

Using IPUMS International: A Focus on Race & Ethnicity in Latin America

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Institute for Social Research and Data Innovation

IASSIST Webinar

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1. IPUMS International

Data availability
Advantages and tools for users



1. IPUMS International

Data availability Advantages and tools for users

2. Race & Ethnicity

Variable availability (race, indigenous, ethnicity, language)



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2. Race & Ethnicity

Variable availability (race, indigenous, ethnicity, language)

3. Demonstration of dissemination system

Getting access

Browse variables and documentation



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2. Race & Ethnicity

Variable availability (race, indigenous, ethnicity, language)

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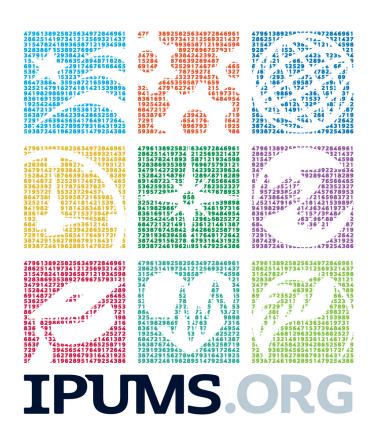
Getting access

Browse variables and documentation



SOCIAL RESEARCH & DATA INNOVATION

IPUMS MPG INTER LIFE COURSE



IPUMS is dedicated to facilitating high quality research by collecting and distributing census and survey microdata from around the world.

MISSION:

- Collect and preserve data and documentation
- · Harmonize data
- Disseminate data to researchers free of charge





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Tabular and GIS data from population, housing, and agricultural censuses around the world. Learn More

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Historical and contemporary time use data from 1930 to the present. Learn More

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Historical and contemporary U.S. health survey data from NHIS ₫ (1963-present) and MEPS 2 (1996present). Learn More

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Survey data on the science and engineering workforce in the U.S. from 1993 to the present. Learn More

VISIT SITE

- 150+ countries
- 1000+ census and survey data files
- 2 billion+ person records
- 300,000+ data users
- 2 million+ data requests
- 1 TB data/day



IPUMS

- Microdata samples at individual level
- Anonymized
- Harmonized
- Web-based dissemination system
- Standardized data and metadata
- Free of cost!





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RESEARCH DATA ENCLAVE
LINKED HISTORICAL CENSUSES

DOCUMENTATION

REVISION HISTORY
SAMPLE DESCRIPTIONS
QUESTIONNAIRES
NAPP PROJECT
WORLD CENSUS FORMS

HARMONIZED INTERNATIONAL CENSUS DATA FOR SOCIAL SCIENCE AND HEALTH RESEARCH

IPUMS International is dedicated to collecting and distributing census microdata from around the world. The project goals are to collect and preserve data and documentation, harmonize data, and disseminate the harmonized data free of charge.

103 COUNTRIES - 547 CENSUSES AND SURVEYS - OVER 1 BILLION PERSON RECORDS

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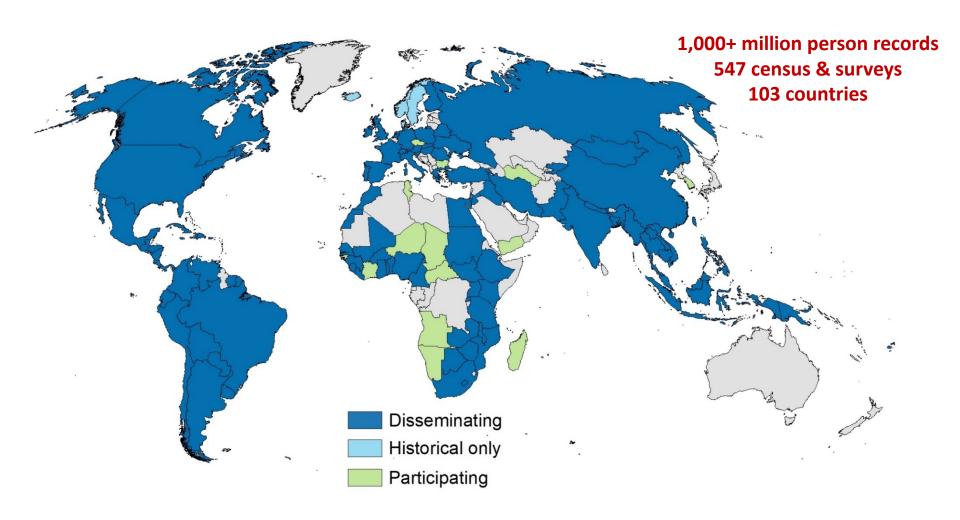
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Register

