

COUNTRY REPORT – BERMUDA
CARICOM'S 38TH MEETING OF THE SCCS, FRIGATE BAY, ST. KITTS & NEVIS, OCTOBER 28TH – 30TH, 2013

AREA OF STATISTICS	DATA PRODUCTION (Tables etc.)	DATA DISSEMINATED	DATA GAPS	BEST PRACTICES/ CHALLENGES	RESOURCES REQUIRED	USE OF TECHNOLOGY
National Accounts	1. GDP by Industry (current & constant dollars) 2. GDP per capita 3. GDP by Industry 5 change and % proportion 4. GDP Implicit Price Index 5. GDP by cost component 6. Cross classification of value added by industry and institutional sector 8. Gross National Domestic Income (GNDI) and GNI	2012 annual estimates Press release to the media, website, broadcast emails sent to users and in print form CARICOM/UN National Accounts Questionnaire	Producer Price Index needed to compile constant dollar estimates of GDP using the expenditure approach.	BEST PRACTICE: SNA 1993 Guidelines The GDP series has been rebased from 1996 to 2006. This is in alignment with the base year for the monthly Consumer Price Index and Retail Sales Index. A linking table was established between BCEA and ISIC Rev 4 to adopt the new classification system.	Continuous on-the-job training in compilation of GDP Workshop training in National Accounts compilation for newly hired officers.	MS Access used for the production of Economic Activity Survey tabulations; Blow-up value added estimates using MS Excel
Economic Activity Survey	Income and expenditure industry data tables at the 5 digit activity level Survey response rate by industry sectors at the 5 digit activity level	Industry data tables produced 9 months after reference year; Consolidated industry-specific results presented in an industry profile and mailed out to data providers on request	Difficult to obtain reliable data for the taxi operators in the transport industry; data is extrapolated using hours worked from the annual Employment Survey.	BEST PRACTICE: Sample design covers all 175 BCEA's in the survey. 1,500 businesses out of 6,000 businesses/organizations sampled using a stratified two-stage design. In 2013 the response rate was 82%. Most respondents received and returned the survey questionnaire electronically, which reduced time spent checking for accuracy since consistency checks were built into the electronic data file.	Summer students hired to assist with the data collection, entry and processing phases of the Survey. Officers received technical training in the use of MS Access to manage database	Survey respondents randomly chosen via customized computer programme. Survey data tabulated using MS Access database. The majority of survey respondents receive and respond to the survey via e-mail

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GDP Expenditure	EGDP 2006 Q1 – 2013 Q2 In current dollars	Internal dissemination only to Ministry of Finance and Cabinet Office	Deflators for constant price estimation	<p>BEST PRACTICE: Used 1993 SNA guidelines. Compilation of quarterly GDP by expenditure data follows the International Comparison Programme methodology and format.</p> <p>CHALLENGES: Estimates not seasonally adjusted. Data series needs to be benchmarked and deflated to obtain constant price estimates.</p>	In July 2013 technical assistance was received from CARTAC	<p>Excel linked spread sheets</p> <p>Use of XLPBM (an IMF Excel Add-in) for benchmarking quarterly data to annual series</p>
Monthly Retail Sales	Sales indices by sector Value & volume percent changes	Released 4 weeks after reference period to media	Base year updated simultaneous to CPI	<p>BEST PRACTICE: Deaths of retail outlets are replaced to ensure that sales activity is still reflective of aggregate sales across retail sectors</p>		Excel spreadsheets and Microsoft Word

