

Liberia Annual Agricultural Survey 2024

fe486ad3-93c9-4740-adbe-951001481a9b

Report generated on: June 2, 2026

Project type: microdata

:

Document description

Metadata preparation

Metadata 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
United Nations Food and Agriculture Organisation	UNFAO	United Nations	Technical Assistance on documentation

Production date

2025-03-10

Document ID

DDI_LBR_LISGIS_AAS_2024_v01

DDI metadata version

Version

Version 1.1 (May 2026)

Study description

Identification

Title

Liberia Annual Agricultural Survey 2024

Subtitle

Income, Labour and Productivity (ILP) module

Alternate title

AAS_2024

Primary ID

LBR_LISGIS_AAS_2024_v01

Study type

Agricultural Survey [ag/oth]

Series information

The 2024 Liberia Annual Agricultural Survey (AAS) is the first round of regular agricultural surveys to follow the census. Unlike the census, which provides a structural snapshot, the AAS 2024 delves into the dynamics of production, marketing, and household livelihoods. It generates data on crop areas, yields, and

outputs, as well as on livestock, aquaculture, and forestry. It also captures socio-economic variables, including labor use, farm income, access to resources, and the adoption of agricultural practices.

It was implemented under the 50x2030 Initiative, a program jointly launched by the World Bank, Food and Agriculture Organization of the United Nations (FAO) and International Fund for Agricultural Development (IFAD), through the Liberia Institute of Statistics and Geo-Information Services (LISGIS) and the Ministry of Agriculture (MoA). The AAS adopted a modular approach, with the first round covering the CORE module and the ILP (Income, Labor and Productivity) module.

Version

Version name

v1.0: Edited, anonymized dataset for public distribution. Data have been edited and anonymized as to be released as Public Use File (PUF).

Notes on version

Version 1.0. This is the first release of the anonymized household dataset of the AAS 2024, under the 50x2030 Initiative.

Overview

Abstract

The Liberia 2024 Annual Agriculture Survey (AAS 2024) was conducted by the Liberia Institute of Statistics and Geo-Information Services (LISGIS), in collaboration with the Ministry of Agriculture (MoA). The survey provides up-to-date national and regional estimates on crop and livestock production, input use, and rural livelihoods to inform agricultural policy and planning.

The specific objective of the survey is to:

1. Estimate total production quantities of major crops and livestock products, including harvested area and yields.
2. Collect data on land use, farmland types, and input utilization to support yield estimation and productivity analysis.
3. Gather socio-demographic and economic characteristics of agricultural households, including farm income and labor use.

A unique feature of the AAS 2024 is the integration of a Women's Empowerment and Nutrition (WEN) module, designed to measure women's dietary diversity and assess their role in agricultural decision-making. This ensures that the survey contributes not only to economic analysis but also to gender-responsive policy and programming.

Kind of data

Sample survey data [ssd]

Unit of analysis

Agricultural households

Scope

Keywords

Keyword
Agricultural Households
Crop Production
Area measurement
Land Tenure
Livestock
Labor Use
Women's Empowerment

Topics

Topic	Vocabulary	URL
Agricultural Households	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Land Tenure	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Crop Production	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Crop Destination	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Labor	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Input Use	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Seed Use and Acquisition	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Livestock	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Aquaculture	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Fishing	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Forestry	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/
Subsidies, Loans and Transfers	ELSST Thesaurus	https://thesauri.cessda.eu/elsst-5/en/

Universe and geographic coverage

Universe

All households in Liberia having at least one member engaged in agriculture activity during the 2023/2024 farming season.

Country

Name	Code
Liberia	LBR

Geographic coverage

National coverage

Producers and sponsors

Primary producer/investigator

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

Other producers

Name	Abbreviation	Affiliation	Role
Ministry of Agriculture	MOA	Government of Liberia	Collaborator
United Nations Food and Agriculture Organization	UNFAO	United Nations	Technical assistance

Funding agencies

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

Other contributors

Name	Role
50x2030 Initiative	Technical and financial support for the design, implementation, and analysis of the survey.

