

Uganda - Annual Agricultural Survey, 2020

Uganda Bureau of Statistics (UBOS)

Report generated on: September 2, 2024

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Identification

SURVEY ID NUMBER

UGA_2020_AAS_v01_EN_M_v01_A_ESS

TITLE

Annual Agricultural Survey, 2020

COUNTRY

Name	Country code
Uganda	UGA

STUDY TYPE

Agricultural Survey [ag/oth]

SERIES INFORMATION

The AAS 2020 survey was conducted with the support of the FAO, as part of the AGRISurvey Program and the 50x2030 Initiative. Both programs promote the adoption of an integrated and modular approach for agricultural surveys, as originally developed under the Global Strategy for the Improvement of Agricultural and Rural Statistics (GSARS).

ABSTRACT

The Annual Agricultural Survey (AAS) is an integrated modular survey aiming to provide high quality and timely data on the performance of the Ugandan agricultural sector, as well as core indicators on crop and livestock for better agricultural policy making. Data collection for the AAS is implemented in two waves, corresponding to the first (January-June) and second (July-December) seasons of the Ugandan agricultural year. For each visit, households in the survey's sample are interviewed twice, during the visit1 period and visit2. This results in a total of two visits during the agricultural year. The data collection activities were delayed by the pandemic. Among information collected with the AAS there is data on: The quantity and value of agricultural production; The access to extension services, market information and agricultural facility; Livestock keeping and animal products production; The socio-demographic characteristics of agricultural household members. The collected data is used to produce a set of tables and indicators for tracking and evaluating the impacts of government and development programs on agriculture, and to compute SDG and CAADP indicators related to food and agriculture. For the main findings from the AAS 2020, see the Executive Summary of the AAS 2020 Report (see external resources/downloads section).

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Agricultural households (i.e. agricultural holdings in the household sector)

Scope

NOTES

The AAS 2020 collects data for an agricultural year (from January to December 2020). In Uganda, the agricultural year consists of two seasons. The first season is from January to June and the second season runs from July to December. Each season, agricultural households (Ag HHs) are interviewed twice: during visits carried out in the post-planting and the post-harvesting periods. The AAS covers the ten agroecological zones, or ZARDIs (Zonal Agricultural Research and Development Institute), in Uganda and the 14 statistical sub-regions. These ZARDIs are characterized by similar climatic conditions, land use and cropping patterns. Below are maps of the sub-regions and ZARDIs. A detailed list of the districts within each ZARDI and sub-region is available in Annex I, Table 1- 1. The AAS 2020 covered only household sector holdings, i.e. agricultural households. The non-household sector holdings will be covered in subsequent years. The survey covered both crop and livestock farming households and collected data on various structural characteristics of the agricultural holding, such as: a. number and size of holding. b. land tenure system. c. demographic and socio-economic characteristics of the household members and non-structural statistics, such as: - crop area, production and disposition. - crop sales and value of crop production. - livestock numbers and livestock production.

TOPICS

Topic	Vocabulary
Agricultural Production	World Bank
Economy	World Bank
Labour	World Bank

KEYWORDS

Keyword
Agricultural production
Crop Yield
Livestock
AGRISurvey
Agricultural practices
Agricultural households

Coverage

GEOGRAPHIC COVERAGE

The AAS is a national survey representative at the regional, sub-regional and zardi level. The National territory has been divided in 10 ZARDIs which are aligned to 10 Agro-ecological zones in Uganda. Each agro-ecological zone includes districts with similar climate, land use and cropping patterns. The following are the 10 Zardis considered for the AAS: Abi: districts included are Arua, Nebbi, Moyo, Adjumani, Koboko, Yumbe, Maracha-Terego and Zombo; Buginyanya: districts included are Sironko, Mbale, Iganga, Jinja, Tororo, Mayuge, Namutumba, Namayingo, Luuka, Kamuli, Kaliro, Buyende, Bugiri, Pallisa, Kibuku, Butaleja, Busia, Budaka, Manafwa, Kween, Kapchorwa, Bulambuli, Bukwo and Bududa; Bulindi: districts included are Hoima, Masindi, Kiryandongo, Kibaale, and Buliisa; Kachwekano: districts included are Kabale, Rukungiri, Kanungu and Kisoro; Mukono: districts included are Mukono, Mpigi, Kayunga, Kalangala, Kampala, Luwero, Masaka, Nakasongola, Mubende, Wakiso, Nakaseke, Buikwe, Buvuma, Mityana, Kiboga, Kyankwanzi, Gombe, Kalungu, Bukomansimbi, Butambala and Lwengo; Ngetta: districts included are Lira, Apac, Dokolo, Lamwo, Nwoya, Agago, Albetong, Amolatar, Kole, Otuke, Oyam, Pader, Kitgum, Amuru and Gulu;

UNIVERSE

Agricultural households (i.e. agricultural holdings in the household sector).

