

Agriculture Household Listing Survey 2023

Statistics Sierra Leone, Ministry of Agriculture and Food Security

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Identification

SURVEY ID NUMBER

SLE_2023_SLLIST_v01_M_v01_A_ESS

TITLE

Agriculture Household Listing Survey 2023

ABBREVIATION OR ACRONYM

SLLIST 2023

COUNTRY

Name	Country code
Sierra Leone	SLE

ABSTRACT

In recognition of the critical role the agricultural sector plays in national development, Sierra Leone joined the 50x2030 Initiative in early 2023. This partnership focuses on establishing a sustainable annual agricultural survey program. The program's primary aim is to generate high-quality, timely, and relevant agricultural data that directly addresses the country's needs. The implementation of the 50x2030 activities in Sierra Leone relies on a variety of statistical undertakings, one of which is the Sierra Leone Listing Survey (SLLIST) conducted in 2023. This survey plays a vital role in monitoring and achieving the goals of the 50x2030 initiative. It serves as a foundational element for subsequent surveys, establishing a comprehensive sampling frame that will be utilized in future data collection efforts. By meticulously gathering data on various aspects, SLLIST lays the groundwork for further analysis and ensures the accuracy of subsequent surveys.

The other specific objectives for the design of the Listing Survey were to:

- Accurately enumerate and document all dwelling units/structures and households within the selected enumeration areas (EAs) in preparation for agricultural holdings/households' selection
- Record detailed description of every structure and identify the heads of agricultural holdings/households
- Collect information in each of the 520 selected EAs, ensuring effective supervision and monitoring of the agricultural holdings/households to be selected for data collection.

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Households

Scope

NOTES

This survey focused on collecting data from agricultural households, covering topics such as household demographics, land ownership, agricultural activities, livestock rearing, labor force composition, and participation in off-farm activities.

TOPICS

Topic	Vocabulary	URI
Agricultural workers	ELSST Thesaurus	Link
Agricultural production	ELSST Thesaurus	Link

KEYWORDS

Keyword
Crops
Livestock

Households

Coverage

GEOGRAPHIC COVERAGE

National coverage, with the exception of the Western Urban district

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Statistics Sierra Leone	Government of Sierra Leone
Ministry of Agriculture and Food Security	Government of Sierra Leone

PRODUCERS

Name	Abbreviation	Affiliation	Role
Food and Agriculture Organization	FAO	United Nations	Technical Assistance

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
World Bank	WB	Financial assistance through the HISWA Project

Sampling

SAMPLING PROCEDURE

The survey employed a stratified random sampling technique to ensure a representative sample of agricultural households across all five regions and fifteen districts of Sierra Leone with the exception of the Western Urban district. From 514 Enumeration Areas, a total of 42990 agricultural households were interviewed.

RESPONSE RATE

The response rate was 99.9%.

WEIGHTING

Sample weights were calculated for the data file. It was computed as the inverse of the probability of selection of agricultural household, the latter being the product of the probability of selection of the EA in which the household is located and the probability of selection of the EA.

The weight variable is called "SampleWeight".

Data collection

DATES OF DATA COLLECTION

Start	End
2023-08-28	2023-09-18

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

questionnaires

QUESTIONNAIRES

The questionnaire was administered in each household, preferably to the head of household. It includes questions on household demographic characteristics and agricultural activities practiced.

The questionnaire is provided as external resource.

data_processing

DATA EDITING

The listing questionnaire was implemented on CSPRO as CAPI tool. During data collection, some validation controls were integrated into the app to minimize mistakes when typing households' answers. After data collection, a processing program designed under SPSS software permitted to clean both cases and variables. Duplicated cases were deleted and then the sampling weights adjusted to take the two non-covered EAs into account. Missing, illegal, unlike and incoherent values were detected and then locally imputed objectively in respecting filters. Finally, the necessary tabulation variables were created and then tables were produced according to the tabulation plan designed earlier.

