

# IPUMS Webinar: Where are Puerto Ricans? And, what are they doing?

How to use IPUMS integrated census samples of  
Puerto Rico, USA, and more

Katie Genadek, Dissemination/Outreach Core Director  
Robert McCaa, Ambassador, IPUMS-International  
Minnesota Population Center  
[www.ipums.org](http://www.ipums.org)



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Foundation and the National Institutes of Health



# Many thanks to:

- Instituto de Estadísticas de Puerto Rico, su director, Sr. Mario Marrazi
- Centro de Estudios Puertorriqueños, Dr. Carlos Vargas, & the visual dept of Hunter College, CUNY
- The Census Bureau, Ms. Brunilda Sánchez
- And to the researchers and students who enrolled in this IPUMS census webinar.

## Thanks to the MPC's IPUMS-International team (2009)



**(Not present: some computer gurus, researchers, research assistants, and civil service employees who were not present at this National Science Foundation Board meeting)**

# Outline

- What can you do with IPUMS? First, the teaser!
- What is IPUMS?
- Integrating IPUMS samples in time and space
- Overview of IPUMS-International and IPUMS-USA
- How to get IPUMS microdata
- How to get help—IPUMS User Support.
- Where in the world are Puerto Ricans?
- Questions and answers

# **WHAT CAN YOU DO WITH IPUMS?**

## **THE TEASER:**

**“Analyze data online”**

**(Yes, George, this works on your  
smartphone, too.)**





# IPUMS samples are for research: comparisons in time and space

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## Integrated Public Use Microdata Series, International

census microdata for social and economic research

IPUMS-International is a project dedicated to collecting and distributing census data from around the world. Its goals are to:

- Collect and preserve data and documentation

## IPUMSI News

NEW! Online tabulator  
NEW! Class accounts  
June 2012 data release  
2011 award winners  
Terra Populus funded  
... All news items

## MPC Data Projects

[others](#)

### What can you do with IPUMS?

### “Analyze data online”

**Puerto Ricans in PR & USA, 1970-2005:  
educational attainment by sex  
for young adults (25-34 years)  
...in 4 seconds comp time**

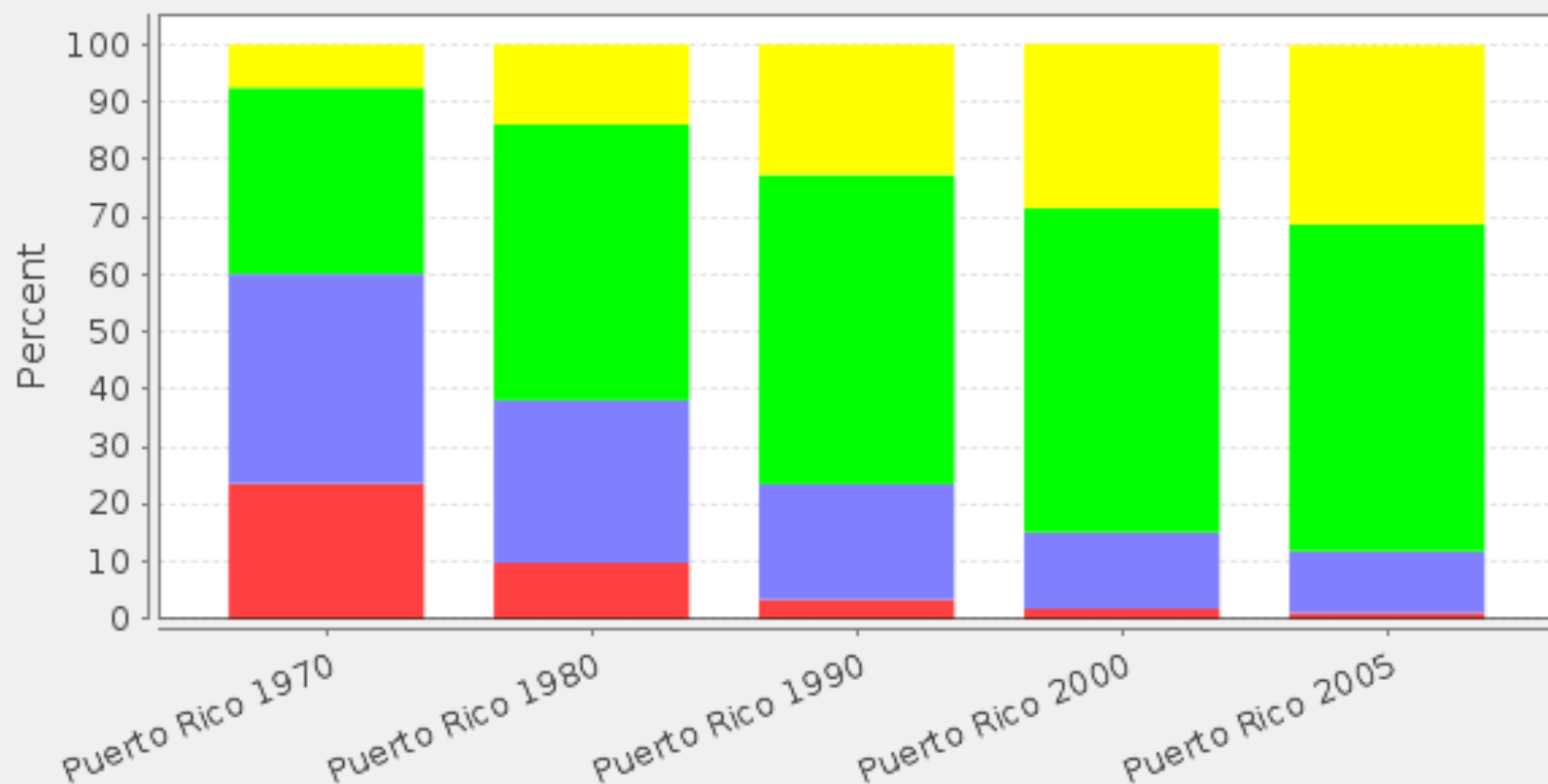
ve News  
est to  
onal data  
cers.



# Do this chart in <1 minute

## Chart for sex = 2(Female)

### Educational attainment, international recode BY IPUMS sample identifier



■ Less than primary completed 
 ■ Primary completed 
 ■ Secondary completed 
 ■ University completed


[Home](#) | [Select](#)

**How can you do it?**  
**First, click “Analyze Data Online”**  
**Second, click any year**  
**For Puerto Rico, scroll down**

**PROJECT**

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**IPUMS Online Data Analysis System**

The IPUMS online analysis system uses high-speed tabulation software developed at UC-Berkeley's [Computer-assisted Survey Methods Program](#).

Click on any of the links below to get started. See the [instructions](#) page for information on using the system.

**NOTE:** The statistics produced by the online analysis system are derived from sample data. They may not match official published statistics.

**Single-Sample Datasets**

Argentina	<a href="#">2001</a>	<a href="#">1991</a>	<a href="#">1980</a>	<a href="#">1970</a>	
Armenia	<a href="#">2001</a>				
Austria	<a href="#">2001</a>	<a href="#">1991</a>	<a href="#">1981</a>	<a href="#">1971</a>	
Belarus	<a href="#">1999</a>				
Bolivia	<a href="#">2001</a>	<a href="#">1992</a>	<a href="#">1976</a>		
Brazil	<a href="#">2000</a>	<a href="#">1991</a>	<a href="#">1980</a>	<a href="#">1970</a>	<a href="#">1960</a>
Cambodia	<a href="#">2008</a>	<a href="#">1998</a>			
Canada	<a href="#">2001</a>	<a href="#">1991</a>	<a href="#">1981</a>	<a href="#">1971</a>	



**For a full  
series of  
samples:**

**scroll down  
more,**

**then click  
a range of  
years.**

**For a world  
region (e.g.,  
Latin America)  
scroll down  
even more!**

### Multi-Sample Datasets

Include the *year* variable when using datasets that contain multiple samples for a country, such as "Argentina 1970-2001". Include the *sample* variable when using regional datasets, such as "Africa 1982-Present".

Argentina	<a href="#">1970-2001</a>	Austria	<a href="#">1971-2001</a>
Bolivia	<a href="#">1976-2001</a>	Brazil	<a href="#">1960-2000</a>
Cambodia	<a href="#">1998-2008</a>	Canada	<a href="#">1971-2001</a>
Chile	<a href="#">1960-2002</a>	China	<a href="#">1982-1990</a>
Colombia	<a href="#">1964-2005</a>	Costa Rica	<a href="#">1963-2000</a>
Ecuador	<a href="#">1962-2001</a>	Egypt	<a href="#">1996-2006</a>
El Salvador	<a href="#">1992-2007</a>	France	<a href="#">1962-2006</a>
Germany	<a href="#">1970-1987</a>	Greece	<a href="#">1971-2001</a>
Guinea	<a href="#">1983-1996</a>	Hungary	<a href="#">1970-2001</a>
India	<a href="#">1983-2004</a>	Indonesia	<a href="#">1971-2010</a>
Ireland	<a href="#">1971-2006</a>	Israel	<a href="#">1972-1995</a>
Jamaica	<a href="#">1982-2001</a>	Kenya	<a href="#">1989-1999</a>
Malawi	<a href="#">1987-2008</a>	Malaysia	<a href="#">1970-2000</a>
Mali	<a href="#">1987-1998</a>	Mexico	<a href="#">1960-2010</a>
Mongolia	<a href="#">1989-2000</a>	Morocco	<a href="#">1982-2004</a>
Netherlands	<a href="#">1960-2001</a>	Nicaragua	<a href="#">1971-2005</a>
Pakistan	<a href="#">1973-1998</a>	Palestine	<a href="#">1997-2007</a>
Panama	<a href="#">1960-2000</a>	Peru	<a href="#">1993-2007</a>
Phillippines	<a href="#">1990-2000</a>	Portugal	<a href="#">1981-2001</a>
Puerto Rico	<a href="#">1970-2005</a>	Romania	<a href="#">1977-2002</a>
Rwanda	<a href="#">1991-2002</a>	Saint Lucia	<a href="#">1980-1991</a>
Senegal	<a href="#">1988-2002</a>	South Africa	<a href="#">1996-2007</a>
Spain	<a href="#">1981-2001</a>	Switzerland	<a href="#">1970-2000</a>

**Third, make table (& chart: “Stacked Bar Chart”)**  
**Row: “edattan”. Column: “sample” [year].**  
**Control: “sex”. Filter(s): age (25-34).**  
**Add a title, if desired. Then click “Run”.**

**Variable Selection:** [Help](#)

**Selected:**

**Copy to:**

**Mode:** ☐ Append ☒ Replace

**SDA Frequencies/Crosstabulation Program**  
Help: [General](#) / [Recoding Variables](#)

**REQUIRED Variable names to specify**

**Row:**

**OPTIONAL Variable names to specify**

**Column:**

**Control:**

**Selection Filter(s):**  Example: age(18-50)

**Weight:**

**TABLE OPTIONS**

**Percentaging:**

☒ Column ☐ Row ☐ Total

☐ [Confidence intervals](#) Level:

☐ [Standard error of each percent](#)

**N of cases to display:**

☐ Unweighted ☒ Weighted

☐ [Summary statistics](#)

☐ [Question text](#) ☐ [Suppress table](#)

☒ [Color coding](#) ☐ [Show Z-statistic](#)

☐ [Include missing-data values](#)

**CHART OPTIONS**

**Type of chart:**

**Bar chart options:**

Orientation: ☒ Vertical ☐ Horizontal

Visual Effects: ☒ 2-D ☐ 3-D

**Show percents:** ☐ Yes

**Palette:** ☒ Color ☐ Grayscale

**Size** - width:  height:

**You *can* do this on a smartphone—but guys, *don't try this in a bar!***

Statistics for sex = 1(Male)							
Cells contain: -Column percent -Weighted N		sample					
		6301	6302	6303	6304	6305	ROW TOTAL
		Puerto Rico 1970	Puerto Rico 1980	Puerto Rico 1990	Puerto Rico 2000	Puerto Rico 2005	
1: Less than primary completed	19.4	11.7	6.2	3.3	4.2	7.9	
	30,600.0	25,340.0	15,168.0	8,494.0	10,883.0	90,485.0	
2: Primary completed	38.5	31.0	23.0	18.5	13.4	23.5	
	30,600.0	25,340.0	15,168.0	8,494.0	10,883.0	90,485.0	

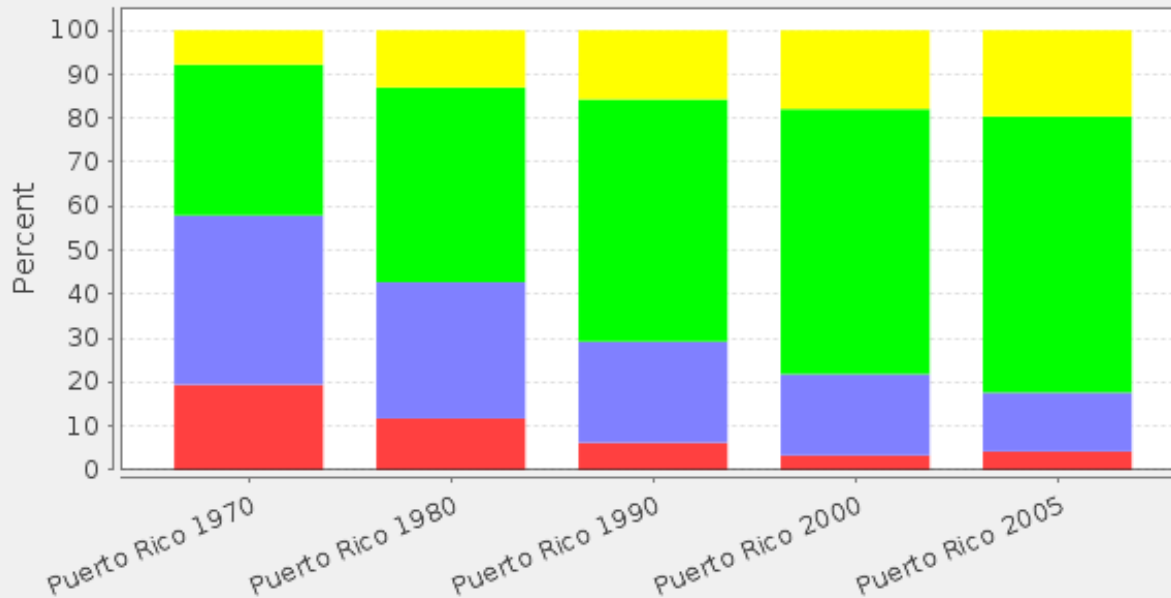
**\*Times may vary. See fine print:**

[illegible]

# The chart (stacked bar—not photoshopped)

Chart for sex = 1(Male)

Educational attainment, international recode BY IPUMS sample identifier



Note the revolution in education over the past 35 years.