Microdata Availability



Data generously entrusted by participating National Statistical Institutes partnering with IPUMS



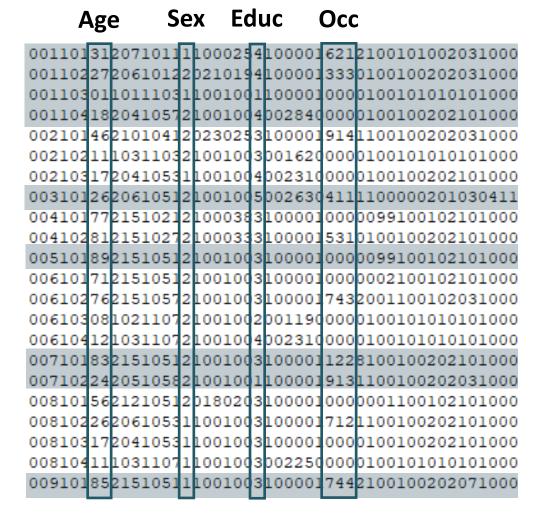
Dissemination of Microdata Samples

IPUMS International

- Persons organized into households
- High density samples (~10%)
- Broad availability of census variables
- More recently: Labor Force Surveys

Microdata allow custom analysis for an academic audience

- Complex analysis and model estimation
- Customized disaggregation
- Analysis of small population groups
- Calculate indicators





IPUMS simplifies comparability across time and space



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1. Harmonized census samples

- Common format for data and metadata
- Single database from user perspective



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1. Harmonized census samples

- Common format for data and metadata
- Single database from user perspective

2. Harmonized variables

- Common codes for all variables
- Composite coding structure
 - First digit = general code (common to many censuses/surveys)
 - Additional digits = detailed codes (to preserve detail)



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2. Harmonized variables

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 - First digit = general code (common to many censuses/surveys)
 - Additional digits = detailed codes (to preserve detail)

3. Online easy access

- Users download customized data extracts
- Availability of online documentation (questionnaires, instructions, etc.)
- Other tools: online tabulator, shapefiles, etc.



Marital status: MARST



Marital status: MARST

Bangladesh 2011

- 1 = Unmarried
- 2 = Married
- 3 = Widowed
- 4 = Divorced/separated



Marital status: MARST

Bangladesh 2011

Mexico 1970

1 = Unmarried 1 = Married, civil & relig

2 = Married, civil

3 = Widowed 3 = Married, religious

4 = Divorced/separated 4 = Consensual union

5 = Widowed

6 = Divorced

7 = Separated

8 = Single



Marital status: MARST

Bang	lades	sh 20	11

Kenya 1999

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				12			
	 _						
	_					-	•

2 = Married

3 = Widowed

4 = Divorced/separated

1 = Married, civil & relig

Mexico 1970

2 = Married, civil

3 = Married, religious

4 = Consensual union

5 = Widowed

6 = Divorced

7 = Separated

8 = Single

1 = Never married

2 = Monogamous

3 = Polygamous

4 = Widowed

5 = Divorced

6 = Separated





Bangladesh 2011

	1 = Unmarried	
	2 = Married	
	3 = Widowed	
	4 = Divrc or separated	



Bangladesh 2011

Mexico 1970

1 = Unmarried	1 = Married, civil & relig	
2 = Married	2 = Married, civil	
3 = Widowed	3 = Married, religious	
4 = Divrc or separated	4 = Consensual union	
	5 = Widowed	
	6 = Divorced	
	7 = Separated	
	8 = Single	



Bangladesh 2011

Mexico 1970

Kenya 1999

1 = Married, civil & relig	1 = Never married
2 = Married, civil	2 = Monogamous
3 = Married, religious	3 = Polygamous
4 = Consensual union	4 = Widowed
5 = Widowed	5 = Divorced
6 = Divorced	6 = Separated
7 = Separated	
8 = Single	
	2 = Married, civil 3 = Married, religious 4 = Consensual union 5 = Widowed 6 = Divorced 7 = Separated



Input

Bangladesh	Mexico	Kenya
2011	1970	1999

1 = Unmarried	1 = Married, civil & relig	1 = Never married
2 = Married	2 = Married, civil	2 = Monogamous
3 = Widowed	3 = Married, religious	3 = Polygamous
4 = Divrc or separated	4 = Consensual union	4 = Widowed
	5 = Widowed	5 = Divorced
	6 = Divorced	6 = Separated
	7 = Separated	
	8 = Single	



