



KIRIBATI – POPULATION AND HOUSING CENSUS 2020 - AGRICULTURE AND FISHERIES MODULE – METADATA REVIEW

1. Historical outline

The Population and Housing Census (PHC) is a major activity by the Kiribati National Statistics Office (NSO) carried out every five years since 1985. The PHC 2020, to which this metadata and data refer, was the seventh PHC since it was first administered by a local Census Commissioner and the 14th since the first census in 1931. Regarding agricultural data, a module was integrated in the PHC 2020. Previous agricultural censuses were carried out prior to the independence of the country in 1929/1930, 1950 and 1970.

2. Legal basis and organization

Legal framework

The activities undertaken by the NSO are governed by the Statistics Act Cap. 96 of 1997. Preparatory activities began with the formalization of the Census Commissioner by a Census Order of 2020 in accordance with the Census Act Cap. 8 by the Attorney General's office and signed by the Minister and the Secretary to Cabinet.

Institutional framework and international collaboration

The PHC 2020 was organized and conducted by the NSO. The administration of the census was carried out by the Census Commissioner with the assistance and guidance of a Steering Committee, made up of seven members from relevant bodies related to census activities. Meetings were held at the beginning of pre-enumeration activities and continued after the enumeration. UNFPA provided technical assistance, and the PHC was funded by the Government of Kiribati and the New Zealand Foreign Affairs and Trade. The Pacific Community (SPC) assisted with the development of the electronic questionnaire, training for the main fieldwork, data collection in the field using Computer Assisted Personal Interview (CAPI) technology, data processing, and the census tabulations. SPC and FAO supported the inclusion of the agricultural module in the PHC, and the latter assisted and funded the Agriculture and Fisheries Report.

Census staff

The Census workforce comprised 462 enumerators, 153 supervisors, 14 headquarters staff, 13 validators, and occupation and industry coders, one senior accountant, one assistant accountant, two demographers, and two IT staff who worked on the maps, the editing, and the data documentation and analysis.

3. Reference date and period

Reference day: 7 November 2020, for demographic characteristics of the households, and number of livestock items.

Reference period: from 8 November 2019 to 7 November 2020, for temporary and permanent crops, household members' fishing and seafood gathering, and handicraft activities.

4. Enumeration period

The PHC enumeration fieldwork was conducted for three weeks in November 2020, starting on 7 November 2020. Data collection was not affected by the COVID-19 pandemic as the country was virus free at the time of the enumeration. However, has had impact on the census budget, created challenges for the delivery of technical assistance, travel and training of enumerators in outer islands.

5. Scope of the census and definition of the statistical unit

The **census scope** of the agricultural module covered subsectors of agriculture in which households were engaged, including crop production activities and livestock rearing. Information on fishery activities and handicraft production of households was also collected.

The **statistical unit** in the PHC 2020 was the household, covering private households and institutions. The latter included hospitals, boarding schools, prisons, *Maneabas* used by the Ministry of Health and Medical Services to accommodate patients waiting for transfer to outer island, etc.

Community-level data

There were no community-level data collected along with the census.

6. Census coverage

Geographic coverage

The PCH 2020 covered the entire country.

Cut-off threshold and other exclusions

No threshold was applied in the PHC.

7. Methodology

Methodological modality for conducting the census

Agricultural-related data were collected by including an agricultural module in the PHC 2020.

Relation to other censuses

Agricultural module was integrated in the PHC 2020.

Frames

For the PHC 2020, the frame was built based on a household listing that began in March 2020 and was delayed due to the measles outbreak and the start of the COVID-19 pandemic. Listing activities included map demarcation and EA boundary delineation. Also, GPS was used to record the geographic position of households.

Complete or/and sample enumeration methods

The PCH 2020 was based on the complete enumeration of all households identified during the census enumeration.

Sample design

Not applicable.

Data collection methods

All data collection was carried out by face-to-face interviews using CAPI method (tablets).

