



AmericasBarometer, 2012

Technical Information

<i>Country</i>	<i>Year</i>	<i>Sample Size</i>	<i>Weighted/Unweighted</i>	<i>Fieldwork dates</i>
Suriname	2012	1,492	Unweighted	April 22 nd to May 10 th

LAPOP AmericasBarometer 2012 round of surveys

In its effort to collect the highest quality data possible, the Latin American Public Opinion Project (LAPOP) decided to adopt a new sample design for the AmericasBarometer 2012 round of surveys. The two main reasons for this decision were: (1) updating the sample designs to reflect the population changes as revealed by recent census information, and (2) standardizing the sample sizes at the level of the municipality in order to both reduce the variance and provide an initial basis for using multi-level analysis drawing on municipal data. This change in the sample design makes the sample representative by municipality size¹ for all countries, to enable the use of the municipality as a unit of analysis for multilevel statistical analysis.

- 1) Prior LAPOP surveys were based on the 2000 round of national census data. Since new censuses have been carried out in many countries in Latin America and the Caribbean over the last few years, the samples were updated in order to take into account population shifts, so that sample designs are based on the most current population distributions available (by sex and age and also across geographical units within each country). Unfortunately, not all nations in our sample had updated census data available at the time LAPOP designed the

¹ The new sample design included three different strata of municipalities classified according to their size. Municipalities were grouped in sizes appropriate for the country. One common grouping was (1) Municipalities with less than 25,000 inhabitants, (2) Municipalities with between 25,000 and 100,000 inhabitants, (3) Municipalities with more than 100,000 inhabitants.

2012 AmericasBarometer. We plan to integrate new census information for future rounds as they become available.

- 2) With the objective of making it possible to perform subnational multi-level analyses and therefore assess the impact of both contextual and individual level characteristics at the subnational level, LAPOP adopted a new strategy for designing survey samples that allocate a somewhat larger number of cases to smaller municipalities within each country. Recent studies have demonstrated the importance of considering both the effects of municipal as well as regional characteristics on citizens' attitudes and behaviors; however, multilevel analyses are only feasible if a reasonable number of interviews are carried out in each municipality, and if those interviews are reasonably well distributed throughout each municipality. Prior LAPOP samples were PPS² adjusted to the municipal level, but this meant that some municipalities had a very small number of interviews, while others were quite large. A single large municipality, e.g., the capital of the country, could have drawn a very large number of interviews. For the 2012 round, we continued to use PPS in the selection of the municipalities themselves, but established a target minimum sample size for each municipality of 12 respondents for larger countries and 24 respondents in smaller countries, in both cases divided into clusters of six respondents each. The clusters were distributed in direct proportion to the urban/rural breakdown of a given municipality³. Thus, by increasing the number of interviews per municipality in the smallest municipalities, LAPOP seeks to facilitate investigating subnational patterns using multilevel modeling techniques. For the larger municipalities, we also retained the PPS approach, but would often subdivide the large cities into districts (or equivalent units) whenever possible so that a large city might have 4 or even 6 PSUs. Our rationale there was to treat the district as a unit for the purposes of calculating the intra-class correlations (rho statistic). The largest gains from this new sample design will come in subsequent rounds of surveys, as aggregated data across time will provide users with larger municipal sample sizes. The 2012 round established the basis for collecting useful data at the municipal level that can be merged with future round of surveys using the same sample design.

Simulations were carried out using the 2010 data set in order to determine the impact of revising the sample designs. Those simulations demonstrated the efficacy of the new design proposal, but required some modification for the largest countries in the sample. At the same time, the 2012 round sample design continue to utilize the very same strata as in prior years in order to maintain the reporting continuity of prior studies.

² Probability Proportional to Size

³ It should be noted that in some countries particular circumstances forced some deviation from this norm of 12 and 24 respondents per municipality. Users of the database should examine the variable PSU included in the UNWEIGHTED dataset to find sample sizes per municipality (or subunits of municipalities when the population size of the municipality was very large).

The remaining pages of this technical note describe the sample design of the AmericasBarometer 2012 survey in Suriname.

Suriname 2012 AmericasBarometer Round

This survey was carried out between April and June of 2012, as part of the LAPOP AmericasBarometer 2012 wave of surveys. The 2012 survey was conducted by Vanderbilt University with the field work being carried out by the University of West Indies. The 2012 AmericasBarometer received generous support from many sources, including USAID, UNDP, IADB, Vanderbilt U., Princeton U., Université Laval, U. of Notre Dame, among others.

The project used a national probability sample design of voting-age adults, with a total N of 1,492 people. It involved face-to-face interviews conducted in Dutch and Sranan Tongo. The survey used a complex sample design, taking into account stratification and clustering, and weighting.

The sample consists of five strata representing the five main geographical regions: Pamaribo, Wanica/Para, Nickerie/Coronie/Saramancca, Commewijne/Marowijne, and Brokopondo/Sipaliwini. Since some of the regions have a small population, a larger sample of respondents from these regions was drawn, and sample weights were incorporated to reflect the actual known distribution of the population between the five regions. The sample must be weighted to produce a representative national result. Each stratum was further sub-stratified by urban and rural areas. Respondents were selected in clusters of 24 interviews.

Table 1 shows the unweighted sample size in each of the five regions (strata) and by municipality size.

Table 1: Sample sizes by Strata and Municipality Size in the 2012 AmericasBarometer Survey in Suriname

Strata	Unweighted Sample Size
Paramaribo	520
Wanica / Para	306
Nickerie / Coronie / Saramancca	240
Commewijne / Marowijne	215
Brokopondo / Sipaliwini	211
Total	1,492

The sample consists of 52 primary sampling units and 252 final sampling units. A total of 528 respondents were surveyed in urban areas and 984 in rural areas. The estimated margin of error for the survey is ± 2.5 .

Quotas for gender and age were adopted since multiple recalls in a national sample such as this are impractical from a cost standpoint. Our experience shows that even three recalls leave the sample with a notable gender imbalance (more women than men). Rather than have to include post-hoc weights to adjust for this sample error, we resolve the problem in the field via quotas.

Weighting of the Suriname datasets

The dataset contains a variable called WT which is the “country weight” variable. Since in the case of Suriname the sample is self-weighted, the value of each case = 1. The variable “WEIGHT1500” should be activated to produce representative national results. When using this dataset for cross-country comparisons, in order to give each country in the study an identical weight in the pooled sample, LAPOP reweights each country data set in the merged files so that each country has an N of 1,500. In SPSS this is done via the “weight” command.

Readers can access the questionnaire through a link on the LAPOP website: www.AmericasBarometer.org.