

Rwanda - Rwanda Season Agriculture Survey 2021

National Institute of Statistics of Rwanda

Report generated on: October 30, 2023

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Identification

SURVEY ID NUMBER

RWA_2021_RSAS_v01_EN_M_v01_A_OCS

TITLE

Rwanda Season Agriculture Survey 2021

COUNTRY

Name	Country code
Rwanda	RWA

STUDY TYPE

Agricultural Survey [ag/oth]

ABSTRACT

The main objective of the Seasonal Agricultural Survey is to provide timely, accurate, reliable, and comprehensive agricultural statistics that describe the structure of agriculture in Rwanda mainly in terms of land use, crop area, yield, and crop production to monitor current agricultural and food supply conditions and to facilitate evidence-based decision making for the development of the agricultural sector.

The National Institute of Statistics of Rwanda (NISR) has been conducting seasonal agricultural surveys since 2012 for the estimation of the national agricultural crop area and production estimates. In the 2020/2021 agricultural year, the NISR conducted Seasonal Agricultural Survey (SAS) covering the three agricultural seasons. The SAS provides information used as a tool to assist in addressing key agricultural issues and information needs that will inform policymakers and other stakeholders and allow more effective identification of priority intervention needs.

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Agricultural holdings

Scope

NOTES

The scope of the survey concerned farm characteristics (Land use, Crop land, Crop production, Crop yield, Use of inputs and Agricultural practices).

Coverage

GEOGRAPHIC COVERAGE

National Coverage

Producers and sponsors

PRIMARY INVESTIGATORS

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

PRODUCERS

Name	Affiliation	Role
National Institute of Statistics of Rwanda	Ministry of Finance and Economic Planning	Producer of the Survey

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Government of Rwanda	GoR	Funder of the Survey

Sampling

SAMPLING PROCEDURE

Out of 5 defined agricultural strata, only dominant hill crop land stratum, dominant wetland crops stratum, dominant rangeland stratum and mixed stratum were considered as land potential for agriculture. The remaining stratum is the non-agricultural land. Note that clusters covered by tea plantations were not considered in the area sample frame due to reasons stated above. Thus, RSAS is conducted on 4 above mentioned strata to cover other major crops. In 2021 agricultural year, the total sample used was 1200 segments.

At first stage, 1200 segments were selected and allocated at district level based on the power allocation approach (Bankier, 1988). Sampled segments inside each district were distributed among strata with a proportional-to-area criterion.

At second stage, 25 sample points were systematically selected, following a special distance of 60 meters between points. Sample points are reporting units within each segment, where enumerators go to every point, locate and delineate plots in which the sample points fall, and collect records of land use and related information. The recorded information represents the characteristics of the whole segment which are extrapolated to the stratum level and hence the combination of strata within each district provides district area related statistics.

WEIGHTING

Sampling weights were calculated for each sampled plot in the sampled segment for each stratum.

Data Collection

DATES OF DATA COLLECTION

Start	End
2020-12-02	2021-02-04
2021-05-02	2021-06-30
2021-08-15	2021-09-08

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

Questionnaires

QUESTIONNAIRES

Seasonal Agricultural Survey used two questionnaires:

- 1) Screening Questionnaire: Screening questionnaire is used to collect information on the delineated plot. This information is mainly related to land use, plot area and crop cultivated.
- 2) Plot Questionnaire: Plot questionnaire is used to collect information mainly related to crop production, inputs used (seeds, fertilizers and pesticides), and agricultural practices in the sampled plots.

Data Processing

DATA EDITING

CAPi data collection method allows enumerators to collect and enter data using tablets and send those data to the server at headquarter where data are received by NISR staff, checked for consistency and thereafter transmitted to analysts for tabulation and reporting using STATA Excel software.

Access policy

CONTACTS

Name	Affiliation	Email	URL
National Institute of Statistics of Rwanda	Ministry of Finance and Economic Planning	info@statistics.gov.rw	Link

CONFIDENTIALITY

Confidentiality of respondents is guaranteed by law No. 45/2013 of 16/06/2013 in its article 17, before being granted access to the dataset, all users have to formally agree: 1. To make no copies of any files or portions of files to which s/he is granted access except those authorized by the data depositor. 2. Not to use any technique in an attempt to learn the identity of any person, establishment, or sampling unit not identified on public use data files. 3. To hold in strictest confidence the identification of any establishment or individual that may be inadvertently revealed in any documents or discussion or analysis. Such inadvertent identification revealed in her/his analysis will be immediately brought to the attention of the data.

ACCESS CONDITIONS

1. The data and other materials provided by the National Institute of Statistics of Rwanda will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of the National Institute of Statistics of Rwanda .
2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations.
3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. Any such discovery would immediately be reported to the National Institute of Statistics of Rwanda .
4. No attempt will be made to produce links among datasets provided by the National Institute of Statistics of Rwanda.

CITATION REQUIREMENTS

National Institute of Statistics of Rwanda (NISR). Seasonal Agricultural Survey 2021, December 2021

Metadata production

DDI DOCUMENT ID

DDI_RWA_2021_RSAS_v01_EN_M_v01_A_OCS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
National Institute of Statistics of Rwanda	NISR	Ministry of Finance and Economic Planning	Main producer of the survey
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM

DDI DOCUMENT VERSION

RWA_2021_RSAS_v01_EN_M_v01_A_OCS_v01

Data Dictionary

Data file	Cases	Variables
rwa-sas-seasonA_Crop production	41634	70
rwa-sas-SeasonA_PartIII_Fertilizers_Pesticides	22314	43
rwa-sas-SeasonA_PartIV_Agricultural practice	17342	56
rwa-sas-seasonA_Screening_Agroforestry	30596	12
rwa-sas-seasonA_Screening_Antierosion_land consolidation	33890	13
rwa-sas-seasonA-Screening_crops	52873	21
rwa-sas-seasonB_Crop production	35869	69
rwa-sas-SeasonB_PartIII_Fertilizers_Pesticides	20431	43
rwa-sas-SeasonB_PartIV_Agricultural practice	19333	55
rwa-sas-seasonB_Screening_Agroforestry	30122	12
rwa-sas-seasonB_Screening_Antierosion_land consolidation	36257	13
rwa-sas-seasonB-Screening_crops	49348	21
rwa-sas-seasonC_Crop production	3416	67
rwa-sas-SeasonC_PartIII_Fertilizers_Pesticides	4838	39
rwa-sas-SeasonC_PartIV_Agricultural practice	2779	49
rwa-sas-seasonC_Screening_Agroforestry	5063	12
rwa-sas-seasonC_Screening_Antierosion_land consolidation	5668	13
rwa-sas-seasonC-Screening_crops	10495	19