

AmericasBarometer 2018/19: Jamaica

Technical Information

<u>Country</u>	<u>Year</u>	<u>Sample Size</u>	<u>Weighted/Unweighted</u>	<u>Fieldwork dates</u>
Jamaica	2019	1,513	Self-Weighted	February 8 th -April 12 th , 2019

LAPOP's AmericasBarometer 2018/19 Survey Round

LAPOP is a pioneer in survey research methods. LAPOP's AmericasBarometer is a unique tool for assessing the public's experiences with democratic governance. The AmericasBarometer permits valid comparisons across individuals, regions, countries, and time, via a common core questionnaire and standardized methods.

The 2018/19 AmericasBarometer represents the 8th round of this project. Fieldwork for this round began in late 2018 and continued into the summer of 2019. A total of 20 countries were included in this wave. The full dataset for this round includes 31,050 interviews, conducted based on national sample designs and implemented with the assistance of partners across the region. LAPOP makes all country datasets and reports available for download for free from its website at www.LapopSurveys.org.

In the 2018/19 round of the AmericasBarometer, LAPOP has continued a tradition of innovation, with improvements in monitoring interview quality on a daily basis during the course of fieldwork. Handheld devices for data collection were used in 100% of face-to-face interviews. As in prior rounds of the AmericasBarometer, the U.S. and Canada studies were conducted online, while all other interviews were conducted face-to-face. In the 2018/19 round, face-to-face interviews were conducted using the SurveyToGo© (STG) software, running on Android tablets and phones.

As per the sample design, for the face-to-face surveys in the Latin America and Caribbean region, the 2018/19 round of the AmericasBarometer continues to use the sample strategy introduced for the first time in the 2012 round of the surveys and also employed in the 2014 and 2016/17 rounds. This sample design continues to use, in almost all cases, the same stratification employed since 2004, making adjustments where necessary when census information is updated. The samples are designed to be representative at the primary stratum level, urban/rural areas and by size of the municipalities. The current design (implemented since 2012) stabilized the primary sampling unit (PSU) and cluster sizes, with the selection of each PSU based on PPS (Probability Proportional to Size). Within PSUs, clusters are also standardized (typically 6 interviews) to minimize intra-class

correlation while taking advantage of economies of fieldwork that simple random selection of interviews within the entire PSU would not make possible.

The remaining pages of this technical note describe the sample design of the 2018/19 AmericasBarometer survey in Jamaica.

2018/19 AmericasBarometer: Jamaica

This survey was carried out between February 8th and April 12th, 2019 as part of LAPOP's 2018/19 AmericasBarometer. It is a follow on to LAPOP's AmericasBarometer Jamaica surveys of 2004, 2006, 2008, 2010, 2012, 2014 and 2017. The 2019 survey fieldwork was carried out by the University of West Indies on behalf of LAPOP. Key funding came from Vanderbilt University and USAID.

Questionnaire pretesting took place in Kingston on January 15th and 17th, 2019 and interviewer training took place between February 2nd and 3rd, 2019. A full copy of the 2018/19 AmericasBarometer Jamaica questionnaire can be found at LAPOP's website at www.LapopSurveys.org.

The project used a national probability sample design of voting-age adults, with a total N of 1,513 people involving face-to-face interviews conducted in English. The SurveyToGo© (STG) software, running on Android tablets and phones, was used to conduct 100% of the interviews.

The survey used a complex sample design, including stratification and clustering. The sample was developed by LAPOP, using a multi-stage probability design and was stratified by the four main geographical regions: Kingston Metropolitan Region, Surrey, Middlesex, Cornwall. The sample is representative at the national level and of the four regions as shown in the map below (see Figure 1). Each stratum was further sub-stratified by size of municipality¹ and by urban and rural areas within municipalities. Respondents were selected in clusters of 6 in urban and rural areas. Reported statistics or statistical analyses should be adjusted for the design effect due to the complex design of the sample.²

