

Ukraine 2023 Technical Document

Sampling

A mobile only frame was used to complete 1,000 telephone surveys.

Target Population/Coverage: Adult population (15 years of age or older) who have mobile phones for personal calls. It excludes business phone numbers. Some occupied territories with entrenched Russian control are excluded due to lack of coverage by Ukrainian mobile operators. The exclusion represents approximately 10% of the population.

Stratification: The mobile sampling frame was implicitly stratified by four mobile service providers. Allocation across the strata was proportional to their market shares in terms of the count of mobile numbers they can possibly generate.

Sample Selection: In the case of mobile, sample of specified size was drawn using pure Random Digit Dial (RDD) procedures among the mobile sampling frame. All sampled mobile phone numbers were pre-screened for working status.

For respondents reached on mobile, there was no random selection, just confirmation that they were 15 or older to participate in the survey.

For the purpose of data collection, the total initial sample was split into random subsamples (replicate samples) and released sequentially based on the progress of interviewing in different strata. The goal was to release an optimum amount of sample each time to achieve a high response rate while completing the targeted number of interviews within the field period.

Data Collection: July 27, 2023 – August 3, 2023

AAPOR3 response rate: 9%

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 account 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. The standard demographic variables used for post-stratification are: age, gender, education, and region.

Design Effect: 1.83

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

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

Age, Gender, Region: State Statistical Service of Ukraine: population estimates as of Jan 1 2022

Education: State Statistics Committee of Ukraine , Census 2001

Employment: Past 5 years WP data

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	5.9	9.6	11.2
25-34	19.8	16.6	16.2
35-44	24.4	19.7	19.2
45-54	21.6	16.9	16.4
55-64	16.4	16.8	16.3
65+	11.9	20.4	20.7
Education	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
higher incomplete or less	44.2	84.6	85.1
higher complete and up	55.8	15.4	14.9
Sex	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Male	42.4	44.5	45.5
Female	57.6	55.5	54.5
Region	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Kiev	10.3	7.0	7.0
East	28.2	33.2	33.8
South	12.6	10.8	10.6
West	22.2	24.2	24.5
North	14.3	12.2	12.0
Center	11.8	12.0	12.0
Urbanicity	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Urban	76.6	70.4	69.1
Rural	22.9	29.1	30.2
Employment	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Employed	64.1	53.2	58.0
Not employed	35.9	46.8	42.0