



COMMONWEALTH OF
PUERTO RICO

Government Development Bank
for Puerto Rico

November 2015

Economic Activity Index (“GDB-EAI”)

Clarification about the interpretation of the GDB-EAI figures

The GDB-EAI is an indicator of the general economic activity, not a direct measurement of the real GNP. The annual growth rate of the EAI **is not** the same as the annual growth rate of the real GNP.

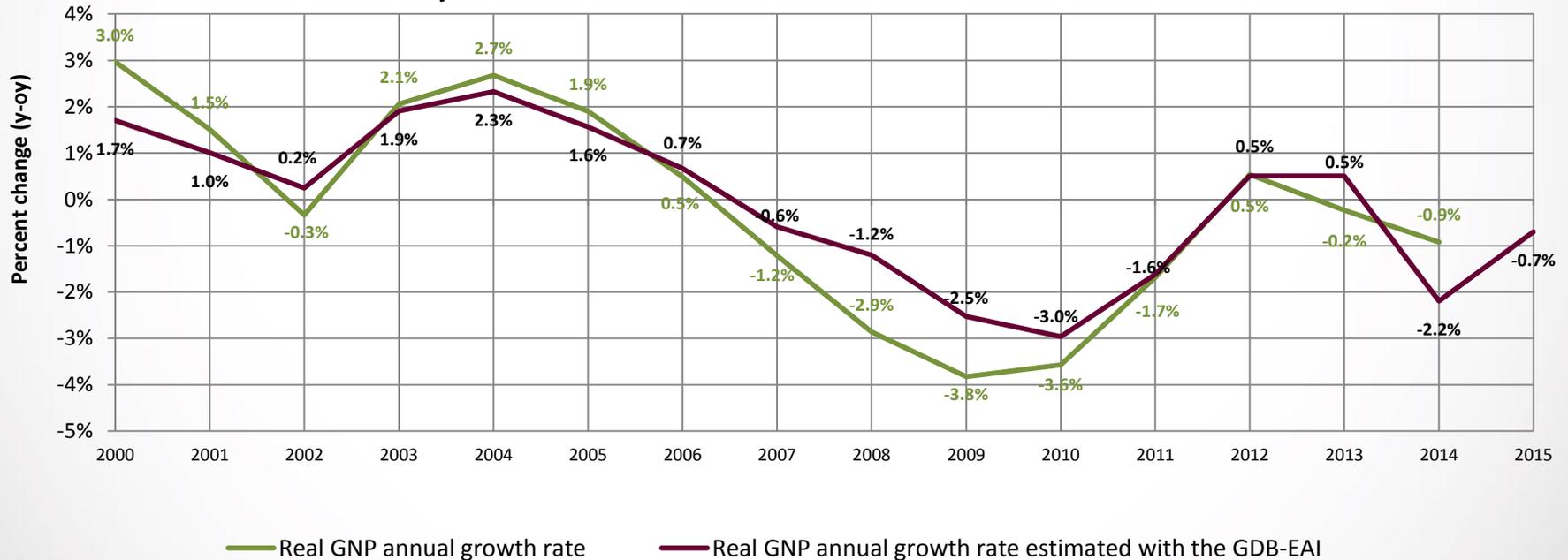
Fiscal Year	GDB-EAI annual growth	Real GNP annual growth estimated using the GDB-EAI	Actual real GNP annual growth
2002	-0.4%	0.2%	-0.3%
2003	1.7%	1.9%	2.1%
2004	2.2%	2.3%	2.7%
2005	1.3%	1.6%	1.9%
2006	0.1%	0.7%	0.5%
2007	-1.5%	-0.6%	-1.2%
2008	-2.3%	-1.2%	-2.9%
2009	-4.0%	-2.5%	-3.8%
2010	-4.5%	-3.0%	-3.6%
2011	-2.8%	-1.6%	-1.7%
2012	-0.1%	0.5%	0.5%
2013	-0.1%	0.5%	-0.2%
2014	-3.6%	-2.2%	-0.9%
2015	-1.5%	-0.7%	

- Nevertheless, notice that with some exceptions, the real GNP growth estimates coming from the EAI are relatively close (although not identical) to the actual real GNP growth figures.
- The annual growth for FY2015 was estimated using the average of the twelve months of the index, and comparing it to the average value for FY2014.
- With FY2014 data of the GDB-EAI, the real GNP growth estimate shows a larger reduction than the actual figures published by the Planning Board, while the estimates for FY2015 would reflect a decline of 0.7%.

