Lithuania 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 2011 population census and Statistics Lithuania 2022. Very small settlements (with less than 100 inhabitants) were excluded. The excluded areas represent approximately 9% of the total population.

Stratification:

The sampling frame was stratified by region and urbanicity, resulting in a total of 20 strata groups. The regions include 10 counties (NUTS3 categories): Vilniaus, Alytaus, Kauno, Klaipedos, Marijampoles, Panevezio, Siauliu, Taurages, Telsiu, and Utenos. The regions were further stratified by urban/rural status as defined by the national statistical office.

Sample Selection: Primary Sampling Units (PSUs) are cities/towns and rural settlements (villages). PSUs were selected using probabilities proportional to population size, where the total 0+ population was 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 randomly selected a respondent using the Kish grid method. In case of refusals or non-contacts, households were replaced along the random route using the same interval.

Data Collection: July 12, 2023 – November 10, 2023

AAPOR3 response rate: 47%

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: 1.40

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

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

Age	SAMPLE_UNWTD	SAMPLE_WTD	TARGET
15-24	7.7	11.3	11.3
25-34	12.1	15.0	15.0
35-44	13.4	15.7	15.7
45-54	13.8	16.1	16.5
55-64	18.2	18.2	18.0
65+	34.8	23.7	23.5
Education	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Basic Education or Less	12.3	23.8	24.6
Secondary/Post Secondary	52.0	48.7	48.2
Higher	35.7	27.6	27.2
Sex	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Male	39.7	45.5	45.7
Female	60.3	54.5	54.3
Region	**SAMPLE_UNWTD**	**SAMPLE_WTD**	**TARGET**
Vilniaus county -- Urban	22.0	22.5	22.6
Vilniaus county -- Rural	6.0	5.8	5.9
Alytaus county -- Urban	3.0	3.0	3.0
Alytaus county -- Rural	2.0	2.1	2.0
Kauno county -- Urban	14.0	14.4	14.2
Kauno county -- Rural	6.0	6.1	6.1
Klaipedos county -- Urban	8.0	7.8	8.0
Klaipedos county -- Rural	3.0	3.4	3.3
Marijampoles county -- Urban	3.0	2.6	2.5
Marijampoles county -- Rural	2.0	2.4	2.4
Panevezio county -- Urban	5.0	4.8	4.7
Panevezio county -- Rural	3.0	3.1	3.1
Siauliu county -- Urban	6.0	6.0	6.0
Siauliu county -- Rural	3.0	3.2	3.4
Taurages county -- Urban	2.0	1.5	1.5
Taurages county -- Rural	2.0	1.9	1.9
Telsiu county -- Urban	3.0	2.9	2.9
Telsiu county -- Rura	2.0	1.9	1.9
Utenos county -- Urban	3.0	2.7	2.7
Utenos county -- Rural	2.0	2.0	2.0