Now 80% graduate high school, and 20% college—twice 1970s rates...

What about females?  
... next slide

Statistics for sex = 2(Female)

Cells contain:  
Column percent

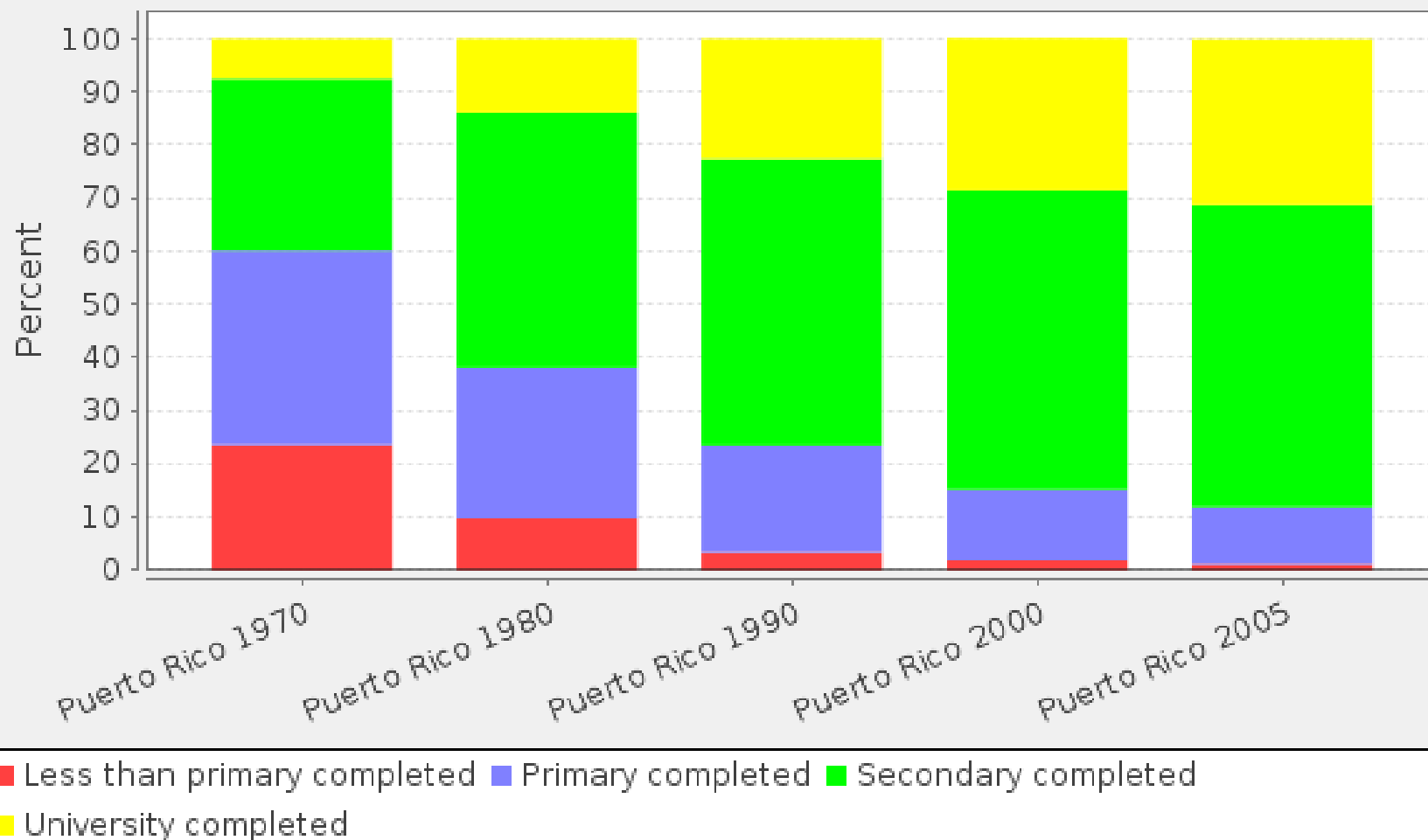
sample			
6301 Puerto	6302 Puerto	6303 Puerto	6304 Puerto



# Female

Chart for sex = 2(Female)

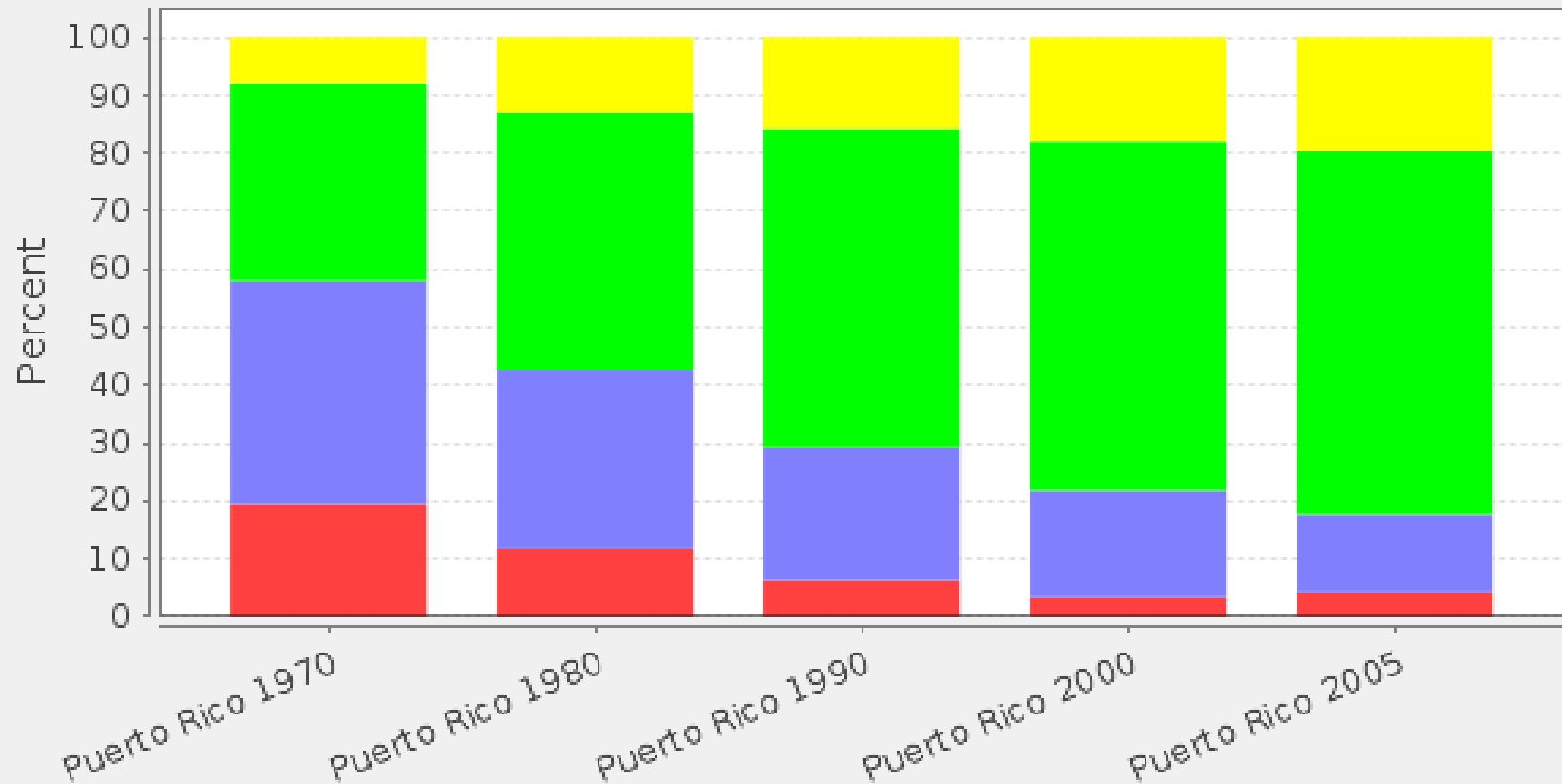
Educational attainment, international recode BY IPUMS sample identifier



# ... and Male (reverse discrimination?)

Chart for sex = 1 (Male)

Educational attainment, international recode BY IPUMS sample identifier



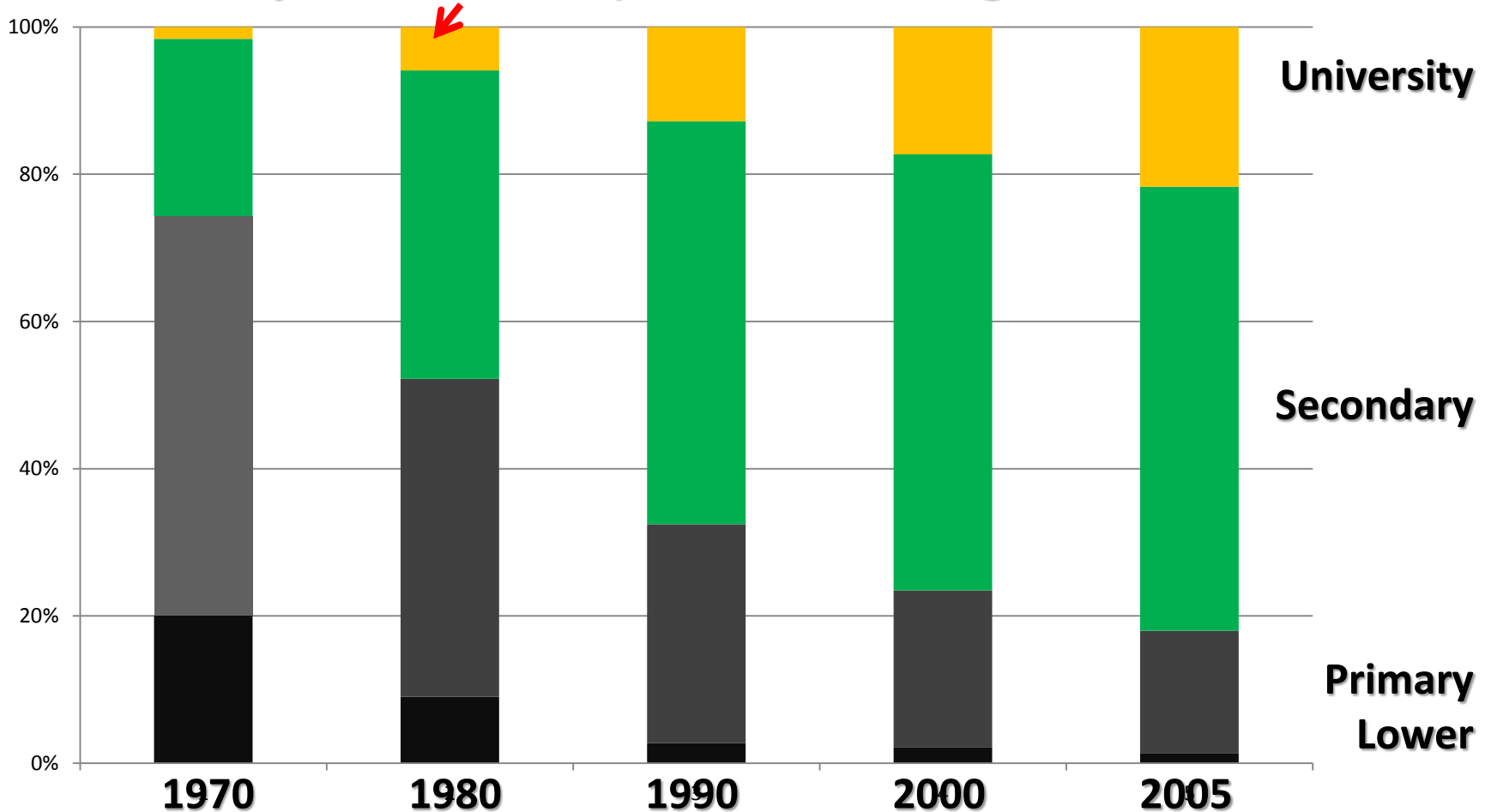
■ Less than primary completed ■ Primary completed ■ Secondary completed  
■ University completed

**WHAT CAN YOU DO WITH IPUMS?  
THE TEASER (CONTINUED):**  
**What you are about to see is from  
“Analyze data online”—for PR & USA.  
Results are cut-and-pasted to EXCEL  
to produce graphs (not so pretty).**

# Puerto Ricans in USA, 1970-2005

## Educational attainment: females aged 25-34

Sonia Sotomayor is **not** here (Princeton '76, age 22, but **not** born in PR)