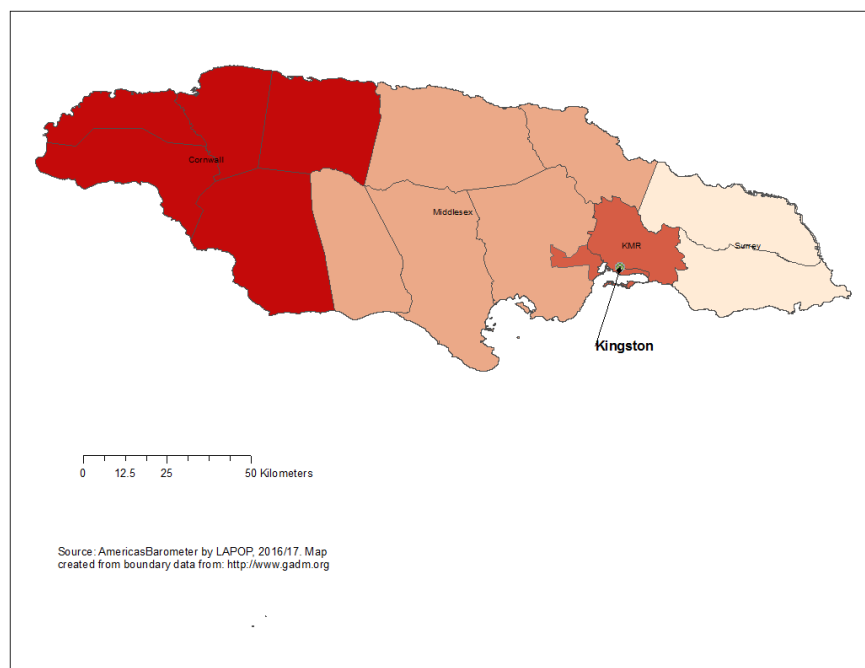
The sample frame used for the sample is the 2001 Population Census in Jamaica. The sample is representative of voting age population at the primary stratum level, by urban/rural areas, and by size of the municipalities. No areas or regions of the country were excluded in the sample design.

¹ The sample design includes three different strata of municipalities classified according to their size. Municipalities were grouped in sizes as follow: (1) Small municipalities with less than 25,000 inhabitants, (2) Medium-sized municipalities with between 25,000 and 100,000 inhabitants, (3) Large municipalities with more than 100,000 inhabitants.

² For more information visit <http://www.vanderbilt.edu/lapop/survey-designs.php>

No substitutions of sampling units were requested or done during fieldwork in 2018/19 AmericasBarometer survey in Jamaica.³

Figure 1: Sample Stratification in Jamaica



**Table 1: Sample sizes by Strata and Municipality
Size in the 2018/19 AmericasBarometer Survey in Jamaica**

Strata	Sample Size by Design	Number of Interviews (Unweighted)
Kingston Metropolitan Area	528	541
Surrey	150	152
Middlesex	486	485
Cornwall	336	335
Total	1,500	1,513
Size of Municipality		
More than 100,000 inhabitants	714	726
Between 25,000 and 100,000 inhabitants	546	542
Less than 25,000	240	245
Total	1,500	1,513

The sample consists of 58 primary sampling units and 250 final sampling units across all the departments in Jamaica. A total of 907 respondents were surveyed in urban areas and 606 in rural

³ For more information on LAPOP's substitution protocols see LAPOP's methodological note "Sample Substitutions in the AmericasBarometer 2016/17" by Facundo Salles Kobilanski, Georgina Pizzolitto, and Mitchell A. Seligson (August 2019). Available at <https://www.vanderbilt.edu/lapop/insights/IMN006en.pdf>

areas. The estimated margin of error for the survey is ± 2.5 . Margin of sampling errors are not adjusted for weights. Table 1 shows the sample size in each of the regions (primary stratum) and by municipality size.