Clarification about the interpretation of the GDB-EAI figures (2)

Here is a comparison graph of the actual real GNP figures and the estimates of the annual growth of the real GNP using the figures coming from the GDB-EAI.

Annual Growth Rate Comparisons: Real GNP, and real GNP estimated with the GDB-EAI



Real GNP data source: Puerto Rico Planning Board

General Commentary - November 2015

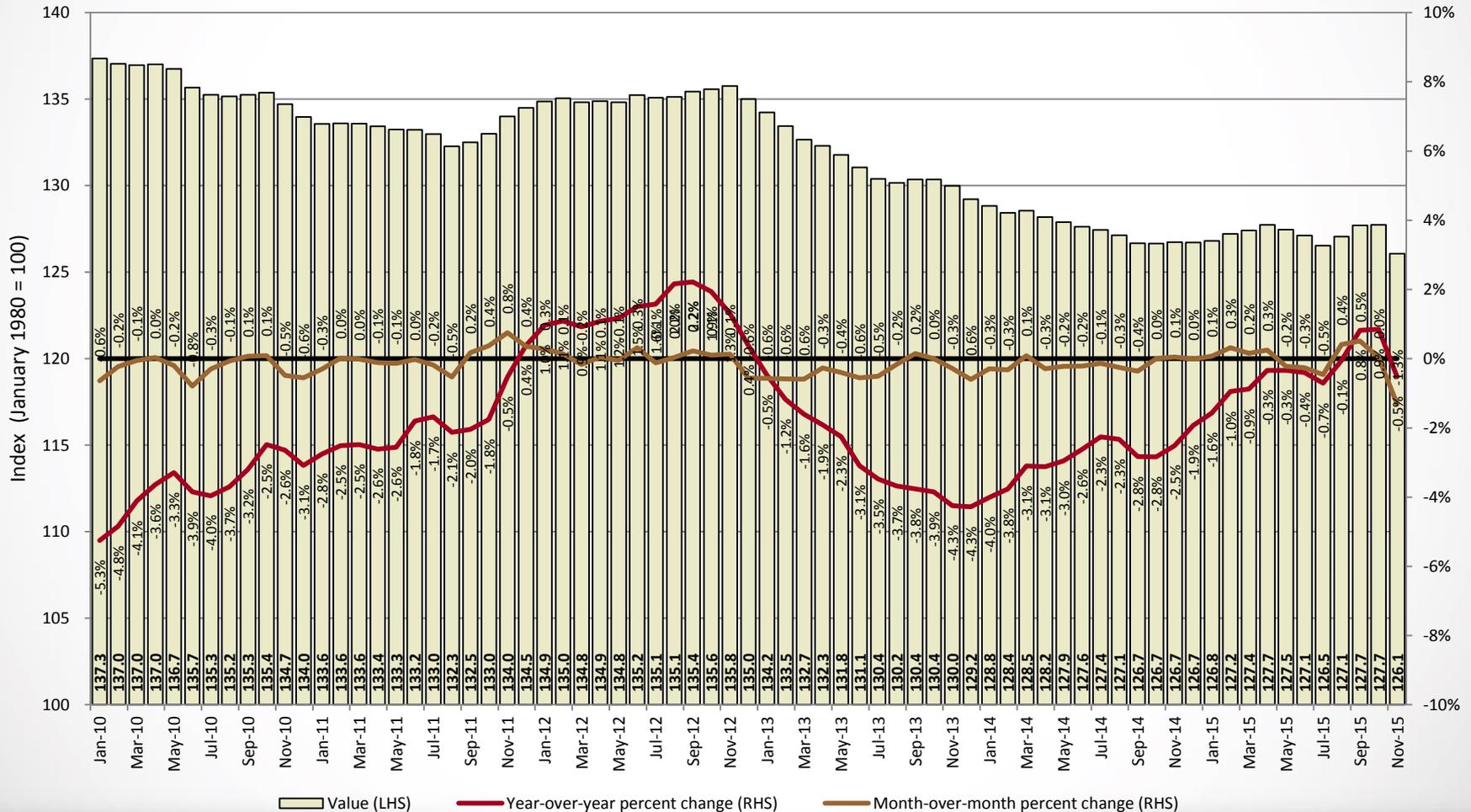
In November 2015, the GDB-EAI decreased by 0.5% on a year-over-year (y-o-y) basis, and reflected a month-over-month (m-o-m) decrease of 1.3%.

