

Agriculture Census 2024

Liberia Institute of Statistics and Geo-Information Services

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Identification

SURVEY ID NUMBER

LBR_2024_LAC-HL_v01_M_v01_A_ESS

TITLE

Agriculture Census 2024

SUBTITLE

Household Listing

ABBREVIATION OR ACRONYM

AgC-HL 2024

COUNTRY

Name	Country code
Liberia	LBR

STUDY TYPE

Agricultural Census [ag/census]

SERIES INFORMATION

The LAC-2024 is an integrated census and survey programme conducted in line with the WCA 2020 recommendations. The census is also aligned with the objectives of the 50x2030 Initiative to Close the Agricultural Data Gap. The LAC-2024 is expected to be followed by a series of annual modular agriculture surveys, including the 2024 income, labour and productivity (ILP) and the 2025 production methods and environment (PME) surveys. As part of the census operations, community-level information was collected through focus group discussions with community leaders and other knowledgeable persons within the community.

The LAC-2024 also includes the Liberia Agriculture Census 2024 - Community Operations study:

<https://microdata.fao.org/index.php/catalog/2710>.

ABSTRACT

The Government of Liberia and its development partners recognized agriculture as a pivotal sector in fostering economic growth, reducing poverty, and achieving food security. Since the post-war period (insert dates), the government in collaboration with development partners, has made substantial investments to develop and expand the agriculture sector. Over the years, policymakers and data users in the agriculture sector have experienced significant challenges in obtaining the data needed to monitor and evaluate these interventions and make informed decisions on new interventions. To address these challenges, the Liberia Institute of Statistics and Geo-Information Services (LISGIS) and the Ministry of Agriculture (MoA) conducted several ad hoc agricultural surveys. While valuable, these surveys have often been limited in scope and unable to provide the comprehensive data needed for effective policymaking and planning. To support the sector more robustly, the government decided to undertake a comprehensive agricultural census: the Liberia Agriculture Census 2024, the second agricultural census in Liberia since 1971 and the first to be conducted digitally, aimed to collect structural and reliable data on various aspects of the agricultural sector.

The main objectives of the LAC-2024 was to:

- Reduce the existing data gap in Liberia's agriculture sector.
- Provide comprehensive data on the agriculture sector for policy formulation and evaluation of existing programmes.
- Enable LISGIS to establish an agriculture master sampling frame for future agricultural surveys and research.
- Identify the structural changes in the agriculture sector over time.
- Provide information on crop, livestock, poultry, and aquaculture activities.
- Determine the size, composition, practices and related characteristics of Liberia's agricultural holdings.
- Generate disaggregated agriculture statistics.
- Provide statistics for advocacy on Liberia's agriculture sector.
- Identify agricultural practices and constraints at the community level.

To achieve these objectives, the LAC-2024 was designed to collect structural data at the household, non-household and community levels. The data provided a wealth of information on the state of agriculture in Liberia. This documentation provides information on how data was collected at the household level. The documentation also provides useful information on the household anonymized dataset.

KIND OF DATA

Census/enumeration data [cen]

UNIT OF ANALYSIS

Households

Scope

NOTES

The scope of the Liberia Agriculture Census 2024 household level data collection includes:

- Agricultural households and members characteristics
- Hired labour practices
- Land use
- Types of agricultural activities
- Inputs, tools and equipment used
- Types and number of livestock and poultry raised.

KEYWORDS

Keyword
Agriculture
Household Demographics
Land Ownership
Crop Production
Farm Equipment
Agricultural Inputs
Extension Services
Holding
Rural Households
Land Use
Land Tenure
Subsistence Farming

Coverage

GEOGRAPHIC COVERAGE

National coverage

UNIVERSE

The universe for the Liberia Agriculture Census 2024 household level data collection is all households in Liberia having at least one member engaged in agricultural activity during the 2022/2023 farming season.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Liberia Institute of Statistics and Geo-Information Services	Government of Liberia

PRODUCERS

Name	Abbreviation	Affiliation	Role
Ministry of Agriculture		Government of Liberia	Collaborator
Food and Agriculture Organization of the United Nations	FAO	United Nations	Technical assistance
50x2030 Initiative		Global partnership program led by the World Bank (WB), the Food and Agriculture Organization of the United Nations (FAO), and the International Fund for Agricultural Development (IFAD)	Technical and financial support for the design, implementation, and analysis of the survey

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Government of Liberia	GoL	Funder
World Bank	WB	Funder

Sampling

SAMPLING PROCEDURE

The Liberia Agriculture Census 2024 (LAC-2024) was a sampled census conducted in all 15 counties of Liberia. The sampling frame used for the LAC-2024 is based on the 2022 National Population and Housing Census (2022-NPHC), conducted by the LISGIS. The sample design for the census was a stratified cluster sample with enumeration areas (EAs) as clusters and farming households as units of interest. In line with budget availability, a large sample of 4,800 EAs was considered for the LAC-2024. These EAs had a total of 269,652 agricultural households in the frame. The sample was allocated by strata (districts, urban/rural) proportional to the numbers of farming households in the frame. In total, about 78.8% of the sample was allocated to rural areas. The stratified sample of EAs was selected with a probability proportional to the number of farming households at EA level.

A complete listing of all households (both agricultural and non-agricultural) was carried out in the selected EAs and detailed questions were addressed to all households that practiced agricultural activities during the 2022/2023 farming season. The results of the LAC-2024 are representative at the district level.

For more information on the LAC-2024 sampling methodology, see the methodology section of the Liberia Agriculture Census 2024 Household Report (available in the downloads tab).