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Tourism Satellite Account	10 core TSA tables produced for 2006 - 2012	2012 estimates Annual press release 9 months after reference period	Lack of data on stock of second homes owned. Lack of detail data on resident overseas travel	BEST PRACTICE: Follows UNWTO methodology and recommendations for compiling TSA CHALLENGES: Indirect/induced effects on tourism based on 2008 input/output ratios.	Officers already received training in TSA compilation and methodology.	Linked excel spreadsheets
Balance of Payments	Quarterly tables of current account balances; receipts and payments; and capital and financial accounts;	Quarterly press release 13 weeks after reference period; annual press release.		BEST PRACTICE: IMF Balance of Payments & International Investment Position Manual, version 6;	In April 2013 technical assistance was received from CARTAC to review BOP and IIP compilation practices	MS Access and Excel data files
International Investment Position Statistics	Quarterly international investment statistics by functional category, instrument and classified by resident institutional sector	Quarterly press release simultaneous to quarterly BOP release; Data disseminated to IMF for inclusion in the Balance of Payments Statistical Yearbook	Data on the stock of household investments	Inability to fully measure overseas investments by households; possible double counting of int'l business expenditures and local business receipts earned from int'l businesses		
Int'l Trade in Services	Production of data on trade in services by GATS mode of supply	Still being worked on		CHALLENGE: Lack of services data by trading partner; unable to accurately split trade in services when more than one mode of supply is utilized. Currently working through the manual to resolve issue.		

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<p>ICT Statistics</p>	<p>Annual data on: # of business and employees using computers and the internet; # of businesses with a web presence and intranet; # of businesses conducting sales and purchases via the internet and the value of these transactions; % of businesses using the internet by type of activity; capital purchases of ICT equipment; trade in ICT goods and services; Gross value added of the ICT sector; % of workforce involved in the ICT sector</p>	<p>UN request on ICT statistics; 2012 annual ICT brief disseminated 9 months after reference year</p>	<p>Businesses often report conducting sales and purchases via the internet but do not always track the value of their transactions.</p>	<p>BEST PRACTICE: Survey questions follow the UNCTAD Manual for the Production of Statistics on the Information Economy (2009). Core indicators on business use of ICT follows the manual produced by the Partnership on Measuring ICT for Development : Core ICT Indicators 2010 Continued partnership meetings with the Department of E-Commerce to review the Work Plan for the Development of Caribbean Specific ICT (CSICT) Statistics and Indicators; identified sources for collecting CSICT indicators.</p>	<p>CHALLENGE: The data are captured on the annual Economic Activity Survey and the quarterly Balance of Payments survey. Successful collection of ICT statistics is contingent on the response rate to these surveys and benchmark surveys conducted by the E-Commerce department.</p>	<p>MS Access and Excel data files</p>
<p>Foreign Affiliate Statistics</p>	<p>2012 data are available on the following variables: Sales/turnover; employment; value added; exports of goods and services; imports of goods and services; number of enterprises</p>	<p>Data provided on request to CARICOM</p>		<p>BEST PRACTICE: Used the EUROSTAT Foreign Affiliates Statistics Recommendation Manual Businesses that fit the criteria of foreign affiliates are identified by the share of foreign ownership in their business through the statistical business register and the balance of payments survey.</p>		<p>Excel spreadsheets</p>

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Creative Industries Statistics	Production, trade and employment by cultural domain, related cultural domains and transversal domains for the period 2006 to 2012	Data shared at the March 2012 CARICOM/UNESCO trade in services workshop but not disseminated to the public		<p>BEST PRACTICE: Data compilation follows the 2009 UNESCO Framework for Cultural Statistics.</p> <p>Have collaborated with the Department of Cultural Affairs to identify industries producing cultural goods and services, and determine how to collect qualitative survey information on cultural industries.</p> <p>CHALLENGE: Employment data are not collected in a way to adequately facilitate the full employment breakdown required under the framework for cultural statistics</p>		Excel spreadsheets

