

Nigeria - Data in Emergencies (DIEM) Monitoring System - Household Survey - Round 4, Nigeria, 2025

**Food and Agriculture Organization of the United Nations, Data in Emergencies
Hub, Office of Emergencies and Resilience**

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Identification

SURVEY ID NUMBER

NGA_2023_DIEM_HS_R4_v01_M_v01_A_ESS

TITLE

Data in Emergencies (DIEM) Monitoring System - Household Survey - Round 4, Nigeria, 2025

ABBREVIATION OR ACRONYM

DIEM HHS NGA R4 - 2023

COUNTRY

Name	Country code
Nigeria	NGA

STUDY TYPE

Agricultural Survey [ag/oth]

ABSTRACT

The Food and Agriculture Organization of the United Nations (FAO) has developed a monitoring system in 26 food crisis countries to better understand the impacts of various shocks on agricultural livelihoods, food security and local value chains. The Monitoring System consists of primary data collected from households on a periodic basis (more or less every four months, depending on seasonality). FAO launched a Round 4, computer-assisted telephone interview survey from 11 February to 1 March 2023 in Nigeria and reached 1418 households. Data collection took place at the beginning of the lean season across five states: Adamawa, Borno, Katsina, Yobe and Zamfara.

For more information, see <https://data-in-emergencies.fao.org/pages/monitoring>.

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Households

Scope

NOTES

The survey collected information on the following areas:

- HOUSEHOLD: household information
- INCOME SOURCES, SHOCKS: income changes, shocks experienced by households
- CROP PRODUCTION: crops planted, area planted, area harvested, crop production difficulties
- CROP MARKETING: crop sale difficulties, crop sale price
- LIVESTOCK PRODUCTION: types of livestock present on holding, number of livestock, livestock production difficulties
- LIVESTOCK MARKETING: livestock sale, livestock sale difficulties, livestock sale price
- FISHERIES PRODUCTION: fish activity, comparison of fish production
- FISHERIES MARKETING: fish sale, fish sale difficulties, fish sale price
- FOOD SECURITY AND CONSUMPTION: food consumption, food utilization, coping strategies
- NEEDS ASSISTANCE: open questions on the needs for assistance

Coverage

GEOGRAPHIC COVERAGE

National coverage

UNIVERSE

Entire population.

Producers and sponsors

PRIMARY INVESTIGATORS

Name
Food and Agriculture Organization of the United Nations, Data in Emergencies Hub, Office of Emergencies and Resilience

PRODUCERS

Name	Abbreviation	Affiliation	Role
Data in Emergencies Hub, Office of Emergencies and Resilience	DIEM Hub	Food and Agriculture Organization of the United Nations	Data processing and analysis

FUNDING AGENCY/SPONSOR

Name	Abbreviation
European Union	EU
Food and Agriculture Organization of the United Nations, Special Fund for Emergency and Resilience Activities	SFERA

Sampling

SAMPLING PROCEDURE

Surveys are designed based on country-specific needs, objectives, and constraints. They aim to achieve a 10 percent margin of error, a 95 percent confidence level, administrative-level granularity, and sufficient sample sizes for key target populations, including agricultural households.

Five states were included in the sample: Adamawa, Borno, Katsina, Yobe, and Zamfara. The sample comprises panel respondents, with additional respondents recruited through Random Digit Dialing (RDD) to meet target sample sizes where needed. Panel respondents were randomly selected from either Round 2 Face-to-Face (R2 F2F) surveys or Round 3 CATI-RDD surveys. Quotas were set to reflect the expected proportion of agricultural households in the population, based on state-level agricultural population estimates from WFP's Essential Needs and Nutrition Assessment (ENNA), conducted in northeastern and northwestern Nigeria (excluding Internally Displaced Persons) in February 2021.

WEIGHTING

To correct potential biases introduced during sampling and ensure that survey results are representative, a multi-step weighting approach was applied:

- Base Weights: Regional base weights were first calculated at the first administrative level (ADM1) to reflect the probability of selection within each state. These base weights adjust for differences in sample sizes across regions and ensure proportional representation.
- Adjustment for Agricultural Households: Given the focus on agricultural households, the base weights were further adjusted using the estimated proportion of agricultural households at the ADM1 level. This adjustment accounts for the over- or under-representation of agricultural households in the sample relative to their expected distribution in each state.
- Post-Stratification Weights: Due to the lack of reliable post-stratification variables at the ADM1 level, national-level (ADM0) benchmarks were used for post-stratification. Specifically, access to flush toilets at the ADM0 level was applied. This variable was chosen as a proxy to align the sample more closely with the broader population in terms of socioeconomic status and living standards.

Data collection

DATES OF DATA COLLECTION

Start	End
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2023-02-11

2023-03-01

DATA COLLECTION MODE

Computer Assisted Telephone Interview [cati]

Questionnaires

QUESTIONNAIRES

A link to the questionnaire has been provided in the downloads tab.

Data Processing

DATA EDITING

The datasets have been edited and processed for analysis by the Food and Agriculture Organization of the United Nations, Data in Emergencies (DIEM) Hub at the Office of Emergencies and Resilience, with some dashboards and visualizations produced. For more information, see <https://data-in-emergencies.fao.org/pages/countries>.

****STATISTICAL DISCLOSURE CONTROL (SDC)****

The dataset was anonymized by the Food and Agriculture Organization of the United Nations, Data in Emergencies (DIEM) Hub and reviewed by the Statistics Division, using Statistical Disclosure methods in accordance with FAO Corporate Statistical Disclosure Control Protocol. All direct identifiers have been removed prior to data submission. For more information, see <https://openknowledge.fao.org/server/api/core/bitstreams/833ee200-0484-4f87-8f5c-b3fed4a3722b/content>.

Access policy

CONTACTS

Name	Affiliation	Email	URL
Data in Emergencies Hub, Office of Emergencies and Resilience	Food and Agriculture Organization of the United Nations	DIEM-Hub-List@fao.org	Link

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.

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- The micro dataset will only be used for statistical and/or research purposes;
- Any results derived from the micro dataset will be used solely for reporting aggregated information, and not for any specific individual entities or data subjects;
- 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;
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CITATION REQUIREMENTS

FAO. 2025. Data in Emergencies Monitoring Household Survey - Nigeria, Round 4, 2023. data-in-emergencies.fao.org. Dataset downloaded from microdata.fao.org.

ACCESS AUTHORITY

Name	Affiliation	Email	URL
Data in Emergencies Hub, Office of Emergencies and Resilience	Food and Agriculture Organization of the United Nations	diem-hub-list@fao.org	Link

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_NGA_2023_DIEM_HS_R4_v01_M_v01_A_ESS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Data in Emergencies Hub, Office of Emergencies and Resilience	OER	Food and Agriculture Organization of the United Nations	Metadata producer
Statistics Division	ESS	Food and Agriculture Organization of the United Nations	Metadata adapted for FAM

Data Dictionary

Data file	Cases	Variables
anon_df_NGA_R4	1418	296