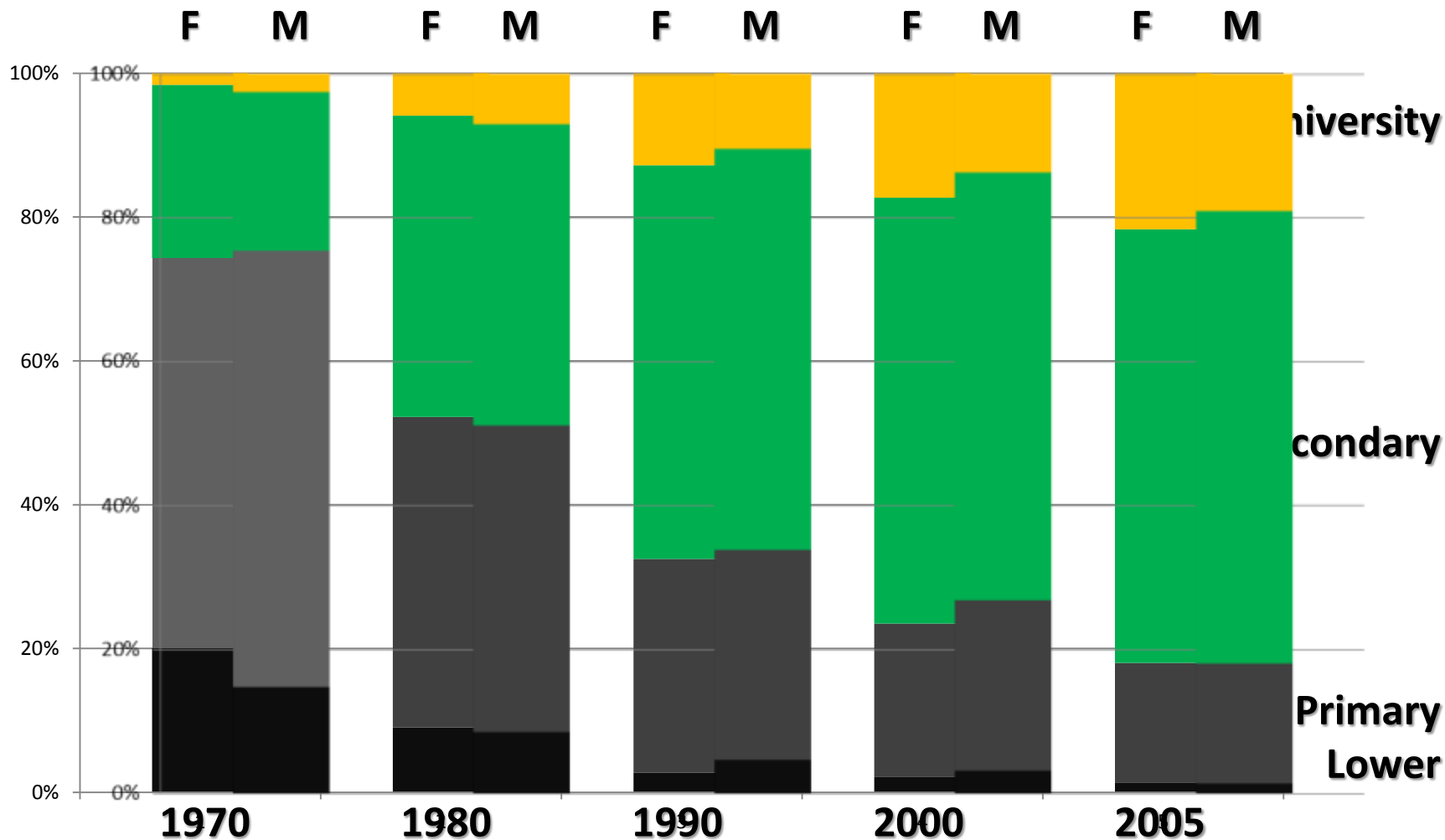


Puerto Ricans living in the United States, 1970-2005



# Puerto Ricans in USA, Females vs. Males

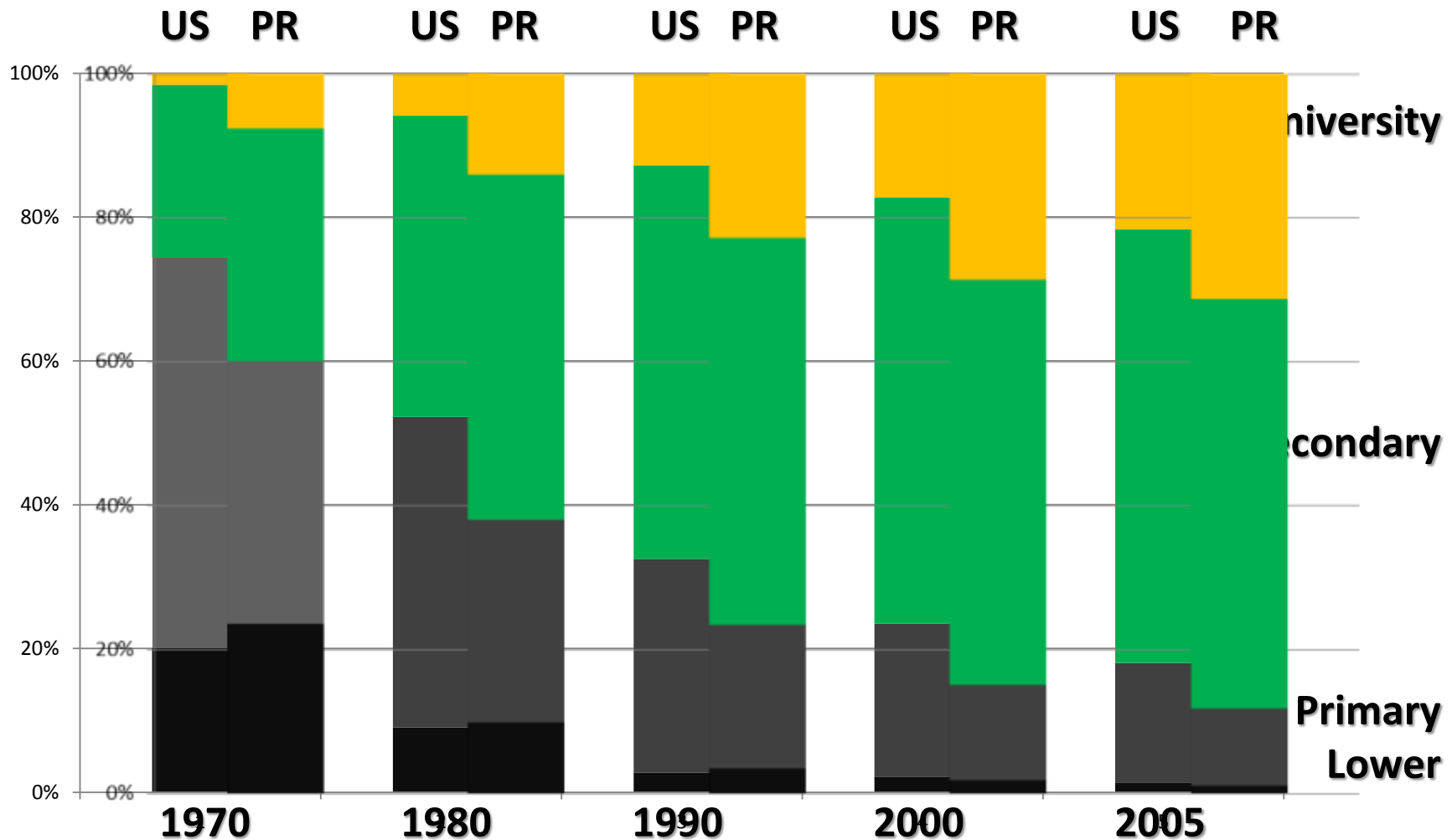
## Gender gap, always small, reverses in 1990



Puerto Ricans living in the United States, 1970-2005

# Puerto Rican Females in USA vs PR

## Always less educated in USA



**What about males? -- check 'em out!**

**END OF TEASER.**

**What can you do with IPUMS?**

- **“Analyze data online” & much more.**
- **Download microdata to your computer.**
- **Analyze the data any way you wish.**
- **Compare any combination of available country(ies) & census(es).**

# 7 Electronic Handouts & 8 Tutorials

1. IPUMS-International 2013 samples
  2. English: IPUMS-International: 5 steps & 10 tips
  3. Español: 5 pasos y 10 consejos
  4. Puerto Rico. IPUMS-International & IPUMS-USA: Integrated variables (spreadsheet with 2 pages)
  5. IPUMS: Puerto Ricans living abroad (compared with UN figures) for 1990, 2000 and 2010
  6. IPUMS-USA Worksheet using SPSS to analyze data from Puerto Rico
  7. IPUMS-International Worksheet using SPSS to analyze data from Puerto Rico
- & 8 tutorials: [www.hist.umn.edu/~rmccaa/IPUMSI](http://www.hist.umn.edu/~rmccaa/IPUMSI) (Under “Tutorials”, click “Puerto Rico”, in left frame)



# What is IPUMS?

**Integrated** - consistent codes, labels, and documentation

**Public Use** - anonymized, downloadable

**Microdata** - individual-level

**Series** - pooled data over time and place

# But, What is the IPUMS data?

- Microdata samples from the US, Puerto Rico, and countries around the world
- Datasets contain most responses from a sample of individuals (often between 1-10% per census of a country)
- Data must be analyzed with a statistical package or through the IPUMS online analysis
- All data and metadata are **free**

# Microdata versus Summary Data

## Microdata

- Shows full range of responses for individuals
- Enable custom tables and sophisticated analysis
- Suppression: geography, truncation, and item level suppression

## Summary Data

- Premade or published tables of aggregate characteristics
- Enable examination of small geographic areas
- Suppression: limited content, grouped intervals, and cell suppression

# Summary Data

Age	Both sexes	Male	Female
<b>Total population</b>	<b>281,421,906</b>	<b>138,053,563</b>	<b>143,368,343</b>
Under 5 years	19,175,798	9,810,733	9,365,065
5 to 9 years	20,549,505	10,523,277	10,026,228
10 to 14 years	20,528,072	10,520,197	10,007,875
15 to 19 years	20,219,890	10,391,004	9,828,886
20 to 24 years	18,964,001	9,687,814	9,276,187
25 to 29 years	19,381,336	9,798,760	9,582,576
30 to 34 years	20,510,388	10,321,769	10,188,619
35 to 39 years	22,706,664	11,318,696	11,387,968
40 to 44 years	22,441,863	11,129,102	11,312,761
45 to 49 years	20,092,404	9,889,506	10,202,898
50 to 54 years	17,585,548	8,607,724	8,977,824
55 to 59 years	13,469,237	6,508,729	6,960,508
60 to 64 years	10,805,447	5,136,627	5,668,820
65 to 69 years	9,533,545	4,400,362	5,133,183
70 to 74 years	8,857,441	3,902,912	4,954,529
75 to 79 years	7,415,813	3,044,456	4,371,357
80 to 84 years	4,945,367	1,834,897	3,110,470
85 to 89 years	2,789,818	876,501	1,913,317
90 years and over	1,449,769	350,497	1,099,272

Relationship      Age      Sex      Birthplace      Mother's birthplace      Race      Occupation

H91000002400000000088001001000220100
P9100000020101032120010010010011504
P9100000010201036220010010010011999
P910201000301011220060010010011999
P910201000301009120060010010011999
P910201000301007120060010010011999
P910201000301006120060010010011999
P910201000301004220060010010011999
P910201000301003220060010010011999
P910201000301002220060010010011999
H91000002400000000088001001000220100
P9100000020101030110010290510511310
P9100000010201021210010290290171999
P910201000301001110060010290291999
H91000002400000000088001001000220100
P9100000020101045120010010010011100
P9100000010201025220010010010011820
P910201000301007220060010010011999
H91000002400000000088001001000220100
P9100000020101049120010010010011100
P9100000010201049220010010010011820
P910201000301019220060010010011820
P910201000301015220060010010012820

## IPUMS Data

Household record  
(shaded) followed  
by a person record  
for each member  
of the household

For each type of  
record, columns  
correspond to  
specific variables

# IPUMS and Other MPC Data Projects

All have similar interfaces—learn one, learn them all



Home of the IPUMS and other data projects

The MPC is one of the world's leading developers of demographic data resources. We provide population data to thousands of researchers, policymakers, teachers, and students. All MPC data are available free over the internet.

## Integrated Public Use Microdata Series



### IPUMS-International

Harmonized data for 1960 forward, covering 279 million people in 130 censuses from around the world



### IPUMS-USA

Harmonized data on people in the U.S. census and American Community Survey, from 1850 to the present



### IPUMS-CPS

Harmonized data on people in the Current Population Survey, every March from 1962 to the present

## Other MPC Projects



### North Atlantic Population Project

Complete-count data from 1800s censuses of Canada, Great Britain, Norway, Sweden, and the U.S.