Harmonized	Input
Haimomzeu	шри

Code	Label	Bangladesh 2011	Mexico 1970	Kenya 1999
		1 = Unmarried	1 = Married, civil & relig	1 = Never married
		2 = Married	2 = Married, civil	2 = Monogamous
		3 = Widowed	3 = Married, religious	3 = Polygamous
		4 = Divrc or separated	4 = Consensual union	4 = Widowed
			5 = Widowed	5 = Divorced
			6 = Divorced	6 = Separated
			7 = Separated	
			8 = Single	



Harmonized	Input
Haimomzeu	шри

Code	Label	Bangladesh 2011	Mexico 1970	Kenya 1999
		1 = Unmarried	8 = Single	1 = Never married
		2 = Married		
			2 = Married, civil	
			3 = Married, religious	
			1 = Married, civil & relig	
				2 = Monogamous
				3 = Polygamous
			4 = Consensual union	
		4 = Divrc or separated		
			7 = Separated	6 = Separated
			6 = Divorced	5 = Divorced
		3 = Widowed	5 = Widowed	4 = Widowed



Harmonized

Input

CodeLabelBangladeshMexicoKenya201119701999

100	Single	1 = Unmarried	8 = Single	1 = Never married
		2 = Married		
			2 = Married, civil	
			3 = Married, religious	
			1 = Married, civil & relig	
				2 = Monogamous
				3 = Polygamous
			4 = Consensual union	
		4 = Divrc or separated		
			7 = Separated	6 = Separated
			6 = Divorced	5 = Divorced
		3 = Widowed	5 = Widowed	4 = Widowed



Harmonized	Input
паннониев	input

Code	Label	Bangladesh 2011	Mexico 1970	Kenya 1999
100	Single	1 = Unmarried	8 = Single	1 = Never married
200	Married or in union	2 = Married		
210	Married, formally			
211	Civil		2 = Married, civil	
212	Religious		3 = Married, religious	
213	Civil and religious		1 = Married, civil & relig	
214	Monogamous			2 = Monogamous
215	Polygamous			3 = Polygamous
220	Consensual union		4 = Consensual union	
		4 = Divrc or separated		
			7 = Separated	6 = Separated
			6 = Divorced	5 = Divorced
		3 = Widowed	5 = Widowed	4 = Widowed



put

Code	Label	Bangladesh 2011	Mexico 1970	Kenya 1999
100	Single	1 = Unmarried	8 = Single	1 = Never married
200	Married or in union	2 = Married		
210	⊳ Married, formally			
211	Civil		2 = Married, civil	
212	Religious		3 = Married, religious	
213	Civil and religious		1 = Married, civil & relig	
214	Monogamous			2 = Monogamous
2 1 5	Polygamous			3 = Polygamous
220	Consensual union		4 = Consensual union	
		4 = Divrc or separated		
			7 = Separated	6 = Separated
			6 = Divorced	5 = Divorced
		3 = Widowed	5 = Widowed	4 = Widowed



put

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214	⊳ Monogamous			2 = Monogamous
215	Polygamous			3 = Polygamous
220	Consensual union		4 = Consensual union	
		4 = Divrc or separated		
			7 = Separated	6 = Separated
			6 = Divorced	5 = Divorced
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2 1 3	Civil and religious		1 = Married, civil & relig	
214	Monogamous			2 = Monogamous
2 1 5	Polygamous			3 = Polygamous
220	Consensual union		4 = Consensual union	
300	Divorced or separated	4 = Divrc or separated		
3 1 0	Separated		7 = Separated	6 = Separated
3 2 0	Divorced		6 = Divorced	5 = Divorced
		3 = Widowed	5 = Widowed	4 = Widowed



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215	Polygamous			3 = Polygamous
220	Consensual union		4 = Consensual union	
300	Divorced or separated	4 = Divrc or separated		
3 1 0	Separated		7 = Separated	6 = Separated
3 2 0	Divorced		6 = Divorced	5 = Divorced
400	Widowed	3 = Widowed	5 = Widowed	4 = Widowed



Harmonized

Code Label

100	Single
200	Married or in union
210	Married, formally
211	Civil
212	Religious
2 1 3	Civil and religious
214	Monogamous
215	Polygamous
220	Consensual union
300	Divorced or separated
3 1 0	Separated
320	Divorced
400	Widowed