Sampling

Sample frame

Name

The sampling frame used for the AAS-2024 was developed using data from the 2024 Liberia Agriculture Census (LAC 2024). Each EA was listed with the total number of agricultural households and area under cultivation reported during the census.

Sampling procedure

The survey design and methodology align with the 50x2030 Initiative's methodological framework and builds upon the experience of the 2024 Liberia Agriculture Census (LAC 2024). It employs a stratified two-stage sampling design to ensure representative estimates at both national and regional levels. The first stage involved a selection of EAs as PSUs using probability proportional to size (PPS), where size was measured by the number of agricultural households per EA from the agricultural census. In the second stage, within each selected EA, 10 agricultural households were chosen using simple random sampling without replacement.

Weighting

Each sampled household was assigned a design weight equal to the inverse of its overall probability of selection, incorporating both first- and second-stage probabilities. Weights were adjusted for non-response and calibrated against known population totals from the 2024 Agriculture Census to improve consistency.

Survey instrument

Questionnaires

The questionnaire was administered in each household in a single visit, preferably to the head of household. It covers the CORE module and the ILP (Income, Labor and Productivity) module, including several topics such as household demographics, agricultural activity (crop, livestock, fishing and aquaculture, forestry), input use and labor, land tenure, subsidies, loans and transfers.

The questionnaires are provided as external resources.

Notes on methodology

Data were collected using computer-assisted personal interviewing (CAPI) with tablets equipped with real-time validation rules. Field teams were trained extensively on questionnaire content, area measurement protocols, and data-quality checks. Daily monitoring dashboards enabled monitors and data quality officers to track progress and consistency across regions. To further ensure data quality, LISGIS implemented field verification of sampled households, cross-checks of GPS coordinates, and consistency reviews between crop and livestock modules.

Data collection

Dates of data collection

Start	End	Cycle
2024-08-30	2024-10-15	First Wave
2024-11-20	2025-01-05	Second Wave

Mode of data collection

- Computer Assisted Personal Interview [capi]

Data collectors

Name	Affiliation	Abbreviation
Liberia Institute of Statistics and Geo Information Services	Government of Liberia	LISGIS
Ministry of Agriculture	Government of Liberia	MOA

Data processing

Data processing

Type	Description
Statistical Disclosure Control (SDC)	The dataset was anonymized using Statistical disclosure methods on R software. To start the process, variables were classified into variables to delete, quasi-identifiers, direct identifiers, linked variables and sensitive variables based on disclosure scenarios. All direct identifiers and unnecessary variables were removed. Then, quasi-identifiers (and linked variables) were considered to formulate disclosure risk analysis. Disclosure risk was mainly measured using k-anonymity and probabilistic risk. Both categorical and numerical quasi-identifiers have been anonymized using recoding, shuffling, top coding and local suppression, where necessary. In addition, information loss was mainly measured based on number of missing values introduced during local suppression. Overall, users must be aware that data protection with SDC methods involves some perturbations in the microdata. This implies information loss and bias which may affect the interpretation of some resulting estimates and their parameters. In general, the smaller the subpopulation, the higher the potential impact derived from the anonymization process.

Data access

Access authority

Name	Affiliation	URL	Email
Liberia Institute of Statistics and Geo-Information Services	Government of Liberia	https://lisgis.gov.lr/	lisgis.admin@lisgis.gov.lr

Confidentiality declaration

Required	Text
yes	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 requirement

Liberia Institute of Statistics and Geo-Information Services. Liberia Annual Agriculture Survey 2024 (AAS_2024), Ref. LBR_AAS_2024_v01. Dataset downloaded from <https://lisgis.gov.lr/>.

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Contacts

Contacts

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data_dictionary

#ID	data_file	Cases	Variables
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