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<p>Government Finance Statistics</p>	<p>Revenue and expense tables, Statement of Government operations from 2006-2012</p> <p>Cross-classification of functional and economic classifications of expense for 2012</p> <p>COFOG classification for the fiscal years 1996/97 to 2012/13</p>	<p>Development of series still in progress</p>	<p>Breakdown of domestic versus foreign assets and liabilities is needed for Government Operations Statement. Data not yet produced for statement of sources and uses of cash, and transactions in assets and liabilities; holding gains and losses in assets and liabilities; etc.</p> <p>Data on statutory bodies not readily available and in sufficient detail to produce related GFS statistics.</p>	<p>BEST PRACTICE: Data tables defined by the GFSM 2001; methodology strictly follows GFSM guidelines.</p> <p>CHALLENGE: Historical revenue and expenditure data by Departments must be obtained from the Accountant General's Department and will involve a lengthy process to create a time series.</p> <p>Since capital items show up on the current expenditure statement if below a certain value not sure of correct classification of specific items on the government's expenditure statements.</p> <p>Technical training needed for staff to sustain the updating of the GFS tables.</p>	<p>In 2012, an officer from the Department of Statistics and an officer from the Ministry of Finance participated in a two-week training course on Government Finance Statistics sponsored by the IMF.</p>	<p>Excel spreadsheets</p>
<p>Consumer Price Index</p>	<p>Monthly and annual all items percent changes for nine price sectors</p>	<p>Monthly release to media 5 weeks after reference month; posted on website and disseminated through broadcast mail to data users and providers</p>		<p>BEST PRACTICE: Methodology stipulated by the ILO using a Laspeyres Price method</p> <p>Sectors align with UN COICOP classification system</p> <p>April 2006 base period with 2004 expenditure weights</p>	<p>Technical expertise to produce macros for excel spreadsheets used to compile the price data is still required</p> <p>Request training in the Price Index Processing software (PIPS) package used to compile the price data.</p>	<p>MS Excel for data tables and Publisher to produce press release</p>

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<p style="text-align: center;">Annual Employment Survey</p> <p style="text-align: center;">&</p> <p style="text-align: center;">Annual e-Employment Survey</p>	<p>Annual counts of jobs Employment by industry and occupation Employment by age, sex, race and hours worked Employment by Income and employee benefits Vacancies by occupation, full- and part-time status and number of calendar weeks vacant</p> <p>NEW INDICATOR Quarterly count of jobs filled by industry</p> <p>Using quarterly employment income data and annual workforce statistics to derive quarterly counts</p>	<p>Annual 2012 Employment Brief and detailed Tabulations released in April of each year</p> <p>Abstract of Labour Market Indicators Report placed on website</p>		<p>BEST PRACTICE: A census of approximately 5,000 businesses/organizations participate in the self-administered survey</p> <p>A total of 1,300 entities or 26% have registered to submit employment survey questionnaires on-line. This represents close to 18,000 jobs or roughly 50% of the all jobs in the Bermuda workforce.</p> <p>Potential non-sampling errors if respondents do not follow guidance notes for completing questionnaire</p> <p>Business Process Management (BPM) method/workflow standards were used to develop the on-line facility but now needs to be upgraded. A request for proposal (RFP) for a new on-line solution was launched in July 2013. Local and overseas vendors submitted proposals. The proposals were shortlisted and interviews/presentations were held in October 2013.</p>	<p>Temporary seasonal clerical support staff</p> <p>Technical/programming skills for the AS 400</p> <p>IT architecture for e-employment facility comprises a server that integrates the on-line submissions with those manually keyed in the AS 400.</p> <p>Dependence on the BPM vendor to make software changes to launch the website and to carry out routine maintenance required during the survey period.</p>	<p>AS 400 database used to store data and information provided by establishments</p> <p>AS 400 used to run employment tables and administrative employment reports</p> <p>Microsoft Excel for tables and Microsoft Word for analytical report.</p> <p>Aqualogic Business Process Management software (ALBPM) Camtasia Studio software used to produce a video tutorial on how to complete the e-Employment Survey</p>

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STATISTICS DASHBOARD	Quarterly dashboard of fifteen economy indicators from 2 nd Qtr 2008 to 2 nd Qtr 2013	# of Jobs/int'l business # of new incorporations # of registered businesses # of work permits # of building permits # of visitor arrivals Visitor expenditure Rate of inflation Retail Sales Growth New construction work GDP growth				
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Annual Labour Force Survey	Analysis of Labour Force by demographic characteristics such as age, race and status Analysis of Labour Force by socio-economic characteristics such as Education, occupation and industry Analysis of workforce by: # of jobs, # of workers per household; median employment income	2012 Labour Force Survey Executive Report containing the analysis of the labour force and unemployed was released in October 2012 Labour Force Participation Rates; unemployment rates and underemployment indicators	A Labour Force Survey was not undertaken in 2013 but LFS data collected via the undertaking of the 2013 Household Expenditure Survey. A summary report of the 2013 employment data will be released in December 2013.	BEST PRACTICE: Sample design comprised a stratified two-staged sample of 1,500 households Used the Computer Assisted Telephone Interview (CATI) as the primary data collection method; Piloted the use of Net Books for data collection from 120 households. Obtained a 99% response rate	In April 2012 the Business Statistician attended the ILO International Training Centre to participate in a workshop on 'Designing Labour Force Surveys'	MS Dimensions Survey system