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Uganda Bureau of Statistics (UBOS)	Government of Uganda

PRODUCERS

Name	Affiliation	Role
Food and Agriculture Organization	United Nations	Technical Support

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
US Agency for International Development	USAID	
50x2030 Initiative (www.50x2030.org)	50x2030	Technical and Financial Assistance

Sampling

SAMPLING PROCEDURE

A two-stage sampling design was adopted for the AAS 2020. To increase the efficiency of the sample design, the sampling frame was stratified into 10 ZARDIs. In each stratum, the first stage was the selection of the Primary Sampling Unit (PSU), which is the EA (enumerator area) and the second stage was the selection of the Secondary Sampling Unit (SSU), which are the Ag HHs. The survey covered households cultivating crops and/or raising livestock, including households that were cultivating a few crops or raising a limited number of animals. No minimum threshold on the amount of land cultivated or animals raised was set nor did the survey aim to generate estimates concerning aquaculture, forestry and fisheries. Sample size The survey generated national, regional and sub-regional level estimates. A sample of 593 EAs and an average of 12 Ag HHs were selected from each EA.

RESPONSE RATE

The response rate was about the 94.5 %.

WEIGHTING

Sampling weights are included in each microdata files.

Data Collection

DATES OF DATA COLLECTION

Start	End	Cycle
2020-11-15	2021-02-20	First season - post planting, post-harvest and Second season post planting
2021-03-18	2021-05-06	Second season - Post-harvest and Annual modules

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

SUPERVISION

Data collection for the AAS 2020 was performed by 15 teams constituted by, on average, three enumerators and 1 supervisor. After recruitment, both supervisors and enumerators received two trainings, one on the post-planting (PP) and one on the post-harvesting (PH) questionnaires. During these trainings, the CAPI PP and PH applications to be used for data collection were tested and refined. During the data collection stage, after completing a CAPI interview, enumerators submitted the electronic interview to their supervisors through Survey Solutions. Then, Supervisor checked the quality of data collected and decided on whether accepting or rejecting the completed case. When a supervisor rejected an interview, the interview was sent back to the interviewer tablet in order to be corrected as requested. On the other hand, when the supervisor accepted an interview, this was sent to the headquarters for final validation. This process continued until the quality of collected data was considered as satisfactory.

Questionnaires

QUESTIONNAIRES

The Annual Agricultural Survey (AAS 2020) adopted three main questionnaires: the post-planting (PP), the post-harvest (PH) and the livestock and holding questionnaires. Normally, the PP and PH questionnaires are administered each season, while the livestock and holding questionnaire is administered at the end of the second season and covers the entire agricultural year. Nonetheless, in the AAS 2020, a different survey calendar was adopted due to movement limitations imposed as a result of the COVID-19 pandemic.

Data Processing

DATA EDITING

All the data captured from the field were stored in the cloud with a local backup. Editing and validation was done electronically using STATA software.

Data Appraisal

ESTIMATES OF SAMPLING ERROR

The accuracy of the survey results depends on the sampling and the non-sampling errors. The AAS 2020 had a large enough and representative sample to limit sampling errors. On the other hand, the non-sampling errors, usually errors that arise during data collection, were controlled through thorough training of the data collectors, field supervision by the headquarters team, and a well-developed CAPI programme. The Coefficients of Variations (CVs) and Confidence Intervals (CIs) for selected indicators at national, ZARDI and sub-regional levels are presented in the Annex tables.

Access policy

CONTACTS

Name	Email	URL
Uganda Bureau of Statistics	ubos@ubos.org	Link

CONFIDENTIALITY

The AAS 2020 Second Season microdata has been adequately anonymized before dissemination. Confidentiality of respondents is guaranteed by Article 19 of the Uganda Bureau of Statistics Act, 1998. Before being granted access to the microdata files, all users have to formally agree and sign the UBOS microdata terms of use and conditions for scientific use files.

ACCESS CONDITIONS

The AAS 2020 microdata are disseminated as Scientific Use File (SUF) to accredited users.

CITATION REQUIREMENTS

Uganda Bureau of Statistics. Annual Agricultural Survey (AAS) 2020, Version 1.2 of the scientific use file, provided by the Uganda National Data Archive. <https://microdata.ubos.org:7070>

ACCESS AUTHORITY

Name	Email	URL
Uganda Bureau of Statistics (UBOS)	ubos@ubos.org	Link

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Metadata production

DDI DOCUMENT ID

DDI_UGA_2020_AAS_v01_EN_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Uganda Bureau of Statistics	UBOS		
Food and Agriculture Organization	FAO	United Nations	Technical assistance on microdata documentation

Dissemination and Outreach Team, Statistics Division		Food and Agriculture Organization	Metadata adapted for FAM
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DDI DOCUMENT VERSION

UGA_2020_AAS_v01_EN_M_v01_A_ESS_v01

Data Dictionary

Data file	Cases	Variables
S1_PH_SEC9_TEMP_CROPS	17880	41
S1_PH_SEC10_PERM_CROPS	1779	32
S1_PP_SEC1_V1_COVER_PAGE	7056	9
S1_PP_SEC2_V1_MEMBERS	37406	21
S1_PP_SEC6_PARCELS	11405	13
S1_PP_SEC7_PLOTS	17540	30
S1_PP_SEC8_CROPS	26992	23