### National Historical Geographic Information System

Tabular U.S. census data and GIS boundary files from 1790 to 2000



### Integrated Health Interview Series

Annual Harmonized data on people in the U.S. National Health Interview Survey from the 1960s to the present



### American Time Use Survey-X

Annual Harmonized data from 2003 forward on how U.S. adults divide their time among activities

<http://www.ipums.org/>



# Puerto Rico and Puerto Ricans in IPUMS-International vs. USA: it's your choice



## IPUMS-International

Harmonized data for 1960 forward covering 279 million people in 1 censuses from around the world

- 5 samples: 1970-2005
- integrated variables
  - 66 in all 5 samples
  - 103 total
- International concepts
- Less detailed
- ACS every 5 years
- Fewer complications, more harmonized



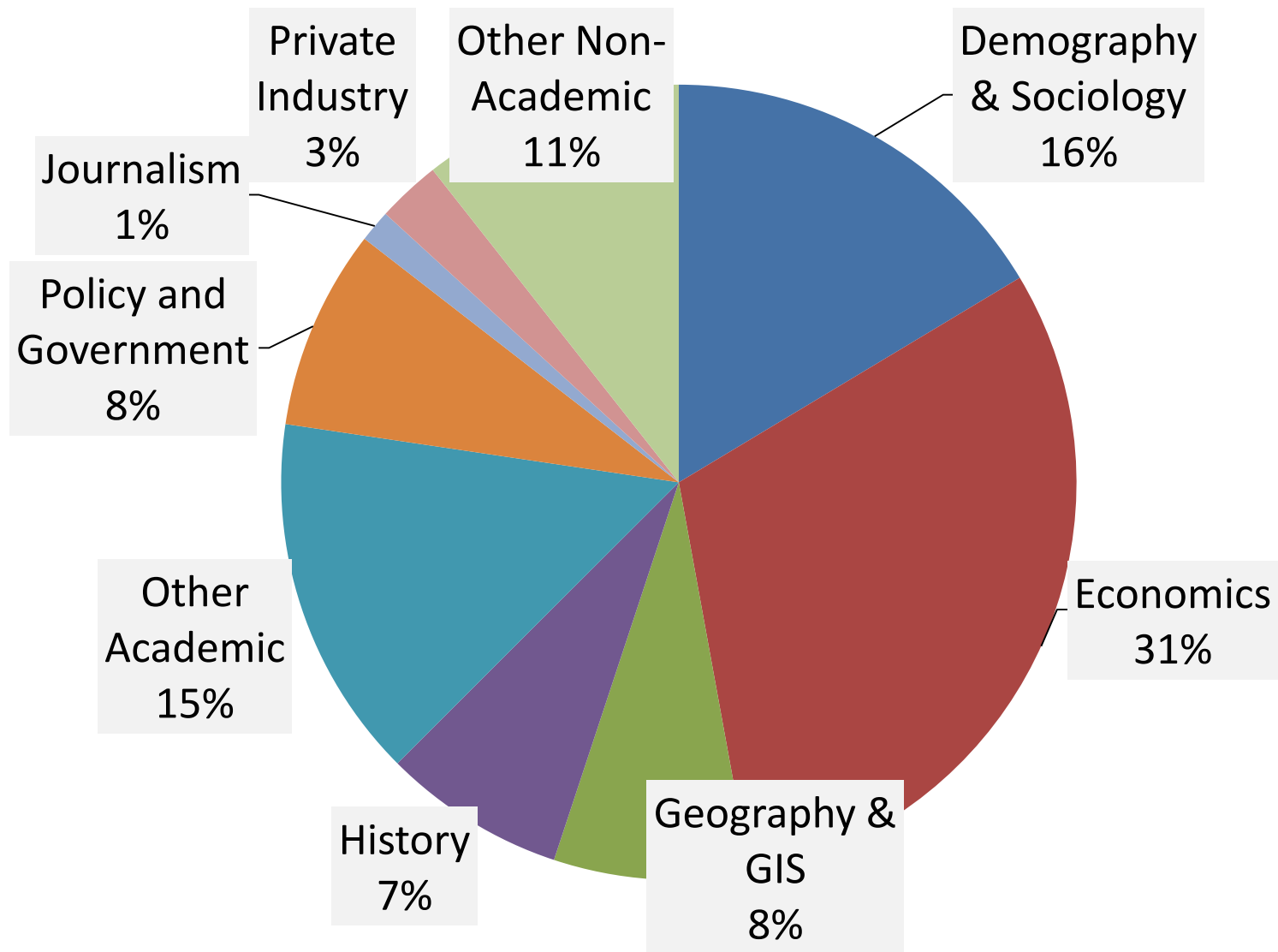
## IPUMS-USA

Harmonized data on people in the U.S. census and American Community Survey, from 1850 to the present

- 18 samples: 1910-2011
- integrated variables:
  - 52 in all 18 samples
  - 369 total
- US-CB concepts
- Most detailed
- Includes annual ACS
- More complicated, more decisions to make

**WHO USES IPUMS?**  
**WHAT DO THEY USE IT FOR?**

# Who uses IPUMS?



# IPUMS-International Big 10+5: 2012

<u>Institution</u>	<u>N</u>
1. Vanderbilt University	387
2. Harvard University	241
3. UCLA	173
4. Yale University	167
5. IFO, Germany	156
6. University of Queensland, Australia	150
7. Centre d'Estudis Demografics, Barcelona	141
8. University of Chicago	137
9. University of Stirling, UK	108
10. <i>Federal Univ. of Minas Gerais (CEDEPLAR), Brazil</i>	99
11. <i>Colegio de México</i>	95
12. National University of Singapore	93
13. United Nations Population Division	93
14. The University of Hong Kong, SAR	89
15. Indiana University	69

# IPUMS-Latin America Big 10+2: 2012

<u>Institution</u>	<u>N</u>
1. Federal Univ. of Minas Gerais (CEDEPLAR), Brazil	99
2. Colegio de México	95
3. Inter-American Development Bank	61
4. Universidad Externado de Colombia	39
5. UNAM, México	34
6. Universidad Nacional de La Plata, Argentina	26
7. Universidad Católica de Chile	18
8. CEM/CEBRAP, Brazil	16
9. Universidad de los Andes, Colombia	15
10. Universidad del Uruguay	14
<u>11. Universidad de Puerto Rico</u>	<u>12</u>
12. Universidad de Chile	10

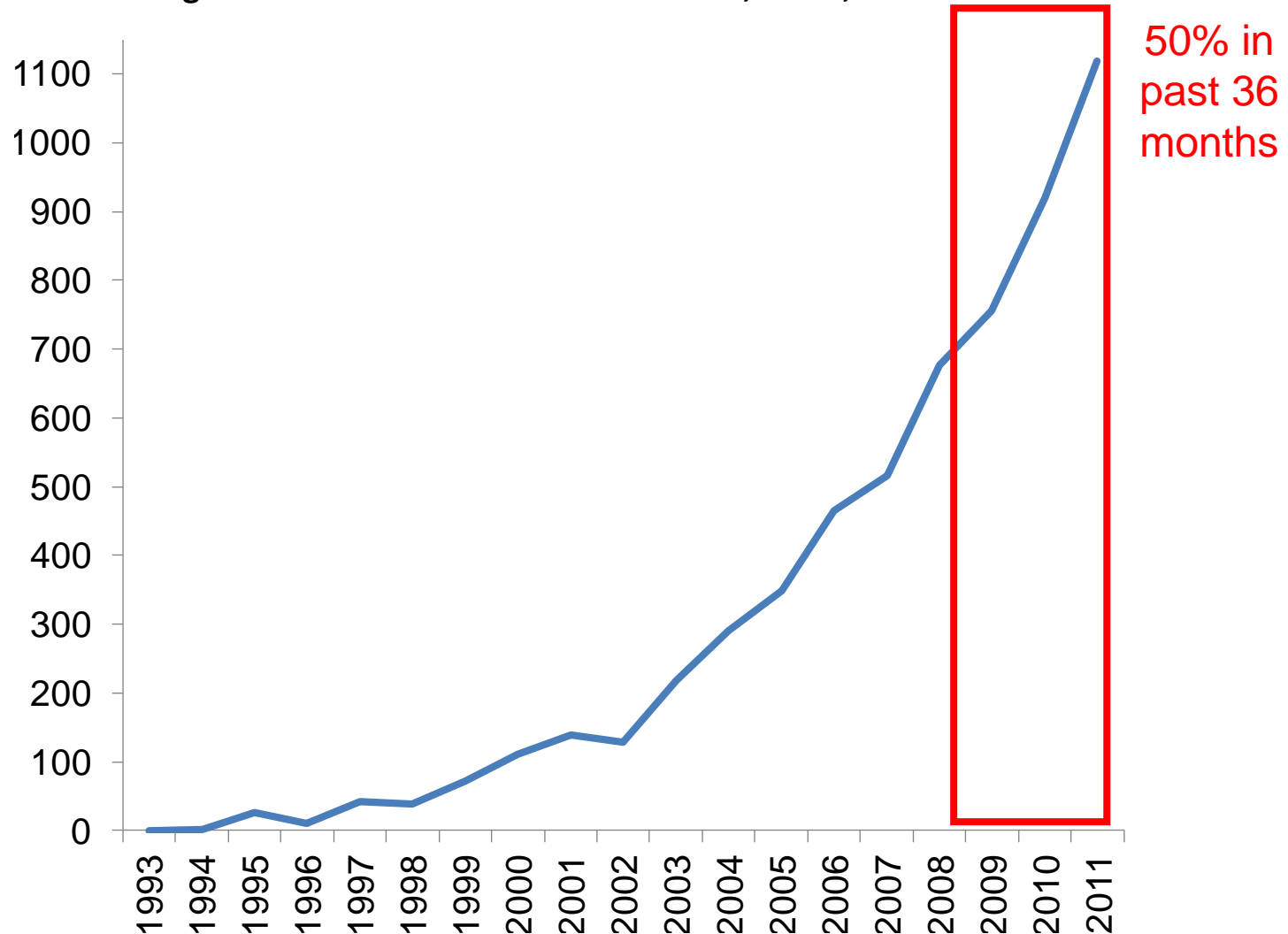
# What IPUMS users doing with the data?

- Academic Journal Articles
  - Over 5000 articles published using IPUMS
- Policy Reports
- Government Policy Analyses
- Demographics for Local Governments
- Dissertations and Theses
- Class Assignments



# Publications from IPUMS Data

Google Scholar annual citations of IPUMS, NAPP, and NHGIS



# Bibliography

- IPUMS specific bibliography
- Contains almost all publications using IPUMS microdata
- Essential for IPUMS to get new data (and funding)!
- Cite your work in the IPUMS bibliography so that others may learn what you know

# IPUMS

International

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## PROJECT

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## Integrated Public Use Microdata Series, International

census microdata for social and economic research

IPUMS-International is a project dedicated to collecting and distributing census data from around the world. Its goals are to:

- Collect and preserve data and documentation
- Harmonize data
- Disseminate the data absolutely free!

68 countries - 211 censuses - 480 million person records

## IPUMSI News

NEW! Online tabulator  
NEW! Class accounts  
June 2012 data release  
2011 award winners  
Terra Populus funded  
... All news items

## MPC Data Projects

[IPUMS-USA and others](#)



### Sign up

to receive News of interest to IPUMS-International data users and producers.



# bibliography.ipums.org

bibliography.ipums.org

## MPC Bibliography

Publications, working papers, and other research using data resources from the [Minnesota Population Center \(MPC\)](#)

[new search](#) | [add your publication](#)

### Advanced Search

Enter search terms in at least one of the fields below

Keyword:

Title:

Author:

#### Limit results by (optional)

Journal:

Type:

Publication Year:  to

Restrict to topics:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Aging and Retirement            | <input type="checkbox"/> Crime and Deviance        | <input type="checkbox"/> Education                              |
| <input type="checkbox"/> Family and Marriage             | <input type="checkbox"/> Fertility and Mortality   | <input type="checkbox"/> Gender                                 |
| <input type="checkbox"/> Health                          | <input type="checkbox"/> Housing and Segregation   | <input type="checkbox"/> Labor Force and Occupational Structure |
| <input type="checkbox"/> Methodology and Data Collection | <input type="checkbox"/> Migration and Immigration | <input type="checkbox"/> Poverty and Welfare                    |
| <input type="checkbox"/> Race and Ethnicity              | <input type="checkbox"/> Other                     |   |

Restrict to projects:

- |                                    |                               |                                    |  |
|------------------------------------|-------------------------------|------------------------------------|--|
| <input type="checkbox"/> ATUS      | <input type="checkbox"/> IHIS | <input type="checkbox"/> IPUMS-CPS | <input type="checkbox"/> IPUMS-International |
| <input type="checkbox"/> IPUMS-USA | <input type="checkbox"/> NAPP | <input type="checkbox"/> NHGIS     |  |

# Bibliography – Puerto Rico

- 18 citations for IPUMS-USA
- 8 citation for IPUMS-International
- Examples:
  - **Borjas, George J..** 2008. “Labor Outflows and Labor Inflows in Puerto Rico.” *Journal of Human Capital* 2: 32-68
  - **Loveman, Mara, Jeronimo Muniz.** 2007. “How Puerto Rico Became White: Boundary Dynamics and Intercensus Racial Reclassification.” *American Sociological Review* 72: 915-939
  - **Curtis, Katherine.** 2011. “Economic Transition and Social Inequality in Early Twentieth Century Puerto Rico.” Pp. 217-240 in *Navigating Time and Space in Population Studies*.

# **INTEGRATION: WHAT DOES IT MEAN?**



# Integrating microdata and metadata

## Integrated **P**ublic **U**se **M**icrodata **S**eries

- Integrating microdata
- Integrating metadata (documentation)
- ‘Integrating’ user’s needs

# Integrating Data – Education Attainment

edattan	Education	Puerto Rico 1970	Puerto Rico 1980	U.S.A. 1980	Cuba 2002	Ecuador 2001
Code	Label	PR70A426	PR90A427	US80A446	CU02A416	EC01A445
110	No Schooling	10 = None (no levels of school completed)	1 = No school completed	10 = None (no levels of school completed)	0 = None	0 = None, year 0
120	Some Primary	40 = 1st grade	4 = 1st-4th grade	40 = 1st grade		
212	Primary (6 years)	90 = 6th grade	5 = 5th-8th grade	90 = 6th grade	1 = Primary	206 = Primary, year 6
221	Lower Secondary Completed	120 = 9th grade	6 = 9th grade	120 = 9th grade	2 = Basic secondary	409 = Basic Education, year 9
311	Secondary Completed	152 = Attending 1st year college		152 = Attending 1st year college	4 = Pre-university	
312	Some college/university	160 = 1st year	11 = Some college, no degree	160 = 1st year		701 = Higher education, year 1
400	University Completed	190 = 4th year	14 = Bachelor's degree	190 = 4th year	7 = Higher education	705 = Higher education, year 5



# Integrating Data – Education Attainment

## Codes and Frequencies

- ☒ Category availability view
- ☐ Case-count view
- ☒ General codes
- ☐ Detailed codes

An 'X' indicates the category is available for that sample.

