

Agenda

Viernes, 25 de junio de 2010

8:30am – 12:00pm

Salón Samuel R. Quiñones, Edificio Luis A Ferré

- I) Registro y merienda
- II) Saludos y Bienvenida
- III) Primer Día Mundial de las Estadísticas 2010
- IV) Evolución de la Encuesta sobre la Comunidad
Presentador: Sr. Alfredo Navarro, U.S. Census Bureau
- V) Borrador del Inventario de Estadísticas de Puerto Rico
- VI) Nuevo Índice de Precios al Consumidor de Puerto Rico
- VII) Informes de progreso de los Sub Comités de Coordinación de Estadísticas
 - a. SCCE de Economía
 - b. SCCE de Educación y Familia
 - c. SCCE de Salud y Justicia
- VIII) Calendario de reuniones futuras
- IX) Asuntos nuevos

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Comité de Coordinación de Estadísticas

25 de junio de 2010
Salón Samuel Quiñones
Asamblea Legislativa

Primer Día Mundial de las Estadísticas 2010

Istituto de Estadísticas de Puerto Rico
Estado Libre Asociado de Puerto Rico

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Comité de Coordinación de Estadísticas

25 de junio de 2010
Salón Samuel Quiñones
Asamblea Legislativa

El 3 de junio de 2010, la Asamblea General de la Organización de las Naciones Unidas adoptó la Resolución (A/RES/64/267) mediante la cual se designó el **20 de octubre de 2010** como el primer **Día Mundial de las Estadísticas**.

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Tema de celebración

Celebrando los grandes logros de las estadísticas oficiales

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Valores principales

Servicio
Profesionalismo
Integridad

Istituto de Estadísticas de Puerto Rico
Estado Libre Asociado de Puerto Rico

20.10.2010
Día Mundial de la Estadística



Servicio · Profesionalidad · Integridad

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Portal de Internet

<http://unstats.un.org/unsd/wsd/Default.aspx>

Istituto de Estadísticas de Puerto Rico
Estado Libre Asociado de Puerto Rico

American Community Survey – Data Products, Multiyear Estimates, and the Best Use of the Data

Prepared for the annual meetings of the Puerto Rico Statistical Institute

June 25, 2010

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Overview

Past data products

Census 2000

ACS 1-year and 3-year estimates

Plans for first 5-year products

Looking ahead

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Census 2000 Data Products from the Long Form Sample

Product	Released
Summary File 3 (SF3)	2002 - 2003
Summary File 4 (SF4)	2003
American Indian and Alaska Native Summary File (AIAN SF)	2003
Public use microdata sample (PUMS) files	2003

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**ACS
Data Products from the 1-year and 3-year
Estimates**

ACS data products have included detailed tables, other summary products and PUMS files

The geographic detail of SF3 as well as data comparable to the SF4 and the AIAN SF were not possible with 1-year and 3-year estimates

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**ACS
Release Schedule for 1-year and 3-year
Estimates**

Type of Estimate	Population	Released
2005 ACS 1-year	65,000	Sept 2006
2006 ACS 1-year	65,000	Sept 2007
2007 ACS 1-year	65,000	Sept 2008
2008 ACS 1-year	65,000	Sept 2009
2005-2007 ACS 3-year	20,000	Nov 2008
2006-2008 ACS 3-year	20,000	Oct 2009

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**ACS
5-year estimates**

We plan to release the first ACS 5-year estimates this year

The 5-year data products will be similar in many ways to the existing ACS products and to Census 2000 products

Over time, we expect the specific set of data products to change as we receive input from users and evaluate usage

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**ACS 5-year estimates
Release Restrictions**

Unlike the 1- and 3-year estimates there are no 5-year population thresholds and we will not restrict the release of 5-year estimates based on reliability

We will continue to publish margins of error with all ACS estimates and provide education on how to use less reliable estimates

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**ACS 5-year estimates
Data Products that are included**

Detailed tables	Geographic comparison tables
Summary files	Thematic maps
Data profiles	PUMS files
Narrative profiles	
Subject tables	

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**ACS 5-year estimates
Geographic Summary Levels**

Most, but not all, of the geographic summary levels in Census 2000 SF3 will be included in the first ACS 5-year release

This includes whole geographic areas (including tracts and block groups), geographic components, and intersecting geographies

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ACS 5-year estimates
Examples of 5-year Geographic Summary Levels

Residence-based tabulations	Estimated number of areas		
	1-year	3-year	5-year
Metropolitan Statistical Areas	953	953	953
Counties	785	1,030	3,221
Tracts	0	0	~70,000
Block groups	0	0	~ 210,000
All summary levels	~ 7,000	~ 14,000	~ 670,000