- The November 2015 figure for the EAI was 126.1, a decrease of 0.5% compared to November 2014, and a decrease of 1.3% compared to October 2015. On a year-to-date basis (July-November) the EAI was 127.0, a small gain of 0.1% with respect to the same period of the previous year.
- Total non-farm payroll employment for November 2015 averaged 920,800, an annual increase of 0.5%. This series is revised every March by the US Department of Labor and in 2015 had a downward revision.
- The preliminary data for electric power generation for November 2015 was 1,676.2 million kWh, an annual decrease of 0.5%.
- The preliminary number for gasoline consumption* in November 2015 was 73.8 million gallons, 8.8% below November 2014.
- Cement sales for November 2015 totaled 0.94 million bags, registering an annual decrease of 2.5%.

* The monthly gasoline consumption is estimated by the GDB from the Treasury Department's monthly gasoline excise tax collections paid by importers which are transferred to P.R. Highways and Transportation Authority. These collections fluctuate due to changes in inventories and purchases, which do not necessarily reflect the actual monthly consumption reported by retailers.

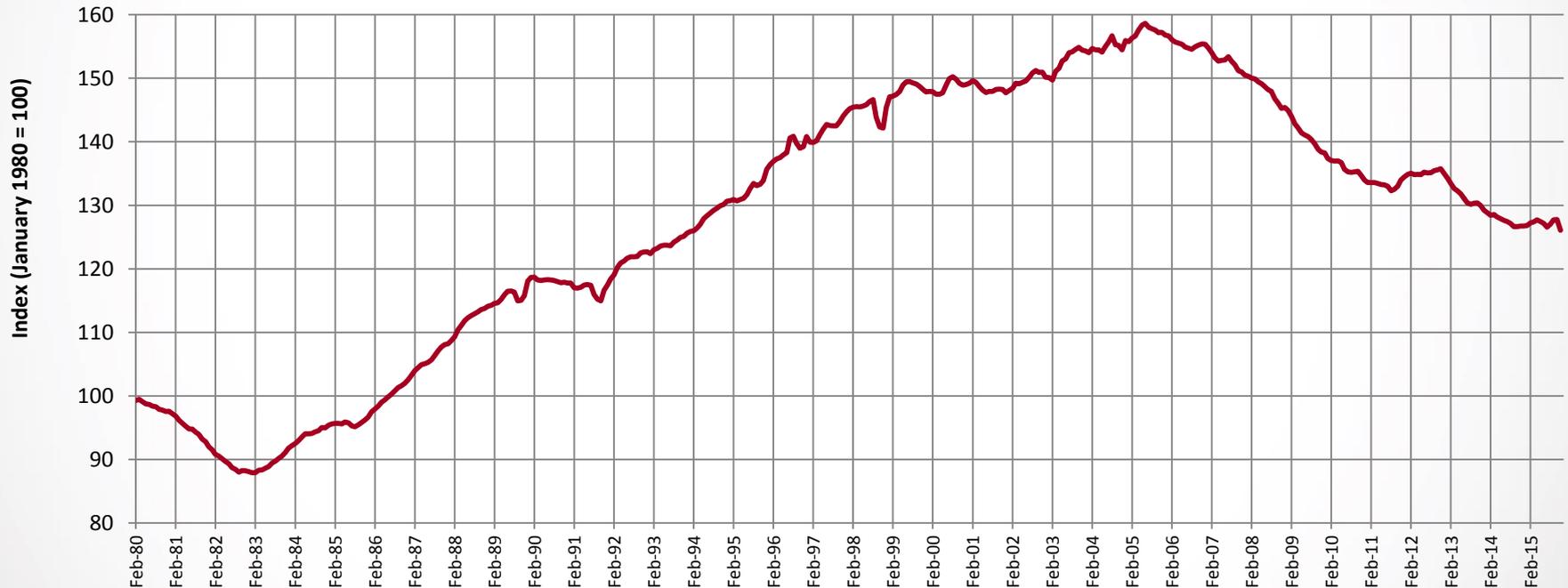
In November 2015, the GDB-EAI decreased by 0.5% on a y-o-y basis. On a m-o-m basis, the GDB-EAI decreased by 1.3%.

