

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

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

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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

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MPC Data Projects

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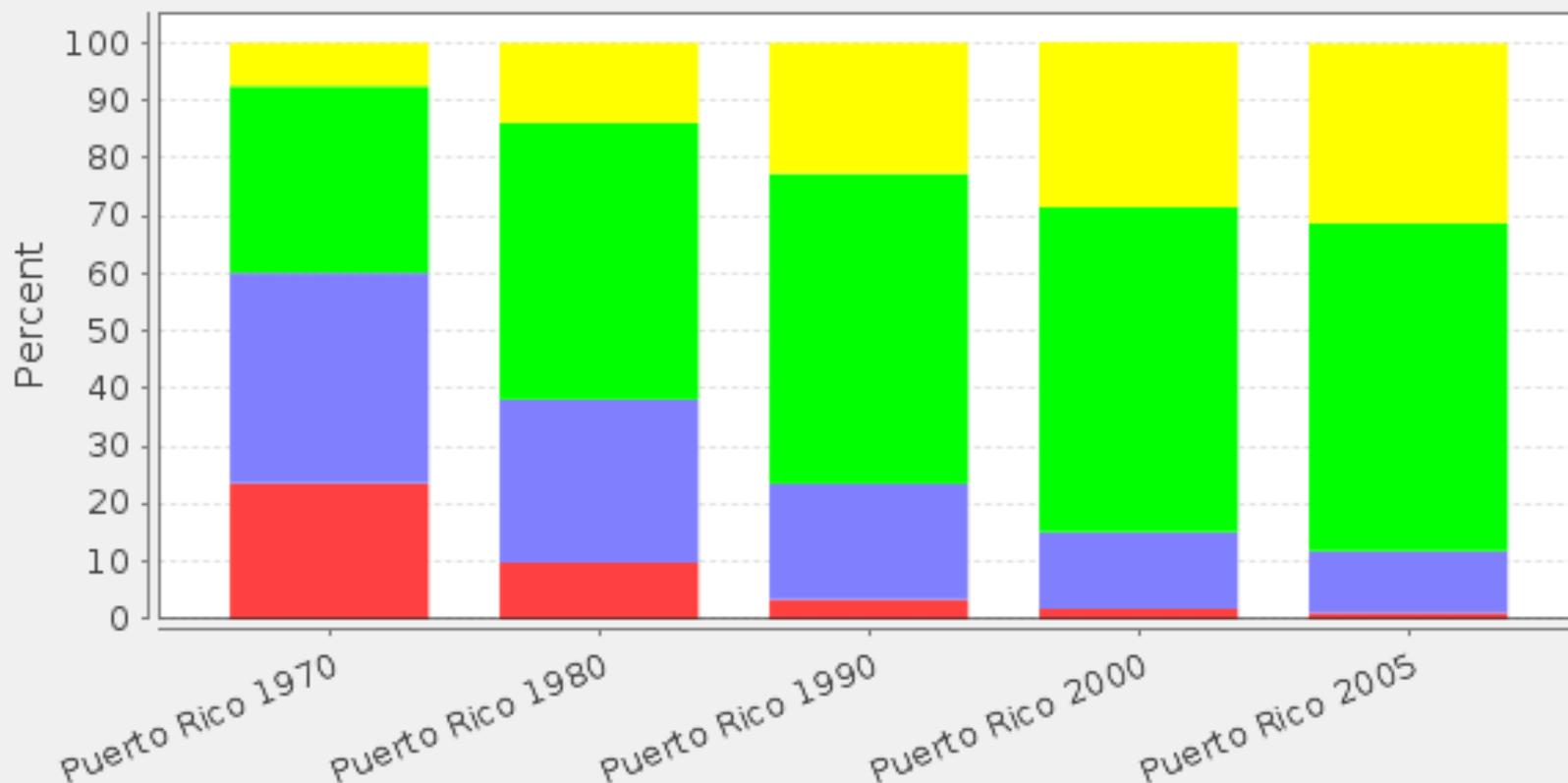


**What can you do with IPUMS?
“Analyze data online”
Puerto Ricans in PR & USA, 1970-2005:
educational attainment by sex
for young adults (25-34 years)
...in 4 seconds comp time**

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

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

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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	2001	1991	1980	1970	
Armenia	2001				
Austria	2001	1991	1981	1971	
Belarus	1999				
Bolivia	2001	1992	1976		
Brazil	2000	1991	1980	1970	1960
Cambodia	2008	1998			
Canada	2001	1991	1981	1971	

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

**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

Household - Constructed Household
Person - Technical
Person - Constructed Family Interrelationship
Person - Demographic
 relate - Relationship to household head
 related - Relationship to household head
 age - Age
 age2 - Age, grouped into intervals
 sex - Sex
 marst - Marital status
 marstd - Marital status
 consens - Consensual union
Person - Fertility and Mortality
Person - Nativity and Birthplace
Person - Ethnicity and Language
Person - Education
 school - School attendance
 lit - Literacy
 edattan - Educational attainment, international recode
 edattand - Educational attainment, international recode

