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Harmonizing Census Microdata: IPUMS International

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IPUMS INTERNATIONAL

HOME | SELECT DATA | MY DATA | FAQ | HELP



PROJECT

ABOUT IPUMS-I PEOPLE. HOW TO CITE IPUMS-I USER REGISTRATION AND LOGIN

DATA

BROWSE AND SELECT DATA DOWNLOAD YOUR DATA EXTRACT GEOGRAPHY AND GIS SUPPLEMENTAL DATA FILES RESEARCH DATA ENCLAVE ANALYZE DATA ONLINE

SAMPLES SAMPLE DESCRIPTIONS QUESTIONNAIRES

IPUMS

HARMONIZED INTERNATIONAL CENSUS DATA FOR SOCIAL SCIENCE AND HEALTH RESEARCH

IPUMS-International is dedicated to collecting and distributing census data 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.

98 COUNTRIES – 443 CENSUSES AND SURVEYS – OVER 1 BILLION PERSON RECORDS

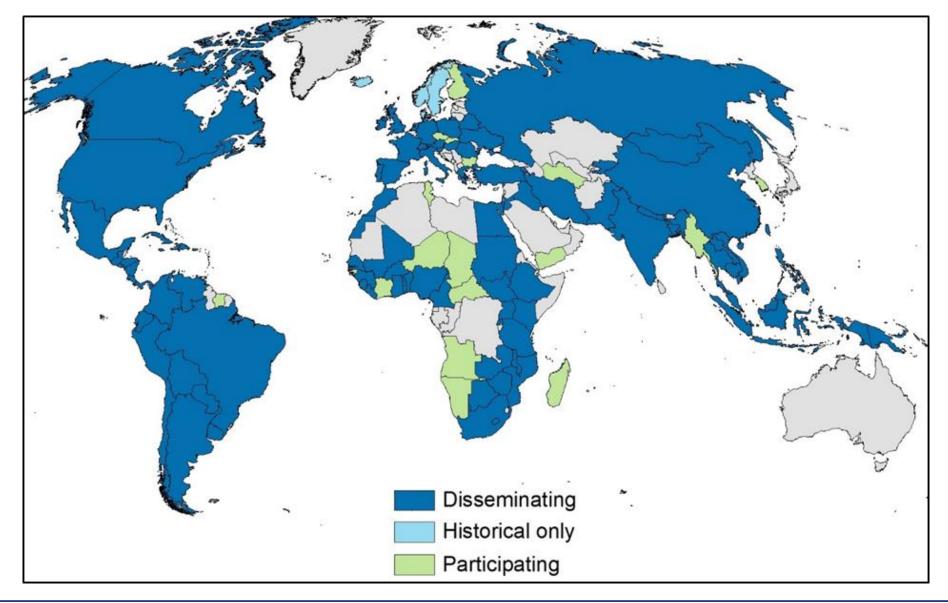
SOURCE DATA FOR IPUMS-INTERNATIONAL ARE GENEROUSLY PROVIDED BY PARTICIPATING NATIONAL STATISTICAL OFFICES



Features of IPUMS

- Census microdata samples: 1 to 10%
 - Most countries have multiple samples
- Codes are harmonized
 - No loss of detail
- Web browsing and data extraction

Global Coverage



Outline

- 1. Pre-processing
- 2. Standardization
- 3. Harmonization
- 4. Data processing
- 5. Dissemination

