2019 HIES

Title	Field Staff Manual - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-05-01
Country	Kiribati
Language	English
Description	This file is the "Field Staff Manual" of the 2019-2020 Household Income and Expenditure Survey of Kiribati. It provides interviewers with useful information on how to successfully interview households.
Filename	KIR_2019-20_HIES_fieldStaffManual.pdf
Format	Document, PDF [application/pdf]

## Fieldwork Schedule - Kiribati 2019 HIES

Title	Fieldwork Schedule - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2020-10-26
Country	Kiribati
Language	English
Description	This file is the final fieldwork schedule of the 2019-2020 Household Income and Expenditure Survey (HIES) of Kiribati. It provides information on the schedule of rounds and fieldwork preparation.
Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Kiribati/SPC_KIR_2019_HIES_v01_M/Doc/Technical/Fieldwork Schedule - Final.xlsx
Format	Document, Microsoft Excel [application/msexcel]

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Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Kiribati/SPC_KIR_2019_HIES_v01_M/Doc/Technical/Classifications/Kiribati 2020 HIES COICOP.xlsx
Format	Document, Microsoft Excel [application/msexcel]

## PACCOI classification - Kiribati 2019 HIES

Title	PACCOI classification - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01
Country	Kiribati
Language	English
Description	This file is the PACCOI (Pacific Classification of Income) classification of the 2019-2020 Household Income and Expenditure Survey (HIES) of Kiribati. It contains all the income-related codes and descriptions present in the dataset.
Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Kiribati/SPC_KIR_2019_HIES_v01_M/Doc/Technical/Classifications/Kiribati 2020 HIES PACCOI.xlsx
Format	Document, Microsoft Excel [application/msexcel]

## ISIC and ISCO classifications - Kiribati 2019 HIES

Title	ISIC and ISCO classifications - Kiribati 2019 HIES
Author(s)	Kiribati National Statistics Office
Date	2019-01-01
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Format	Document, Microsoft Excel [application/msexcel]

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Format	Document, PDF [application/pdf]