Harmonized

Code Label

1	Single
2	Married or in union
2	Married, formally
2	Civil
2	Religious
2	Civil and religious
2	Monogamous
2	Polygamous
2	Consensual union
3	Divorced or separated
3	Separated
3	Divorced
4	Widowed



Harmonized

Code Label

1	Single
2	Married or in union
3	Divorced or separated
4	Widowed



Harmonized

Code Label

1	Single
2	Married or in union
3	Divorced or separated
4	Widowed



Union Formation Implications of Race and Gender Gaps in Educational Attainment: The Case of Latin America

Albert Esteve, Luis López-Ruiz

Population Research and Policy Review, Vol. 29, No. 5 (October 2010), pp. 609-637



World Development

Volume 125, January 2020, 104685

Characterizing the indigenous forest peoples of Latin America: Results from census data

Brian C. Thiede 🙎 🖂 , Clark Gray 🖂



Research in Social Stratification and Mobility

Volume 86, August 2023, 100826

The changing terrain of racial inequality in Trinidad and Tobago

Monique D.A. Kelly ¹ ∠ ⊠



Ethnic and Racial Studies, 2015 Vol. 38, No. 12, 2090–2107

Parental transmission of ethnic identification in mixed couples in Latin America: the Mapuche case

Eduardo Valenzuela and M. Belén Unzueta



Overview

1. IPUMS International

Data availability
Advantages and tools for users

2. Race & Ethnicity

Variable availability (race, indigenous, ethnicity, language)

3. Demonstration of dissemination system

Getting access

Browse variables and documentation



Variables available

RACE: Race or color

INDIG or SPEAKIND: Member of indigenous group or speaks indigenous language

ETHNIC__: Ethnicity (by country)

LANG__ or MTONG__:
Language spoken or
mother tongue (by country)





Race and ethnicity in censuses from IPUMS

Nominal harmonization

Align groups with the same name

Complex intersecting concepts

Color, ancestral location/origin, culture

Comparisons are difficult

- Categorizations/measurement changes
 - Across countries
 - Over time
- Identity formation evolves over time



Census data from IPUMS

Sample characteristics

- High density samples—often 10%
- Household samples
- Full population coverage (ages, geography, etc.)

Good for

- Study of small populations
- Disaggregation recommended for SDGs





Variables available

RACE: Race or color

INDIG or SPEAKIND: Member of indigenous group or speaks indigenous language

ETHNIC__: Ethnicity (by country)

LANG__ or MTONG__:
Language spoken or
mother tongue (by country)





Availability: 10 countries & 23 census samples

Brazil 1960, 1980, 1991, 2000, 2010
Colombia 2005
Costa Rica 2000, 2011
Cuba 2002, 2012
Ecuador 2001, 2010
El Salvador 2007
Jamaica 1982, 1991, 2001
Puerto Rico 2000, 2005, 2010
Saint Lucia 1980, 1991
Uruguay 2006, 2011



- Either self-report (most) or identified by enumerator
- Criteria for classification:
 - Ancestry, culture/customs, or language.
 - Skin color or physical characteristics.
- Response categories: White/Black generally available, differences for other categories



Cuba Census 2002

Question 6. What is your skin color? (Mark only one)

- [] 1 White
- [] 2 Black
- [] 3 Mestizo or mulato
- Instructions provide definitions to classify based on three skin characteristics: white, black, and mulato or mestizo
- Answers recorded <u>based on observation</u>



Brazil Census 2010

6.06. Your color or race is:

- [] 1 White [] 4 Brown
- [] 2 Black [] 5 Indigenous
- [] 3 Yellow
- Answer provided by respondent after options are read
- Enumerators are instructed "not to influence the response of the interviewee"



10	White	46	Indian
20	Black	47	Pakistani
21	Black African	48	Bangladeshi
22	Black Caribbean	49	Other Asian
23	Afro-Ecuadorian	50	Mixed race
24	Other Black	51	Brown (Brazil)
30	Indigenous	52	Mestizo (Indigenous and White)
31	American Indian	53	Mulatto (Black and White)
32	Latin American Indian	54	Coloured (South Africa)
40	Asian	56	Two or more races
41	Chinese	60	Other
42	Japanese	61	Montubio (Ecuador)
43	Korean	99	Unknown
44	Vietnamese		IPUMS
45	Filipino		IPUNS INTERNATION