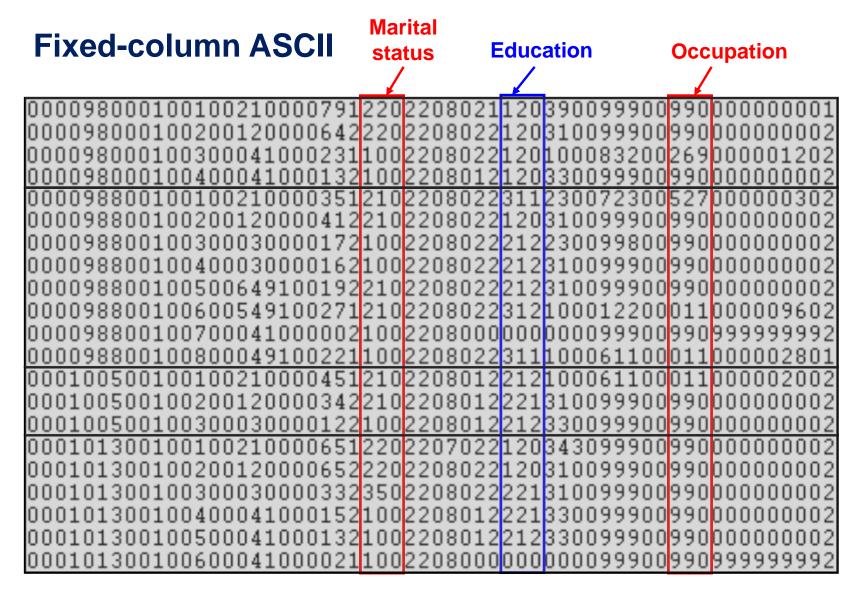


Pre-Processing



110100000 1 100 1 1 11 02 171984 1 110100000 1 100 1 1 11 12 401961 6 110100000 1 100 1 2 11 22 781923 4	42 31 2 1 6 2 59914000000000000000099999144 42 31 2 1 3 2 599 11000000000000 11999144 2 2 0 2 8 2 599 900000000000000000000000000000000	٦
Ukraine 2001 – SPSS transferr		
110100000 1 100 113 11131 211980 1	2 2 0 2 5 2 5991400000000000000099999 85 85002990 111 1020980110:	_
11010000 Consocsci.umn.edu - PuTTY		
11010000 1 1		-
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11010000 15 110101111112	15547804991331 188899991998889999111160-642705861 8C21	
291213422311112111	155478049913339919119905991911990121255-592705271 2Q11	
331127116612112122	15 <mark>547804 11331 188899991998889999145220-24170504399Y91</mark>	
382114115611111112	29 <mark>370433991321 688899992 68882007112255-594705261 2042</mark>	
432116116612112112	29 <mark>370433991321 688899992 68882007146125-29170586599Y92</mark>	
Slovenia 2011 112113	33388454 32142 388899992 38882000111245-49270524299Y91	
Households 112122	33388454 32141 388899992 38882000121145-49270582299Y91 Slovenia 2011 388899994 48882010145220-24170504399Y91	
741118113311112212	Persons 388899991998889999111155-59270583499991	
80121231121111112	38 6601 31322 288899994 28881980121260-64270524499Y91	
832115116611112122	43392882 22141 288899991998889999111135-392705841 7C31	
871337533311111112	43392882 22141 288899991998889999121235-392705241 2P41	
911221431211222123	43392882 22141 28889999199888999914520-4 170598999Y91	
962111112312112223	43392882 22141 28889999199888999914525-9 170598999Y91	
991337113412112122	47724608991321 588899991998889999111175-79270582499Y91	
1101117115612112122	47724608 51322 588899992 58881960121270-74270522499¥91	
1161225522211112111	513827851221311288899991998889999111155-592705831 3N21	
1321116116611111112	513827851221321288899993128881980121255-592705221 9A21	
1372213413311112121	513827851221311288899991998889999145130-341705841 7N21	
145121351341111111	72598956 81311 888899991998889999117260-64370524499Y91	
I 1501216513411111112	74764386 21312 288899993 28881980117155-59370584499Y91	
1881115114612112122	90369696 91311 989800001008880000117160 64470583400V01	