Questionnaire(s) and items covered

One questionnaire was used in the PHC 2020, which included the agricultural module. The questionnaire covered 10 out of 23 essential items¹ recommended in the WCA 2020.

8. Use of technology

The CAPI (tablets) method was used for data collection. GPS devices were used for georeferencing the households. Census results were disseminated and are accessible online.

9. Data processing

Direct data capture was ensured by the CAPI method using Android tablets and Survey Solutions software. Most of the editing was carried out on the field. Data was edited and cleaned using Stata version 15, which was also used for data analysis together with CPro 6.6. Editing and finalization of

¹ The following essential items were not covered: (i) 0201 Total area of holding; (ii) 0202 Area of holding according to land use types; (iii) 0203 Area of holding according to land tenure types; (iv) 0302 Area of land actually irrigated: fully controlled and partially controlled irrigation; (v) 0402 Area of temporary crops harvested (for each temporary crop type); (vi) 0406 Area of productive and non-productive permanent crops in compact plantations (for each permanent crop type); (vii) 0407 Number of permanent crop trees in scattered plantings (for each tree crop); (viii) 0411 Use of each type of fertilizer; (ix) 0501 Type of livestock system; (x) 0503 Number of female breeding animals; (xi) 0601 Use of agricultural pesticides; (xii) 0903 Number and working time of employees on the holding by sex; and (xiii) 1201 Presence of aquaculture on the holding.

data was done in SPC. This was a collaborative work by both SPC and NSO, but the quality was assured by SPC technical staff and a demographer.

10. Quality assurance

The questionnaire was designed by NSO with the contribution from stakeholders consisting of representatives from ministries, state-owned enterprises, non-government organizations, and non-profit institutions. A pilot census was conducted to test the questionnaire, the CAPI signals for synchronizing data, and the approach to respondents. After the pilot census, adjustments were made to the questionnaire. During data collection, the geographical position via GPS helped monitor households being skipped or recorded as out of bounds of the EA. Three levels of monitoring took place, i.e., supervisors on the field, data validators in the NSO office, staff from NSO headquarters, and monitors from the Server at headquarters both in NSO and at SPC to monitor using the Dashboard of Survey Solutions. The Dashboard could be seen, simultaneously, by the NSO in Kiribati and by SPC during the days of the enumeration. Quality assurance was the main objective in the cleaning of data and was completed and finalized as a public dataset on 6 April 2021 available at <https://nso.gov.ki/census/kiribati-2020-2021-population-and-housing-census-data/>.

11. Data and metadata archiving

Data and metadata are available on the Pacific Community website (<https://microdata.pacificdata.org/index.php/catalog/767>) and the NSO website (<https://nso.gov.ki/census/kiribati-2020-2021-population-and-housing-census-data/>)

12. Data reconciliation

There was no reconciliation process of PHC 2020 data.

13. Dissemination of census results and microdata

Provisional results of the PHC 2020 were published on 22 December 2020. The PHC 2020 General Report and Results was released in July 2021 and is also available on the NSO webpage (<https://nso.gov.ki/census/kiribati-2020-2021-population-and-housing-census-data/>). Census methodology and results were also disseminated on the Pacific Community website (<https://microdata.pacificdata.org/index.php/catalog/767>). An Agriculture and Fisheries Report was published in November 2022 and is available at <https://nso.gov.ki/census/kiribati-agriculture-and-fisheries-report-based-on-2020-census/>. Microdata was published following Pacific Data Hub policy.

14. Data sources

Pacific Community. 2022. *Population and Housing Census 2020: Kiribati*. [online]. [Cited 1 March 2022]. <https://microdata.pacificdata.org/index.php/catalog/767>

Kiribati National Statistics Office (NSO). 2021. *Kiribati 2020-2021 Population and Housing Census data*. In: NSO [online]. [Cited 1 March 2022]. Bairiki/Tarawa, Kiribati. <https://nso.gov.ki/census/kiribati-2020-2021-population-and-housing-census-data/>

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