LAPOP uses “frequency matching,” a technique that permits one to obtain a sample with a distribution of age and gender similar to that of the national census or electoral registration lists. Frequency matching avoids the extremely costly effort involved in making multiple callbacks to each missed unit within each PSU in an effort to obtain a balanced sample. In national, face-to-face interviewing, multiple callbacks are often impractical from a cost standpoint. Our experience reveals that even three callbacks leave the sample with a notable gender imbalance (more women than men, since women are more likely to be at home than men). Rather than having to include post-hoc weights to adjust for this sample error, which can be large, we resolve the problem in the field via using a distribution of interviews among gender and ages that reflects the structure of the population.⁴

A single respondent was selected in each household, following the frequency matching distribution programmed into the sample design, by gender and age as mentioned above. Respondents are limited to household members who reside permanently in that household (thus excluding visiting relatives), who fit the age and residency requirements (limited to adult citizens and permanent residents). If two or more people of the same sex and age group were present in the household at the moment of the visit of our interviewer, the questionnaire was applied to the person who most recently celebrated a birthday (i.e., the “last birthday” system) in order to avoid selection bias.

Participation in the AmericasBarometer survey is anonymous and voluntary.⁵ Eligible respondents agree to participate in the survey are administered the survey after the questionnaire after giving their consent to interviewers.⁶

Weighting of the Jamaica datasets

The dataset contains a variable called “wt” which is the “country weight” variable. Since in the case of Jamaica the sample is self-weighted, the value of each case =1. 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. The weight variable for cross-country comparisons is called “weight1500.” In SPSS, this is done via the “weight” command. Weights are already activated in SPSS datasets. In

⁴ An alternative strategy is to post hoc weight such samples in order to force the sample to correspond to the census distributions. However, if the fieldwork produces a substantial deviation from those distributions, the result could be placing excessive confidence on a very small number of respondents for some population group (e.g., older males). The resulting widening of confidence intervals for these weighted small sample group could limit inferences drawn from such weighted samples.

⁵ No incentives (cash or in-kind) are provided to respondents for participating in the survey.

⁶ For the purpose of an informed consent process, interviewers are required to read a letter containing details about the study and participation before starting the interview.

Stata, one should use the `svyset` command to weight the data and declare the sampling information to correctly compute standard errors that take into account the design effects. The command for single country, single year studies is: `svyset upm [pw=wt], strata(estratopri)`. For cross-country and/or cross-time studies, the command is: `svyset upm [pw=weight1500], strata(strata)`. These declarations have been made in Stata datasets. One must use the `svy` prefix with estimation commands to compute the weighted statistics and correct standard errors (see `help svy_estimation` within Stata for more information).

Response Rates in Jamaica

In this section we present the number of attempts that interviewers did to obtain an interview as well as the survey response rates.⁷ AmericasBarometer response rates are based on AAPOR's Standard Definitions. The response rate is the number of complete interviews with reporting units divided by the number of eligible reporting units in the sample. LAPOP has programmed in SurveyToGo a module of questions and skips that permits the accurate recording of the number of refusals, ineligible respondents, or non-contact. This in turn allows for estimating the response rates in each country. Two definitions of response rates are provided below, ranging from the definition that yields the lowest rate to the definition that yields the highest rate, depending on how partial interviews are considered and how cases of unknown eligibility are handled.

Response rates reported below are:

$$\text{Response Rate 1 (RR1)} = \frac{C}{C+P+R+N+O+UH+UO}$$

$$\text{Response Rate 3 (RR3)} = \frac{C}{C+P+R+N+O+e(UH+UO)}$$

Where: where C refers to completed interviews, P to partial interviews, R to refusals, N for non-contacts, O for others, UH for unknown if household, UO to unknown others, and e is the eligibility rate calculated using the CASRO method: $e = \text{Eligible} / (\text{Eligible} + \text{Ineligible})$.

⁷ For additional information on how response rates are estimated, see LAPOP's Methodological Note: "How Does LAPOP Calculate Response Rates? By Zachary Warner and Gabriel Camargo-Toledo (June 2019). Available at: <https://www.vanderbilt.edu/lapop/methods-005rev.pdf>

Table 2: Response Rates in the 2018/19 AmericasBarometer Survey

Country	AB2018/19		
	RR1	RR3	Eligibility
Uruguay	0.11	0.18	0.55
Argentina	0.12	0.15	0.78
El Salvador	0.12	0.13	0.86
Bolivia	0.15	0.2	0.67
Mexico	0.15	0.2	0.71
Peru	0.15	0.19	0.73
Chile	0.18	0.2	0.92
Paraguay	0.20	0.22	0.82
Ecuador	0.21	0.27	0.69
Colombia	0.22	0.27	0.76
Costa Rica	0.23	0.26	0.85
Nicaragua	0.24	0.25	0.92
Brazil	0.26	0.3	0.83
Dominican Republic	0.26	0.31	0.77
Panama	0.36	0.38	0.93
Honduras	0.38	0.39	0.94
Guatemala	0.46	0.48	0.92
Jamaica	0.50	0.51	0.96

