Vietnam 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 PSU selection used information from the 2019 Population and Housing Census of Vietnam. The list of wards and communes defined by the General Statistics Office of Vietnam (2021) is used for SSU sampling selection.

Stratification: The sampling frame was stratified by region and urbanicity, resulting in a total of 12 strata groups. They represent the following regions of Vietnam: Central Highlands, Mekong Delta, North Central & Central Coast, Northern Highlands & Mountains, Red River Delta, and South East. With each region, the sample was further divided into urban and rural areas.

Sample Selection: Primary Sampling Units (PSUs) are districts and Secondary Sampling Units (SSUs) are wards, townships, or communes. PSUs were selected using probabilities proportional to population size, where total 0+ population was the measure of size. SSUs were selected using simple random sampling method. 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 5 households (i.e. every fifth household is selected) in urban areas and a fixed interval of 3 households in rural areas, 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: May 30, 2023 – July 28, 2023

AAPOR3 response rate: 29%

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: 1.46

Margin of error: ± 3.7% (95% confidence level)

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

Age, Gender, Education, Region: 2019 Vietnam Population and Housing Census

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	20.3	18.1	18.1
25-34	22.5	23.2	23.1
35-44	23.6	19.9	19.7
45-54	18.5	16.5	16.4
55+	15.1	22.2	22.7
Education	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Primary Complete	22.4	11.3	10.9
Completed Sec-Completed High School	64.9	65.9	66.0
College, University, postgrad	12.7	22.8	23.1
Sex	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Male	42.9	48.9	49.0
Female	57.1	51.1	51.0
Region/Strata	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Central Highlands - Urban	1.0	1.4	1.5
Central Highlands - Rural	5.0	4.6	4.6
Mekong Delta - Urban	4.0	4.4	4.4
Mekong Delta - Rural	14.0	13.5	13.6
North Central and Central Coast - Urban	6.0	6.2	6.2
North Central and Central Coast - Rural	15.0	14.6	14.8
Northern Highlands/Mountains - Urban	2.0	2.1	2.1
Northern Highlands/Mountains - Rural	11.0	11.0	10.9
Red River Delta - Urban	8.0	7.9	7.9
Red River Delta - Rural	15.0	15.6	15.6
South East - Urban	12.0	11.7	11.7
South East - Rural	7.0	6.8	6.8