

Croatia 2023 Technical Document

Sampling

A stratified multi-stage cluster sample design was used to complete 1,004 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 the 2011 population census provided by the Croatian Bureau of Statistics as well as 2020 data from the Electoral Commission.

Stratification: The sampling frame was stratified by geographic region and urbanicity. These include four NUTS2 regions: Panonska Hrvatska, Jadranska Hrvatska, Grad Zagreb, and Sjeverna Hrvatska. Each region is further stratified into urban and rural areas. The entire Grad Zagreb region is urban, resulting in a total of seven strata.

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

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. 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: September 14, 2023 – November 14, 2023

AAPOR3 response rate: 62%

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: 1.94

Margin of error: $\pm 4.3\%$ (95% confidence level)

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

Age, Gender, Education, Region: Census 2021, Croatian bureau of statistics

Urbanicity: Census 2011, Croatian bureau of statistics

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	12.2	12.6	12.1
25-34	20.1	14.2	13.4
35-44	20.1	16.8	15.8
45-54	13.8	15.9	15.7
55-64	15.8	16.5	17.1
65+	17.9	23.9	26.0
Education	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
No education / Elementary complete	7.1	29.4	34.0
High School/Working School	68.3	53.8	50.4
College or Above	24.6	16.8	15.7
Sex	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Male	48.1	48.2	47.7
Female	51.9	51.8	52.3
Region	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Sredisnja Hrvatska	17.9	19.3	19.1
Zagreb i okolica	27.0	26.1	27.3
Dalmacija	20.9	21.3	20.5
Slavonija i Medimurje	22.1	20.6	19.9
Istra, Primorje i Gorski Kotar	12.1	12.7	13.2
Region	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
Urban	56.1	54.9	55.6
Rural	43.9	45.1	44.4