

Lebanon - Data in Emergencies (DIEM) Monitoring System - Household Survey - Round 3, Lebanon, 2022

**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

LBN_2022_DIEM-HS-R3_v01_M_A_v01_ESS

TITLE

Data in Emergencies (DIEM) Monitoring System - Household Survey - Round 3, Lebanon, 2022

ABBREVIATION OR ACRONYM

DIEM HHS LBN R3 - 2022

COUNTRY

Name	Country code
Lebanon	LBN

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 conducted a Round 3 household survey using computer-assisted telephone interviews from 17 July to 8 August 2022 to monitor agricultural livelihoods and food security in Lebanon. The survey targeted the agricultural population. It took place across 7 governorates –Akkar, Baalbeck El Hermel, Bekaa, El Nabatieh, North Lebanon, Mount Lebanon and South Lebanon– with 150 households selected in each governorate using probability proportional to size. A total of 1 050 interviews were completed, in which 98 percent of respondents identified as agricultural households. 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:

- 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

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	Role
European Union	EU	Funding
Food and Agriculture Organization of the United Nations, Special Fund for Emergency and Rehabilitation	SFERA	Funding

Sampling

SAMPLING PROCEDURE

The survey targeted the rural population in Lebanon using remote panel data collection. Respondents were drawn from the Agricultural Production Survey (APS), which sampled individuals listed in the 2010 Agricultural Census. This approach was also supported by the Lebanese Ministry of Agriculture, which has been conducting a similar household tracking survey for the past 10 years.

The survey used a one-stage sample design, drawing a Simple Random Sample with Probability Proportional to Size (PPS) from the agricultural population census. The sample was stratified by activity type and farm size using a genetic stratification algorithm (Ballin & Barcaroli1) to optimize homogeneity within strata and maximize sample efficiency.

The APS sample size is larger than required for the monitoring survey, as APS stratifies at a more detailed level. Additionally, due to APS's stratification method, large specialized farms were overrepresented, requiring weighting adjustments to properly represent smaller farms and non-agricultural households. After review by the OER Needs Assessment team and ESS, it was confirmed that the APS sample could serve as a valid sampling frame, with households selected proportional to their assigned weights.

The third round (July 2022) followed the same respondents as the first two rounds, creating an additional panel dimension. No quotas were set.

WEIGHTING

To correct for regional disproportionate sampling, base weights were computed at the adm1 (regional) level, aligning results with the actual population distribution in each region. Farm size was used as a wealth weight to correct for the overrepresentation of large specialized farms in the sample, ensuring that smaller farms and non-agricultural households—initially underrepresented—are properly reflected in the final analysis.

Data collection

DATES OF DATA COLLECTION

Start	End
2022-07-17	2022-08-08

DATA COLLECTION MODE

Computer Assisted Telephone Interview [cati]

Questionnaires

QUESTIONNAIRES

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

Data Processing

DATA EDITING

The datasets have been edited and processed for analysis by the Data in Emergencies Hub at the Office of Emergencies and Resilience, FAO, 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 using Statistical Disclosure methods by the Data in Emergencies Hub and reviewed by the Statistics Division of FAO. All direct identifiers have been removed prior to data submission.

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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- 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 - Lebanon, Round 3, 2022. 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	Data-in-Emergencies@fao.org	Link

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Metadata production

DDI DOCUMENT ID

DDI_LBN_2022_DIEM-HS-R3_v01_M_A_v01_ESS

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_dfLBN_R3	1050	224