GDB Economic Activity Index



The complete series of the EAI, which starts in January 1980, shows the recessions of FY1982 and FY1983, the mild recession of FY1991, and the recession of 2001. It also shows the path of the Index since the beginning of the current recession.

GDB Economic Activity Index



GDB Economic Activity Index: Data for the past decade

PUERTO RICO ECONOMIC INDICATORS
GDB Economic Activity Index
(January 1980 = 100)

GOVERNMENT DEVELOPMENT BANK
ECONOMIC ANALYSIS DIVISION

FISCAL YEAR *	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
JULY	154.7	153.4	148.2	140.8	135.3	133.0	135.1	130.4	127.4	126.5
AUGUST	154.5	152.7	147.9	140.4	135.2	132.3	135.1	130.2	127.1	127.1
SEPTEMBER	155.0	152.1	146.8	139.7	135.3	132.5	135.4	130.4	126.7	127.7
OCTOBER	155.2	151.2	146.0	138.8	135.4	133.0	135.6	130.4	126.7	127.7
NOVEMBER	155.4	151.0	145.5	138.4	134.7	134.0	135.8	130.0	126.7	126.1
DECEMBER	155.4	150.5	145.4	138.2	134.0	134.5	135.0	129.2	126.7	126.7
JANUARY	154.8	150.3	145.0	137.3	133.6	134.9	134.2	128.8	126.8	126.8
FEBRUARY	154.0	150.0	144.0	137.0	133.6	135.0	133.5	128.4	127.2	127.2
MARCH	153.2	149.9	142.8	137.0	133.6	134.8	132.7	128.5	127.4	127.4
APRIL	152.7	149.4	142.2	137.0	133.4	134.9	132.5	128.2	127.7	127.7
MAY	152.8	149.1	141.4	136.7	133.5	134.8	131.8	127.9	127.5	127.5
JUNE	152.9	148.7	141.1	135.7	133.2	135.2	131.1	127.6	127.1	127.1

YEAR OVER YEAR PERCENTAGE CHANGE

FISCAL YEAR *	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
JULY	-2.1	-0.9	-3.4	-5.0	-4.0	-1.7	1.6	-3.5	-2.3	-0.7
AUGUST	-2.1	-1.2	-3.1	-5.1	-3.7	-2.1	2.2	-3.7	-2.3	-0.1
SEPTEMBER	-1.7	-1.8	-3.5	-4.8	-3.2	-2.0	2.2	-3.8	-2.8	0.8
OCTOBER	-1.2	-2.6	-3.4	-5.0	-2.5	-1.8	1.9	-3.9	-2.8	0.9
NOVEMBER	-1.2	-2.9	-3.8	-4.7	-2.6	-0.5	1.3	-4.2	-2.5	-0.5
DECEMBER	-0.9	-3.2	-3.4	-4.9	-3.1	0.4	0.4	-4.3	-1.9	-0.8
JANUARY	-1.2	-2.9	-3.6	-5.3	-2.7	1.0	-0.5	-4.0	-1.6	-1.6
FEBRUARY	-1.5	-2.6	-4.0	-4.8	-2.5	1.1	-1.2	-3.8	-0.9	-0.9
MARCH	-1.6	-2.2	-4.7	-4.1	-2.5	0.9	-1.6	-3.1	-0.9	-0.9
APRIL	-1.8	-2.1	-4.9	-3.6	-2.6	1.1	-1.9	-3.1	-0.3	-0.3
MAY	-1.6	-2.4	-5.2	-3.3	-2.6	1.2	-2.2	-3.0	-0.3	-0.3
JUNE	-1.3	-2.7	-5.1	-3.9	-1.8	1.5	-3.1	-2.6	-0.4	-0.4