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<p>Population Statistics</p>	<p>Population projections by gender (2000–2030)</p> <p>Vital Statistics by gender (annual)</p> <p>Education statistics by gender (annual)</p> <p>Digest of Statistics – compendium of social and gender tables</p>	<p>Annual data available on website and in publication from up to 2030</p> <p>Digest of Statistics – ten year time series of data up to 2012 is available on the website.</p> <p>Released two 2010 census analytical briefs “Personal and Household Income” and “Emigration: Bermuda’s Qualified Human Capital Departs.”</p> <p>Updated tri-fold “Women in Leadership” and a brief on “Profile of Bermuda’s Seniors”, based on 2010 Census data</p>	<p>Gender statistics to show the societal, economic, financial and business impact of differences in gender statistics</p>	<p>BEST PRACTICE: Sensitizing stakeholders of the importance of submitting data in a timely manner.</p> <p>CHALLENGE: Limited opportunity to meet with outstanding stakeholders to obtain data for the SIMDG due to other priorities</p>	<p>Formal training in the production and analysis of gender statistics</p> <p>Require assistance adding indicators to the DEVINFO and CENSINFO database without erasing the current indicators.</p>	<p>MS Excel,</p> <p>Population Analysis Software for dissemination.</p>
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<p>Disability Statistics</p>	<p>1991- 2010 Census data tables on population disabilities;</p> <p>2007 Seniors Test and Ageing Trends (STATS) Survey data tables</p> <p>National Survey of People who are Blind or Visually Impaired (NSPBVI) data tables.</p>	<p>1991 – 2010 Reports of the Population and Housing Censuses</p> <p>Updated Country Report for 2012 - submitted to UN Washington Group on Disability Statistics;</p> <p>Release of the NSBVI report</p>	<p>A disabled persons central register does not exist</p> <p>A national disability survey is not conducted</p>	<p>BEST PRACTICE: Uses the World Health Organization, International Classification of Functioning, Disability and Health (ICF).</p> <p>In October 2012, Bermuda attended the 12th WG Meeting on Disability Statistics in Thailand.</p> <p>This provided an opportunity for local stakeholders to attend and participate in the meeting.</p> <p>CHALLENGE: Data restricted to census publications, the 2007 STATS report that targeted persons 60 years and older; and the NSPBVI</p>	<p>Regional collaboration regarding the data collection of disability statistics.</p>	<p>MS Word, CPro,</p> <p>MS Excel and SPSS used to process NSPBV data tables.</p>

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Hotel Employment Survey Statistics	Employment of all workers and housing of non-Bermudians in the hotel industry	Employment in Hotel Industry by Type of Establishment is disseminated in the Quarterly Bulletin of Statistics.		BEST PRACTICE: Delays receiving questionnaires were reduced after notifying delinquent respondents of the penalties for non-compliance.	Collaboration with the region to ascertain the type of information collected from hotel establishments.	MS Excel and MS Word