Code	Label	PR 70	PR 80	PR 90	PR 00	PR 05
0	NIU (not in universe)	X	X	X	X	X
1	Less than primary completed	X	X	X	X	X
2	Primary completed	X	X	X	X	X
3	Secondary completed	X	X	X	X	X
4	University completed	X	X	X	X	X
9	Unknown	.	.	.	.	.

# Integrating Data – Education Attainment

## Codes and Frequencies

- ☐ Category availability view
- ☒ General codes
- ☒ Case-count view
- ☐ Detailed codes

Code	Label	puerto				
		1970	1980	1990	2000	2005
0	NIU (not in universe)	1,903	10,440	9,053	8,821	1,047
1	Less than primary completed	13,001	59,092	44,799	36,947	6,433
2	Primary completed	7,709	47,963	56,249	53,788	9,420
3	Secondary completed	3,815	34,442	52,990	68,272	13,484
4	University completed	784	8,282	14,564	22,000	5,032
9	Unknown	.	.	.	.	.

# Integrating Data – Education Attainment

## Codes and Frequencies

- ☒ Category availability view      ☐ General codes  
☐ Case-count view                      ☒ Detailed codes

An 'X' indicates the category is available for that sample.

Code	Label	PR 70	PR 80	PR 90	PR 00	PR 05
000	NIU (not in universe)	X	X	X	X	X
100	LESS THAN PRIMARY COMPLETED	.	.	.	.	.
110	No schooling	X	X	X	X	X
120	Some primary	X	X	X	X	X
130	Primary (4 years)	.	.	.	.	.
	PRIMARY COMPLETED, LESS THAN SECONDARY					
	Primary completed					
211	Primary (5 years)	.	.	.	.	.
212	Primary (6 years)	X	X	X	X	X
	Lower secondary completed					
221	General and unspecified track	X	X	X	X	X
222	Technical track	.	.	.	.	.
	SECONDARY COMPLETED					
	General or unspecified track					
311	General track completed	X	X	X	X	X
312	Some college/university	X	X	X	X	X
320	Technical track	.	.	.	.	.
321	Secondary technical degree	.	.	.	.	.
322	Post-secondary technical education	.	.	X	.	.
400	UNIVERSITY COMPLETED	X	X	X	X	X
999	UNKNOWN/MISSING	.	.	.	.	.



# Integrated Metadata: Sample descriptions

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  - Allocation and Imputation Flags
  - Questions and Instructions to Respondents
  - Instructions to Enumerators



## Sample characteristics: Puerto Rico

### Census characteristics

	1970	1980	1990
<b>Title</b>	1970 Census of Population and Housing	1980 Census of Population and Housing	1990 Census of Population and Housing
<b>Census agency</b>	U.S. Census Bureau	U.S. Census Bureau	U.S. Census Bureau
<b>Population universe</b>	Residents of Puerto Rico.	Residents of Puerto Rico.	Residents of Puerto Rico.
<b>De jure or de facto</b>	De jure	De jure	De jure
<b>Enumeration unit</b>	Households and Group Quarters	Households and Group Quarters	Households and Group Quarters
<b>Census day</b>	April 1, 1970	April 1, 1980	April 1, 1990
<b>Enumeration forms</b>	One in five housing units in 1970 received a long form containing supplemental sample questions. Three independent 1 percent public use samples were produced for 1970, each privileging a particular geography: neighborhood, municipio, and "state". IPUMS-International uses the municipio sample.	The 1980 census employed a single long form questionnaire completed by one-half of housing units in places with a population under 2,500 and one-sixth of other housing units.	The 1990 census used a single long-form questionnaire completed by one-half of persons in places with a population under 2,500, one-sixth of persons in other tracts and block numbering areas with fewer than 2,000 housing units, and one-eighth of all other areas. Overall, about one-sixth of housing units completed a long form.

<https://international.ipums.org/international/index.shtml>

<b>Sample unit</b>	Household	Household	Household
<b>Sample fraction</b>	1%	5%	5%
<b>Sample size (person records)</b>	27,212	160,219	177,655
<b>Sample weights</b>	Self-weighting. Expansion factor = 100.	Self-weighting. Expansion factor = 20.	Weights computed by census agency should be used for most types of analysis.

#### Units identified

	1970	1980	1990
<b>Dwellings</b>	No	No	No
<b>Vacant units</b>	Yes	Yes	Yes
<b>Smallest geography</b>	Metropolitan areas and county groups with 250,000+ population	PUMAS (Public Use Microdata Areas (PUMAs) containing 100,000 or more residents	PUMAS (Public Use Microdata Areas (PUMAs) containing 100,000 or more residents

#### Unit definitions

	1970	1980	1990
<b>Households</b>	Yes	Yes	Yes
<b>Individuals</b>	Yes	Yes	Yes
<b>Group quarters</b>	Yes	Yes	Yes
<b>Households</b>	Dwelling places with fewer than five persons unrelated to a household head, excluding institutions and transient quarters.	Dwelling places with fewer than ten persons unrelated to a household head, excluding institutions and transient quarters.	Dwelling places with fewer than ten persons unrelated to a household head, excluding institutions and transient quarters.
<b>Group quarters</b>	Institutions, transient quarters, and	Institutions, transient quarters, and	Institutions, transient quarters, and



# Integrated Metadata: Variable descriptions

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**Note "Data Cart"**  
**0 samples selected**

**Data Cart**  
Your data extract

0 variables  
0 samples

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Select Variables

Household ▾

Person ▾

A-Z ▾

Search

Select  
Samples

☒ Integrated variables

☐ Unharmonized variables

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[Options](#)

[Country abbreviations](#)

Start here:

**First, select samples  
(otherwise, huge pages with  
every sample in the database  
will be constructed & displayed)**

**Start here for huge pages with  
every sample in the database  
for each variable.  
Where in the world are all the  
Puerto Ricans? -- Start here!**









## Select Samples

Variable documentation on the website can be filtered to display only material corresponding to chosen datasets ([more information](#) on this feature).

☐ All Samples

<input type="checkbox"/> Argentina	<input type="checkbox"/> <a href="#">2001</a>	<input type="checkbox"/> <a href="#">1991</a> ⓘ	<input type="checkbox"/> <a href="#">1980</a>	<input type="checkbox"/> <a href="#">1970</a>	
<input type="checkbox"/> Armenia	<input type="checkbox"/> <a href="#">2001</a>				
<input type="checkbox"/> Austria	<input type="checkbox"/> <a href="#">2001</a>	<input type="checkbox"/> <a href="#">1991</a>	<input type="checkbox"/> <a href="#">1981</a>	<input type="checkbox"/> <a href="#">1971</a>	
<input type="checkbox"/> Belarus	<input type="checkbox"/> <a href="#">1999</a>				
<input type="checkbox"/> Bolivia	<input type="checkbox"/> <a href="#">2001</a>	<input type="checkbox"/> <a href="#">1992</a>	<input type="checkbox"/> <a href="#">1976</a>		
<input type="checkbox"/> Brazil	<input type="checkbox"/> <a href="#">2000</a>	<input type="checkbox"/> <a href="#">1991</a>	<input type="checkbox"/> <a href="#">1980</a>	<input type="checkbox"/> <a href="#">1970</a>	<input type="checkbox"/> <a href="#">1960</a> ⓘ
<input type="checkbox"/> Cambodia	<input type="checkbox"/> <a href="#">2008</a>	<input type="checkbox"/> <a href="#">1998</a>			
<input type="checkbox"/> Canada	<input type="checkbox"/> <a href="#">2001</a> ⓘ	<input type="checkbox"/> <a href="#">1991</a> ⓘ	<input type="checkbox"/> <a href="#">1981</a> ⓘ	<input type="checkbox"/> <a href="#">1971</a> ⓘ	
<input type="checkbox"/> Chile	<input type="checkbox"/> <a href="#">2002</a>	<input type="checkbox"/> <a href="#">1992</a>	<input type="checkbox"/> <a href="#">1982</a>	<input type="checkbox"/> <a href="#">1970</a>	<input type="checkbox"/> <a href="#">1960</a> ⓘ
<input type="checkbox"/> China	<input type="checkbox"/> <a href="#">1990</a>	<input type="checkbox"/> <a href="#">1990</a>			
<input type="checkbox"/> Colombia	<input type="checkbox"/> <a href="#">2005</a>	<input type="checkbox"/> <a href="#">1990</a>			
<input type="checkbox"/> Costa Rica	<input type="checkbox"/> <a href="#">2000</a>	<input type="checkbox"/> <a href="#">1990</a>			
<input type="checkbox"/> Cuba	<input type="checkbox"/> <a href="#">2002</a>				
<input type="checkbox"/> Ecuador	<input type="checkbox"/> <a href="#">2001</a>	<input type="checkbox"/> <a href="#">1990</a>			

**To select a sample, click any box**  
**Click as many boxes as you wish**  
**Metadata are customized to your selections**

<input type="checkbox"/> Panama	<input type="checkbox"/> 2000	<input type="checkbox"/> 1990	<input type="checkbox"/> 1980	<input type="checkbox"/> 1970	<input type="checkbox"/> 1960
<input type="checkbox"/> Peru	<input type="checkbox"/> 2007	<input type="checkbox"/> 1993			
<input type="checkbox"/> Philippines	<input type="checkbox"/> 2000	<input type="checkbox"/> 1995	<input type="checkbox"/> 1990		
<input type="checkbox"/> Portugal	<input type="checkbox"/> 2001	<input type="checkbox"/> 1991	<input type="checkbox"/> 1981		
<input checked="" type="checkbox"/> Puerto Rico	<input checked="" type="checkbox"/> 2005	<input checked="" type="checkbox"/> 2000	<input checked="" type="checkbox"/> 1990	<input checked="" type="checkbox"/> 1980	<input checked="" type="checkbox"/> 1970
<input type="checkbox"/> Romania	<input type="checkbox"/> 2002	<input type="checkbox"/> 1992	<input type="checkbox"/> 1977 		
<input type="checkbox"/> Rwanda	<input type="checkbox"/> 2002	<input type="checkbox"/> 1991			
<input type="checkbox"/> Saint Lucia	<input type="checkbox"/> 1991	<input type="checkbox"/> 1980			
<input type="checkbox"/> Senegal	<input type="checkbox"/> 2002	<input type="checkbox"/> 1988			
<input type="checkbox"/> Sierra Leone	<input type="checkbox"/> 2004				
<input type="checkbox"/> Slovenia	<input type="checkbox"/> 2002 				
<input type="checkbox"/> South Africa	<input type="checkbox"/> 2007	<input type="checkbox"/> 2001	<input type="checkbox"/> 1996 		
<input type="checkbox"/> Spain	<input type="checkbox"/> 2001	<input type="checkbox"/> 1991	<input type="checkbox"/> 1981 		
<input type="checkbox"/> Sudan	<input type="checkbox"/> 2008 				
<input type="checkbox"/> Switzerland	<input type="checkbox"/> 2000	<input type="checkbox"/> 1990	<input type="checkbox"/> 1980	<input type="checkbox"/> 1970	
<input type="checkbox"/> Tanzania	<input type="checkbox"/> 2002	<input type="checkbox"/> 1988			
<input type="checkbox"/> Thailand	<input type="checkbox"/> 2000	<input type="checkbox"/> 1990	<input type="checkbox"/> 1980	<input type="checkbox"/> 1970	
<input type="checkbox"/> Turkey	<input type="checkbox"/> 2000	<input type="checkbox"/> 1990	<input type="checkbox"/> 1985		
<input type="checkbox"/> Uganda	<input type="checkbox"/> 2002	<input type="checkbox"/> 1991			
<input type="checkbox"/> United Kingdom	<input type="checkbox"/> 2001 	<input type="checkbox"/> 1991 			
<input type="checkbox"/> United States	<input checked="" type="checkbox"/> 2005	<input checked="" type="checkbox"/> 2000	<input checked="" type="checkbox"/> 1990	<input checked="" type="checkbox"/> 1980	<input checked="" type="checkbox"/> 1970
<input type="checkbox"/> Uruguay	<input type="checkbox"/> 2006 	<input type="checkbox"/> 1996	<input type="checkbox"/> 1985	<input type="checkbox"/> 1975	<input type="checkbox"/> 1963
<input type="checkbox"/> Venezuela	<input type="checkbox"/> 2001	<input type="checkbox"/> 1990	<input type="checkbox"/> 1981	<input type="checkbox"/> 1971	
<input type="checkbox"/> Vietn					

**Scroll & click to select PR samples  
...and USA  
Click "1960" box to de-select**

**Remember to click  
"Submit sample selections"**

Submit sample selections

**Note “Data Cart”  
10 samples selected**

[Home](#)[Select Data](#)[FAQ](#)[Contact Us](#)[Login](#)**Data Cart**

Your data extract

0 variables  
10 samples[VIEW CART](#)**Select Variables**[Change  
Samples](#)

- ☒ Integrated variables  
☐ Unharmonized variables

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**To view metadata for a set of variable,  
point, slide, and click**

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Technical

Constructed Family  
Interrelationship

Demographic

Fertility and Mortality

Nativity and Birthplace

Ethnicity and Language

**Education**

Work

Income

Migration

Disability

<https://international.ipums.org/international-action/variables/group/educ>



# IPUMS International

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10 samples[VIEW CART](#) →**Select Variables**

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Person ▾

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[Search](#)[Change Samples](#)☒ Integrated variables☐ Unharmonized variables[Help](#)[Options](#)[Country abbreviations](#)**Education Variables -- PERSON** [\[top\]](#)

<a href="#">Add to cart</a>	Variable	Variable Label	Type	Codes	PR 70	PR 80	PR 90	PR 00	PR 05	US 70	US 80	US 90	US 00	US 05
	<a href="#">SCHOOL</a>	School attendance	P	<a href="#">codes</a>	X	X	X	X	X	X	X	X	X	X
	<a href="#">LIT</a>	Literacy	P	<a href="#">codes</a>	X	X	X	.	.	.	.	.	.	.
	<a href="#">EDATTAN</a>	Educational attainment, international recode	P	<a href="#">codes</a>	X	X	X	X	X	X	X	X	X	X
	<a href="#">YRSCHL</a>	Years of schooling	P	<a href="#">codes</a>	X	X	.	.	.	X	X	.	.	.
	<a href="#">EDUCPR</a>	Educational attainment, Puerto Rico	P	<a href="#">codes</a>	X	X	X	X	X	.	.	.	.	.
	<a href="#">EDUCUS</a>	Educational attainment, United States	P	<a href="#">codes</a>	.	.	.	.	.	X	X	X	X	X

Click a variable name to view metadata  
 Click "codes" to view codes & more  
 Click the gold to select a variable



## EDATTAN

Educational attainment, international recode

Group: [Education](#) — [PERSON](#)[Add to cart](#)[Change samples](#)[Description](#)[Comparability](#)[Universe](#)[Codes](#)[Availability](#)[Questionnaire Text](#)[Source Variables](#)

### Description

EDATTAN records the person's educational attainment in terms of the level of schooling completed (degree or other milestone). The emphasis on level **completed** is critical: a person attending the final year of secondary education receives the code for having completed lower secondary only -- and in some samples only primary.

