

# Uganda - National Livestock Census 2021

**Uganda Bureau of Statistics (UBOS)**

Report generated on: August 1, 2024

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## Identification

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### SURVEY ID NUMBER

UGA-UBOS-NLC-2021-v01

### TITLE

National Livestock Census 2021

### COUNTRY

Name	Country code
Uganda	UGA

### STUDY TYPE

Agricultural Census [ag/census]

### SERIES INFORMATION

The NLC 2021 marked the fourth of the censuses, backed by collaborative efforts between the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF) and Uganda Bureau of Statistics (UBOS).

The first was the Agricultural Census conducted in 1963/65 where livestock data was also collected. The second census which was called the National Census of Agriculture and Livestock was conducted during 1990/91. The National Livestock Census (NLC) 2008 was conducted in February 2008 by the Ministry of Agriculture, Animal Industry and Fisheries in close collaboration with Uganda Bureau of Statistics (UBOS).

### ABSTRACT

The Uganda Bureau of Statistics conducted the National Livestock Census (NLC) 2021 with an overall goal of providing information on the structure and organization of the livestock sector in Uganda. Specifically, the NLC 2021 provides inter alia a frame for livestock sample surveys; statistics on basic characteristics of livestock, farm infrastructure, farm equipment and machinery as well as aspects of the management of agricultural holdings disaggregated by sex. This information is used as benchmark data to validate and improve the reliability of livestock statistics generated from annual surveys and administrative sources.

The long-term objective of the NLC 2021 was to have information on the structure and organization of the livestock sector in Uganda and more specifically, the census was conducted to:

1. Generate statistics on basic characteristics of livestock, farm infrastructure, farm equipment and machinery; and aspects of the management of agricultural holdings disaggregated by sex.
2. Provide a frame for livestock sample surveys.
3. Provide benchmark data which will be used to validate and improve the reliability of livestock statistics generated from annual surveys and administrative sources.
4. Build national capacity for the development of the livestock sector

### KIND OF DATA

Census/enumeration data [cen]

### UNIT OF ANALYSIS

- Households

## Version

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### VERSION DESCRIPTION

- v2.1: Edited, anonymous dataset, prepared for dissemination to authorised secondary users.

### VERSION DATE

2024-03-25

## Scope

### NOTES

The scope of the National Livestock Census 2021 includes:

- HOUSEHOLD and PRIVATE LARGE SCALE AND INSTITUTIONS FARMS: Particulars of household head/holding, production systems, livestock populations, and farm infrastructure, equipment and implements, access to veterinary services, land ownership, land tenure systems, ownership of livestock, labour used and sources of water.

### TOPICS

Topic	Vocabulary
Agriculture & Rural Development	World Bank
Private Sector and Trade	World Bank

### KEYWORDS

Keyword
Livestock and Livestock Production Systems
Cattle, Goats, Sheep, Pigs and Poultry
Rabbits, Donkeys and Camels
Dogs and Cats
Bee Hives and Honey Production
Farm Infrastructure, Equipment and Implants
Zonal Agricultural Research and Development Institute Zonal Agricultural Research and Development Institute Zonal Agricultural Research and Development institute (ZARDI)
Milk Production
Access to veterinary services

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### UNIVERSE

The NLC 2021 enumerated Household-based farms as well as Private Large Scale and Institutional Farms (PLS&IFs) in all the 135 districts of Uganda as of July 2019.

## Producers and sponsors

### PRIMARY INVESTIGATORS

Name	Affiliation
Uganda Bureau of Statistics (UBOS)	Ministry of Finance, Planning and Economic Development

### PRODUCERS

Name	Affiliation	Role
Ministry of Agriculture, Animal Industry and Fisheries	Government of Uganda	Provided technical support

### FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Government of Uganda	GOU	Funding of the census

## OTHER IDENTIFICATIONS/ACKNOWLEDGMENTS

Name	Affiliation	Role
District Local Governments (DLGs)	Ministry of Local Government	Provided enumeration support
Respondents	Community	Provided required information

## Sampling

### SAMPLING PROCEDURE

#### Sampling Frame

The Sampling Frame that was used to select the EAs in the non-cattle corridor was the 2014 National Population and Housing Census (NPHC 2014). The NPHC 2014 contained an Agricultural Module where a sampling frame was formed for censuses/surveys. About Four (4.3) million out of the 7.5 million households enumerated during the NPHC 2014 reported that one or more of their members engaged in an agricultural activity as of September 2014.

