Rwanda - Integrated Household Living Conditions Survey 2000-2001

NISR (National Institute of Statistics, Rwanda) - Government of Rwanda

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Overview

Identification

ID NUMBER RWA-NISR-EICV-2001-v1.1

Version

VERSION DESCRIPTION Vesion 1.0 Edited, anonymous dataset for public distribution.

PRODUCTION DATE 2001-06-07

NOTES

Note: An original version of the DDI was done after the survey and hosted on a NESSTAR server. Over the course of the evolution of the NISR the server license was dropped and the survey metadata stored on a CDROM. The original version of the documentation has since been distributed. This version was recreated.

Overview

ABSTRACT

The HLCS, with an expanded budgets and consumption module, was primarily intended to provide policy planners and decision-makers with basic data on household living standards in Rwanda.

In addition, the survey was to be used to:

- Calculate weights for the Consumer Price Index and estimate final household consumption,

- measure the effect of macro-economic policies and projects on the conditions and living

standards of the population,

- produce key indicators of household welfare in order to assist policy-makers and development

partners to improve the design of their development strategy,

- identify policy target groups with a view to ensuring that state interventions are better targeted.

- provide information on the socio-economic characteristics of households with a view to setting

up a socio-economic data base.

- carry out in-depth studies, for example on poverty, nutrition, housing conditions, etc,

- improve the national capability to conduct statistical surveys, however complex they may be.

KIND OF DATA Sample survey data [ssd]

UNITS OF ANALYSIS Household Person

Commodity (for GDP computation)

Scope

NOTES

The information gathered during the survey will be used primarily to provide information on assorted household and personal level characteristics which can be analyzed vis a vis the household's consumption. The primary household and person characteristics that are gathered in this survey in order to provide relevant indicators are:

-School attendance and literacy. This includes information to compute net and gross enrollment rates

-Health and fertility. Some indicators such as maternal mortality are outside the scope of the survey. In this case, a more appropriate survey like the DHS may be recommended

-Migration

-Employment and economic activity.

-Land ownership and other agricultural based indicators.

The survey is also designed to provide important information for the computation of National Accounts and rebasing the Consumer Price Index.

TOPICS

Торіс	Vocabulary	URI
ECONOMICS [1]	CESSDA	http://www.nesstar.org/rdf/common
EDUCATION [6]	CESSDA	http://www.nesstar.org/rdf/common
HEALTH [8]	CESSDA	http://www.nesstar.org/rdf/common
DEMOGRAPHY AND POPULATION [14]	CESSDA	http://www.nesstar.org/rdf/common

Coverage

GEOGRAPHIC COVERAGE

Complete national coverage which included all 11 former provinces (now 5 major provinces) and the City of Kigali.

GEOGRAPHIC UNIT cell level

UNIVERSE Household members (institutional and itinerant populations excluded)

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
NISR (National Institute of Statistics, Rwanda)	Government of Rwanda

Name	Abbreviation	Role
Department for Intenational Development	DFID	Bilateral funding assistance
World Bank	WB	Financial assistance
United Nations for the Children	UNICEF	Financial assistance
United Nations for Development Program	UNDP	Financial assistance
African Developmennt Bank	ADB	Financial assistance

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Oxford Policy Management	DFID	International Technical Assistance
MINECOFIN	Government of Rwanda	Primary user of data (EDPRS)

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
National Institute of Statistics of Rwanda	NISR	Ministry of Finance	Data and metadata producer and deposit
Department of International Development	DFID	British Government	Provided technical assistance for archiving the data set
Ruben MUHAYITETO		NISR	Revision of DDI

DATE OF METADATA PRODUCTION 2012-06-17

DDI DOCUMENT VERSION Version 1.0 (June 2012)

Version 1.1 (June 2016)

DDI DOCUMENT ID DDI-RWA-NISR-EICV-2001-v1.1

Sampling

Sampling Procedure

The sampling plan was drawn up with the technical support of the late Christopher SCOTT, Survey Consultant, during his mission in July 1997.

Constraints

The two main factors considered in designing the sampling plan were:

- the objectives of the survey,

- the fieldwork methodology given the available logistical resources.

For the survey one objective was determinant: the Government wanted statistically reliable results at the level of each province, Kigali city and the "other urban sector". Thus, the objective called for 13 domain of analysis. Experience of conducting this type of survey shows that a minimum sample of 500 households per domain of study is required for sound analyses.

Sample size

The sample size was therefore 6,450 households, with 1,170 households for urban areas and 5,280 households for rural areas.

Two stage sampling A two stage stratified sample was used: sampling at area level and at household level.

Sampling base

*At the area level, the chosen sampling base (or at the enumeration district) was the "cellule" in the rural areas and the zone in urban areas, since they are usually fairly homogeneous in size and are well demarcated.

Knowledge of the size of each cellule enabled the use of the classical method of sampling with probability proportional to size at the first stage. A list of all cellules including estimates of the number of households in each was compiled from information provided by the local authorities.