Quality Control in Jamaica

In the 2018/19 AmericasBarometer, Quality Control was based in FALCON© (Fieldwork Algorithm for LAPOP’s Control over Survey Operations and Norms), which includes, but is not limited to, an interviewer identity monitoring check, a geo-fencing system,⁸ time checks, a reading control check, and data fabrication and falsification audits. In this round LAPOP developed a quality control score that assign penalties or demerits to interviews during their audit. In this system, higher scores indicate more serious errors, and we refuse to accept (that is, we require the cancelation of) low quality interviews.

The local firm audited 100% of interviews. All interviews were also run through LAPOP’s automatic flagging system, and then LAPOP’s team manually audited a subset of the interviews. A total of 57 interviews were canceled in Jamaica in the 2018/19 round of the Americas Barometer. The most predominant reasons for canceling an interview were poor reading of questions and skipping of questions. The quality control report for Jamaica 2018/19 is included in Annex 1.

For additional information on the survey design contact Georgina Pizzolitto to georgina.pizzolitto@vanderbilt.edu.

⁸ Geo-fences were programmed at the municipal level in Jamaica.

Annex 1: Quality Control Report

Introduction

Producing high quality survey data is a core mission at the Latin American Public Opinion Project (LAPOP). The LAPOP research team implements and constantly updates a set of rigorous fieldwork protocols that both office personnel and fieldwork operators are required to follow closely. These include state-of-the-art sampling techniques; iterative pre-testing; interviewer, supervisor and quality control officer training; and standardized methods of data processing and analysis. They further include a sophisticated monitoring algorithm of data collection in real time. LAPOP's fieldwork monitoring system – FALCON © (Fieldwork Algorithm for LAPOP Control over survey Operations and Norms) – includes, but is not limited to, data fabrication and falsification audits, a geo-fencing system, a reading control check, an interviewer identity monitoring check, and timestamp checks. FALCON works with SurveyToGo (STG) software that is customized for LAPOP fieldwork. FALCON enables quality control teams at LAPOP and in the survey firms to assess the quality of interviews while fieldwork is in progress, and to provide feedback to interviewers throughout fieldwork.

During fieldwork, the system automatically flags interviews in which enumerators appear to be fabricating data. Trained quality control officers meticulously study these flagged interviews to assess the extent to which there is enough evidence of fraud. Auditors then communicate their findings to country coordinators in LAPOP central. After making a decision, LAPOP communicates with the survey company so they can replace the fraudulent interviews and adjust interviewer behavior, or at the extreme, separate faulty interviewers from the project.

The geo-fencing system flags interviews conducted in the wrong location. If a location flag is triggered, then we consult with the firm and use the GPS coordinates to check whether the interview took place at a residence in the assigned location. We regularly check mobile device logs to ensure that interviewers have not altered phone settings to impede, for example, the collection of GPS coordinates, and an automatic feature flags the use of GPS masking apps. We also audit interviewer routes, to assess whether they correctly followed rules for selecting dwellings and individual respondents.

Quality control officers also compare images silently captured via front-facing cameras to interviewer photos to ensure that the enumerators in the field are those trained by LAPOP staff.⁹ The background of those images also provides information about the environment in which the interview takes place, permitting detection of interviews conducted in odd places (e.g., at parks or shops).

⁹ All images use a front-facing camera to ensure that respondent anonymity is not compromised (that is, the camera only records images of the interviewers). Study participants are informed prior to consenting to be interviewed that some of their answers are recorded for quality control.

Our quality control personnel audit “Key Performance Indicators,” which provide detailed information about fieldwork start and end times each day, the number of interviews carried out in a particular timeframe, and the average duration of interviews, among other metrics. Finally, we listen to audio recordings to ensure that enumerators read items completely and correctly, without interpreting the question, skipping items, or influencing respondents’ answers.