Availability: 14 countries & 31 census samples

Bolivia 2001, 2012
Brazil 1960, 1991, 2000, 2010
Chile 2002, 2017
Colombia 2005
Costa Rica 2000, 2011
Ecuador 2001, 2010
El Salvador 2007
Guatemala 1964, 1973, 1981, 1994, 2002
Mexico 2000, 2010, 2015
Nicaragua 2005
Panama 1990, 2000, 2010
Paraguay 2002
Surinam 2004, 2012
Uruguay 2006, 2011



- Self-reported status
- Information is derived from:
 - Indigenous group membership (yes/no)
 - List of specific indigenous groups in the country
 - Race or color (response category)



Bolivia Census 2001

49. Do you consider yourself a member of any of the following original or indigenous groups?

```
[] 1 Quechua [] 5 Mojeño
```

[] 2 Aymara [] 6 Other native

[] 3 Guarani [] 7 None

[] 4 Chiquitano

- Answer provided by respondent after options are read
- In case the response refers to another original or indigenous tribe not listed, then "other native" should be chosen

Brazil Census 1991

9. Color

- [] 1 White [] 4 Mixed (parda)
- [] 2 Black [] 5 Indigenous
- [] 3 Yellow
- Answer provided by respondent, with no interpretation by the enumerator
- Mixed (parda) is marked for responses different than other categories listed, such as mixed white/indigenous or black/indigenous

LANGIND: Speaks indigenous language

Availability: 9 countries & 20 census samples

Bolivia 1976, 2001, 2012
Colombia 2005
Costa Rica 2000, 2011
Ecuador 2001, 2010
Guatemala 1964, 1994, 2002
Mexico 1970, 1990, 2000, 2005, 2010, 201
Nicaragua 2005
Paraguay 2002
Venezuela 2001



LANGIND: Speaks indigenous language

- Availability: 9 countries & 20 census samples
- Includes languages explicitly categorized as indigenous
- Refers to the ability to speak the language, not necessarily the mother tongue or language used at home
- Some countries specify the language spoken, while others just ask about any indigenous language



Availability: 18 countries & 39 census samples

ETHNIC_
Ethnicity, by country
Bolivia 2001, 2012
Chile 2002, 2017
Colombia 1993, 2005
Ecuador 2001, 2010
Guatemala 2002
Honduras 2001
Nicaragua 2005
Panama 1990, 2000, 2010
Surinam 2004, 2012
Trinidad and Tobago 1970, 1980, 1990, 2000



Availability: 18 countries & 39 census samples

LANG

Language, by country

Bolivia 1976, 2001, 2012

Costa Rica 2000, 2011

Ecuador 2001, 2010

El Salvador 2007

Honduras 1988

Mexico 1970, 1990, 2000, 2010, 2015

Paraguay 1962, 1982, 2002

Puerto Rico 2000, 2005, 2010



- Availability: 18 countries & 39 census samples
- Country-specific ethnicity/language variables
- Coding differs by country, harmonized across years
- Availability categories can differ across census samples
- Harmonization of responses based on literal labels



- Examples of country-specific variables:
 - ETHNICEC: Ethnicity, Ecuador
 - LANGBO: Language spoken, Bolivia
 - MTONGBO: Mother tongue, Bolivia
 - (Suffix identifies the country)



ETHNICEC: Ethnicity, Ecuador

Codo	Label		ecuad ecuad	
Code	Label	2001	2010	
01	Achuar	X	Χ	
02	Awa	X	Χ	
03	Cofan	X	Χ	
04	Chachi	X	Χ	
05	Huaorani	X	Χ	
06	Shuar	X	Χ	
07	Siona	X	Χ	
08	Tsa'chila	X	Χ	
09	Zapara	X	Χ	
10	Shiwiar	X	Χ	
11	Kichwa	X	Χ	
12	Saraguro	X	Χ	
13	Cañari	X	Χ	
14	Paruha	X	Χ	
15	Panzaleo	X	Χ	
16	Chibuleo	X	Χ	
17	Salasaca	X	Χ	
18	Quitu	X	Χ	
19	Cayambi	X	Χ	
20	Caranqui	X	Χ	
21	Natabuela	X	Χ	
22	Otavalo	X	Χ	
23	Quisapincha	X	Χ	
24	Pilahuin	X		
25	Pasa	X	-	

Code	Label	ecuad	ecuad
Coue	Label	2001	2010
26	Guaranga	Х	Χ
27	Chimbo	X	
28	Cacha	X	
29	Colta	X	
30	Licto	X	-
31	Epera	-	Χ
32	Secoya	-	Χ
33	Andoa	-	Χ
34	Pastos	-	Χ
35	Tomabela	-	Χ
36	Paltas	-	Х
37	Manta	-	Χ
38	Huncavilca	-	Χ
39	Other indigenous group	X	Χ
97	Response suppressed	X	-
98	Unknown	X	Х
99	NIU (not in universe)	X	X