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ACS 5-year estimates
Number of Geographic Summary Levels by Data Product

	Estimated number of geographic summary levels
Detailed tables	670K
Data profiles	180K
Subject tables	170K
Geographic comparison tables, thematic maps	90K

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ACS 5-year estimates
Set of Proposed Tables

We will produce the ACS tables that are most comparable to those released in Census 2000 Summary File 3

We will also produce some tables that were not included in Census 2000 – new tables that were designed after Census 2000

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**ACS 5-year estimates
Set of Proposed Tables**

Most proposed geographic summary levels will receive a full set of 5-year tables regardless of size or type – exception is block groups

Some tables have geographic restrictions similar to those in place for Census 2000 SF3

**ACS 5-year estimates
Number of tables proposed for release**

	Estimated number of tables	
	Geographic summary levels other than block groups	Block Groups*
Detailed tables	800	330
Data profiles	4	0
Subject tables	60	0
Geographic comparison tables, thematic maps	90	0

* The total number of block groups is estimated to be about 210,000

**ACS 5-year estimates
Data Dissemination Plan**

We plan to release 5-year estimates annually and disseminate all 5-year ACS data products through the American FactFinder

We plan to release census block group data only in a summary file format, accessible from the American FactFinder download center

**ACS 5-year estimates
Tentative Data Release Schedule**

Type of estimate	Tentative release date
2009 ACS 1-year estimates	Sept 2010
2007-2009 ACS 3-year estimates	Dec 2010 or early 2011, after the release of the 5-year estimates*
2005-2009 ACS 5-year estimates	Nov or Dec 2010, some data products released in 2011*

*Due to the large volume of data and the scope of data review, we are developing 2011 contingency release dates

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**ACS 5-year estimates
Future products**

We currently are proposing that 5-year PUMS files be produced this year and next year but not necessarily produced every year

We plan to release the ACS SF4 and the ACS AIAN SF in early 2012 based on the 2006-2010 ACS 5-year estimates

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**ACS 5-year estimates
Future products**

We expect to refine this plan for future releases and value your feedback on shortcomings or overkill

We will continue to look for the most effective way to release 3 sets of ACS estimates annually along with the production of SF4 and AIAN SF-like products and PUMS files

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Many Users have Choices

- Population less than 20,000
 - 5-year estimates only
- Population from 20,000 to 64,999
 - 3-year estimates
 - 5-year estimates
- Population 65,000 or more
 - 1-year estimates
 - 3-year estimates
 - 5-year estimates

Reliability of the ACS 5-Year Estimates for Small Areas

- We have done research comparing the reliability of the 5-year estimates
- (Starsinic & Navarro)
- Based on the Multi-Year Estimates Study
- Collected data in a sample of housing units in 34 test counties from 1999-2005

Key Findings

- Several ACS estimates found in the profiles have low reliability across all areas and size categories.
- Mostly estimates for very small groups based on a small number of sample cases.
- Long form data users faced similar challenges.

The ACS Budget Initiative

Will reduce the margins of error 9.2%
– for 10% poverty rate for average-sized tracts

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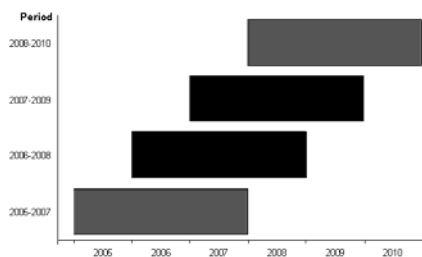
Comparing 3-Year or 5-Year Estimates Over Time

Be cautious comparing estimates from overlapping time periods
'Year-to-year' differences – e.g. 2006-2008 vs. 2007-2009 - determined by the nonoverlapping years
Better and easier to compare nonoverlapping periods

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Overlapping Periods



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Some Key Concepts for Data Users

Reliability versus currency: MYEs more reliable - less up-to-date
Small population groups – caution

Age by Ratio of Income to Poverty Level – Bloom Township, Cook County, IL

65 years and over	2007 ACS		2005-2007 ACS	
	Estimate	CV	Estimate	CV
Under 0.50	155	72.6%	534	27.5%
0.50 to 0.99	670	42.8%	483	22.0%
1.00 to 1.24	288	51.5%	277	29.4%
1.25 to 1.99	2,614	18.3%	2,115	13.1%
Under 2.00	3,727	15.8%	3,409	10.0%