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

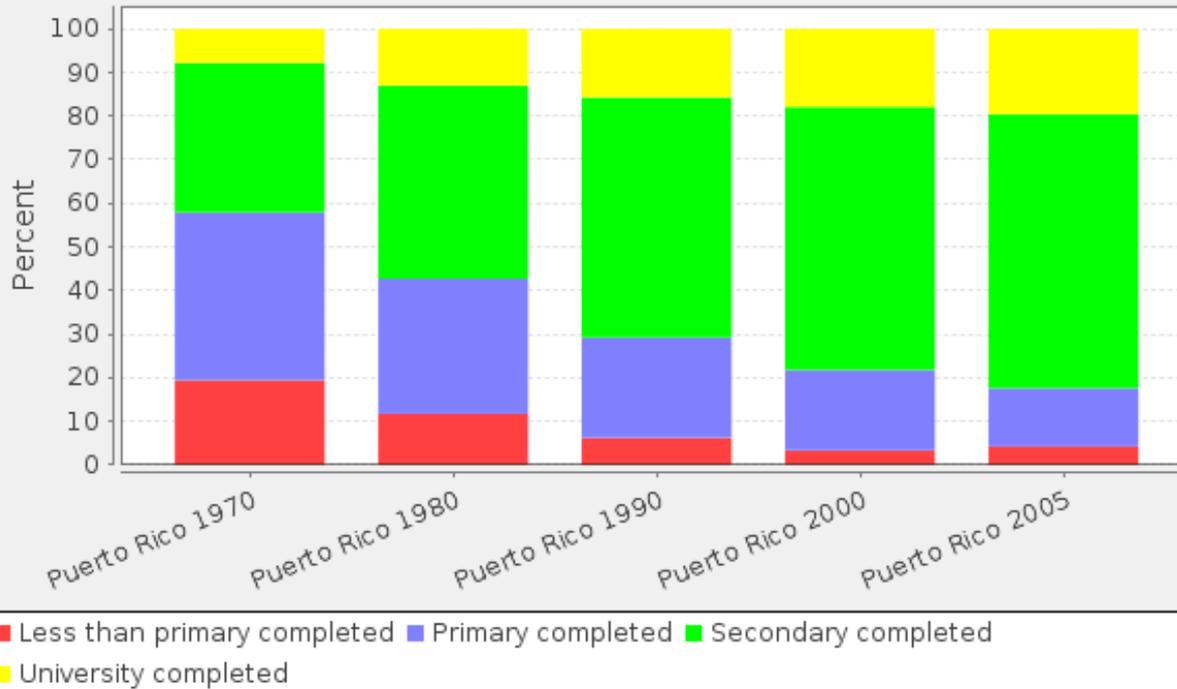
CHART OPTIONS

Type of chart:
Bar chart options:
Orientation: Vertical Horizontal
Visual Effects: 2-D 3-D
Show percents: Yes
Palette: Color Grayscale
Size - width: height:

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...

Statistics for sex = 2(Female)

Cells contain:
 Column percent

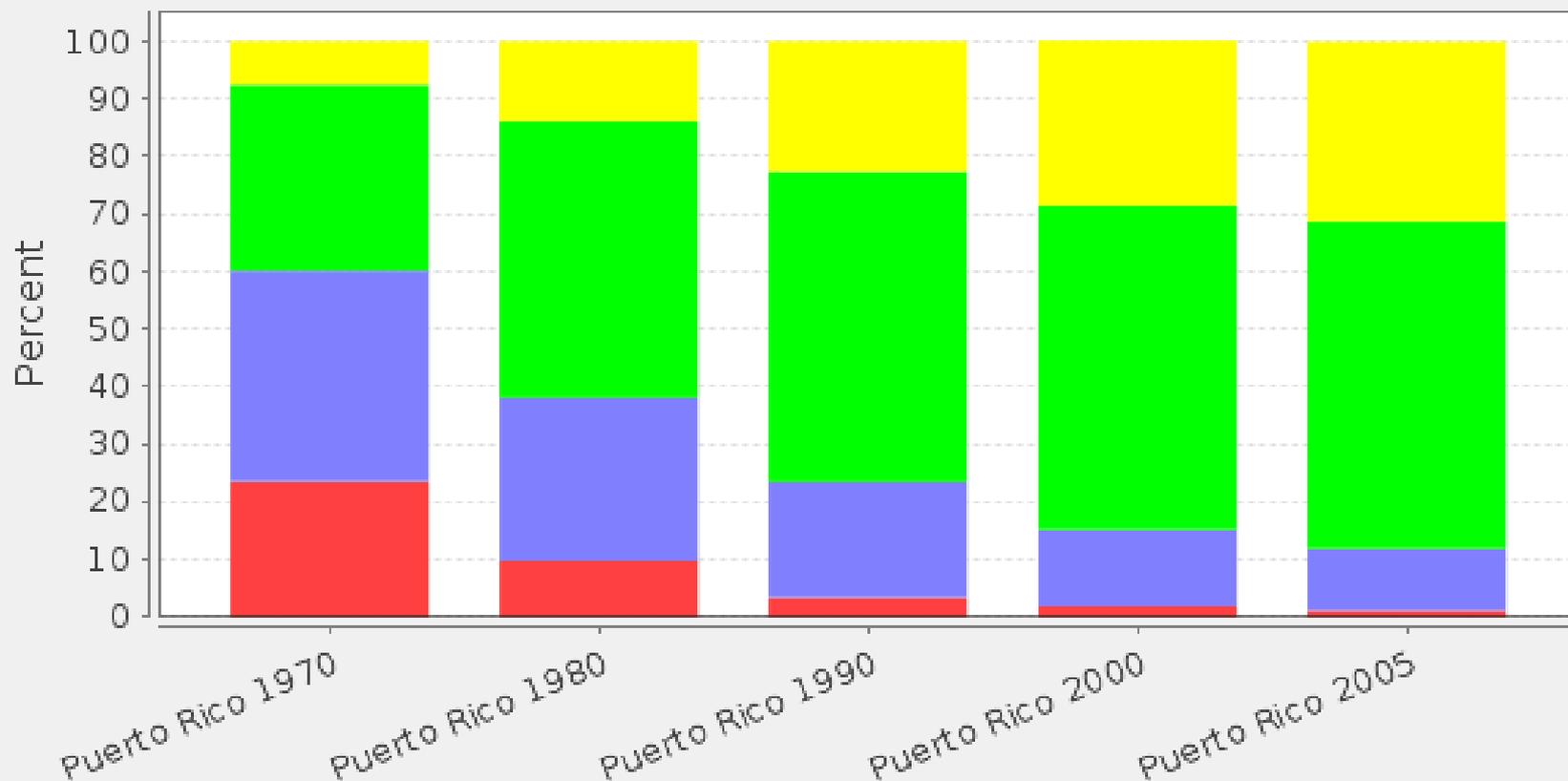
sample			
6301 Puerto	6302 Puerto	6303 Puerto	6304 Puerto

What about females?
 ... next slide

Female

Chart for sex = 2(Female)