RESPONSE RATE

92.8%

WEIGHTING

Sampling weights were generated to ensure extrapolation of the agriculture census results at the national, county and districts levels.

For further details on sampling weights, see the methodology section of the Liberia Agriculture Census 2024 Household Report (available in the downloads tab)..

Data collection

DATES OF DATA COLLECTION

Start	End
2024-01-22	2024-03-22

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

DATA COLLECTION NOTES

The data collection was carried out from January to March 2024, covering all counties in Liberia. Teams of enumerators conducted interviews using tablets with CAPI (Computer-Assisted Personal Interviewing) software. The process included household interviews, community group discussions, and observational methods.

The LAC-2024 data collection at the household level was conducted by 160 teams. Each team was composed of one supervisor, four enumerators, and one GIS specialist, who also served as an additional enumerator. All teams were deployed to their first EA by regional and national monitors, using LISGIS vehicles. Thereafter, teams were responsible to travel to remaining EA using the transportation allowances provided to each team member. A total of 30 data quality assurance officers (two in each county) were deployed to assist teams with technical issues of the CAPI applications. The work of the teams was coordinated by 11 regional and 22 national monitors, who routinely visited teams, checked data quality, flagged and corrected potential errors and provided in-field training where necessary. At LISGIS central office, there were 5 monitors, called HQ monitors, who monitored the LAC-2024 dashboard daily and reported all identified errors and inconsistencies to regional and national monitors for appropriate actions.

Data collection faced challenges such as difficult terrain and poor internet connectivity, which caused delays in data synchronization. Despite these challenges, supervision and regular quality checks assured the quality of the data.

questionnaires

QUESTIONNAIRES

The LAC-2024 employed three questionnaires: the Household Questionnaire, the Community Questionnaire and the Non-Household Questionnaire. These three questionnaires were based on the 50x2030 Initiative standard model questionnaires. The Liberia Agriculture Census Technical Working Group (LAC-TWG), comprising technical staff from LISGIS, Ministry of Agriculture (MOA), National Fishery and Aquaculture Authority (NaFAA), Cooperative Development Agency (CDA) and the Ministry of Internal Affairs (MIA) worked with technicians from the 50x2030 Initiative to adapt the questionnaires to Liberia's context and realities. Suggestions and inputs were solicited from various stakeholders representing government ministries, agencies and commissions (termed MACs by LISGIS), nongovernmental and international organizations as well as academic institutions researching agricultural issues. All questionnaires were finalized in English. Some questions in the questionnaires were translated into simple Liberian English, to ease administration.

The household questionnaire included type of agricultural activities practiced, household members characteristics, housing conditions, hired labour practices, agricultural parcels and plots characteristics, types of crops and methods of crop cultivation, inputs, tools and equipment used, type and number of livestock and poultry.

The household questionnaire was administered to the household head or an adult member of the household with knowledge of the household and its agricultural activities. The primary respondent (i.e., the household member that provided most of the information for the questionnaire or a given module, household member, or crop) sometimes varied across modules.

data_processing

DATA EDITING

The data was edited using CSpro software, version 7.7.3. The appropriate edit rules were established by programmers and subject matter specialists at LISGIS and MOA.

In a few cases, manual editing was applied to recode the "other specify" category. The SPSS software was used for this purpose.

METHODOLOGY NOTES

The dataset was anonymized using statistical disclosure control methods to protect respondent confidentiality while maintaining data utility. This was conducted in accordance with the protocols of the FAO Statistical Standard on Microdata dissemination Microdata dissemination

<<https://openknowledge.fao.org/server/api/core/bitstreams/57cc85ec-db1b-4ef1-a3a5-5f2369c0eaf1/content>>

Access policy

CONTACTS

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CONFIDENTIALITY

Confidentiality of respondents is guaranteed by the National Statistics and Geo-Information Act of Liberia, enacted 2004 and the United Nations Fundamental Principles on Official Statistics, specifically principle six. 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 LISGIS. 2. Not to use any technique in an attempt to learn the identity of any person, household, non-household or community 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 LISGIS.
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 LISGIS.
4. No attempt will be made to produce links among datasets provided by LISGIS, or among data from LISGIS 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 LISGIS 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 LISGIS.

The original collectors of the data, LISGIS, MOA, and the relevant funding agencies bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

CITATION REQUIREMENTS

Liberia Institute of Statistics and Geo-Information Services. Liberia Agriculture Census 2024 (LAC-2024) , Ref. LBR-LAC-2024_v01. Dataset downloaded from <https://lisgis.gov.lr/>

Disclaimer and copyrights

DISCLAIMER

The user of the data acknowledges that the authorized distributor of the data (i.e., LISGIS), MOA and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

Metadata production

DDI DOCUMENT ID

DDI_LBR_2024_LAC-HL_v01_M_v01_A_ESS

PRODUCERS

Name	Abbreviation	Affiliation	Role
Liberia Institute of Statistics and Geo-Information Services	LISGIS	Government of the Republic of Liberia	Documentation of the study
Ministry of Agriculture	MOA	Government of the Republic of Liberia	Documentation of the study
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Technical assistance / Metadata adapted for FAM

Development Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library
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DDI DOCUMENT VERSION

Identical to a metadata (LBR_2024_LAC-HL_v01_M_v01_A_ESS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
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study_resources

questionnaires

Questionnaire

title Questionnaire
filename LIBERIA_LISTING_QX_FINAL_26072023.xlsx

reports

Final Report

title Final Report
filename LAC-2024_Final-Household-Report-03-10-2025.pdf
