



## AmericasBarometer, 2014

### *Technical Information*

<i>Country</i>	<i>Year</i>	<i>Sample Size</i>	<i>Weighted/Unweighted</i>	<i>Fieldwork dates</i>
Trinidad and Tobago	2014	4,207	Weighted	March 15 <sup>th</sup> to June 6 <sup>th</sup>

### ***LAPOP AmericasBarometer 2014 round of surveys***

In its effort to collect the best quality data possible and therefore produce the highest quality studies, the Latin American Public Opinion Project (LAPOP) adopted a new sample design for the AmericasBarometer 2012 round of surveys, which was also employed in 2014. The two main reasons for this decision to change the sample design from that which was used in the 2004-2010 period 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 a basis for using multi-level analysis drawing on municipal data. This change in the sample design makes the sample representative by municipality type<sup>1</sup>, to enable the use of the municipality as a unit of analysis for multilevel statistical analysis. Details of the revisions are found in the description of the 2012 AmericasBarometer surveys.

In 2013 LAPOP entered into a Memorandum of Understanding (MOU) with the Institute for Social Research at the University of Michigan for assistance in and advice on the AmericasBarometer. One of the world's leading experts in sample design methodology, Dr. Jim Lepkowski, and his graduate students, advised us throughout the process. Over the course of a

<sup>1</sup> 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.

year we worked with Dr. Lepkowski and his team of graduate students to review each previously developed sample design and to secure their input and advice on new designs. Our colleagues at the University of Michigan, confirmed that LAPOP had already been following the best practices, within the limits of resources at our disposal, in its sample design. Our own review of the major update we carried out in 2012 sample design left us pleased in almost every respect. The effort to obtain a standard sample size per municipality/canton/parish did not have any adverse impact on intra-class correlation levels, yet has given us a basis for calculating context effects at the local level. In some particular cases, however, in the 2014 round we requested country teams to conduct specific alterations, like updating their sampling frame to take into consideration (if available) the new 2010-2011 national census information. We also asked teams to verify that the 2012 sample design continues to reflect and represent each country population structure and distribution.

Finally, after several rounds of consultations and technical discussions with experts at the ISR at the University of Michigan on how to update the 2012 samples for the 2014 round of surveys, LAPOP requested that countries to update their samples at the block level while retaining the same primary and sub-stratification units (i.e., *Estratopri, Municipalities and Census Segments*) that were included in the 2012 sample. This means that users of prior AmericasBarometer surveys can do so knowing that the designs across time remain very similar, if not identical. Countries that had new population census available and did not experience significant population shifts or changes in their population distribution were asked to replicate the 2012 sample using the latest census information available and to replace the sampling points at the block level.

With respect to *data collection*, in the 2014 round of the AmericasBarometer we expanded the use of handheld electronic devices. For the first time, we employed for data collection the “Adgys”<sup>©</sup> questionnaire app designed by our partners in Cochabamba, Bolivia. The use of electronic devices for interviews and data entry in the field reduces data entry errors, supports the use of multiple languages, and permits LAPOP to track on a daily basis the progress of the survey, down to the location of interviews (which are monitored in real time, or nearly real time, but not recorded into the public datasets in order to preserve respondents’ privacy) and the timing of the interviews. The team in Bolivia worked long hours to program the samples and questionnaires into the Adgys platform for the 20 countries in which we used this technology. In the remaining 6 countries we continued our use of PDAs and a Windows Mobile-based software application supported by our hardworking partners at the University of Costa Rica.

The remaining pages of this technical note describe the sample design of the AmericasBarometer 2014 survey in Trinidad and Tobago.

## ***Trinidad and Tobago 2014 AmericasBarometer Round***

This survey was carried out between March 15<sup>th</sup> and June 6<sup>th</sup> of 2014, as part of the LAPOP AmericasBarometer 2014 wave of surveys. The 2014 survey was conducted by Vanderbilt University with the field work being carried out by University of West Indies. The 2014 AmericasBarometer received generous support from many sources, including USAID, UNDP, IADB, Vanderbilt U., Princeton U., Université Laval, U. of Notre Dame, among others.

In this sample design, as a sampling frame, we used the list of municipalities, communities, enumeration districts, and maps in Trinidad & Tobago from the 2000 census by the Central Statistical Office (CSO). The project used a national probability sample design of voting-age adults, with a total N of 4,207 people. It involved face-to-face interviews conducted in English. The survey used a complex sample design, taking into account stratification and clustering, and weighting.

The Trinidad and Tobago 2014 survey included an oversample conducted in the Regional Corporations of Port of Spain, Diego Martin, and San Juan/ Laventille, located in the Western Strata. The original 2012 sample size in the Western Strata (of 320 cases) was expanded in the 2014 round to 3,011 cases. The additional Enumeration Districts in these three Regional Corporations was done using PPS, based on the most recent population census of 2011.

The sample consists of five strata representing the five main geographical regions: west, east, central, south, and Tobago. Since Tobago has a small population, a larger sample of respondents from this island was drawn, and sample weights were incorporated to reflect the actual known distribution of the population between the two islands. The sample must be weighted to produce a representative national result. Each stratum was further sub-stratified by Cities and Boroughs and urban and rural areas.

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.

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 and 2014 AmericasBarometer Survey in Trinidad and Tobago**

<b>Strata</b>	<b>Unweighted Sample Size 2012</b>	<b>Unweighted Sample Size 2014</b>
Western	320	3,011
Eastern	300	301
Central	298	306
Southern	384	384
Tobago	205	205
<b>Total</b>	<b>1,506</b>	<b>4,207</b>
<b>Size of Municipality</b>		
More than 100,000 inhabitants	247	578
Between 25,000 and 99,999 inhabitants	863	3,256
Less than 25,000 inhabitants	396	373
<b>Total</b>	<b>1,506</b>	<b>4,207</b>

Respondents were selected in clusters of 6 interviews. The sample consists of 349 primary sampling units and 698 final sampling units which represent 21 departments in Trinidad & Tobago. A total of 3,834 respondents were surveyed in urban areas and 373 in rural areas. The estimated margin of error for the survey is  $\pm 2.5$ .

### ***Weighting of the Trinidad and Tobago datasets***

The AmericasBarometer 2014 sample of Trinidad and Tobago is not self-weighted. The dataset contains a variable called WT which is the “country weight” variable. 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](http://www.AmericasBarometer.org).