Educational attainment, international recode BY IPUMS sample identifier

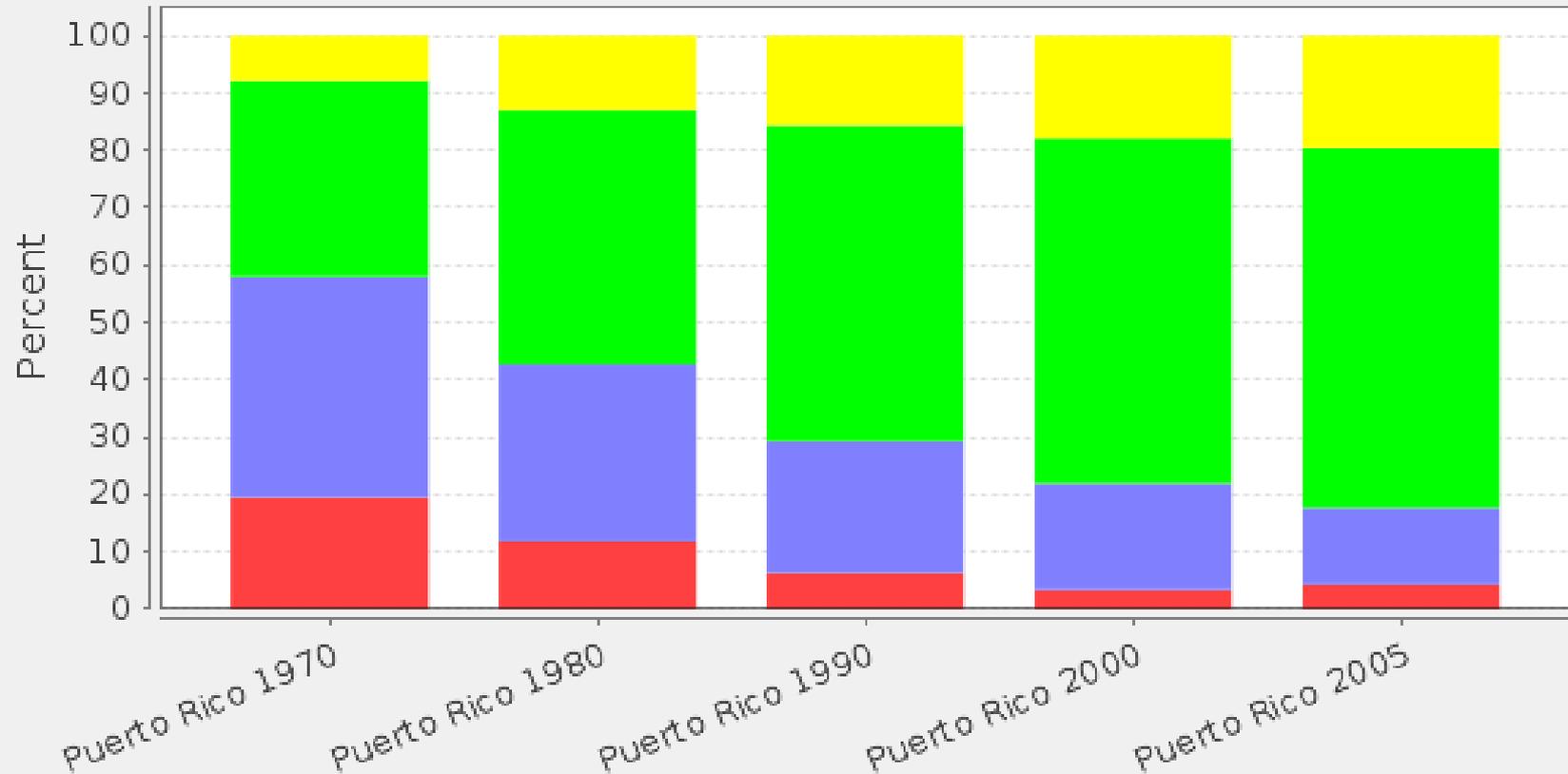


Less than primary completed Primary completed Secondary completed University completed

... 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

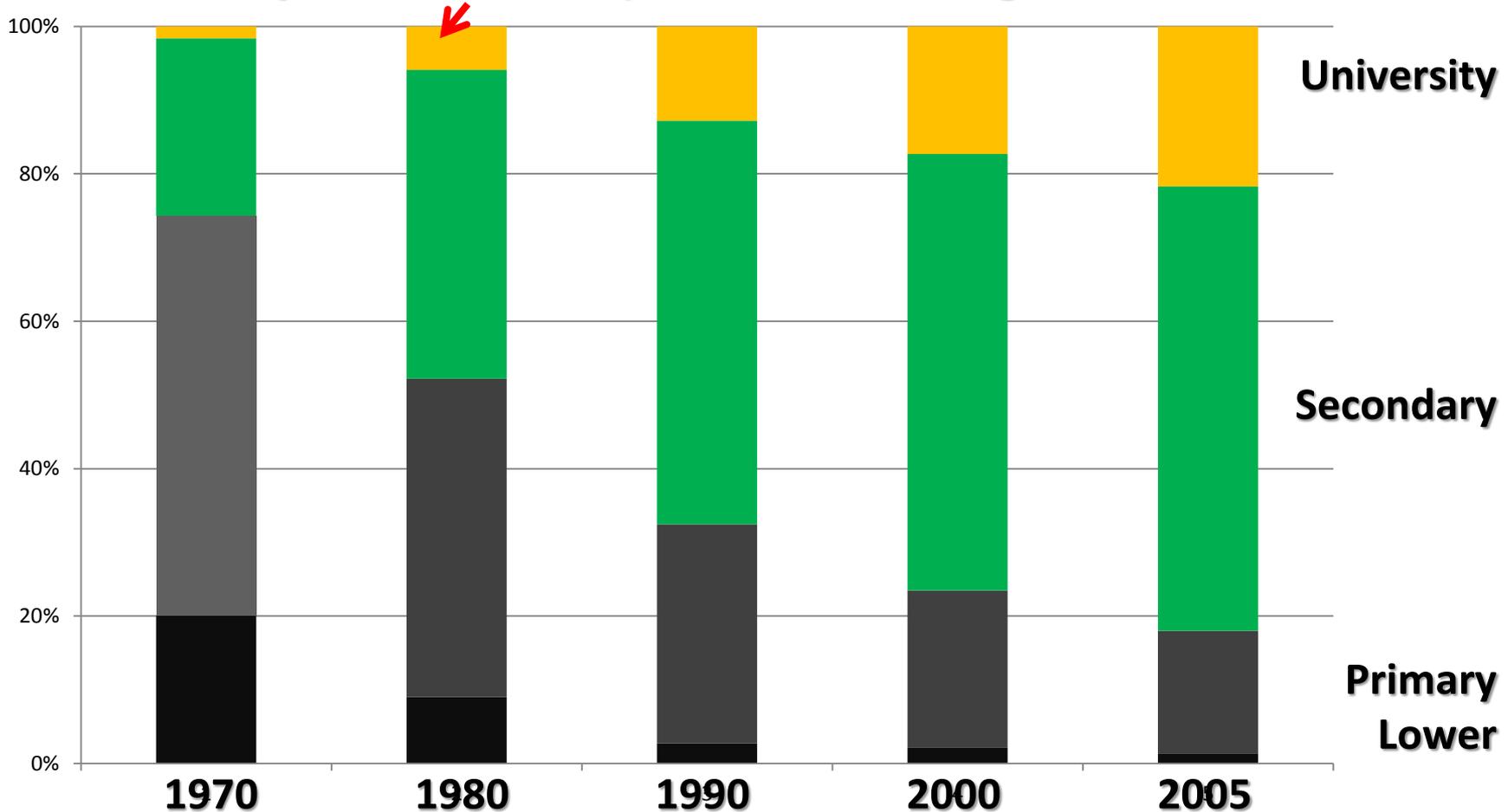
**WHAT CAN YOU DO WITH IPUMS?
THE TEASER (CONTINUED):**

