Rwanda - Rwanda Labor Force Survey

National Institute of Statistics of Rwanda - Ministry of Finance and Economic Planning

Report generated on: September 27, 2018

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Overview

Identification

ID NUMBER
RWA-NISR-RLFS-2017-v0.1

Version

VERSION DESCRIPTION
Edited, anonymous dataset for public distribution.

PRODUCTION DATE
2017-10-01

NOTES
This is the first version of the data description

Overview

ABSTRACT
The National Institute of Statistics of Rwanda (NISR) introduced the Labour Force Survey (LFS) program to avail statistics on employment and labour market in Rwanda on a continuous basis, providing bi-annual estimates of the main labour force aggregates. The main objective of the survey is to collect data on the size and characteristics of the labour force, employment, unemployment and other labour market characteristics of the population. The survey was also designed to measure different forms of work, in particular, own-use production work and other components of labour underutilization including time-related underemployment and potential labour force in line with the new international standards, adopted by the 19th International Conference of Labour Statisticians (ICLS) in 2013.

KIND OF DATA
Sample survey data [ssd]

UNITS OF ANALYSIS
Basic units of analyisis were individuals and households.

Scope

NOTES
The Labor force survey 2017 covered the size and characteristics of the labour force, employment, unemployment and other labour market characteristics of the population. The survey was also designed to measure different forms of work, in particular, own-use production work and other components of labour underutilization.

KEYWORDS
Labor Force, Employment, Unemployment

Coverage

GEOGRAPHIC COVERAGE
Labor force survey data are at the National level coverage

UNIVERSE
The target population eligible for Labor force survey is 16 years old and above resident in selected households. However, the survey also collected data on certain particular labour-market related issues such as working children 5 to 17 years old, income from employment, migrant workers and workers with disabilities.

It is important to note that the suirvey is limited to persons living in private households. It excludes the institutional population permanently residing in houses such as hostels; health resorts; correctional establishments etc., as well as persons living in seasonal dwellings not covered in the survey. It also excludes workers living at their work-sites. A household is a group of persons who live together and make common provision for food and other essentials for living. The people in the group may be related or unrelated or a combination of both. A household may consist of only one person or several persons.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
National Institute of Statistics of Rwanda	Ministry of Finance and Economic Planning

OTHER PRODUCER(S)

Name	Affiliation	Role
Ministry of Public Servuce and Labor	GoR	Technical Partner

FUNDING

Name	Abbreviation	Role
Government of Rwanda	GoR	Funding
World Bank	WB	Funding

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
National Institute of Statistics of Rwanda	NISR	MINECOFIN	Study documentation

DATE OF METADATA PRODUCTION
2018-09-26

DDI DOCUMENT VERSION
V0.1

DDI DOCUMENT ID
RWA-NISR-LFS-2017-v0.1

Sampling

Sampling Procedure

The sample design of the Labor force survey is a two-stage stratified design according to which at the first stage of sampling, a stratified sample of enumeration areas from the latest population census is drawn with probabilities proportional to size measured in terms of the census number of households or census number of household members, and at the second stage of sampling, a fixed number of sample of households is selected with equal probability within each sample enumeration areas. Finally, all household members in the sample households are selected for survey interviewing.

The application of this principle leads to a sample size requirement of 18,691 households for measuring annual unemployment with margin of errors of +/- 0.3% at 95% confidence level. In these calculations, the main indicator is the ratio of unemployment to the working age population, set at r=0.024 according to the 2012 population census of Rwanda. The design effect (deff) is set at 3, within the range of values (3 to 4) generally used for labour force surveys. The margin of errors (ME = 0.0026) is twice the standard error of the estimate.20Similar calculations for employment gave a sample size requirement of 18,792 households. Because the sample size should be a multiple of 2x4x16 for two survey rounds per year, four rotation groups per round and 16 sample households per Primary Sampling Unit (PSU), the required annual sample size has been rounded to 18688 households. For the August 2017 round, the sample size was therefore set at Sample size of LFS August 2017 = 18688/2 = 9344 households.

The next step in sample design was the selection of the 584 sample enumeration areas. The sample was drawn in each district by probability proportional to size (pps) from the sampling frame. In practice, the sample of enumeration areas was selected from the start for an entire sequence of 18 survey rounds from August 2016 to August 2023 when in principle a new sampling frame constructed on the basis of the next population and housing census will become available. The selected sample was then assigned randomly to 18 rotation groups. Sample enumeration areas in rotation groups R1 to R4 formed the sample for LFS August 2016. The sample of enumeration areas assigned to rotation groups R3 to R6 were used for LFS August 2017. The sample enumeration areas assigned to R4 to R7 will be used for LFS February 2018, and so on. The same process will continue on each round with the addition of one rotation group per round. The sample enumeration areas were freshly listed prior to selection of the final sample of households. According to the sample design, 16 sample households were selected from the list of households in each sample enumeration area by systematic sampling with equal probability. If the list contained 16 households or less all households in the sample enumeration area were drawn in the sample. If the list contained more than 16 households, a sample of fixed size (16 households) was drawn from the list by systematic random sampling.
Regarding the sample weights, three steps were involved in the calculation of the sample weights are: Calculation of the design weight, Adjustment for non-response; and Calibration to known population projections

Response Rate

The response rate for labor force survey 2017 is 98.4%

Weighting

The data was weighted and benchmarked to the Rwanda labor force survey 2017.

