Bosnia and Herzegovina 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 population data from the 2013 Census and from the official State Electoral Commission of Bosnia and Herzegovina, the list of constituencies (2016).

Stratification:
The sampling frame was stratified by geographic region and population size levels, resulting in a total of 28 strata groups. These include 14 regions: Bosnian Podrinje Canton, Central Bosnia Canton, Herzegovina-Neretva Canton, Posavina Canton, Sarajevo Canton, Tuzla Canton, Una-Sana Canton, Canton 10 (West Bosnia), West Herzegovina Canton, Zenica-Doboj, RS West (Republika Srpska), RS East (Republika Srpska), RS South (Republika Srpska), and Brcko District. The regions are divided by 5 population size levels: areas 100k-499k, areas 50k-99k, areas 10k-49k, areas 2-10k, and areas under 2k. Some strata were further aggregated due to its small population size.

Sample Selection:
Primary Sampling Units (PSUs) are Polling Stations Units. PSUs were selected using probabilities proportional to population size, where the count of registered voters was the measure of size. A total of 100 PSUs were selected.

In 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. In large apartment buildings (with 10 or more residential units), an interval of 5 was used. 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 11, 2023 – July 4, 2023

AAPOR3 response rate: 46%

Weighting: The sample data was 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: 1.44

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

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

Age, Gender, Education, Region: Census 2013, Agency for statistics of Bosnia and Herzegovina

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	9.4	14.3	15.8
25-34	13.2	16.5	16.9
35-44	13.7	16.6	16.4
45-54	15.2	18.1	18.0
55-64	19.4	16.6	16.1
65+	29.1	17.8	16.8
Education	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Lower secondary education and below	25.1	33.3	35.5
Upper secondary education / post-secondary non-tertiary education	59.5	56.7	54.9
Tertiary education and above	15.4	10.0	9.6
Sex	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Male	39.8	47.6	48.6
Female	60.2	52.4	51.4
Region	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Bosnian Podrinje Canton (5), F B&H	2.0	0.8	0.7
Central Bosnia Canton (6),F B&H	7.0	7.1	7.1
Herzegovina-Neretva Canton (7), F B&H	6.1	6.1	6.3
Posavina Canton (2), F B&H	2.0	1.3	1.3
Sarajevo Canton (9), F B&H	11.0	11.5	11.7
Tuzla Canton (3), F B&H	12.1	12.5	12.6
Una-Sana Canton (1), F B&H	7.0	7.4	7.5
Canton 10 (West Bosnia) F B&H	2.1	2.3	2.4
West Herzegovina (8), F B&H	3.0	2.7	2.6
Zenica-Doboj Canton (4), F B&H	9.7	10.2	10.2
RS West (Republika Srpska)	21.0	22.5	22.2
RS East (Republika Srpska)	13.0	11.0	11.2
RS South (Republika Srpska)	2.0	1.9	1.9
Brcko District	2.0	2.4	2.4