**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

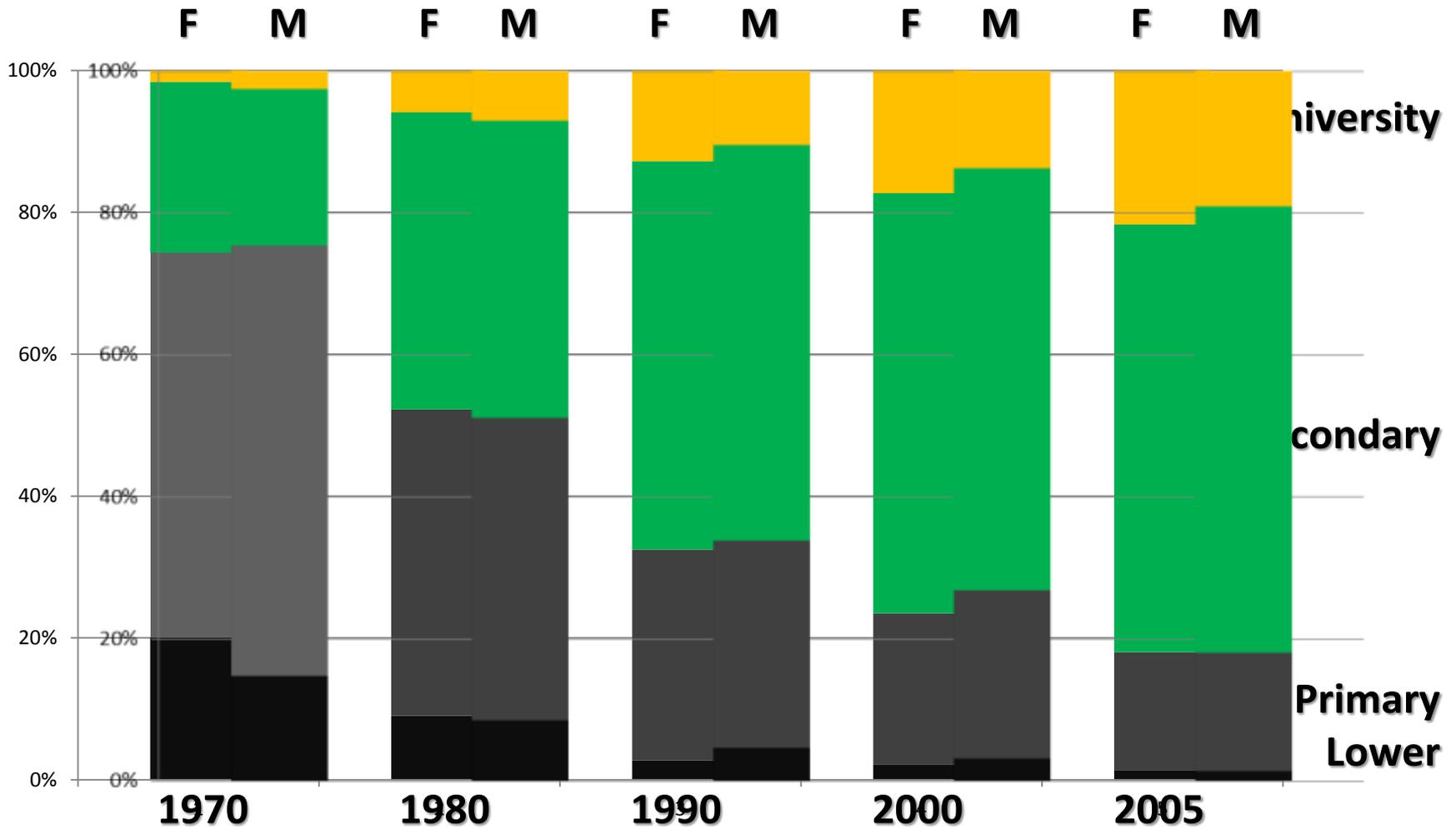
Sonia Sotomayor is *not* here (Princeton '76, age 22, but *not* born in PR)



Puerto Ricans living in the United States, 1970-2005

Puerto Ricans in USA, Females vs. Males

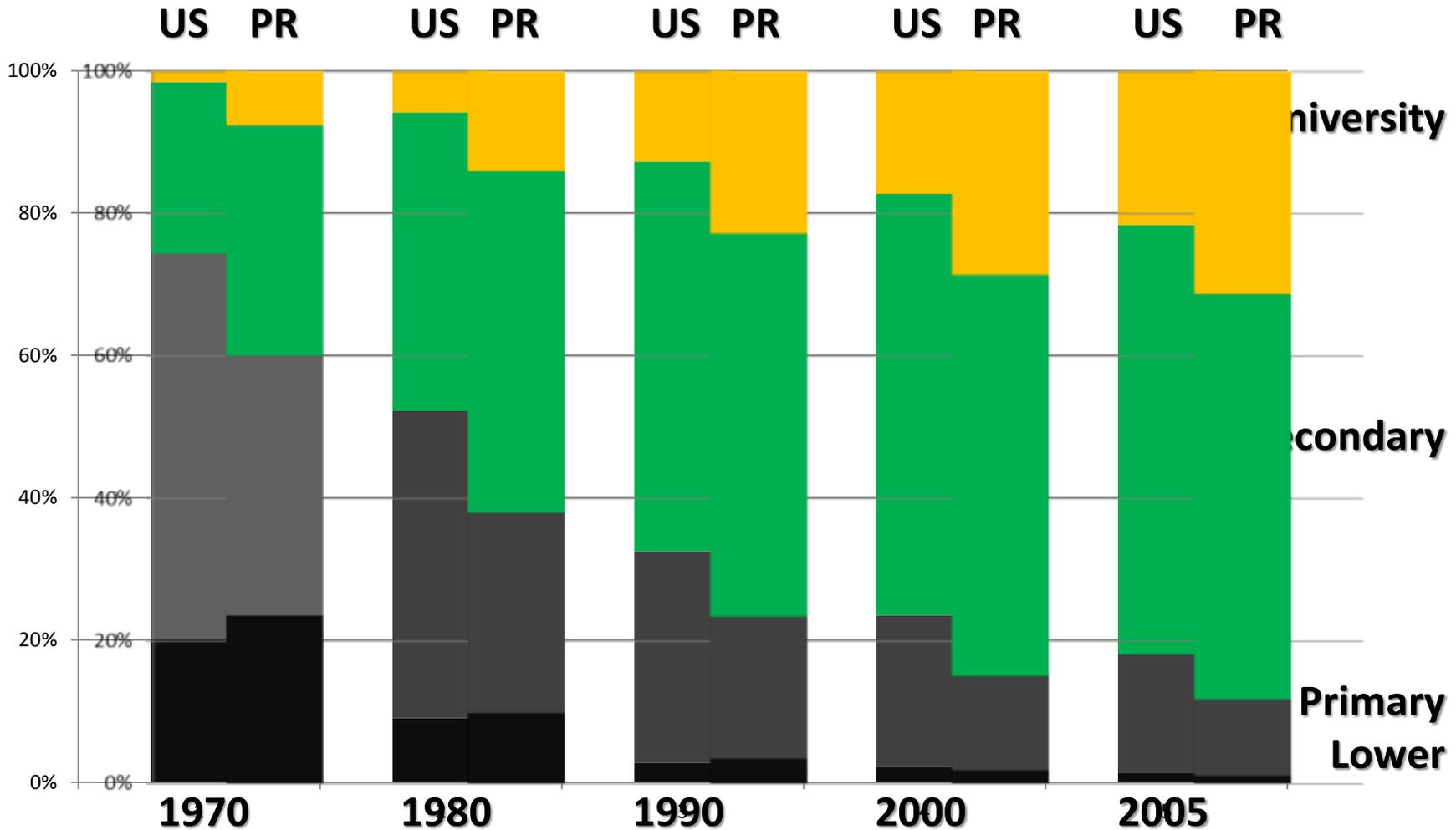
Gender gap, always small, reverses in 1990