METHODOLOGY NOTES

The dataset was anonymized using statistical disclosure methods. To start the process, variables were classified into main categories as variables to delete, quasi identifiers, direct identifiers, linked variables. All direct identifiers and unnecessary variables were removed. Then, quasi-identifiers (and linked variables) were considered to formulate disclosure scenarios. Disclosure risk was measured using k-anonymity and probabilistic risk.

Quasi identifiers have been anonymized using top coding (which was especially applied to categorical variables), shuffling (which was applied to enumeration area codes) and local suppression which was applied to both the quasi identifiers and the linked variables. In addition, information loss was mainly measured based on number of missing values introduced during anonymization and dependency coefficient between categorical variables.

The software used was R.

data_appraisal

ESTIMATES OF SAMPLING ERROR

To appreciate the data quality, some tables were supported by sampling errors estimates. Especially, coefficients of variations and standard errors were estimated for a set of indicators in open data publishing purposes.

Access policy

CONFIDENTIALITY

The users shall not take any action with the purpose of identifying any individual entity (i.e. person, household, enterprise, etc.) in the micro dataset(s). If such a disclosure is made inadvertently, no use will be made of the information, and it will be reported immediately to FAO.

ACCESS CONDITIONS

Licensed datasets, accessible under conditions.

Disclaimer and copyrights

DISCLAIMER

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

Metadata production

DDI DOCUMENT ID

DDI_SLE_2023_SLLIST_v01_M_v01_A_ESS

PRODUCERS

Name	Abbreviation	Affiliation	Role
Statistics Sierra Leone	Stats SL	Government of Sierra Leone	Metadata producer
Ministry of Agriculture and Food Security	MAFS	Government of Sierra Leone	Metadata producer
Statistics Division	ESS	FAO	Metadata producer and metadata adapted for FAM
Development Data Group	DECDG	The World Bank	Metadata adapted for World Bank Microdata Library

DDI DOCUMENT VERSION

Identical to a metadata (SLE_2023_SLLIST_v01_EN_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

Sierra Leone Agriculture Listing Questionnaire

title	Sierra Leone Agriculture Listing Questionnaire
date	2023
country	Sierra Leone
publishers	Statistics Sierra Leone (Stats SL)
filename	https://microdata.statistics.sl/index.php/catalog/11/download/21

reports

REPORT FROM THE LISTING DATA OF THE 2023 ANNUAL AGRICULTURAL SURVEY

title	REPORT FROM THE LISTING DATA OF THE 2023 ANNUAL AGRICULTURAL SURVEY
authors	Statistics Sierra Leone (Stats SL) Ministry of Agriculture and Food Security (MAFS)
date	2024-01-01
country	Sierra Leone
contributors	50x2030 Initiative
publishers	Statistics Sierra Leone (Stats SL)
description	The report from the Sierra Leone Listing survey present main findings from the listing data of the 2023 Annual Agricultural Survey.
abstract	<p>The main results of the Sierra Leone Listing Survey show a dominance of small-scale farming in the country, evidence of regional variations in terms of proportions of agricultural households by region and by district. In addition, male headed households dominate the sector and are more involved in permanent agricultural work compared to female-headed households. Crop production is the most widespread activity across all regions and genders, followed by livestock rearing. Activities such as hunting, fishing, and aquaculture supplement the subsistence farming practices of a small portion of the agricultural population.</p> <p>Introduction</p> <ul style="list-style-type: none"> - Context of the survey - Objectives of the Survey - Survey Methodology <p>Key Findings</p> <ul style="list-style-type: none"> I- Characteristics of Agricultural Households I.1- Socio-Demographic Profile of Agricultural households I.2- Economic Profile of Agricultural households II- Agricultural Practices II.1- Crop Production II.2- Livestock rearing II.3- Other agricultural activities practiced <p>Conclusion</p> <p>Recommendations</p> <p>Glossary</p>
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filename	https://maf.gov.sl/wp-content/uploads/2024/08/SLE_FINAL_LISTING_REPORT_16_05_2024.pdf