YEAR OVER YEAR DIFFERENCE

FISCAL YEAR *	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
JULY	-3.3	-1.3	-5.2	-7.3	-5.6	-2.3	2.1	-4.7	-2.9	-0.9
AUGUST	-3.3	-1.9	-4.7	-7.6	-5.2	-2.9	2.9	-5.0	-3.0	-0.1
SEPTEMBER	-2.6	-2.9	-5.3	-7.1	-4.5	-2.8	2.9	-5.1	-3.7	1.0
OCTOBER	-1.9	-4.0	-5.1	-7.2	-3.4	-2.4	2.6	-5.2	-3.7	1.1
NOVEMBER	-1.8	-4.4	-5.7	-6.9	-3.6	-0.7	1.8	-5.8	-3.3	-0.7
DECEMBER	-1.4	-4.9	-5.0	-7.2	-4.3	0.5	0.5	-5.8	-2.5	-2.0
JANUARY	-1.9	-4.4	-5.4	-7.6	-3.8	1.3	-0.6	-5.4	-2.0	-2.0
FEBRUARY	-2.0	-4.0	-6.0	-7.0	-3.4	1.5	-1.6	-5.0	-1.2	-1.2
MARCH	-2.5	-3.4	-7.0	-5.9	-3.4	1.2	-2.2	-4.1	-1.1	-1.1
APRIL	-2.8	-3.2	-7.3	-5.2	-3.6	1.4	-2.6	-4.1	-0.4	-0.4
MAY	-2.5	-3.7	-7.7	-4.6	-3.5	1.6	-3.0	-3.9	-0.4	-0.4
JUNE	-2.1	-4.2	-7.6	-5.4	-2.4	2.0	-4.2	-3.4	-0.5	-0.5