EDATTAN does not necessarily reflect any particular country's definition of the various levels of schooling in terms of terminology or the number of years of schooling. EDATTAN is an attempt to merge -- into a single, roughly comparable variable -- samples that provide degrees, ones that provide actual years of schooling, and those that have some of both. In addition to EDATTAN, a country-specific education classification is provided which loses no information and reflects the particular educational system of that country (for example [EDUCBR](#), [EDUCCL](#), and [EDUCUS](#)).

Many samples also give single years of schooling completed, recorded in [YRSCHL](#). Some samples provide educational information in a form that could not be incorporated into

**Metadata**  
**Click a tab for:**  
**Description**  
**Comparability**  
**Universe**  
**Codes**  
**Availability**  
**Questionnaire**  
**Source variables**



Click the “Add to cart” at any time to add the selected variable (EDATTAN) to the cart

Data Cart

Your data extract

0 variables  
10 samples

VIEW CART

## EDATTAN

Educational attainment, international recode

Group: [Education — PERSON](#)

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## Comparability — Index

[GENERAL](#)[Puerto Rico](#)[United States](#)

## Comparability — General

The first digit of EDATTAN -- denoting less than primary, primary, secondary, or tertiary education -- is largely comparable across countries. The second and third digits retain details such as differing years of primary schooling, technical versus general study tracks, and different types of degrees earned.

To create a consistent standard across countries, we applied the United Nations standard of six years of primary schooling, three years of lower secondary schooling, and three years of higher secondary schooling. It was not possible to sustain these distinctions consistently across all samples because of differing national educational systems. The second and third digits of EDATTAN account for most such differences.

For samples in which only individual years of study were reported, we grouped those years according to the 6-3-3 classification. Where individual years of study were not

Comparability  
(scroll for more)

General

Country specific  
Puerto Rico  
USA

**Questionnaire Text**[Puerto Rico 1970](#)[Puerto Rico 1980](#)[Puerto Rico 1990](#)[Puerto Rico 2000](#)[Puerto Rico 2005](#)[United States 1970](#)[United States 1980](#)[United States 1990](#)[United States 2000](#)[United States 2005](#)**United States 1970 — source variable [US70A441](#) — Highest grade of schooling****Questionnaire form**[view entire document](#)

[All]

**21. What is the highest grade (or year) of regular school he has ever attended?**

Fill one circle. If now attending, mark grade he is in.

☐ Never attended school - Skip to 23☐ Nursery school☐ Kindergarten

Elementary through high school (grade or year)

☐ 1**Questionnaire Text:**

**Click any one to jump directly to text for a specific sample**

**Wording and categories as they appear on the form in English (translated if necessary)**

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0 variables

10 s

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AN

ttainment, international recode

[tion](#) — [PERSON](#)[Comparability](#)[Universe](#)[Codes](#)[Availability](#)[Questionnaire Text](#)[Source Variables](#)**Source Variables**Some [unharmonized variables](#) may not be available.[Add to  
cart](#)

Variable

Variable Label

[Type](#)

Codes

Sample

[PR70A\\_HIGRADE](#)

Highest grade of schooling

P

[codes](#)

Puerto Rico 1970

[PR80A\\_HIGRADE](#)

Highest grade of schooling

P

[codes](#)

Puerto Rico 1980

[PR90A\\_EDUC99](#)

Educational attainment

P

[codes](#)

Puerto Rico 1990

[PR00A\\_EDUC99](#)

Educational attainment

P

[codes](#)

Puerto Rico 2000

[PR05A\\_EDUC99](#)

Educational attainment

P

[codes](#)

Puerto Rico 2005

[US70A\\_HIGRADE](#)

Highest grade of schooling

P

[codes](#)

United States 1970

[US80A\\_HIGRADE](#)

Highest grade of schooling

P

[codes](#)

United States 1980

[US90A\\_EDUC99](#)

Educational attainment, 1990

P

[codes](#)

United States 1990

[US00A\\_EDUC99](#)

Educational attainment

P

[codes](#)

United States 2000

[US05A\\_EDUC99](#)

Educational attainment, 1990 system

**Caution!!!****Power-users only,  
please!****Source variables****See the original  
definitions &  
codes of the  
source variables  
used to create  
integrated  
variables.****Add a source  
variable to the  
data cart to  
deconstruct an  
integrated var.**



# IPUMS International

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[Change Samples](#)

- ☒ Integrated variables  
☐ Unharmonized variables

[Help](#)[Options](#)[Country abbreviations](#)**Education Variables -- PERSON** [\[top\]](#)[Add to cart](#)

Variable

Variable Label

[Type](#)

Codes

PR PR PR PR PR US US US US US  
70 80 90 00 05 70 80 90 00 05[SCHOOL](#)

School attendance

P

[codes](#)

X X X X X X X X X X

[LIT](#)

Literacy

P

[codes](#)

X X X . . . . .

☒ [EDATTAN](#)

Educational attainment, international recode

P

[codes](#)

X X X X X X X X X X

[YRSCHL](#)

Years of schooling

P

[codes](#)

X X . . . X X . . .

[EDUCPR](#)

Educational attainment, Puerto Rico

P

[codes](#)

X X X X X . . . . .

[EDUCUS](#)

Educational attainment, United States

P

[codes](#)

. . . . . X X X X X

**Click the gold button to select/unselect a variable.**

**Note the Data Cart variable counter**

Microdata:

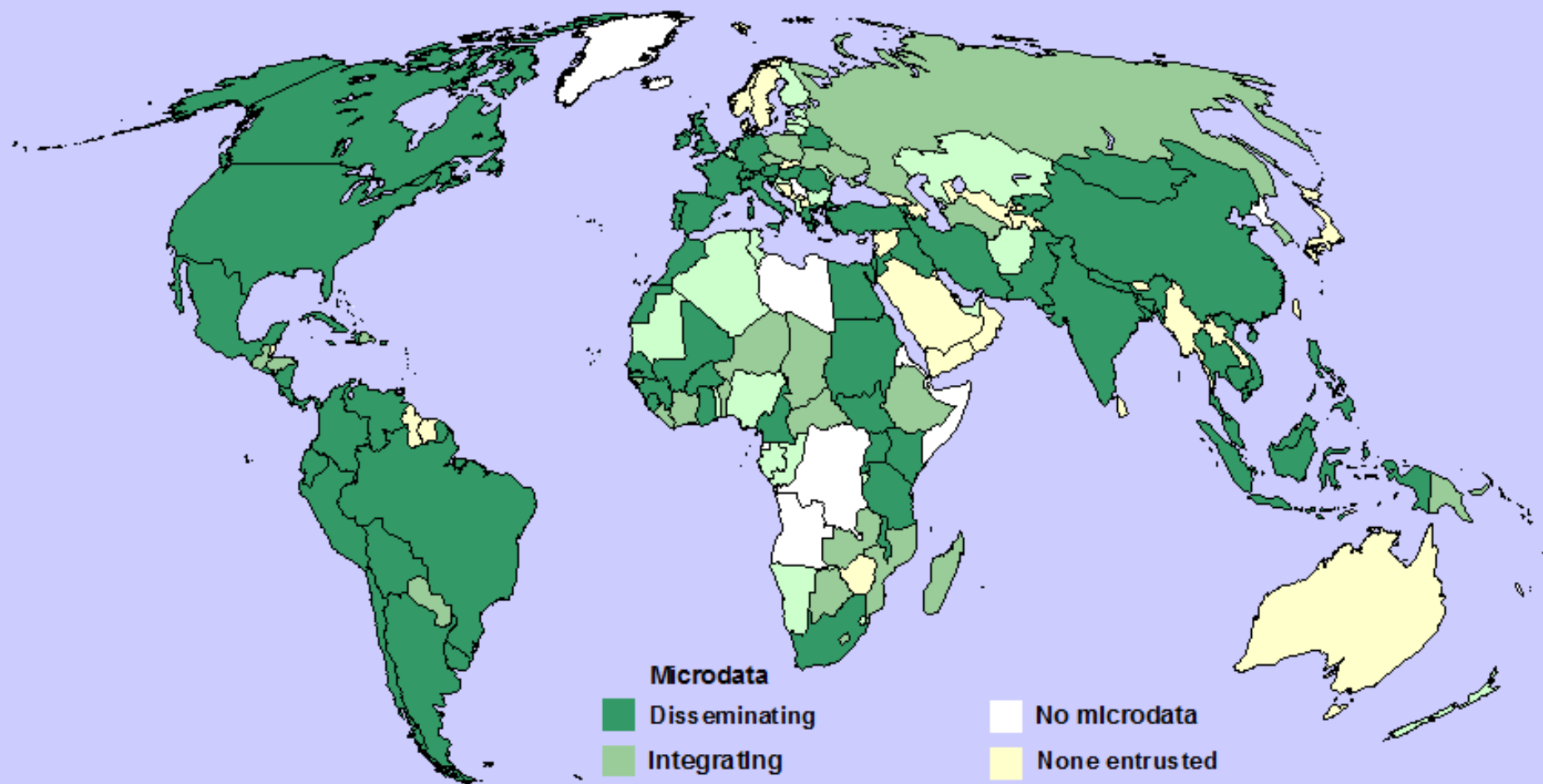
# IPUMS-INTERNATIONAL



# IPUMS-International

- World's largest collection of publicly available individual-level census data (i.e., "microdata")
- Samples from 1960-present
- More than 100 countries are participating; samples available for 74
- 5-6 new countries added each year
- Top priority: integrate 2010 round samples

# IPUMS-International: June 2013



**Integrated: 74 countries 238 censuses**

**540 million persons**

**1960-2011**

# Microdata Available from IPUMS-International

## Africa

Egypt  
Ghana  
Guinea  
Kenya  
Malawi  
Mali  
Morocco  
Rwanda  
Senegal  
Sierra Leone  
South Africa  
Sudan  
Tanzania  
Uganda  
2013  
Burkina Faso  
Cameroon  
2014  
Ethiopia  
Mozambique  
& others

## Asia

Armenia  
Cambodia  
China  
India  
Indonesia  
Iran  
Iraq  
Israel  
Jordan  
Kyrgyz Republic  
Malaysia  
Mongolia  
Nepal  
Palestine  
Pakistan  
Philippines  
Thailand  
Vietnam  
2013  
Bangladesh  
Fiji Islands

## Americas

Argentina  
Bolivia  
Brazil  
Canada  
Chile  
Colombia  
Costa Rica  
Cuba  
Ecuador  
El Salvador  
Jamaica  
Mexico  
Nicaragua  
Panama  
Peru  
Puerto Rico  
Saint Lucia  
United States  
Uruguay  
Venezuela  
2013, 14  
Haiti, Dominican Rep.

## Europe

Austria  
Belarus  
France  
Germany  
Greece  
Hungary  
Ireland  
Italy  
Netherlands  
Portugal  
Romania  
Slovenia  
Spain  
Switzerland  
Turkey  
United Kingdom  
2014  
Ukraine  
Czech Republic?  
Poland?  
Russia?