IPUMS Population Microdata



Researcher Data Tools

	Contents [hide]
1 a	ttach.supplement.pl
2 a	tus.reformatter.pl
3 b	and.space.checker.pl
4 c	har.diagnostics.pl
5 c	har.find.pl
6 c	heck.var.groups.pl
7 c	jr-log-parse
8 c	ommand.maker.pl
9 c	ompare.files.pl
10	compare_stages
11	copy.files.pl
12	cpsid.pl
13	cpsid.attach.b2s.pl
14	cross.quick.pl
15	data.slicer.dicer
16	dcp.csv.freq.pl
17	dcp.freq.pl
18	dcp.include.files.pl
19	delim.to.fixed.pl
20	derectangularize.pl
21	draw.sample.basic.pl
22	dup.input.code.checker.pl
23	enumeration_text_reporter
24	export_all_metadata

IPUMS

25 export_control_file
26 export_enum_materials
27 export_trans_table
28 export_var_desc
29 file.parallelism.pl
30 find_integrated_mnemonic
31 find_multisvar_tt_variables
32 freq_data_dict
33 freq.data.dict.pl
34 freq.quick.pl
35 freq_quick
36 freaky_quick
37 g-status
38 geog.sort.test.pl
39 hh.vars.on.person.record.pl
40 insert.columns.pl
41 integrated_vars_in_sample
42 ipcrip.pl
43 leftside.B.clean.pl
44 link.svars.pl
45 link_svars
46 match.files.pl
47 middle.pl
48 noncontig.check.pl
49 noncontig.fix.cps.pl
45 Honcontig.tix.cps.pr

50 record.append.pl

51 record.length.pl 52 rectangularize.pl 53 right.pad.pl 54 sample.designs.pl 55 select.hhs.pl 56 show.var.programming.pl 57 source.document.tags.checker.pl 58 sps.parse.pl 59 statfile.parse.pl 60 swap.dwellings.pl 61 svar.auditor.pl 62 svars_not_integrated 63 syntax_file_util.rb 64 tagging audit 65 tag.inventory.pl 66 tt.creator.pl 67 tt.univ.auditor.pl 68 tt.univ.reporter.pl 69 tt.updater.pl 70 tt_updater_config_constructor 71 unicon_to_mpc.pl 72 validate.xml.metadata.pl 73 var.relationships.pl

Sample and Confidentialize (1)

- 1-in-N systematic sample
- Suppress sensitive variables
- Swap households

Standardization



Kenya **1989**na 1982

.

Codebooks

C006-EA-	_{- T} year: 1982, san Length	nple: 1%, : 3 RØ	record: individu	ual, variable: 1992	: age
. соот-нно	Age in-	Line	Item	Data type and Item Len	e Signification and values
(record ty	P I anoth ?	, 1 IN	ΛΛΟΛ	NA	010001 17VVV number of the file where .
.age 2	EAU		d'eau potable eur du logem	ent 2: 3:	Eau froide seulement Eau froide et chaude Aucun point d'eau à l'intérieur du logement
Record Na					Hors logement ordinaire (DOM et France métropolitaine)
					Logement ordinaire France métropolitaine
.tem (occ	EGOUL		d'évacuation		Raccordement au réseau d'égouts
. Subitem		eaux u	isées (DOM)		Raccordement à une fosse septique
					Raccordement à un puisard
POP1					Evacuation des eaux usées à même le sol
•					Hors logement ordinaire (DOM et France métropolitaine)
P00-LIN					Logement ordinaire France métropolitaine
P10-REL	ELEC		cité dans le		Avec électricité
PIU-REL		logeme	ent (DOM)		Sans électricité
					Hors logement ordinaire (DOM et France métropolitaine)
				Z:	Logement ordinaire France métropolitaine
	EMPL	Condit	ion d'emploi		: En contrat d'apprentissage
					: Placés par une agence d'intérim
				13	: Emplois-jeunes, CES, contrats de qualification
					: Stagiaires rémunérés en entreprise
				15	: Autres emplois à durée limitée, CDD, contrat court, vacataire
•				16	: Emplois sans limite de durée, CDI, titulaire de la fonction publique
P11-SEX				21	: Non salariés : Indépendants
				22	: Non salariés : Employeurs
					: Non salariés : Aides familiaux
P12-AGE				ZZ	: Sans objet
	reş				. absent for a long time:
	4: Li				- for working 4
	5: U				- for studies 5
	reş				- other reason 6