LANGBO: Language spoken, Bolivia

Code	Label		boliv 2001	
01	Spanish	X	X	X
02	Aymara	X	Χ	Х
03	Quechua	X	Χ	X
04	Guarani	-	Χ	X
05	Spanish, Aymara	X	Χ	X
06	Spanish, Quechua	X	Χ	X
07	Aymara, Quechua	Χ	Χ	X
08	Spanish, Aymara, Quechua	X	Χ	X
09	Spanish and other/multiple indigenous language	X	Χ	Χ
10	Other/multiple indigenous language	X	Χ	X
12	Does not speak or speaks only foreign language	X	Χ	X
99	Unknown	-	Χ	X



ETHNICBO: Ethnicity, Bolivia

Code	Label		boliv 2012
	National language		
01	Quechua	X	Х
02	Aymara	X	Χ
03	Araona		Х
04	Bésiro		Х
05	Canichana		X
06	Cavineño		Χ
07	Cayubaba		X
08	Chácobo		Х
09	Chimán		Х
10	Ese Ejja		Χ
11	Guarasuawe		X
12	Guarayu		Χ
13	Itonama		X
14	Leco		Х
15	Machajuyai-Kallawaya		Х
16	Mojeño-Ignaciano		X
17	Mojeño-Trinitario		Χ
18	Mosetén		Х
19	Movima		Х
20	Tacana		X
21	Uruchipaya		X
22	Weenhayek		X
23	Yuracaré		X
24	Zamuco		X

Code	Label		boliv boliv	
Coue	Label	2001	2012	
25	Spanish	Х	Χ	
26	Guarani	X	X	
27	Other native language	X	Х	
30	Foreign language	X	-	
31	German		Х	
32	Catalan	•	Х	
33	Chinese		X	
34	Korean		Х	
35	French		X	
36	Dutch		X	
37	English		Х	
38	Italian		X	
39	Japanese		Х	
40	Portugese		X	
41	Russian		X	
42	Swedish		Х	
43	Other foreign language		X	
97	Does not speak	X	X	
98	Unknown		X	
99	NIU (not in universe)	X		



Resources from CEPAL (in Spanish)

Economic Commission for Latin America and the Caribbean (ECLAC/CEPAL)

Website: Thematic publications on the theme of

Statistical visibility of Indigenous and Afro Decendent populations in LA

Specifically, 2010 Census round:

Pueblos indígenas y afrodescendientes en los censos de población y vivienda de América Latina: avances y desafíos en el derecho a la información by Susana Schkolnik and Fabiana Del Popolo

And a presentation of recommendations for the 2020 Census round:

La inclusión de los pueblos indígenas y afrodescendientes en los censos de población y vivienda: avances y desafíos para la ronda 2020

by Fabiana Del Popolo



References from La PERLA project Princeton University (mid 2010s)

Flores, René D. 2014. "In the Eye of the Storm: How did Hazleton's Restrictive Immigration Ordinance Affect Local Interethnic Relations?" American Behavioral Scientist. Vol. 58(13) 1743;1763.

Flores, René D. and Edward Telles. 2012. "Social Stratification in Mexico: Disentangling Color, Ethnicity, and Class." American Sociological Review. 77:4 86;94. [Comment on Villareal 2010.]

Saldívar, E. 2018. "Uses and Abuses of Culture: Mestizaje in the Era of Multiculturalism" Cultural Studies, 32(3): 438-459.

Saldívar, E. & Graziella Moraes Silva. 2018. "Comparing Ideologies of Racial Mixing In Latin America: Brazil and Mexico" Sociologia & Antropologia, 8(2): 427-456.

Telles, Edward, René D. Flores and Fernando Urrea. 2015. "Why Skin Color is Better than Ethnora-cial Identification at Predicting Inequality in Latin America?" Research in Social Stratification and Mobility. Vol. 40, 39-58.

Telles, Edward and René D. Flores. 2013. "Not Just Color: Whiteness, Nation, and Status in Latin America." Hispanic American Historical Review. Vol. 93.



Overview

1. IPUMS International

Data availability
Advantages and tools for users

2. Race & Ethnicity

Variable availability (race, indigenous, ethnicity, language)

3. Demonstration of dissemination system

Getting access

Browse variables and documentation



Thank you!

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