Examples from the Multiyear Estimates Study

Released in preparation for the 2008 release of multiyear estimates.
Data collected from 1999 to 2005 for 34 test counties.
Available for download on ACS web site.
<http://www.census.gov/acs/www/AdvMeth/Multi_Year_Estimates/overview.html>

**Percent of People whose Income in the Past 12 Months is below the Poverty Level
Vilas County, WI (Multiyear Estimates Study)**

	2003-2005			2001-2005		
	Est.	MOE	CV	Est.	MOE	CV
All people	13.2	4.4	20.2	11.0	2.7	14.9
Under 18 years	25.5	14.4	34.2	20.9	9.4	27.3
18 to 64 years	12.6	3.9	18.8	10.0	2.3	13.9
65 years and over	5.2	2.1	24.5	5.4	1.5	16.8

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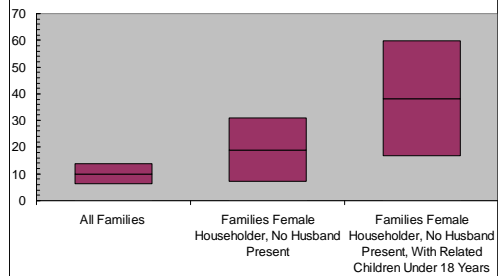
**Small Population Groups:
Number of Families by Type, Sevier
County, TN (Census 2000)**

All Families	20,836
Families with Female householder, no husband present	2,883
Families with Female householder, no husband present, with related children under 18	1,876

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**90% CI for Percent Poverty by Family Type - Sevier
County, TN - 2004 ACS**



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Percent of Families in Poverty: Female Householder, No Husband Present, Related Children Under 18 (Multiyear Estimates Study)

ACS Period	2004	2000-2004
Percent in Poverty	38.3	40.2
Margin of error	21.4	8.0
CV	33.9	12.1

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Small Population Groups in Summary

Size of confidence intervals & standard errors can get large

Caution – geographic entity may support 1-year estimate, but small population group may not

Data Users – Look at standard errors!

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When to Use Multiyear Estimates

For tracts and other smaller geographies with a population less than 65,000

To obtain estimates with lower standard errors

For small population groups

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When to Use One-Year Estimates

For larger geographies and populations
For characteristics with small standard errors and currency is important

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For More Detailed Information

Using Multiyear Estimates

<<http://www.census.gov/acs/www/UseData/myeoverview.html>>

Choosing Between ACS 1-year and 3-year estimates

<<http://www.census.gov/acs/www/UseData/mye/mychoosing.html>>

Statistical Issues of Interpretation of the American Community Survey's One-, Three-, and Five-Year Period Estimates

<http://www.census.gov/acs/www/Downloads/MYE_Guidelines.pdf>

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Concerns for Estimates of Total Resident Population of Substate Areas

Group Quarters sample designed to produce state-level estimates of characteristics of GQ population

Estimates of characteristics of the GQ population contribute to tabulations of the total resident population

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Nuevo Índice de Precios al Consumidor

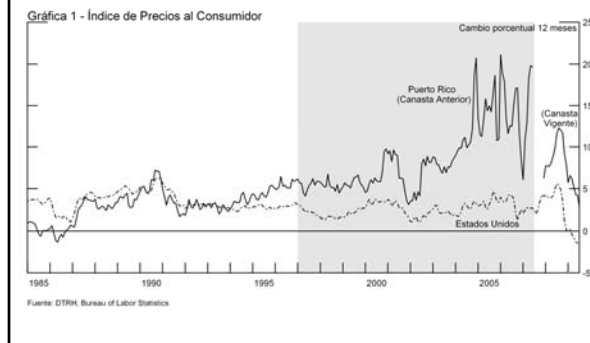
25 de junio de 2010



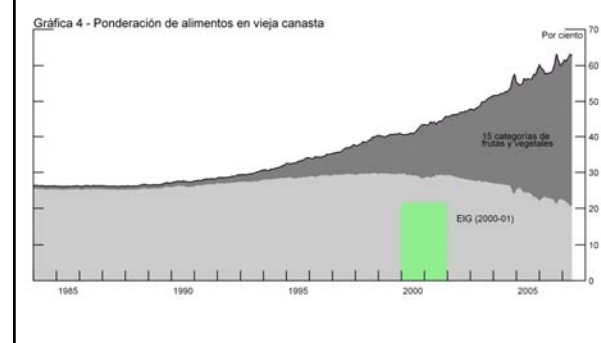
Trasfondo

- En 1997, el Gobierno comenzó la planificación de un nuevo Estudio de Ingresos y Gastos para revisar la Canasta de artículos y servicios del Índice de Precios al Consumidor (IPC) que prepara el Departamento del Trabajo y Recursos Humanos.
- Cuando se lanzó la Canasta, 10 años después, no se proveyó un enlace con la Canasta vieja.
- Sin este enlace o concatenación sería imposible medir el crecimiento económico real de Puerto Rico antes y después del 2007.