Based on these audits, we assign each interview a quality control score using a “demerit” system. In this system, higher scores indicate more serious errors, and we refuse to accept (that is, we require the cancelation of) low quality interviews. Local firms audit 100% of all interviews according to our protocols. All interviews are also run through LAPOP’s automatic flagging system, and then LAPOP’s team manually audits a subset of the interviews. When low quality interviews are identified by the local firm or LAPOP, the firm is obligated to replace them. Because FALCON works in real time (meaning, while fieldwork is in progress), canceled interviews can be and are replaced by high quality interviews.

In this report, we summarize the results of this quality control process as implemented in the 2019 Jamaica AmericasBarometer national survey.

LAPOP worked with the Centre for Leadership & Governance at the University of the West Indies, Mona to collect data from 1,513 voting-age adults in 52 municipalities in Jamaica. For more information on the sample design, see the project’s [website](#). The fieldwork yielded:

- 1,513 approved interviews
 - The Centre for Leadership & Governance audited 100% of these interviews
 - LAPOP’s automatic quality control system audited 100% of the interviews.¹⁰
 - LAPOP audited manually approximately 400 interviews.¹¹
- 57 canceled interviews
 - The most predominant reasons for canceling an interview were reading issues on the study information sheet (formerly known as “informed consent”) and poor reading of multiple questions.

Quality Assurance Chapter (QuAC)

The Quality Assurance Chapter log reports on the most common problems found by the auditing team during fieldwork. The items in the QuAC are listed below:

¹⁰ LAPOP has developed an automatic quality control system that reviews 100% of interviews as soon as they are uploaded to the cloud. The automatic system checks location and timestamps, the latter of which is used to identify data fabrication.

¹¹ As part of our protocols, LAPOP Central manually audits approximately 1/3 of initially approved interviews.

Items in the Quality Assurance Chapter (QuAC)¹²
The enumerator interviews himself/herself ¹³
Audio files are attached, but no one is heard speaking - or only the interviewer can be heard ¹⁴
The interviewer sets the device to “Airplane Mode” ¹⁵
The interviewer turns off the device’s GPS ¹⁶
The interviewer covers or disables the camera to avoid photo captures ¹⁷
The interviewer interviews another enumerator ¹⁸
The interviewer interviews someone that he/she knows ¹⁹
The photographs do not correspond to those of the interviewer or there are inconsistencies in the photographs ²⁰
The voice in the audio files does not correspond to the interviewer’s voice ²¹
The attempts are exhausted ²²
The respondent does not complete the interview and leaves it ²³
The interviewer decides to end the interview for any other reason ²⁴
The interview is carried out in an incorrect location (a shopping mall, store, park, gas station, school, etc.) ²⁵
The interview starts and ends in different locations ²⁶
The net interview duration is less than 25 minutes or more than 2 hours ²⁷
The interviewer does not read the complete study information sheet ²⁸
The interviewer reads only parts of the study information sheet ²⁹

¹² Each item has a predetermined score that STG automatically computes after the auditing process is completed. Based on our protocols, if an interview reaches a score of 20 or more, the interview is canceled and replaced by the local firm.

¹³ This item refers to an interviewer who asks and responds to questions by himself/herself without the present of a valid respondent.

¹⁴ This point refers to interviewers who complete an interview without asking questions.

¹⁵ This point refers to interviewers turning on “airplane mode” on the device deliberately.

¹⁶ This point refers to interviewers turning off the GPS of the device deliberately.

¹⁷ This point refers to interviewers covering the front camera of the device deliberately.

¹⁸ This point refers to interviewers who fake interviews by interviewing another member of the interviewer’s team.

¹⁹ This point refers to interviewers who fake interviews by not interviewing a respondent within selected households.

²⁰ This point refers to cases in which the interviewer is not part the team trained by LAPOP Central.

²¹ This point refers to cases in which the voice of the interviewer does not match with his/her voice in previous interviews.

²² This point refers to cases in which interviewers could not find a valid respondent after completing 100 attempts.

²³ This point refers to respondents abandoning the interview before it is completed.

²⁴ This point refers to interviewers abandoning the interview before it is completed.