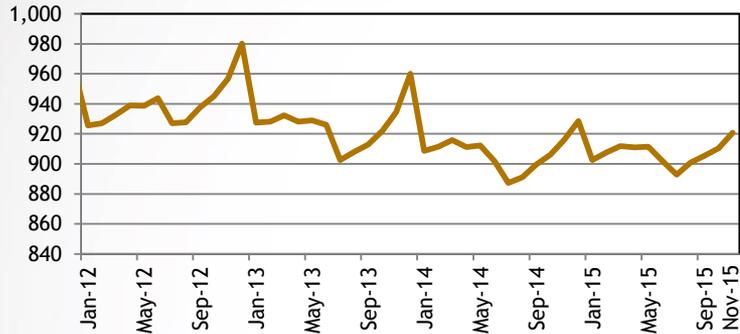
SUMMARY DATA

FISCAL YEAR *	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
AVERAGE	154.2	150.7	144.7	138.1	134.2	134.1	134.0	129.2	127.1	127.1
DIFFERENCE	-2.3	-3.5	-6.0	-6.6	-3.9	-0.1	-0.1	-4.8	-2.1	-2.1
% CHANGE	-1.5	-2.3	-4.0	-4.5	-2.8	-0.1	-0.1	-3.6	-1.6	-1.6
JUL-NOV										
AVERAGE	155.0	152.1	146.8	139.6	135.2	133.0	135.4	130.3	126.9	127.0
DIFFERENCE	-2.6	-2.9	-5.2	-7.2	-4.5	-2.2	2.4	-5.1	-3.3	0.1
% CHANGE	-1.6	-1.9	-3.4	-4.9	-3.2	-1.6	1.8	-3.8	-2.6	0.1
CALENDAR YEAR										
AVERAGE	152.6	148.1	141.1	135.9	133.3	135.1	131.3	127.6	127.6	127.6
DIFFERENCE	-2.8	-4.5	-7.0	-5.2	-2.6	1.8	-3.8	-3.8	-3.8	-3.8
% CHANGE	-1.8	-3.0	-4.7	-3.7	-1.9	1.4	-2.8	-2.9	-2.9	-2.9
JAN-NOV										
AVERAGE	152.8	148.3	141.3	136.1	133.2	135.2	131.5	127.6	127.2	127.2
DIFFERENCE	-2.6	-4.5	-7.0	-5.3	-2.8	1.9	-3.6	-3.9	-0.5	-0.5
% CHANGE	-1.7	-2.9	-4.7	-3.7	-2.1	1.4	-2.7	-2.9	-0.4	-0.4

GDB Economic Activity Index Components

Total Non-Farm Payroll Employment*

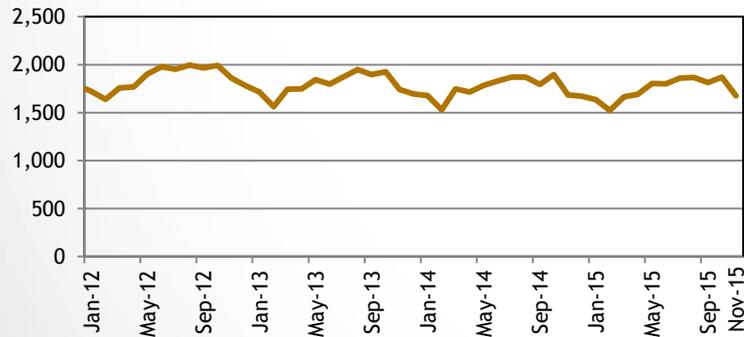
(Thousands of jobs)



- Total non-farm payroll employment for November 2015 averaged 920,800, an annual increase of 0.5%.

Electric Power Generation*

(Millions of kWh)



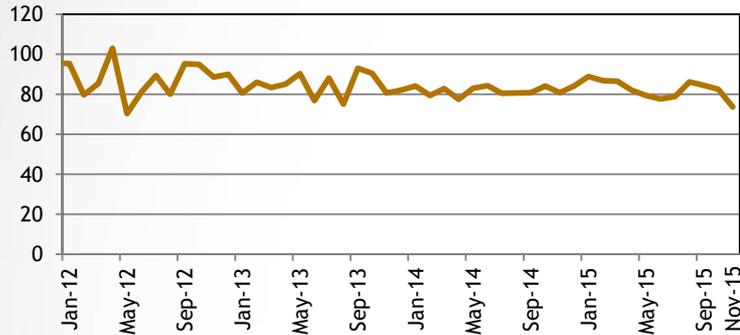
- The preliminary data for electric power generation for November 2015 averaged 1,676.2 million kWh, an annual decrease of 0.5 %.

Sources: BLS and PREPA
* Not seasonally adjusted.

GDB Economic Activity Index Components

Gasoline Consumption*

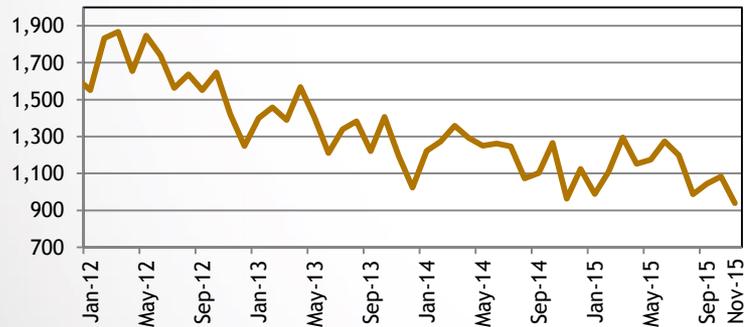
(Millions of gallons)



- The preliminary estimate of gasoline consumption for November 2015 was 73.8 million gallons, for an annual decrease of 8.8%.