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<p>SIMDG social/gender statistics</p>	<p>Completed SIMDG data tables on population and family, work, population and housing, information and communications, the economy, health HIV/AIDS, education enrollment; health, labour and limited data on crime.</p>	<p>2012 data tables available</p>	<p>Partially completed data tables due to lack of data availability and non response from some stakeholders, for sections such as Crime and Decision Making</p>	<p>CHALLENGE: Unable to arrange meetings with stakeholders due to conflicting priorities. Stakeholders have insufficient staff to complete the tables in a timely manner.</p> <p>BEST PRACTICE: In April, 2013 a Statistical Officer was seconded to the Ministry of Health for three months to assist the Ministry with coding deaths and the collection of health statistics.</p> <p>The purpose of this initiative was mutually beneficial and allowed for stronger collaboration with a key stakeholder; achieved a greater output in the number of mortality codes assigned by providing additional resource to the Ministry.</p> <p>Some tables can only be partially completed based on available data. The data may be available, but not in the format needed for CARICOM.</p>	<p>Higher level advocacy meetings are needed</p> <p>In early October 2013 the Bermuda Police Service, invited the Department to critique the design of its' Records Management System (RMS). The critique will assess if variables have been included in the RMS to collect the crime data as needed for updating the SIMDG tables on crime statistics. The RMS is expected to be operational in 2014</p> <p>After high level meetings held with the Ministry of Education in 2011, limited data on education statistics is available.</p>	<p>MS Excel and MS Word data tables</p>
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Merchandise Trade Statistics	<p>Quarterly and annual estimates of Imports by Country of Origin;</p> <p>Quarterly and annual estimates of Imports by Broad Commodity Groupings</p> <p>Annual trade data by Country of Origin and by Broad Commodity Groupings</p>	<p>Quarterly trade data tables released to the public 8 weeks after the reference quarter</p> <p>Most recent data references 2nd Quarter 2013.</p>	<p>Merchandise import data from the Post Office is not included in the trade database.</p> <p>HM Customs does not capture export data in its entirety.</p>	<p>BEST PRACTICE: Data is compiled in accordance with the UN recommendations contained in the Merchandise Trade Statistics: Concepts and Definitions.</p> <p>Trade data is based on the Harmonized System 2007 which was adopted by Bermuda Customs in April 2007. In July 2012, HM Customs started processing trade data using a new Customs Automated Processing Systems (CAPS).</p>	<p>Recommend meeting of the Trade Statistics Technical Working Group to discuss progress and challenges experienced by other countries and possible solutions moving forward.</p>	<p>Window-based</p> <p>Eurotrace Software</p> <p>Comext Software</p>

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<p>Environmental Statistics</p>	<p>Tables Charts & Maps produced for 13 topics relevant to the environment</p>	<p>Annual Environmental Statistical Compendium, 2009 - 2012.</p> <p>The annual 2013 publication is due to be released in November 2013.</p>	<p>Some environmental indicators specified by CARICOM not relevant to Bermuda</p>	<p>BEST PRACTICE: Used Metadata from CARICOM Environment in Figures. The indicators for the Millennium Development Goals (MDG) were incorporated in Compendium.</p> <p>Held stakeholder meeting with Public Works-Water Department and was able to reduce data gap for water consumption. A new resource in the Department of Conservation will be used to populate these tables.</p> <p>CHALLENGES: Non-response from stakeholders causes a delay in the delivery of data. Time taken to convert data received from stakeholders to conform with required format</p>	<p>Heavy reliance on cooperation of both public and private stakeholders to provide the environmental data update</p>	<p>MS Excel ArcGIS</p>
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Geographic Information System	GIS maps designed to analyze data in census analytical brief	GIS maps in census analytical briefs and environment compendium		BEST PRACTICE: Multi-function software allows user to create maps using GIS, but will also be able to assist in the compilation of reports using maps for visual data. Four (4) officers received training in ArcGIS in October 2012		Arc View GIS 10.1
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PROMOTION & AWARENESS OF STATISTICS

- In January & February 2013, conducted a two-day workshop session on Basic Statistics & Data Analysis. Two training sessions were held with participation from 10 officers within the Department of Statistics and 11 officers from other Government Departments. The focus of the training was in basic statistical concepts, the survey process and basic data analysis tools.
- In June 2013, held a half-day informational meeting on statistics to university/graduate students of a summer internship programme held by the Bermuda Insurance Institute
- In September & October 2013, held presentations at two middle level schools to introduce students to the understanding and use of statistics in everyday life.
- Advertised monthly **‘Did You Know’** statistical facts from May to October 2013 highlighting use of data in making decisions in everyday life on community television channel
- National Strategy for the Development of Statistics advocacy presentations to Secretary to the Cabinet and Permanent Secretaries in June 2013 and Heads of Departments in August 2013.
- National Strategy for the Development of Statistics (NSDS) Stakeholder Informational Workshop - September 19th 2013
- NSDS Staff half-day training in the NSDS Guidelines and designing an NSDS Road Map – September 20th 2013
- Statistics Day ‘Open House’ Activities on October 15th 2013