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 (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
Total population	281,421,906	138,053,563	143,368,343
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

Age
Birthplace
Sex
Mother's birthplace
Relationship
Race
Occupation

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

H91000002400000000088001001000220100
P9100000020101032120010010010011504
P9100000010201036220010010010011999
P910201000301011220060010010011999
P910201000301009120060010010011999
P910201000301007120060010010011999
P910201000301006120060010010011999
P910201000301004220060010010011999
P910201000301003220060010010011999
P910201000301002220060010010011999
H91000002400000000088001001000110100
P9100000020101030110010290510511310
P9100000010201021210010290290171999
P9102010003010001110060010290291999
H91000002400000000088001001000220100
P9100000020101045120010010010011100
P9100000010201025220010010010011820
P910201000301007220060010010011999
H91000002400000000088001001000220100
P9100000020101049120010010010011100
P9100000010201049220010010010011820
P910201000301019220060010010011820
P910201000301015220060010010012820

IPUMS and Other MPC Data Projects

All have similar interfaces—learn one, learn them all

MPC Minnesota Population Center

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



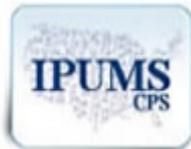
[IPUMS-International](#)

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



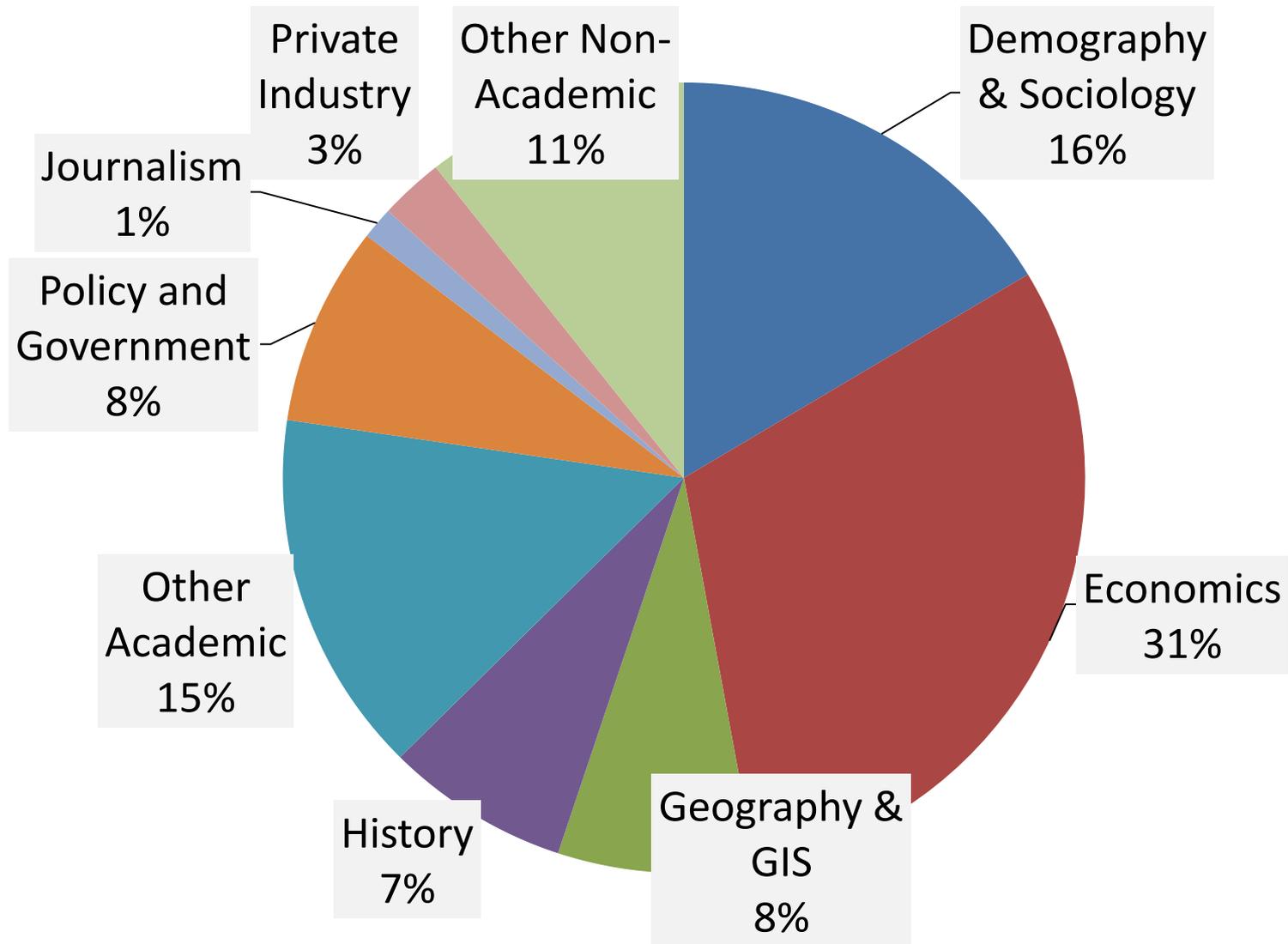
IPUMS-USA

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

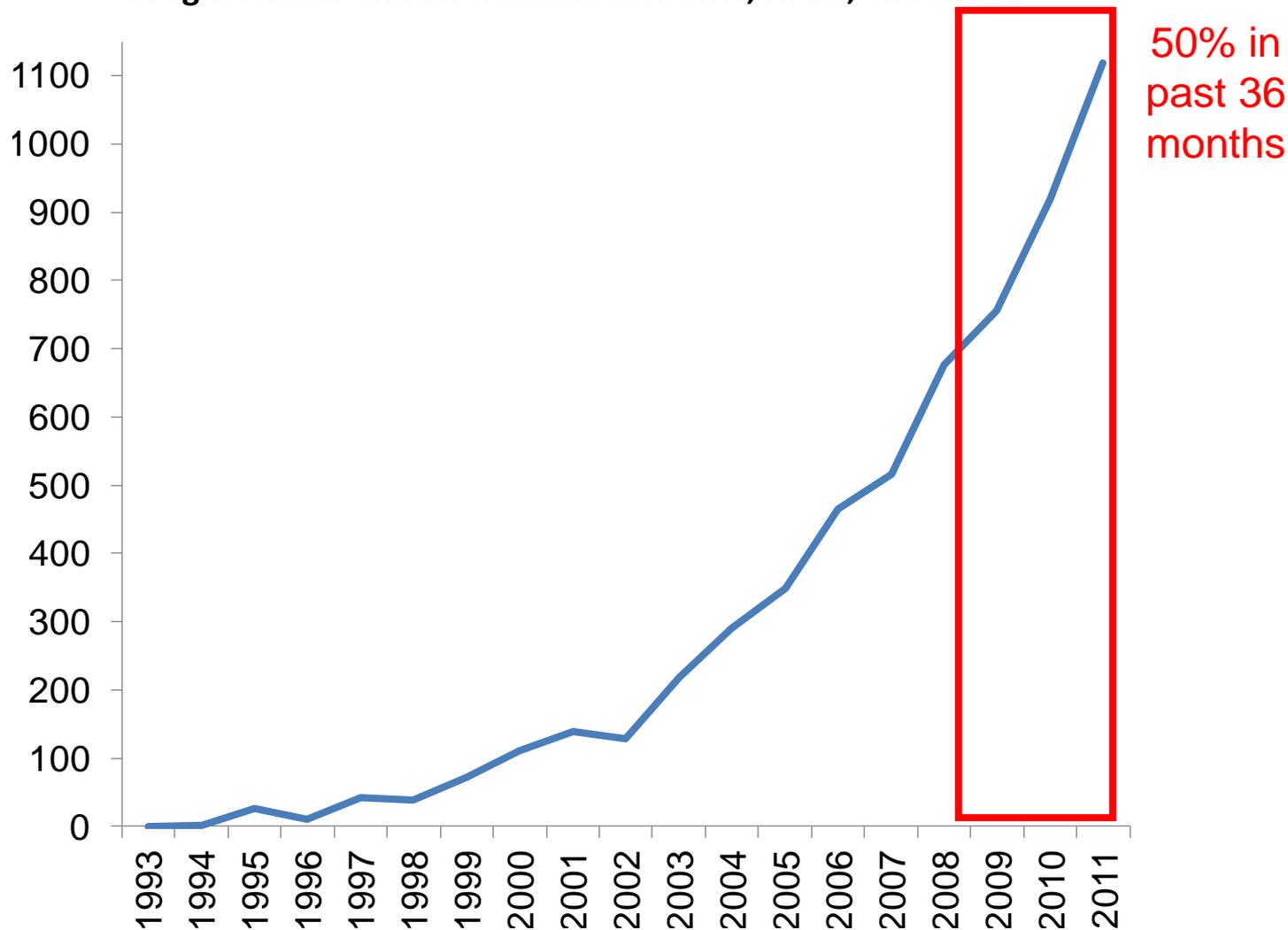
<u>Institution</u>	<u>N</u>
1. Federal Univ. of Minas Gerais (CEDEPLAR), Brazil	99
2. Colegio de México	95
3. Inter-American Development Bank	61
4. Universidad Externado de Colombia	39
5. UNAM, México	34
6. Universidad Nacional de La Plata, Argentina	26
7. Universidad Católica de Chile	18
8. CEM/CEBRAP,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

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MPC Data Projects

[IPUMS-USA and others](#)



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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 \(MPC\)](#)

