

Honduras 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. Geographic information for stratification was obtained from the 2013 Population and Housing Census of Honduras. Sample selection was performed using 2013 population projections based off the 2001 Census population distributions within municipality. PSUs with population less than 50, and DE LA BAHÍA and GRACIAS A DIOS were excluded. The exclusion represents approximately 4% of the population.

Stratification: The sampling frame was explicitly stratified by 17 departments and implicitly stratified by urbanicity. The 17 strata are Atlantida, Choluteca, Colón, Comayagua, Copán, Cortés, El Paraíso, Francisco Morazán, Gracias a Dios, Intibucá, La Paz, Lempira, Ocotepeque, Olancho, Santa Barbara, Valle and Yoro.

Sample Selection: Primary Sampling Units (PSUs) are Census-designated units (Codigo). PSUs were selected using probabilities proportional to population size, where total 0+ population was the measure of size. 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, 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: September 4, 2023 – December 4, 2023

AAPOR3 response rate: 32%

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: 1.80

Margin of error: $\pm 4.2\%$ (95% confidence level)

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

Age, Gender, Education, Region, Urbanicity: National Institute of Statistics (INE). XVII Census of Population and VI of Housing, 2013

| Age | SAMPLE_UNWTD | SAMPLE_WTD | TARGET |
|-------------------|---------------------|-------------------|---------------|
| 15-24 | 16.7 | 27.2 | 27.7 |
| 25-34 | 22.2 | 24.0 | 24.1 |
| 35-44 | 20.2 | 18.5 | 18.4 |
| 45-54 | 15.4 | 12.8 | 12.5 |
| 55+ | 25.5 | 17.6 | 17.2 |
| Education | SAMPLE_UNWTD | SAMPLE_WTD | TARGET |
| None | 6.1 | 13.2 | 15.2 |
| Primary | 53.4 | 52.8 | 51.9 |
| Secondary | 33.2 | 29.1 | 28.1 |
| Superior | 7.3 | 5.0 | 4.7 |
| Sex | SAMPLE_UNWTD | SAMPLE_WTD | TARGET |
| Male | 32.0 | 46.7 | 47.7 |
| Female | 68.0 | 53.3 | 52.3 |
| Region | SAMPLE_UNWTD | SAMPLE_WTD | TARGET |
| Atlántida | 5.0 | 5.3 | 5.3 |
| Choluteca | 5.0 | 5.0 | 5.2 |
| Colon | 4.0 | 3.8 | 3.7 |
| Comayagua | 6.0 | 6.0 | 6.1 |
| Copán | 3.9 | 4.5 | 4.4 |
| Cortés | 19.1 | 20.2 | 20.1 |
| El Paraíso | 6.0 | 4.4 | 5.4 |
| Francisco Morazán | 18.0 | 19.4 | 18.9 |
| Intibucá | 5.0 | 2.9 | 2.8 |
| La Paz | 2.0 | 2.5 | 2.4 |
| Lempira | 4.0 | 4.0 | 3.8 |
| Ocotepeque | 2.1 | 1.8 | 1.8 |
| Olancho | 6.0 | 6.3 | 6.1 |
| Santa Bárbara | 5.0 | 5.2 | 5.1 |
| Valle | 2.0 | 2.0 | 2.1 |
| Yoro | 6.9 | 6.7 | 6.8 |
| Urbanicity | SAMPLE_UNWTD | SAMPLE_WTD | TARGET |
| Urban | 56.1 | 56.8 | 56.4 |
| Rural | 43.9 | 43.2 | 43.6 |