#### Sample Size

The statistical unit of enumeration both in the cattle and non-cattle corridor was the livestock-keeping households. The total number of Enumeration Areas covered during the livestock census was 32,163 of which, 23,443 EAs about 73% were in the 559 SubCounties of the cattle corridor where complete enumeration was undertaken. Only 8,720 EAs, representing 27 percent were sampled from the 961 Sub-counties of the non-cattle corridor districts.

#### Sample Design

A two-stage stratified cluster sampling method was used for selection of Livestock-keeping households. In the non-cattle corridor, the first stage sampling units were the sub-counties that were selected with certainty. The second stage sampling units were the Enumeration Areas (EAs). Where an EA was selected, all livestock-keeping households were enumerated. In the cattle corridor, all EAs in all Sub-counties (in the case of districts), or Divisions (in the case of Municipalities), were covered through a complete enumeration.

### RESPONSE RATE

Overall, the NLC 2021 targeted 32,163 EAs and 31,195 EAs were covered constituting a coverage rate of 97 percent. The response rate based on the expected number of households reported in National Population and Housing Census 2014 was 69 percent.

## Data Collection

### DATES OF DATA COLLECTION

Start	End
2021-05-24	2021-06-04

### DATA COLLECTION MODE

Face-to-face [f2f]

### SUPERVISION

The census was managed by UBOS and MAAIF staff from the planning to execution stages, as well as monitoring of the enumeration activities. The Heads of Production and Marketing in most of the districts and Municipalities supervised the census staff at the district level. They recruited and trained;

- i. Sub-county Supervisors,
- ii. Parish Supervisors and
- iii. Enumerators.

Three levels of training were conducted for the census. The first level of training was at national level for the National Supervisors. At the second level, the National supervisors trained the district and Sub- County supervisors who in turn,

trained the parish supervisors and enumerators at the third level.

#### DATA COLLECTION NOTES

Census enumeration was done using the Paper and Pen Interview (PAPI). Questionnaires were designed following consultations with key stakeholders in the agricultural field and policymakers. Enumerator instruction manuals were developed as guiding documents for the enumerators and supervisors for quality assurance.

#### DATA COLLECTORS

Name	Abbreviation	Affiliation
Uganda Bureau of Statistics	UBOS	Ministry of Finance, Planning and Economic Development

## Questionnaires

#### QUESTIONNAIRES

The questionnaires for the NLC 2021 were structured questionnaires based on the UNHS and UHIS Model Questionnaires with some modifications and additions. A household questionnaire was administered in each household, which collected various information on household head/holding including sex, age, No. of persons in Household, legal status of holding, production systems, livestock populations, and farm infrastructure, equipment and implements, access to veterinary services, land ownership, land tenure systems, ownership of livestock, labour used and sources of water.

All questionnaires and modules are provided as external resources.

## Data Processing

#### DATA EDITING

Data editing took place at a number of stages throughout the processing, including:

- a) Office editing and coding
- b) During data entry
- c) Structure checking and completeness
- d) Secondary editing
- e) Structural checking of Stata data files

Detailed documentation of the editing of data can be found in the "Data Processing Guidelines" document provided as an external resource.

## Data Appraisal

#### ESTIMATES OF SAMPLING ERROR

Estimates from a sample survey are affected by two types of errors: 1) non-sampling errors and 2) sampling errors. Non-sampling errors are the results of mistakes made in the implementation of data collection and data processing. Numerous efforts were made during implementation of the NLC 2021 to minimize this type of error, however, non-sampling errors are impossible to avoid and difficult to evaluate statistically.