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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 |
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| <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
- Case-count view
- General codes
- Detailed codes

Code	Label	puerto 1970	puerto 1980	puerto 1990	puerto 2000	puerto 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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- Sample descriptions: census day, universe, forms, etc.
- Variable descriptions
 - Availability by Sample
 - Universes
 - Comparability
 - Allocation and Imputation Flags
 - Questions and Instructions to Respondents
 - Instructions to Enumerators

Sample characteristics: Puerto Rico

Census characteristics

	1970	1980	1990
Title	1970 Census of Population and Housing	1980 Census of Population and Housing	1990 Census of Population and Housing
Census agency	U.S. Census Bureau	U.S. Census Bureau	U.S. Census Bureau
Population universe	Residents of Puerto Rico.	Residents of Puerto Rico.	Residents of Puerto Rico.
De jure or de facto	De jure	De jure	De jure
Enumeration unit	Households and Group Quarters	Households and Group Quarters	Households and Group Quarters
Census day	April 1, 1970	April 1, 1980	April 1, 1990
Enumeration forms	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>

Sample unit	Household	Household	Household
Sample fraction	1%	5%	5%
Sample size (person records)	27,212	160,219	177,655
Sample weights	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
Dwellings	No	No	No
Vacant units	Yes	Yes	Yes
Smallest geography	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
Households	Yes	Yes	Yes
Individuals	Yes	Yes	Yes
Group quarters	Yes	Yes	Yes
Households	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.
Group quarters	Institutions, transient quarters, and	Institutions, transient quarters, and	Institutions, transient quarters, and

Integrated Metadata: Variable descriptions

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- Sample descriptions: census day, universe, forms, etc.
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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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[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).