²⁵ This point refers to interviewers who conducted an interview in public places and not residential zones.

²⁶ This point refers to interviewers who started an interview in one location and completed it in a different location.

²⁷ This point refers to interviews that lasted less than a minimal amount of time pre-set by LAPOP.

²⁸ This point refers to interviewers not reading the information sheet to respondents at the beginning of the interview.

²⁹ This point refers to interviewers not reading completely the information sheet at the beginning of the interview.

The interviewer changes words from the study information sheet ³⁰
The interviewer changes the expected duration in the information sheet ³¹
The interviewer is overly pushy with respect to continuing with the interview, in response to an individual expressing reservations about participating ³²
The interviewer reads 1, 2, or 3 (or more) questions incompletely/incorrectly ³³
The interviewer reads 1, 2, or 3 (or more) too quickly/unintelligibly ³⁴
The interviewer interprets a question meaning 1, 2, or 3 (or more) times ³⁵
The interviewer skips 1, 2, or 3 (or more) questions without reading, or the interviewer does not give the interviewee time to respond ³⁶

Problems reported during the quality control process

Our efforts to identify the different types of errors that occur during interviews allow insight into the prevalence of serious errors like those consistent with fabrication. We are pleased to report that such errors account for a very small portion of all errors in our interviews. The vast majority of errors, such as misreading questions, are consistent with sloppy or forgetful interviewing, not with data fabrication.³⁷

Problems found during the quality control process	% of total interviews (approved and canceled)
Abandoned interviews	0.3%
Interviews conducted in public places	0.6%
Change of interview duration on the consent information sheet	2%
Interpretation of questions	0.3%
Partial reading of the consent information sheet	14.4%
Skips of questions	0.3%
Interviews flagged for questions' time by the automatic quality control system ³⁸	18.9%
Poor reading of multiple questions ³⁹	53.2%

³⁰ This point refers to interviewers changing the information sheet at the beginning of the interview.

³¹ This point refers to interviewers changing the anticipated duration of the interview on the information sheet at the beginning of the interview.

³² This point refers to interviewers who continue an interview even though the respondent definitively rejected his/her participation on the consent information sheet.

³³ This point refers to interviewers reading incorrectly and incompletely at least one question of the questionnaire.

³⁴ This point refers to interviewers reading too fast, on at least one question of the questionnaire.

³⁵ This point refers to interviewers interpreting the meaning of a question asked of respondents.

³⁶ This point refers to interviewers skipping and not asking at least one question on the questionnaire.

³⁷ For information about these procedures and interview quality in the AmericasBarometer 2016/17, please [click here](#).

³⁸ This item refers to flagged questions captured by the automatic quality control system because the time stamps suggest a possible skip of the full question reading. In these cases, an auditor reviews the flagged questions by verifying the time duration and listening to the audio (if available).

³⁹ This item includes cases of questions read too fast, incompletely, or incorrectly.

Key performance indicators:

Key performance indicators are STG measures that help us track fieldwork progress and analyze teams' efficiency. Below are results for interview average duration, GPS information, and geo-fencing data.

Interview average duration (minutes)	% of approved interviews	% of canceled interviews	% of total interviews (approved and canceled)
<25	0.2% ⁴⁰	14.04%	0.7%
25 – 45	47.32%	50.88%	47.45%
45 – 60	33.18%	12.28%	32.42%
60+	19.3%	22.81%	19.43%

GPS information available on interviews	% of approved interviews	% of canceled interviews	% of total interviews (approved and canceled)
No	19.96%	24.56%	20.13%
Yes	80.04%	75.44%	79.87%

Interviews within and outside the geo-fencing system	% of approved interviews	% of canceled interviews	% of total interviews (approved and canceled)
Interviews conducted outside the assigned geo-fence	1.32% ⁴¹	22.8%	2.1%
Interviews conducted inside the assigned geo-fence	98.68%	77.2%	97.9%

⁴⁰ This percentage corresponds to three interviews that were conducted between 20 and 25 minutes. After the quality control review, these interviews were approved since all the questions were done correctly.

⁴¹ These interviews were analyzed and reviewed by the team and LAPOP. All of them were manually confirmed to be in the right location.