*For sampling at the household level, an up-dated list of households was prepared for each of the selected first stage cellule by carrying out a listing in each sampled cellule simultaneously but with a lag in data collection before or while collecting the data. Part of this operation was carried out in collaboration with the National Population Office (ONAPO) and the Food Security Research Project (FSRP) of MINAGRI.

Weighting

In order for the estimates from each survey to be representative at the national level, it is necessary to apply sampling weights to the survey data. The weights for the sample households were calculated as the inverse of the overall probability of selection, taking into account each sampling stage. Given the nature of the sample design and the new listing of households, the weights vary by sample ZD. An Excel spreadsheet with all the sampling frame information for the sample ZDs was used for calculating the weights, which were then attached to the corresponding records in the survey data files.

WEIGHTING

There are two kinds of weighting: spatial weighting and temporal weighting. Use of these methods enabled annual estimates to be obtained for the whole of the Rwandan population.

* Spatial weighting

Spatial weighting enables results relating to the sample to be extrapolated for the whole of the population for the same

period. It was calculated using the inverse of the overall probability of selection of a particular household. The details of the theory for calculating the various probabilities

are shown in Annex I.Starting from the overall probability formula $Fhi=p1hi \times p2hi$ where p1hi is the probability proportional to size of drawing cellule i in stratum h and p2hi is the conditional probability of drawing a household knowing that unit i of stratum h has been selected. The numbers 1 and 2 indicate the stage or level of sampling.Spatial weighting is given by the formula Whi=1/Fhi=Mhi/ahbhi where Mhi is the total number of households in unit i of stratum h

and ah is the number of sample units in stratum h and bhi is the number of households surveyed in unit i of stratum h .

*Temporal weighting

Temporal weighting is intended to produce annual estimates of values relating to the survey period. Thus, the temporal weighting coefficient depends on the length of the collection period. By using CPTmj to designate the coefficient of temporal weighting of the variable ymj for household m, and Jmj to designate the number of collection days Ymj=CPTmj x ymj or CPTmj=365/Jmj

Ymi being the annual value of the variable ymj for household m.

Questionnaires

Overview

The questionnaires is published in french

Three types of questionnaire were used in the field for data collection:

- the household questionnaire comprising of 12 modules divided in two parts, A and B.
- the community questionnaire for collecting data on economic and social infrastructures in the sample units in rural areas and

- a conversion form for non-standard units used by households.

Household questionnaires

Part A collects data on each member of the household. It covered the following areas:

- demographic and migration characteristics,
- education and health,
- employment and housing.

Part B deals with the economic activity of the household. It comprises of the following five modules:

- agro-pastoral activities and own-produce consumption,
- household expenditure,
- non-agricultural economic activities,
- transfers,
- durable goods, access to credit and savings.

Data Collection

Data Collection Dates

Start	End	Cycle
1999-10-24	2000-12-24	10

Time Periods

Start	End	Cycle
1999-10-24	2001-07-19	10

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

Reference period

The long and complex nature of the questionnaire was a determining factor in distributing the work over time. In effect, two of the modules comprise a long list of questions on products purchased and consumed. For frequently-consumed products, those answering the survey may have difficulty in remembering activities that took place more than three days previously.For the reference period, a period of 30 days was preferred in urban areas, in order to ensure that payday effect was included for each wage earner.

In rural areas, where wage earners are rare, it is less important to maintain the 30-day reference period. Thus, the reference period was brought down to 16 days.

Field interviews

The calendar year was divided into ten cycles and interviews were conducted all through the year. In urban areas, the first collection cycle began on 24 October 1999 and the last collection cycle ended on 24 December 2000.In rural areas, collection began on 19 July 2000 and ended on 10 July 2001.

Visits to households

Within each cycle, data collection was organised into a number of visits to households:

- in urban areas, 11 visits at 3-day intervals,

- in rural areas, 8 visits at 2-day intervals.

At each visit, certain modules of the questionnaire had to be completed.

In urban areas, households to be surveyed were divided into three lots and interviews were held on the following days:

Lot Interview days

1 1 4 7 10 13 16 19 22 25 28 31 2 2 5 8 11 14 17 20 23 26 29 32 3 3 6 9 12 15 18 21 24 27 30 33

In rural areas, interviews were held according to the following programme of visits:

Lot Interview days 1 1 3 5 7 9 11 13 15 2 2 4 6 8 10 12 14 16

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Data Collectors

Name	Abbreviation	Affiliation
National Institute of Statistics, Rwanda	NISR	Government of Rwanda

Supervision

Field staff

Collection teams

Thirteen teams were assigned to the various provinces and, of those, three teams were assigned to urban areas. Each team was composed of:

- 1 area supervisor
- 1 controller
- 5 interviewers.

Training

Training of approximately 5 weeks was organised for all staff. It comprised a theoretical component delivered in the classroom and a practical component in the field in order to practise how to conduct interviews.