# June 2013 Release: 11 countries

## New countries:

- Bangladesh, 1991-2011
- Burkina Faso, 1986-2006
- Cameroon, 1976-2005
- Fiji, 1966-2007
- Haiti, 1971-2003
- Kenya, 1969-2009

## New 2010 round sample:

- Argentina 2010
- Brazil 2010
- Ecuador 2010
- Kyrgyzstan 2009
- Panama 2010
- **June 2014:**  
**Puerto Rico 2010**



# Puerto Rico in IPUMS-International: Sample Descriptions

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PROJECT	Sample design <a href="#">[top]</a>	Fraction (%)	Households	Persons	Weighted	De jure De facto	Census date (d-m-yr)	Smallest geography	Collective dwellings
About IPUMS	<a href="#">Portugal 1981</a>	5	179,409	492,289	no	de jure	16-03-81	NUTS3 region*	yes
How to Cite	<a href="#">Portugal 1991</a>	5	214,155	491,755	no	de jure	15-04-91	NUTS3 region*	yes
User Registr	<a href="#">Portugal 2001</a>	5	258,843	517,026	no	de jure	12-03-01	NUTS3 region*	yes
	<a href="#">Puerto Rico 1970</a>	1	7,460	27,212	no	de jure	01-04-70	250,000+ pop*	yes
<b>DATA</b>	<a href="#">Puerto Rico 1980</a>	5	50,847	160,219	no	de jure	01-04-80	100,000+ pop*	yes
Browse and	<a href="#">Puerto Rico 1990</a>	5	61,698	177,655	yes	de jure	01-04-90	100,000+ pop*	yes
Download Y	<a href="#">Puerto Rico 2000</a>	5	73,259	189,828	yes	de jure	01-04-00	100,000+ pop*	yes
GIS and Oth	<a href="#">Puerto Rico 2005</a>	1	14,407	35,416	yes	de jure	01-07-05	100,000+ pop*	yes
Analyze Dat	<a href="#">Romania 1977</a>	10	619,904	1,937,021	no	de jure	05-01-77	county	no
<b>SAMPLES</b>	<a href="#">Romania 1992</a>	10	728,846	2,238,578	no	de jure	07-01-92	county	no
Sample Des	<a href="#">Romania 2002</a>	10	732,016	2,137,967	no	de jure	18-03-02	county	no
Variance Es	<a href="#">Rwanda 1991</a>	10	153,041	742,918	no	both	01-08-91	province	yes
Source Docu	<a href="#">Rwanda 2002</a>	10	191,719	843,392	no	both	15/16-08-02	province	yes
	<a href="#">Saint Lucia 1980</a>	10	2,674	11,451	no	de jure	12-05-1980	n.a.	no
<b>RESOURCES</b>	<a href="#">Saint Lucia 1991</a>	10	3,394	13,382	no	de jure	12-05-1991	n.a.	no
Bibliography	<a href="#">Senegal 1988</a>	10	79,904	700,199	no	both	20-05-88	department	no
Internationa	<a href="#">Senegal 2002</a>	10	107,999	994,562	no	both	N/A	department	no
Teaching wi	<a href="#">Sierra Leone 2004</a>	10	82,518	494,298	no	de facto	04-12-04	chiefdom	yes
	<a href="#">Slovenia 2002</a>	10	63,637	179,632	no	de jure	31-03-02	region	no
	<a href="#">South Africa 1996</a>	10	993,801	3,621,164	yes	de facto	10-10-96	district	yes
	<a href="#">South Africa 2001</a>	10	991,543	3,725,655	yes	de facto	10-10-01	municipality	yes
	<a href="#">South Africa 2007</a>	2	345,170	1,047,657	yes	both	07-02-07	municipality	yes

### Select Variables

Change  
Samples

☒ Integrated variables

☐ Unharmonized variables

[Help](#)

[Options](#)

Country abbreviations

## Puerto Rico Metadata in IPUMS-International: Variables

Variable	Variable Label	Type	Codes	puerto 1970	puerto 1980	puerto 1990	puerto 2000	puerto 2005
<a href="#">RELATE</a>	Relationship to household head	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">AGE</a>	Age	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">SEX</a>	Sex	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">MARST</a>	Marital status	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">CONSENS</a>	Consensual union	P	<a href="#">codes</a>	X	X	X	.	.
<a href="#">CHBORN</a>	Children ever born	P	<a href="#">codes</a>	X	X	X	.	.
<a href="#">NATIVTY</a>	Nativity status	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">BPLCTRY</a>	Country of birth	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">CITIZEN</a>	Citizenship	P	<a href="#">codes</a>	.	X	X	X	X
<a href="#">YRIMM2</a>	Year of immigration, categorized	P	<a href="#">codes</a>	.	X	X	.	.
<a href="#">RACE</a>	Race or color	P	<a href="#">codes</a>	.	.	.	X	X
<a href="#">ANCEST</a>	Ancestry, U.S. and Puerto Rico	P	<a href="#">codes</a>	.	.	.	X	X
<a href="#">HISPAN</a>	Hispanic origin, U.S. and Puerto Rico	P	<a href="#">codes</a>	.	.	.	X	X
<a href="#">SPKENG</a>	Speaks English	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">LANGPR</a>	Language spoken at home, Puerto Rico	P	<a href="#">codes</a>	.	.	.	X	X
<a href="#">LANGUS</a>	Language spoken at home, United States	P	<a href="#">codes</a>	.	.	.	X	X
<a href="#">SCHOOL</a>	School attendance	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">LIT</a>	Literacy	P	<a href="#">codes</a>	X	X	X	.	.
<a href="#">EDATTAN</a>	Educational attainment, international recode	P	<a href="#">codes</a>	X	X	X	X	X
<a href="#">YRSCHI</a>	Years of schooling	P	<a href="#">codes</a>	X	X	.	.	.



# IPUMS-International Variables: Topics

- Basic demographics
- Marriage
- Family structure
- Fertility and mortality
- Migration
- Ethnicity, language, religion
- Education
- Work
- Income
- Housing characteristics
- Amenities
- “Pointer” (spouse, mother, father) & technical

**600**  
**Integrated**  
**variables**

**19,000**  
**Source variables**



# IPUMS-I Registration

- Registration for all IPUMS Projects is required
- IPUMS-I application must be approved before accessing microdata (metadata open to all)
  - Read user agreement carefully
  - Restricted to qualified users
  - Requires research statement
  - Agree to respect confidentiality
  - Renew annually

# User Registration (required to access microdata even on-line)

The screenshot shows the IPUMS International website. The header includes the IPUMS International logo and a navigation bar with links: Home, Select Data, FAQ, Contact, and Login. A left sidebar contains a menu with sections: PROJECT, DATA, SAMPLES, and RESOURCES. The 'PROJECT' section is expanded, showing links: About IPUMS-I, How to Cite IPUMS-I, and User Registration and Login. The 'User Registration and Login' link is circled in red. A red callout box points to this link and contains the following text:

**Click here to register.**  
**It takes 15 minutes to register, but you get access to the world's largest census database.**  
**After that, it's free.**  
**Don't whine about the "long form".**  
**More than 100 countries have agreed...**  
**Users: Give us a break on the form**  
**The re-design will be friendlier.**  
**But it's still going to take 15 minutes.**

The right sidebar shows 'IPUMSI News' with a link to 'NEW! Online tabulator'. The footer includes the MPC MINNESOTA POPULATION CENTER logo and the UNIVERSITY OF MINNESOTA text.

PROJECT
About IPUMS-I
How to Cite IPUMS-I
User Registration and Login

DATA
Browse and Select Data
Download Your Data Extract
GIS and Other Data Files
Analyze Data Online

SAMPLES
Sample Descriptions
Variance Estimation
Source Documents

RESOURCES
Bibliography
International Partners
Teaching with IPUMS

IPUMS International

Home | Select Data | FAQ | Contact | Login

Integrated Public Use Microdata Series,  
International

IPUMSI News

NEW! Online tabulator

IPUMS census

MPC MINNESOTA POPULATION CENTER

UNIVERSITY OF MINNESOTA

# Click: Apply for access

MINNESOTA POPULATION CENTER, UNIVERSITY OF MINNESOTA

# IPUMS International

Home Select Data FAQ Contact Us Login

Data Cart  
Your data extract

0 variables  
0 files

## IPUMS-International Registration

- [Login](#)
- [Apply for access](#)
- [View application form](#) (without applying)
- [Reset password](#) (forget password)

First,  
if you wish,  
view application form

**Note:** IPUMS-I census microdata are *restricted access*, not public  
100+ countries: *one set of rules* for protecting the microdata

- Access is free of cost
- Each user must apply for access
- Each user is responsible for protecting statistical confidentiality  
Imagine opening a bank account...

**Completing the form will take a few minutes!**

# IPUMS-I Classroom Accounts

- Streamlines the registration process for classes using IPUMS-I
- Allows instructors to share data extracts with students
- Helps students learn responsible research conduct
- Information on classroom account registration available on website



# IPUMS-I Classroom Accounts

[Home](#)[Select Data](#)[FAQ](#)[Contact](#)[Login](#)[PROJECT](#)[About IPUMS-I](#)  
[How to Cite IPUMS-I](#)  
[User Registration and Login](#)[DATA](#)[Browse and Select Data](#)  
[Download Your Data Extract](#)  
[and Other Data Files](#)  
[Analyze Data Online](#)

## Teaching with IPUMS

[Classroom accounts](#). Registered IPUMS users can create classroom accounts that allow them to share data extracts with students through our website. Student registration is also streamlined.

**Syllabi and class exercises.** We are in the process of collecting teaching materials that use IPUMS data, which we will post on our site. If you have such materials and are willing to share them, please contact us at [ipums@umn.edu](mailto:ipums@umn.edu).

Microdata:

**IPUMS-USA**

# IPUMS-USA

- Database includes public use microdata samples:
  - U.S. decennial censuses (1850-2000)
  - Complete-count dataset for 1880
  - Puerto Rican Samples (1910-2011)
  - American Community Survey (2000-2011)
- The first IPUMS data project
- Most widely used database ~ 30,000 users



# The American/Puerto Rican Community Survey

- Replaced the long form of the Decennial Census
- Rolling sample design
- Public use microdata samples

Microdata samples:

- Full survey responses for 1% of population
- Yearly samples

# PRCS Form

13173018



U.S. DEPARTMENT OF COMMERCE  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

## THE Puerto Rico Community Survey

This booklet shows the  
content of the  
Puerto Rico Community Survey  
questionnaire.

**Please complete this form and return  
it as soon as possible after receiving  
it in the mail.**

This form asks for information about  
the people who are living or staying at  
the address on the mailing label and  
about the house, apartment, or mobile  
home located at the address on the  
mailing label.



If you need help or have questions  
about completing this form, please call  
1-800-717-7381. The telephone call is free.

### Start Here

➔ Please print today's date.

Month Day Year

➔ Please print the name and telephone number of the person who is  
filling out this form. We may contact you if there is a question.

Last Name

First Name

MI

Area Code + Number

 - 

➔ How many people are living or staying at this address?

- **INCLUDE** everyone who is living or staying here for more than 2 months.
- **INCLUDE** yourself if you are living here for more than 2 months.
- **INCLUDE** anyone else staying here who does not have another place to stay, even if they are here for 2 months or less.

# Puerto Rican Samples

- 1910 12% sample
- 1920 12% sample
- 1970, 5%, 1%, 1% samples
- 1980, 5%, 1% samples
- 1990, 5%, 1% samples
- 2000, 5%, 1% samples
- 2005-2011, 1% PRCS Samples

# Census and ACS Variable Topics

- Basic demographic
- Marriage
- Family structure
- Fertility
- Ethnicity
- Disability
- Education
- Work
- Income
- Migration
- Housing Characteristics

# Geography Limitations

- No confidentiality restrictions for samples prior to 1950 – no geographic limitation
- Recent samples:
  - State
  - Most Metropolitan Areas
  - County Groups
  - Some Counties (Municipios)
  - Public Use Microdata Areas (PUMAs)

# What are PUMAs?

- Public Use Microdata Areas (PUMAs)
- Comprised of approximately 100,000 persons
- Boundaries do not always align with jurisdictional boundaries
- Detailed contents and maps available
- GIS shape files for PUMAs available



# PR data over time

- 1910-2011 → Changes in census questions and response options
- Variables available vary by sample
- Variables with a lot of change include:
  - Race
  - Occupation
- Years close together are more similar, especially ACS

Obtaining Data:

# **EXTRACTION SYSTEM**

## **--BROWSE & SELECT DATA**

# Extract System

- Users create custom data files
  - Pick any samples of interest
  - Pick any variables of interest
- Creates custom into SPSS, Stata, SAS and CSV data files
  - Variables and values labeled within the data
- Record of extract is preserved on user account
- DDI codebook provided

# Extract System

- Additional Features:
  - Case Selection
  - Attach Variables
  - Custom Sample Size
- Learn one data set, learn them all
  - Documentation systems
  - Extract systems
  - Data files produced

# IPUMS

International

[Home](#) | [Select Data](#) | [FAQ](#) | [Contact](#) | [Login](#)

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Teaching with IPUMS

## Integrated Public Use Microdata Series, International

census microdata for social and economic research

IPUMS-International is a project dedicated to collecting and distributing census data from around the world. Its goals are to:

- Collect and preserve data and documentation
- Harmonize data
- Disseminate the data absolutely free!

68 countries - 211 censuses - 480 million person records

## IPUMSI News

NEW! Online tabulator  
NEW! Class accounts  
June 2012 data release  
2011 award winners  
Terra Populus funded  
... All news items

## MPC Data Projects

[IPUMS-USA and others](#)



### Sign up

to receive News  
of interest to  
IPUMS-International data  
users and producers.



# https://international.ipums.org

**IPUMS** International

[Home](#) [Select Data](#) [FAQ](#) [Contact Us](#) [Login](#)

**Data Cart**  
Your data extract  
0 variables  
0 samples

Select Variables

Household▼

Person▼


A-Z▼

Search

Select Samples

☒ Integrated variables  
☐ Unharmonized variables

[Help](#)  
[Options](#)  
[Country abbreviations](#)



Start here.



# https://usa.ipums.org/

The screenshot shows the IPUMS USA website. At the top is a navigation bar with the IPUMS USA logo and links for Home, Select Data, FAQ, Contact Us, and Login. On the right is a 'Data Cart' box showing '0 variables' and '13 samples' with a 'VIEW CART' button. Below the navigation bar is a 'Select Variables' section with dropdown menus for 'Household' and 'Person', an 'A-Z' dropdown, and a 'Search' button. To the right of this is a 'Change Samples' button and links for 'Help' and 'Options'. Below the 'Select Variables' section is a diagram with two arrows pointing up to the 'Household' and 'Person' dropdowns, with the text 'Start here.' below it.