Cement Sales*

(Cement bags sold, in thousands)



- Cement Sales for November 2015 totaled 0.94 million bag, an annual decrease of 2.5%.

*The monthly gasoline consumption is estimated by the GDB from the Treasury Department's monthly gasoline excise tax collections paid by importers which are transferred to P.R. Highways and Transportation Authority.

Sources: PRHTA and GDB
* Not seasonally adjusted.

Description of the GDB-Economic Activity Index

GDB Economic Activity Index Highlights and Composition

Advantages of the GDB-EAI:

- Readily available
- Highly correlated to Puerto Rico's real GNP
- Reliable tool to monitor actual trend of Puerto Rico economy
- Month-over-month comparisons are reliable

The GDB-EAI is made up of 4 indicators:

- Total Payroll Employment (Establishment Survey/ Thousands of employees)
- Total Electric Power Generation (Millions of kWh)
- Cement Sales (Millions of bags)
- Gas Consumption (Millions of gallons)

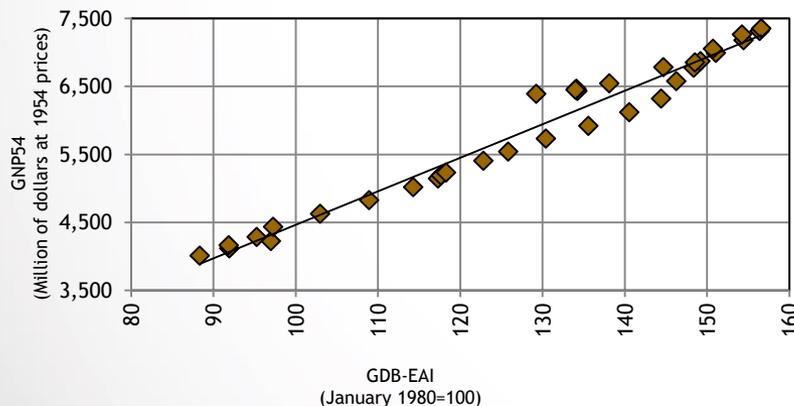
Description of the GDB-EAI

- The GDB-EAI is a coincident index for the economic activity of Puerto Rico. It is highly correlated to Puerto Rico's real GNP not only on the levels, but also on the annual growth rates.
- This index was developed following the methodology similar to that used by The Conference Board in their coincident index. This methodology follows a standard procedure to adjust the data for seasonality and volatility factors.

Real Gross National Product as a function of the GDB Economic Activity Index

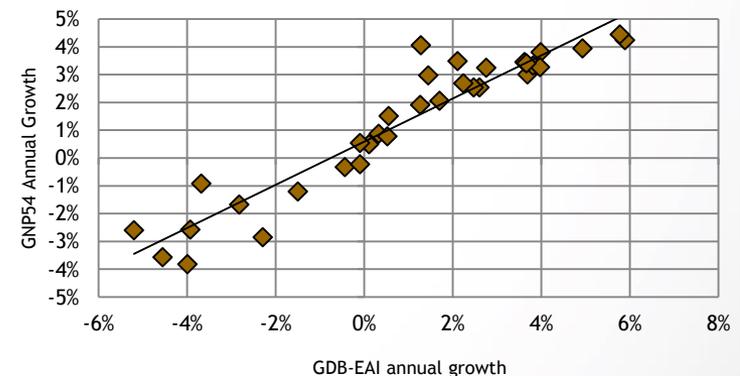
Relationship on the levels: FY1981-FY2014

$$y = 49.324x - 469.42 \quad R^2 = 0.9681$$



Relationship on the growth rates: FY1982-FY2014

$$y = 0.7789x + 0.0058 \quad R^2 = 0.8974$$



Sources: GDB

Disclaimer

The GDB-EAI and its indicators are subject to revisions. While the information comprising the GDB-EAI has been obtained from sources GDB believes to be reliable, GDB is not responsible for any errors or omissions, or for the results obtained from the use of this information.