Poland 2023 Technical Document

Sampling
A stratified multi-stage cluster sample design was used to complete 1,002 face-to-face surveys.

Target Population/Coverage:
Non-institutionalized adult population (15 years of age or older) living in households. Areas with low population density were excluded. The excluded areas represent approximately 5 percent of the population. 18+ population numbers at LAU2 level were used for stratification and allocation and comes from Central Statistical office of Poland (30.06.2021 update). Degree of Urbanisation (DEGURBA) classification comes from 2016 LAU2 lookup file (2021). Registry of addresses used for sampling comes from Central Statistical Office of Poland.

Stratification: The sampling frame was stratified by the 7 geographic regions and 3 levels of urbanicity based On Degurba, Resulting In A Total Of 21 Strata Groups. These Include The Seven Geographic Regions: Centralny, Województwo Mazowieckie, Poludniowy, Wschodni, Polnocno-Zachodni, Polnocny And Południowo-Zachodni. The Regions Were Then further stratified by the three Degree of Urbanization (DEGURBA) levels (Urban, Semi-urban and Rural).

Sample Selection:
Census circuits are used as Primary Sampling Units (PSUs). Circuits with less than 100 addresses were combined with their neighbors. PSUs were selected using probability proportional to size (PPS) where the size measure is number of residential units. A total of 100 PSUs were selected.

Household selection was implemented using the address registry. Within each PSU addresses were selected by either simple random or systematic sampling. 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 with the residential unit on the right of the original selected residential unit.

Data Collection: August 27, 2023 – October 29, 2023

AAPOR3 response rate: 55%

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: 1.31

Margin of error: ± 3.5% (95% confidence level)

Population sources used for constructing weights were based on the following:
Age, Gender, Education: Census 2021
Region/Strata: Central Statistical office of Poland 2011

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-29	15.5	18.7	18.8
30-44	28.5	28.4	28.3
45-64	35.4	31.0	30.8
65+	20.6	21.9	22.1
Education	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Primary	7.5	14.9	15.1
Sec/Post Sec	73.8	60.1	59.8
Tertiary	18.8	25.0	25.1
Sex	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Male	41.4	47.6	47.8
Female	58.6	52.4	52.2
Region	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Poludniowy - Urban	8.0	9.1	9.4
Poludniowy - Semi Urban	6.1	6.3	6.3
Poludniowy - Rural	4.0	5.0	5.0
Polnocno-Zachodni - Urban	4.1	4.8	4.8
Polnocno-Zachodni - Semi Urban	6.0	5.7	5.7
Polnocno-Zachodni - Rural	6.0	5.7	5.6
Poludniowo-Zachodni - Urban	4.0	3.3	3.3
Poludniowo-Zachodni - Semi Urban	4.0	3.6	3.6
Poludniowo-Zachodni - Rural	4.0	3.4	3.4
Polnocny - Urban	4.0	5.4	5.4
Polnocny - Semi Urban	4.0	4.1	4.1
Polnocny - Rural	6.0	5.6	5.7
Centralny - Urban	4.0	3.2	3.2
Centralny - Semi Urban	2.0	2.4	2.4
Centralny - Rural	4.0	4.1	4.1
Wschodni - Urban	4.0	3.2	3.2
Wschodni - Semi Urban	4.0	3.6	3.5
Wschodni - Rural	8.0	7.5	7.4
Wojewodztwo Mazowieckie - Urban	6.0	5.7	5.7
Wojewodztwo Mazowieckie - Semi Urban	4.0	3.9	3.9
Wojewodztwo Mazowieckie - Rural	4.0	4.4	4.4