**IPUMS USA**

Home Select Data FAQ Contact Us Login

**Data Cart**  
Your data extract  
0 variables  
13 samples  
**VIEW CART** →

**Select Variables**

Household▼ Person▼ A-Z▼ Search

Change Samples

[Help](#)  
[Options](#)

Start here.

Obtaining Data:

**ANALYZE DATA ONLINE**

# Analyze Data Online

- High-speed tabulation software developed at UC-Berkeley
- Allows for analysis of microdata without statistical package
- All analysis performed online
- Can analyze multiple years of data

# IPUMS

International

[Home](#) | [Select Data](#) | [FAQ](#) | [Contact](#) | [Login](#)

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Terra Populus funded  
... All news items

## MPC Data Projects

[IPUMS-USA and others](#)



**Sign up**  
to receive News  
of interest to  
IPUMS-International data  
users and producers.



# www.usa.ipums.org/usa/sda/

SDA [\[Use classic interface\]](#)

Selected Study: **Puerto Rico 1910-2011**

Analysis

Create Variables

Download

Codebook

Getting Started

Variable Selection: [Help](#)

Selected:

Copy to:

Mode: ☐ Append ☒ Replace

- Puerto Rico 1910-2011
  - Household - Technical
  - Household - Geographic
  - Household - Group Quarters
  - Household - Economic Characteristic
  - Household - Dwelling Characteristic
  - Household - Appliances, Mechanical, Other
  - Household - Constructed Household
  - Household - Historical Technical
  - Household - Housing Data Quality Flags
  - Person - Technical
  - Person - Family Interrelationship
  - Person - Demographic
  - Person - Race, Ethnicity, and Nativity
  - Person - Health Insurance
  - Person - Education
  - Person - Work
  - Person - Income
  - Person - Occupational Standing
  - Person - Migration
  - Person - Activity Five Years Ago
  - Person - Disability
  - Person - Veteran Status
  - Person - Place of Work and Travel Time
  - Person - Historical Technical
  - Person - Other
  - Person - Person Data Quality Flags

SDA Frequencies/Crosstabulation Program

Help: [General](#) / [Recoding Variables](#)

REQUIRED Variable names to specify

Row:

OPTIONAL Variable names to specify

Column:

Control:

Selection Filter(s):  Example: age(18-50)

Weight:

TABLE OPTIONS

[Percentaging:](#)

☒ Column ☐ Row ☐ Total

☐ [Confidence intervals](#) Level:

☐ [Standard error of each percent](#)

[N of cases to display:](#)

☐ Unweighted ☒ Weighted

☐ [Summary statistics](#)

☐ [Question text](#) ☐ [Suppress table](#)

☒ [Color coding](#) ☐ [Show Z-statistic](#)

☐ [Include missing-data values](#)

CHART OPTIONS

[Type of chart:](#)

[Bar chart options:](#)

Orientation: ☒ Vertical ☐ Horizontal

Visual Effects: ☒ 2-D ☐ 3-D

[Show percents:](#) ☐ Yes

[Palette:](#) ☒ Color ☐ Grayscale

[Size](#) - width:  height:

Title:



# Results

Statistical significance: Red=more; Blue = less

Frequency Distribution														
Cells contain: -Row percent -Weighted N		educ												
		0 N/A or no schooling	1 Nursery school to grade 4	2 Grade 5, 6, 7, or 8	3 Grade 9	4 Grade 10	5 Grade 11	6 Grade 12	7 1 year of college	8 2 years of college	9 3 years of college	10 4 years of college	11 5+ years of college	ROW TOTAL
year	1970: 1970	20.2 547,800.0	28.6 773,100.0	22.8 615,900.0	4.6 123,900.0	3.4 91,900.0	3.1 83,200.0	10.0 271,200.0	1.4 37,300.0	2.0 54,700.0	1.0 26,200.0	1.9 51,400.0	1.1 30,200.0	100.0 2,706,800.0
	1980: 1980	15.8 506,200.0	22.7 727,260.0	21.5 689,420.0	5.6 178,220.0	3.9 124,140.0	3.9 124,660.0	14.2 455,940.0	2.3 72,840.0	3.2 102,780.0	1.8 57,280.0	3.4 109,200.0	1.8 56,440.0	100.0 3,204,380.0
	1990: 1990	11.8 417,048.0	18.1 636,222.0	18.9 664,470.0	5.5 192,141.0	3.2 111,333.0	4.0 142,131.0	18.0 634,098.0	8.0 283,173.0	3.9 135,831.0	.0 .0	6.6 231,429.0	2.0 72,024.0	100.0 3,519,900.0
	2000: 2000	11.7 446,460.0	12.1 460,015.0	16.6 631,370.0	5.3 203,632.0	2.9 108,963.0	3.5 131,990.0	22.6 861,541.0	8.5 323,226.0	5.1 195,512.0	.0 .0	8.8 335,169.0	2.9 110,732.0	100.0 3,808,610.0
	2005: 2005	8.9 344,102.0	13.6 525,000.0	14.4 554,544.0	4.9 188,854.0	2.9 111,886.0	3.5 134,979.0	22.2 856,967.0	9.2 353,723.0	6.8 263,194.0	.0 .0	10.5 404,088.0	3.2 125,307.0	100.0 3,862,644.0
	2006: 2006	9.0 354,568.0	13.1 515,791.0	14.6 574,826.0	5.0 197,269.0	2.9 112,207.0	3.4 134,699.0	22.9 900,476.0	9.0 355,213.0	6.1 241,194.0	.0 .0	10.5 414,260.0	3.2 127,273.0	100.0 3,927,776.0
	2007: 2007	8.7 341,522.0	12.7 500,713.0	14.7 577,930.0	5.2 203,202.0	2.8 111,462.0	3.5 138,353.0	23.4 921,821.0	8.7 342,858.0	6.1 241,152.0	.0 .0	10.6 418,543.0	3.7 144,819.0	100.0 3,942,375.0
	2008: 2008	8.2 322,867.0	13.8 544,383.0	13.6 537,715.0	4.8 191,720.0	2.9 116,150.0	3.3 129,818.0	21.9 867,031.0	10.9 431,673.0	6.2 243,202.0	.0 .0	10.8 425,997.0	3.6 143,481.0	100.0 3,954,037.0
	2009: 2009	8.2 325,493.0	12.3 489,505.0	13.5 535,891.0	4.8 188,931.0	2.9 116,561.0	3.4 132,950.0	23.2 919,928.0	10.8 428,991.0	6.0 238,369.0	.0 .0	11.3 446,364.0	3.6 144,305.0	100.0 3,967,288.0
	2010: 2010	7.6 284,518.0	12.3 458,990.0	13.2 490,301.0	4.7 175,010.0	3.1 113,852.0	3.3 121,598.0	23.2 861,742.0	11.0 410,058.0	6.4 239,285.0	.0 .0	11.2 415,068.0	4.1 151,711.0	100.0 3,722,133.0
	2011: 2011	7.7 284,077.0	11.6 430,131.0	12.9 477,729.0	4.5 167,910.0	2.7 98,821.0	3.2 119,757.0	23.7 878,638.0	11.0 408,302.0	6.6 246,476.0	.0 .0	11.7 433,520.0	4.4 161,329.0	100.0 3,706,690.0
	COL TOTAL	10.4 4,174,655.0	15.0 6,061,110.0	15.7 6,350,096.0	5.0 2,010,789.0	3.0 1,217,275.0	3.5 1,394,135.0	20.9 8,429,382.0	8.5 3,447,357.0	5.5 2,201,695.0	.2 83,480.0	9.1 3,685,038.0	3.1 1,267,621.0	100.0 40,322,633.0

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## ▼ IPUMS IN THE NEWS

IPUMS is for "Data Addicts"  
[1940 Census Archives](#)  
[IPUMS and the Civil War](#)  
[NYT Interactive Map](#)

## ▼ IPUMS-USA DATA UPDATES

Updated! 1940 1% data  
New! 2007-2011 ACS/PRCS Data  
2009-2011 ACS/PRCS Data  
SHADAC variables added

## ▼ OTHER MPC PROJECTS

[Linked Representative Samples](#)  
[ATUS-X](#)  
[IPUMS-International](#)  
[IPUMS-CPS](#)  
[NAPP](#)  
[NHGIS](#)  
[IHIS](#)

## Integrated Public Use Microdata Series

census microdata for social and economic research

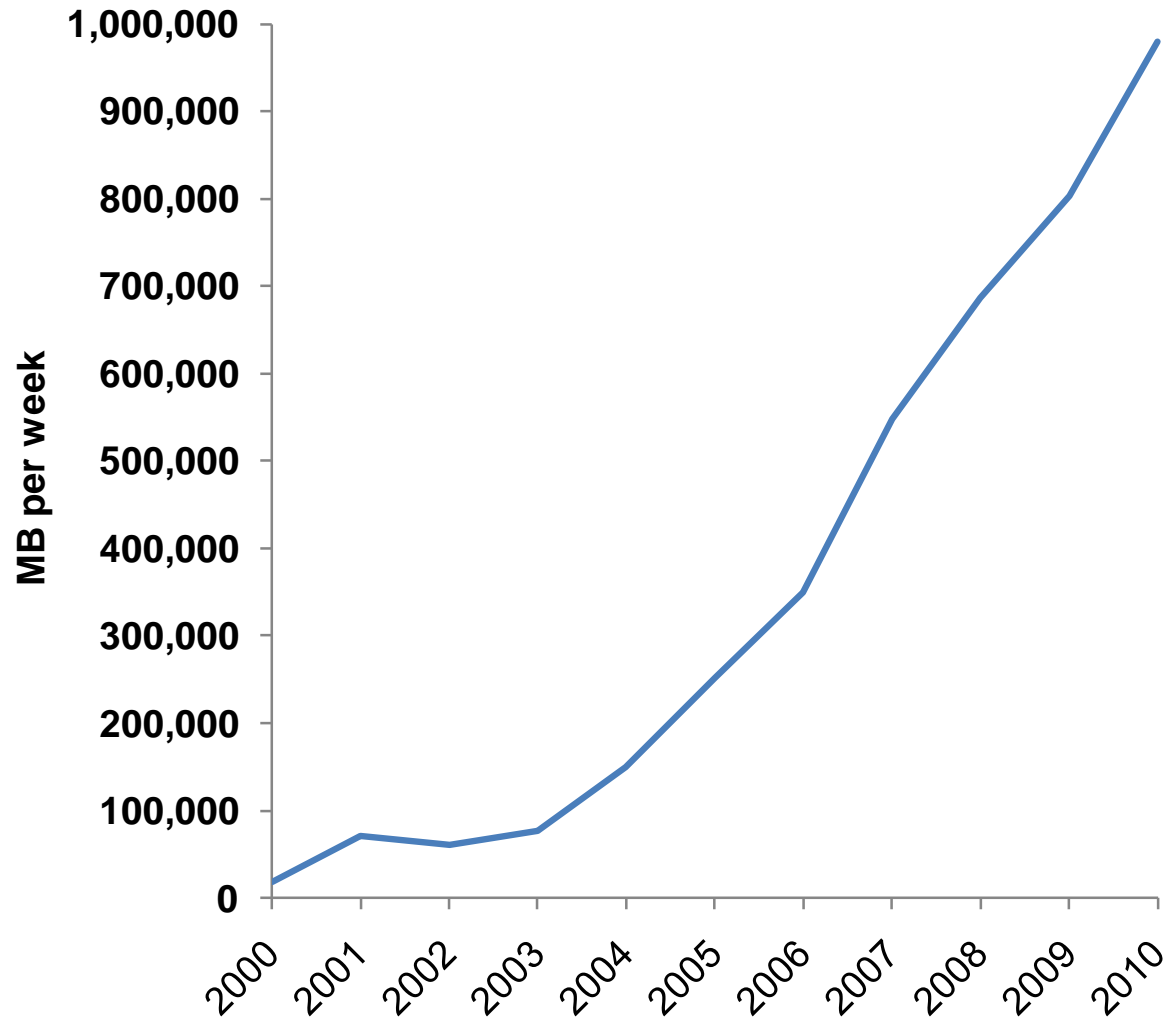
IPUMS-USA is a project dedicated to collecting and distributing  
United States census data. Its goals are to:

- Collect and preserve data and documentation
- Harmonize data
- Disseminate the data absolutely free!

Use it for GOOD -- never for EVIL

Obtaining data:

# MPC Data Dissemination



# User Support – [ipums@umn.edu](mailto:ipums@umn.edu)

- Team of researchers that support users
- Received about 4,000 emails from users last year
- User community support – ask and answer questions
- Support on basic questions to standard error calculations

# IPUMS Data

- Comprehensive online documentation
- Integration makes analyzing change over time possible
- Data analysis system allows you access the data and analyze it online
- All of the data are available for **free** online
- User support is available by e-mail to help you as needed



Conclusion:

**WHERE IN THE WORLD ARE PUERTO RICANS?  
AND WHAT ARE THEY DOING THERE?**

**WHERE IN THE WORLD ARE PUERTO RICANS?**  
**3.7 MILLION ARE IN PUERTO RICO**  
**1.5 MILLION ARE IN THE USA (29% OF TOTAL)**  
**A FEW THOUSANDS ARE ELSEWHERE**

	UN	IPUMS
	<u>2010</u>	2010
<b>WORLD</b>	<b>5,240,504</b>	<b>5,232,736</b>
<b>Puerto Rico</b>	<b>3,749,000</b>	<b>3,722,133</b>
<b>Puerto Ricans living abroad</b>	<b>1,491,504</b>	<b>1,510,603</b>
<b>More developed regions</b>	<b>1,466,840</b>	<b>1,509,973</b>
<b>Less developed regions</b>	<b>24,664</b>	<b>coming soon</b>

**WHAT ARE THEY DOING THERE?**  
**WE INVITE YOU TO EXPLORE IPUMS TO FIND OUT....**

Obtaining data:

**ONLINE DEMO**