Trasfondo



Trasfondo



Implicaciones

- Aumentos excesivos en ciertos salarios
- Pérdida innecesaria de empleos
- Sub-estimación del crecimiento económico real
- Pérdida de competitividad de nuestra economía

Trasfondo

- Proyecto colaborativo entre el Departamento del Trabajo y el Instituto de Estadísticas.
- Éste refleja varios cambios a la metodología, recomendados tanto por el Instituto como por el Bureau of Labor Statistics de los Estados Unidos.
- El cambio más significativo al IPC es la remoción de una serie de elementos metodológicos que resultaban en una sobre-estimación de la inflación.

Cambios a la divulgación

- Publicación de más índices con un nivel mayor de desagregación
- Publicación de archivo (spreadsheet) con todos los datos públicos
- Publicación de ponderación de canasta al nivel mas desagregado posible (categorías)
- Calendario de Publicación de Estadísticas

Resumen de cambios metodológicos

- Promedio geométrico desde 1996
- Imputación de datos faltantes desde 2007
- Nueva transición entre 2001 y 2006
- Ponderación de productos sustitutos antes de 2006
- Concatenación en 2006

Proceso

IEPR: 1984-2006

DTRH: 2007-2009

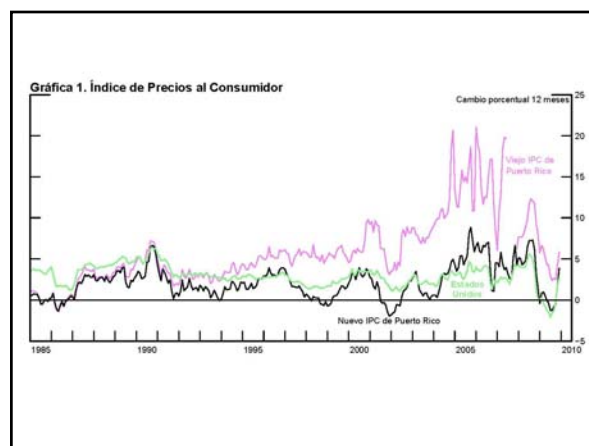
- 1) Limpieza de bases de datos: Detección de errores de entrada de datos y de valores extremos
- 2) Corregir ponderación de productos sustitutos antes de 2006
- 3) Imputación nueva de datos faltantes desde 2007

Proceso

- 4) Promedio geométrico (en vez de aritmético) desde 1996 en 1era etapa
 - Estimación de los relativos de precios e índices de precio
 - Informe Boskin de 1993 recomendó promedio geométrico para el IPC de Estados Unidos
 - BLS utiliza mayormente promedio geométrico desde 1999.
 - Para PR, amortigua efectos de precios volátiles de 15 categorías de frutas y vegetales

Proceso

- 5) Actualización de transición entre 2001 y 2006 con nuevos índices de precios sin sobreestimación
 - Concordancia consistente entre categorías utilizada para enlace final (ver próximo paso)
- 6) Enlace entre 1984-2006 y 2007-2009
 - Concordancia propuesta por Instituto



Próximos pasos

- Iniciar divulgación del nuevo IPC.
- Iniciar nuevo Estudio de Ingresos y Gastos.
- Promover legislación que obligue actualización de la Canasta como mínimo cada 10 años.
- Incorporar implicaciones de revisión del IPC a las Cuentas Macroeconómicas.

Conclusión

- Pone fin a un problema metodológico que ha plagado la medición de la actividad económica de Puerto Rico por los últimos 15 años

FIN



2010- 2011

Fecha de reuniones

CCE en pleno

20 de octubre de 2010*

17 de diciembre de 2010

25 de marzo de 2011

10 de junio de 2011

SCCE - Salud y Justicia

27 de agosto de 2010

3 de diciembre de 2010

25 de febrero de 2011

27 de mayo de 2011

SCCE - Economía

6 de agosto de 2010

5 de noviembre de 2010

4 de febrero de 2011

6 de mayo de 2011

SCCE - Educación y Familia

24 de septiembre de 2010

3 de diciembre de 2010

11 de marzo de 2011

3 de junio de 2011

*Día Mundial de Estadísticas