Data Processing

Data Editing

Data Editing (see external resource entilted: Final Data Processing Report)

Questionnaires were reviewd by the controller in the field before they were dispatched for data entry. A control sheet was provided to the contollers to assist in the process of manually editing the questionnaires. Questionnaire structures were verified when the questionnaires were checked in prior to data entry. Three contracted persons reviewed the questionnaire and filled in a form that served as a primary data control sheet. Automated data editing was largely done during the data entry phase (see "Other Data Processing" for details). Some batch edit programs were used to identify inconsistent data.

Data Imputation

Data iimputation was largely done during the analysis phase by analysts. However, a "structural" imputation on the microdata was required for the own consumption data. This was done to adjust for erroneous pricing when the unit for measuring own consumption was buckets. For more information, please refer to the SPSS su=yntax files orthe data processing report.

Primary Data Issues

Coding of products was based on sequential codes for each section.

Other Processing

Data processing

In the process of filling in the questionnaires and data entry, various types of error slipped into the data. Controls were carried out on a number of levels: in the field by the controllers and supervisors and at the Statistics Department after data entry.

More detailed checks and controls were carried out after data entry, since the process can itself introduce errors. Data processing is a very important stage in a survey. This often-neglected phase is the cause of delays in the publication of the results.

In addition to corrections made at the time of data entry, data processing goes through the following 6 main stages:

- Exhaustivity control

This involved checking the use of identical geographical codes in various data files and verification that questionnaires had not been entred more than once or omitted.

- Consistency between variables

With the aid of absolute frequency tables, verification is made whether eligible respondents for all the questions replied and whether those not eligible did not in effect reply.

- Standardisation

Some quantitative variables were aggregated over the year before validation. Variables arising from local measurements were converted to the conventional measurement system.

- Re-coding

Certain continuous quantitative variables were divided into classes:

- Creation of derived variables

This involved variables (which are derived from other variables.) not in the questionnaire or the data dictionary

- Imputation of values

During processing, extreme values were encountered for some variables. These were confined to values that deviated more than three standard deviations from the mean. After verification, they were replaced by the mean value of the variable. IT programmes

A number of programming software and languages were used from capturing the data to preparing tables of results, inter alia IMPS, CS PRO, MS ACCESS, Visual Basic and COBOL, SPSS.

Data Appraisal

Estimates of Sampling Error

Given that the survey estimates are subject to sampling variability, it is important to calculate the sampling errors for the most important estimates from each survey. The sampling error is measured by the standard error, or square root of the variance of the estimate. The CENVAR software, a component of the Integrated Microcomputer Processing System (IMPS) developed by the U.S. Census Bureau, was used for tabulating the standard errors and other measures of precision, taking into account the stratification and clustering in the sample design. The CENVAR output tables show the value of the estimates, standard errors, coefficients of variation, 95 percent confidence intervals, design effects and number of observations. Given that the confidence intervals provide a user-friendly interpretation of the sampling variability, an annex was produced with tables showing the 95 percent confidence intervals for the most important estimates from the EICV1 and EICV2 estimates is statistically significant.

The INSR was also provided with tables showing the full CENVAR results. The design effect is defined as the variance of an estimate based on the actual sample design divided by the corresponding variance based on a simple random sample of the same size; it is a measure of the relative efficiency of the sample design. In comparing the CENVAR results from EICV1 and EICV2, it was found that the design effects are generally lower for EICV2, indicating that the stratification used for this survey was very effective. Given that the EICV1 was based on an older sampling frame from the 1991 Rwanda Census, this also contributed to the higher design effects for the EICV1 estimates.

File Description

Variable List

Rwanda - Integrated Household Living Conditions Survey 2000-2001

Documentation

Questionnaires

Questionnaire EICV 2001

Title	Questionnaire EICV 2001
Author(s)	National Institute of Statistics of Rwanda
Country	rwanda
Language	French
Contributor(s)	National Institute of Statistics of Rwanda
Publisher(s)	National Institute of Statistics of Rwanda
Filename	DOC/Questionnaire EICV1.pdf

Integrated Household Living Condition Survey in Rwanda(2000-2001)

Title	Integrated Household Living Condition Survey in Rwanda(2000-2001)
Author(s)	National institute of Statistics of Rwanda
Date	2002-09-01
Country	Rwanda
Language	English
Contributor(s)	The Household Living Conditions Survey was conducted by the Department of Statistics of the Ministry of Finance and Economic Planning (MINECOFIN) with the joint financial assistance of the World Bank, UNICEF, the UNDP, the ADB and the DFID. We offer our
Publisher(s)	National institute of statisticcs of Rwanda
Description	v0.1: Edited data, final version for both internal and external use

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Filename	DOC/Eicv 2001 Final Report 0.pdf	
inclume	pooleiet_zoot_inid_ieboic_obdi	