

Lebanon 2023 Technical Document

Sampling

A stratified multi-stage cluster sample design was used to complete 1,000 face-to-face surveys.

Target Population/Coverage:

Non-institutionalized adult population (15 years of age or older) living in households. Stratification and selection used information from Living Condition Survey (CAS, 2018-2019). Hermel, Baalbak, and Bint Jbeil under the strict control of Hezbollah were excluded. The excluded areas represent approximately 10% of the population.

Stratification: The sampling frame was stratified by districts, resulting in a total of 24 strata groups: West Beirut, East Beirut, Baabda, Maaten, Shouf, Aaley, Keserwan, Jbayl, Tripoli, Koura, Zgharta, Batroun, Bsharry, Minieh, Akkar, Zahle, Western Bekaa, Rashaya, Saida, Sour, Jezzine, Nabatieh, Merjeyoun, Hasbaya.

Sample Selection: Primary Sampling Units (PSUs) are sectors within cities/villages. PSUs were selected using simple random sampling, as population information is not available at the sector level. A total of 100 PSUs were selected in the final sample.

Within each selected PSU a random starting point was identified. Using the right-hand rule and a fixed interval of 3 households (i.e. every third household is selected), interviewers selected eligible households until the required number of interviews were completed. Within each selected household, interviewers listed all eligible (15+ adults) individuals, and the CAPI program randomly selected a respondent. In case of refusals or non-contacts, households were replaced along the random route using the same interval.

Data Collection: June 7, 2023 – July 11, 2023

AAPOR3 response rate: 38%

Weighting: The sample data were weighted to minimize bias in survey-based estimates. The weighting procedure was formulated based on the sample design and was carried out in multiple stages. A probability weight factor (base weight) was constructed to correct for unequal selection probabilities. At the next step, the base weights were post-stratified to adjust for non-response and to match the weighted sample totals to known target population totals obtained from country-level census data.

Design Effect: 1.22

Margin of error: $\pm 3.4\%$ (95% confidence level)

Population sources used for constructing weights were based on the following:

Age, gender: Lebanon Labour Force Survey January 2022

Region: Labour Force and Household Living Conditions Survey 2018-2019 Lebanon

Education: MICS 2009

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	16.1	22.4	22.4
25-34	17.1	17.1	17.1
35-44	16.7	16.5	16.5
45-54	17.0	15.8	15.8
55+	33.1	28.2	28.2
Education	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Intermediate Incomplete	34.2	32.2	32.2
Intermediate Complete through Secondary Complete	36.1	46.2	46.3
College/University	29.7	21.6	21.6
Sex	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Male	50.4	49.2	49.2
Female	49.6	50.8	50.8
Region	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Beirut Governorate	8.0	8.1	8.1
Nabatieh Governorate	7.0	6.1	6.1
Beqaa Governorate	7.0	6.5	6.5
North Governorate	14.0	13.9	13.8
Mount Lebanon Governorate	46.0	46.5	46.5
South Governorate	12.0	12.6	12.6
Akkar	6.0	6.4	6.4