STATISTICAL CONSULTANCY

- Conducted a CATI Public Opinion Survey for the Sustainable Development Department (SDD) in January 2013. Provided statistical assistance in the areas of: questionnaire design, sample selection, training and supervising telephone interviewers, cleaning data, data analysis, preparing a score card and executive summary for the SDD survey.
- In August 2013, provided the Department of National Drug Control statistical assistance in sample design for a CATI Household Survey on Drugs and Health which launches in November 2013.
- Provided statistical services to the Ministry of Health & Seniors in sample design, survey design and survey administration, for the undertaking of a WHO Health Survey ‘STEPwise approach to Chronic Disease Risk Factor Surveillance’ to a Well Bermuda.
- In March, 2013 partnered with a senior high school during their Professional Dress Day to lend expertise in conducting mock interviews for potential graduates.
- Served as a statistical resource on a Data & Trends Committee developed by the Bermuda National Training Board in support of the development of a National Training Plan. Provided statistical assistance, on-going technical guidance and data analysis support.

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HOUSEHOLD EXPENDITURE SURVEY 2013 (HES)

- Launched in May 2013. Interviewers conducted door to door surveys using Computer Net books having a digital questionnaire using CSPRo. A response rate of 96% was achieved for survey questionnaires out of target population of 700 households. A response rate of 91% was obtained for the two-week diaries.
- Currently in the editing, coding and keying data phase for the weekly diaries. This will be followed by data cleaning, production of tabulations and analysis. An executive summary report will be produced for December 2013.

NATIONAL STATISTICS DAY

In the spirit of the theme: **“Statistics in Everyday Life: Let us Educate and Appreciate”**, on **Tuesday October 15th** the Department of Statistics hosted for the first time a statistics **“OPEN HOUSE”**. There were a host of activities held during the course of the “Open House”. Several Government Departments and private organizations partnered with the Department of Statistics to help promote awareness about the different types of statistical data produced, how the data are used and the impact of data on our everyday lives. Some of the partners included HM Customs, Bermuda Hospital Board, Ministry of Health, the Bermuda Police, Public Works Waste Management and the National Drug Control Department. Partners displayed an array of materials and promotional items that showed how they contributed to the use of statistical data. A number of interactive activities were held to engage students and promote their understanding of statistics. These included activities such as ‘the Price is Right’ to explain the CPI and shifts in the price of goods; and “Who wants to be a Statistician” – a game that tested general statistical knowledge about the economy. The event was officially opened by the Director with music provided by one of the middle school’s music ensemble student groups. Raffle prizes were donated by various businesses with raffle drawings made on the half hour; and, a local community radio show was broadcasted live from the Office for two hours with on-going mini-interviews with Statistics staff, stakeholder partners and visitors to the Open House. Students and teachers from four Middle Schools attended along with employees from other Government Ministries & Departments and the general public. Close to 200 visitors were counted as attending the Open House, which proved to be an exciting, enjoyable and informative journey through the path of statistical learning.

TRAINING & DEVELOPMENT OF STAFF

Bermuda gratefully acknowledges support of CARICOM/CARTAC/UNCLAC for facilitating the participation of Officers in the following technical workshops:

1. CARICOM Third Technical Workshop on a Common Framework for a Literacy Survey, 20th - 21st November 2012, Barbados.
2. CARICOM Regional Training Workshop on a Common Approach to Data Warehousing, Archiving & Dissemination of Statistics, 22nd - 23rd November 2012, Barbados.
3. Workshop on Design and Implementation of a Statistics Training Program in Sampling, 5th - 14th November 2012, Mexico
4. The Meeting on Price Statistics: ICP Round 2011, 3rd – 6th December 2012, Santiago, Chile
5. The Final Meeting on ICP Round 2011, 9th – 10th September 2013, Santiago, Chile
6. Price Statistics Workshop, 16th – 26th September 2013, Frigate Bay, St. Kitts

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Other training

- Project Management
- Moving From Conflict to Collaboration
- Building Effective Work Relationships
- Leadership from Transactional to Transformational
- Strategic Leadership
- ArcGIS Desktop II: Tools and Functionality
- Gender Statistics for Data Users
- Census and Surveys Processing Software (CSPPro)