## Access policy

#### CONTACTS

Name	Affiliation	Email	URL
Director, Economic Statistics	Uganda Bureau of Statistics	ubos@ubos.org	www.ubos.org

#### CONFIDENTIALITY

Confidentiality of respondents is guaranteed by the provisions of the Uganda Bureau of Statistics Act of 1998. 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 depositor.

#### ACCESS CONDITIONS

The dataset has been anonymized and is available as a Public Use Dataset. It is accessible to all for statistical and research purposes only, under the following terms and conditions:

1. The data and other materials will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement of the UBOS Micro Data Archive.
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 UBOS Micro Data Archive.
4. No attempt will be made to produce links among datasets provided by the UBOS Micro Data Archive, or among data from the UBOS Micro Data Archive and other datasets that could identify individuals or organizations.
5. Any books, articles, conference papers, theses, dissertations, reports, or other publications that employ data obtained from the UBOS Micro Data Archive will cite the source of data in accordance with the Citation Requirement provided with each dataset.
6. An electronic copy of all reports and publications based on the requested data will be sent to the UBOS Micro Data Archive.

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#### CITATION REQUIREMENTS

"Uganda Bureau of Statistics, National Livestock Census 2021 (NLC 2021), Version 1.2 of the public use dataset (August 2024), provided by the UBOS Micro Data Archive. <https://microdata.ubos.org/>".

#### ACCESS AUTHORITY

Name	Affiliation	Email	URL
Uganda Bureau of Statistics (UBOS)	Ministry of Finance, Planning and Economic Development	ubos@ubos.org	www.ubos.org

## Disclaimer and copyrights

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The user of the data acknowledges that the original collector of the data, the authorized distributor of the data, and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

#### COPYRIGHT

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## Metadata production

#### PRODUCERS

Name	Abbreviation	Affiliation	Role
Uganda Bureau of Statistics	UBOS	Ministry of Finance, Planning and Economic Development	Documentation of the study

#### DATE OF METADATA PRODUCTION

2024-08-02

#### DDI DOCUMENT VERSION

Version 1.0 (August 2024). This is the first attempt for documentation of the Census.

**Data Description**

Data file	Cases	Variables
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## Download related resources

### Questionnaires

#### National Livestock Census 2021 Household Questionnaire

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Title	National Livestock Census 2021 Household Questionnaire
Author(s)	Uganda Bureau of Statistics (UBOS)
Date	2021-05-01
Country	Uganda
Language	English
Contributor(s)	Ministry of Agriculture, Animal Industry and Fisheries (MAAIF)
Publisher(s)	Uganda Bureau of Statistics (UBOS)
Filename	Livestock Census-FINAL QUESTIONNAIRE 2021.pdf

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#### National Livestock Census 2021 Private Large Scale and Institutions Farms

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Title	National Livestock Census 2021 Private Large Scale and Institutions Farms
Author(s)	Uganda Bureau of Statistics (UBOS)
Date	2021-05-01
Country	Uganda
Language	English
Contributor(s)	Ministry of Agriculture, Animal Industry and Fisheries (MAAIF)
Publisher(s)	Uganda Bureau of Statistics (UBOS)
Filename	NLC 2021 Large Scale and Institutional Farms Questionnaire- PLSIF-Final 19th May 2021.pdf

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### Reports

#### National Livestock Census 2021 Main Report

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Title	National Livestock Census 2021 Main Report
Author(s)	Uganda Bureau of Statistics (UBOS)
Date	2024-03-26
Country	Uganda
Language	English
Contributor(s)	Ministry of Agriculture, Animal Industry and Fisheries (MAAIF)
Publisher(s)	Uganda Bureau of Statistics (UBOS)
Filename	National-Livestock-Census-Report-2021_28th April 2024 Final.pdf

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