Submit sample selections

All Samples

- | | | | | | |
|-------------------------------------|--|--|--|--|--|
| <input type="checkbox"/> Argentina | <input type="checkbox"/> 2001 | <input type="checkbox"/> 1991 <small>i</small> | <input type="checkbox"/> 1980 | <input type="checkbox"/> 1970 | |
| <input type="checkbox"/> Armenia | <input type="checkbox"/> 2001 | | | | |
| <input type="checkbox"/> Austria | <input type="checkbox"/> 2001 | <input type="checkbox"/> 1991 | <input type="checkbox"/> 1981 | <input type="checkbox"/> 1971 | |
| <input type="checkbox"/> Belarus | <input type="checkbox"/> 1999 | | | | |
| <input type="checkbox"/> Bolivia | <input type="checkbox"/> 2001 | <input type="checkbox"/> 1992 | <input type="checkbox"/> 1976 | | |
| <input type="checkbox"/> Brazil | <input type="checkbox"/> 2000 | <input type="checkbox"/> 1991 | <input type="checkbox"/> 1980 | <input type="checkbox"/> 1970 | <input type="checkbox"/> 1960 <small>i</small> |
| <input type="checkbox"/> Cambodia | <input type="checkbox"/> 2008 | <input type="checkbox"/> 1998 | | | |
| <input type="checkbox"/> Canada | <input type="checkbox"/> 2001 <small>i</small> | <input type="checkbox"/> 1991 <small>i</small> | <input type="checkbox"/> 1981 <small>i</small> | <input type="checkbox"/> 1971 <small>i</small> | |
| <input type="checkbox"/> Chile | <input type="checkbox"/> 2002 | <input type="checkbox"/> 1992 | <input type="checkbox"/> 1982 | <input type="checkbox"/> 1970 | <input type="checkbox"/> 1960 <small>i</small> |
| <input type="checkbox"/> China | <input type="checkbox"/> 1990 | <input type="checkbox"/> 1995 | | | |
| <input type="checkbox"/> Colombia | <input type="checkbox"/> 2005 | <input type="checkbox"/> 1993 | | | |
| <input type="checkbox"/> Costa Rica | <input type="checkbox"/> 2000 | <input type="checkbox"/> 1993 | | | |
| <input type="checkbox"/> Cuba | <input type="checkbox"/> 2002 | | | | |
| <input type="checkbox"/> Ecuador | <input type="checkbox"/> 2001 | <input type="checkbox"/> 1990 | | | |

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 <small>i</small>		
<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 <small>i</small>				
<input type="checkbox"/> South Africa	<input type="checkbox"/> 2007	<input type="checkbox"/> 2001	<input type="checkbox"/> 1996 <small>i</small>		
<input type="checkbox"/> Spain	<input type="checkbox"/> 2001	<input type="checkbox"/> 1991	<input type="checkbox"/> 1981 <small>i</small>		
<input type="checkbox"/> Sudan	<input type="checkbox"/> 2008 <small>i</small>				
<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 <small>i</small>	<input type="checkbox"/> 1991 <small>i</small>			
<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"/> 1960
<input type="checkbox"/> Uruguay	<input type="checkbox"/> 2006 <small>i</small>	<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

Data Cart

Your data extract

0 variables
10 samples

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Select Variables

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Person

A-Z

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- Unharmonized variables

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- Technical
- Constructed Family Interrelationship
- Demographic
- Fertility and Mortality
- Nativity and Birthplace
- Ethnicity and Language
- Education**
- Work
- Income
- Migration
- Disability

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

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

Data Cart
Your data extract

0 variables
10 samples

VIEW CART →

Select Variables

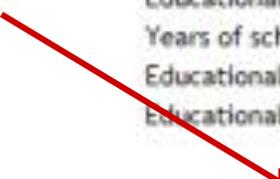
Household ▾ Person ▾ A-Z ▾ Search

Change Samples

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 - Unharmonized variables
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[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 a variable name to view metadata
 Click "codes" to view codes & more
 Click the gold to select a variable

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

Your data extract

0 variables
10 samples[VIEW CART](#)

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](#)

Add to cart

Change samples

Description

Comparability

Universe

Codes

Availability

Questionnaire Text

Source Variables

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)

Data Cart
Your data extract

0 variables
10 s

VIEW

Add to cart Change samples

AN
attainment, 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	P	codes	United States 2005

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.

Caution!!!
 Power-users only,
 please!

IPUMS International

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Data Cart

Your data extract

1 variable
10 samples

[VIEW CART](#)

Select Variables

Household Person A-Z Search

Change Samples

- Integrated variables
- Unharmonized variables

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Education Variables -- PERSON [\[top\]](#)

Add to cart	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
	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

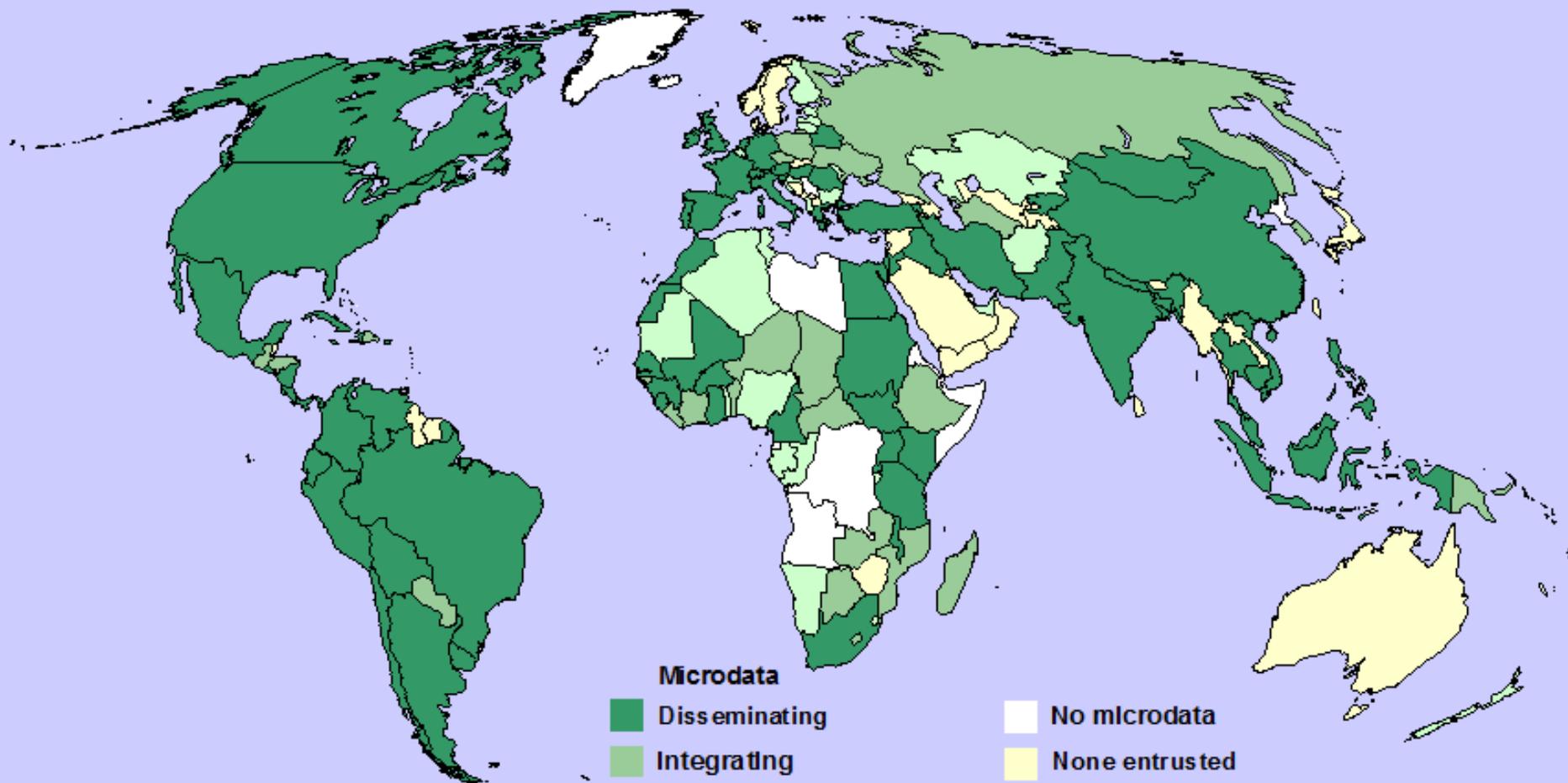
Microdata:

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

I Puerto Rico in IPUMS-International: Sample Descriptions

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

Select Variables

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Puerto Rico Metadata in IPUMS-International: Variables

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

IPUMS
International

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[NEW! Online tabulator](#)

Integrated Public Use Microdata Series, International

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.

IPUMS
census

Click: Apply for access

MINNESOTA POPULATION CENTER, UNIVERSITY OF MINNESOTA

IPUMS International

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Data Cart

Your data extract

0 variables
0 samples

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



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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.

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

<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------

➔ 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

<input type="text"/>	<input type="text"/>	-	<input type="text"/>
----------------------	----------------------	---	----------------------

➔ 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

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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.



https://international.ipums.org

IPUMS International

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

[Help](#)

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Your data extract

0 variables
13 samples[VIEW CART](#)**Select Variables**

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Search

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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



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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												ROW TOTAL
		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	
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 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](#)



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census microdata for social and economic research

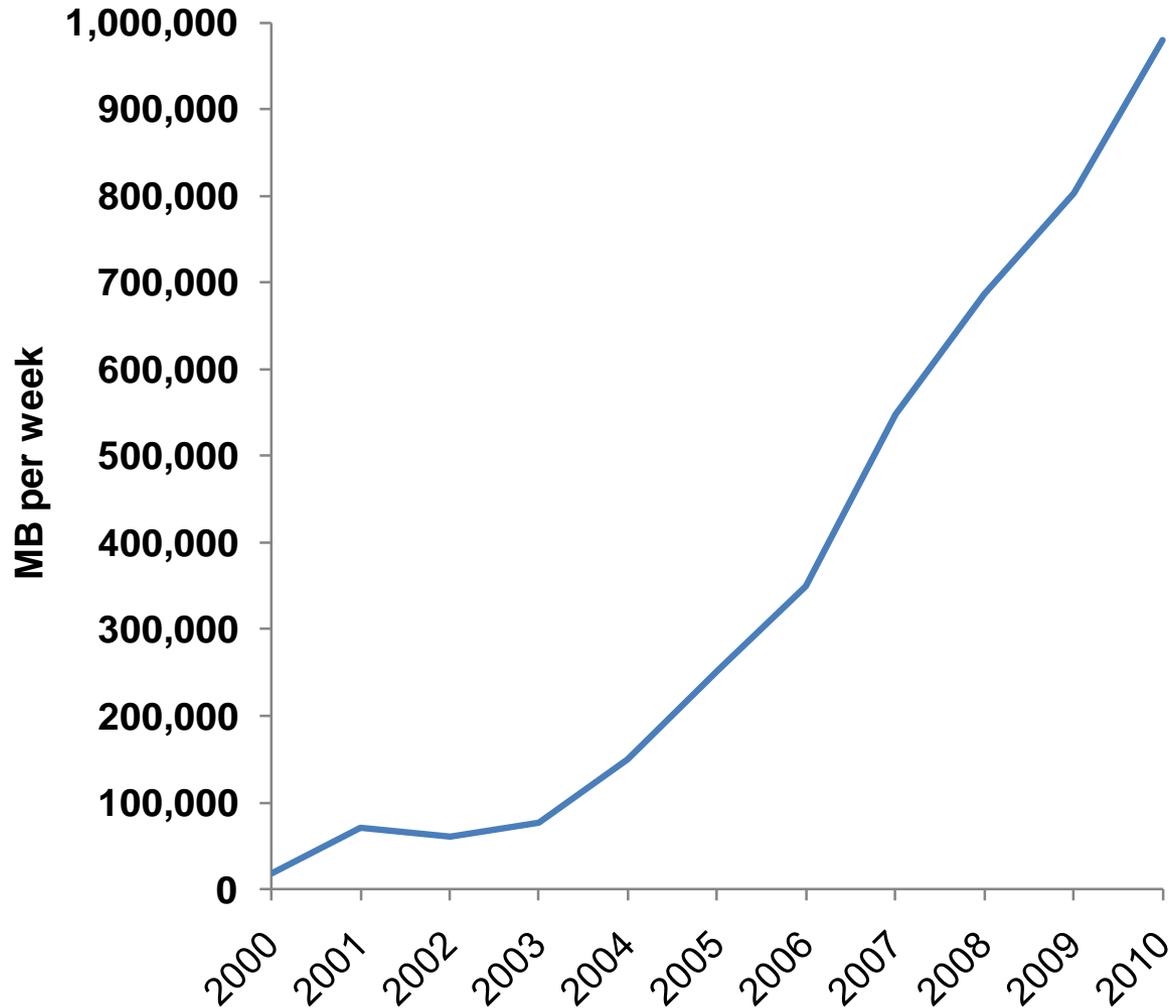
Obtaining data:

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

MPC Data Dissemination



User Support – 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
WORLD	5,240,504	5,232,736
Puerto Rico	3,749,000	3,722,133
Puerto Ricans living abroad	1,491,504	1,510,603
More developed regions	1,466,840	1,509,973
Less developed regions	24,664	coming soon

WHAT ARE THEY DOING THERE?

WE INVITE YOU TO EXPLORE IPUMS TO FIND OUT....

Obtaining data:

ONLINE DEMO