Questionnaires

Overview

The questionnaire was drafted in English and translated into Kinyarwanda. An instruction manual was developed in order to guide the enumerators how to use better the questionnaire and conduct interviews.

The questionnaire had the following sections:

- A Household roster including activities of children aged 5 to 13 years old
- Education
- Identification of employed, time-related underemployed,
- unemployed and potential labour force
- Characteristics of main job/activity
- Characteristics of secondary job/activity
- Past employment
- Own-use production of goods and services
- Subsistence foodstuff production
- Housing and household assets

Data Collection

Data Collection Dates

Start	**End**	**Cycle**
2017-08-07	2017-10-06	LFS August 2017

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

The main pre-survey activities conducted in preparation for the field operations included the establishment of the field organization, the recruitment and training of interviewers and the preparation and printing of the survey documents including maps of the sample enumeration areas, the listing forms, the survey questionnaire and interviewers' instructions.

Questionnaires

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Data Collectors

Name	Abbreviation	Affiliation
National Institute of Statistics of Rwanda	NISR	Ministry of Finance and Economic Planning

Supervision

The field work consisted of 3 coordinators, coordinating the work of 10 supervisors, 24 team leaders and 96 interviewers. In many occasions the team leaders and field editors conducted also survey interviews. So altogether the survey interviewing was carried out by a total of 120 interviewers.

To complement and verify these quality control measures, NISR and MIFOTRA conducted independent field visits to verify field teams' implementation of the survey methodology and the interviewing process. Spot checks were also carried out on a number of completed questionnaires to assess completeness and logical consistency of interview data.

Data Processing

Data Editing

Since August 2017 an electronic data collection system has replaced paper based questionnaire and data were collected using computerized assisted interview (CAPI). Data was uploaded to NISR main office from field via wireless network channel by synchronizing every day with the NISR server. It was carried every day to have a daily back up of data. All the activity of codification were also done to the field by interviewers who were trained. Several questions with textual responses were precoded in tabled in cascaded way. These concerned education (major field of study in highest qualification attained, and subject of training), occupation and branch of economic activity (at main and secondary job and past employment experience). They were coded into the corresponding national standard classifications using on-screen coding with corresponding dictionaries in Kinyarwanda.26 Coding of geographic areas and addresses was incorporated in the data entry programme as look-up. Following coding, responses of each questionnaire were edited for blanks, missing values, duplicates, out-of-range values, and inconsistencies such as no head of household or age of child greater than age of head of household using developed batches of controlling inconsistence in CsPro and Stata. Editing specifications on coverage and demographic characteristics were based on the population and housing census (PHC4 2012). Other edit rules were developed for consistency checks on questions related to the measurement of the main labour force variables, including employment, unemployment, multiple jobholding, total hours usually worked at all jobs, total hours actually worked at all jobs, status in employment at main job, etc. Corrections were made mostly with reference to the original physical questionnaire.

Data Appraisal

No content available

Documentation

Questionnaires

Labor Force Survey Questionnaire

Title	Labor Force Survey Questionnaire
Author(s)	National Institute of Statistics of Rwanda
Date	2016-03-01
Country	Rwanda
Language	Estonian
Contributor(s)	Ministry of Public Service and Labor
Publisher(s)	National Institute of Statistics of Rwanda
Description	This is the questionnaire for labor force survey 2017
Filename	Questionnaire/q-lfs-2017-eng.xls

Reports

Rwanda Labor Force Survey report-August 2017

Title	Rwanda Labor Force Survey report-August 2017
Author(s)	National Institute of Statistics of Rwanda
Date	2018-05-01
Country	Rwanda
Language	English
Publisher(s)	National Institute of Statistics of Rwanda
Description	This is the report for Rwanda labor force survey, August 2017. The report also contains survey methodologies

Table of contents	
Filename	Report/rwa-nisr-lfs-August 2017-report.pdf

Rwanda Labor Force Survey report-August 2017

Title	Rwanda Labor Force Survey report-August 2017
Author(s)	National institute of Statistics of Rwanda
Date	2018-05-01
Country	Rwanda
Language	English
Publisher(s)	National institute of Statistics of Rwanda
Description	This is the report for Rwanda labor force survey,february 2017. The report also contains survey methodologies

Table of Contents

Table of contents

Filename   Report/rwa-nisr-lfs-Feb 2017-report.pdf