IPUMS Data Dictionary

Translate

Dominican Republic 1970

Name	Column	Width	Variable Label	Code	Label
SEX	40	1	Sex		
				1	Varon
				2	Hembra
RELATE	41	1	Relationship		
				1	Jefe
				2	Conyuge (esposa)
				3	Companera
				4	Hijo
				5	Conyuge del hijo
				6	Companera del hijo
				7	Otro parentesco
				8	Domestica
				9	No pariente
MARST	42	1	Marital status		
				1	Soltero (nunca casado)
				2	Casado
				3	Viudo
				4	Divorciado
				5	Separado legalmente
				6	Anulado
CONS	43	1	Consensual union		
				1	Si
				2	No
				0	Menores de 15 anhos
LIT	44	1	Literacy		
				1	Si
				2	No
				3	No responde
				0	No aplica

IPUMS Data Dictionary

Do	mini	car	n Republ	ic 1	970		Collect Freqs	Source Variables
Name	Column	Width	Variable Label	Code	Label	- Translated Label		
SEX	40	1	Sex					
				1	Varon	Male		
				2	Hembra	Female		
RELATE	41	1	Relationship					
				1	Jefe	Head of household		
				2	Conyuge (esposa)	Spouse		
				3	Companera	Partner		
				4	Hijo	Child		
				5	Conyuge del hijo	Spouse of child		
				6	Companera del hijo	Partner of child		
				7	Otro parentesco	Other relative		
				8	Domestica	Servant		
				9	No pariente	Not related		
					·	[no label]		
MARST	42	1	Marital status					
				1	Soltero (nunca casado)	Single, never married	k	
				2	Casado	Married		
				3	Viudo	Widowed		
				4	Divorciado	Divorced		
				5	Separado legalmente	Legally separated		
				6	Anulado	Annulled		
						[no label]		
						[no label]		
						[no label]		
CONS	43	1	Consensual union					
				1	Si	Yes		
				2	No	No		
				0	Menores de 15 anhos	Under age 15		
LIT	44	1	Literacy					
				1	Si	Yes		
				2	No	No		
				3	No responde	Undeclared		
				0	No aplica	Not applicable		

Data Dictionary Tools

IPUMS

	_	
<u>D</u> ata dictionaries	•	Show all rows or just variables
Source and input variables	Þ	<u>A</u> udit Metadata
Translation tables	Þ	<u>N</u> ew workbook
Control files	Þ	<u>F</u> ormat
Utilities	Þ	<u>F</u> ormat (svar style)
Export for DCP (new workflow)	Þ	Sort this svar value <u>r</u> ows
Save <u>s</u> ample designs as text		Sort all svar value <u>r</u> ows
Compute percentage distribution		Create OutputDataType Column
Indent or outdent output labels		Tagging view
<u>O</u> pen file		Import Enumeration Tags
<u>C</u> ommand line		<u>A</u> utopopulate D Tags
<u>B</u> atch mode	Þ	Run <u>a</u> ll checks
Version		Check <u>c</u> olumn sequence
Troubleshoot toolkit	Þ	Check for long variable names
		Check duplicate variable names
		Check duplicate source variables
		Check for <u>m</u> issing info
		Check for non-numeric input codes
		Check for <u>d</u> uplicate values
		Check for consistency of var \underline{w} idth to column value
		Create syntax file <u>Y</u> AML
		Make SPSS syntax for <u>u</u> niverse checking

Check for small cells

Adjust column locations

Make metadata for leftside-B cleaning

Get frequencies (recommended)

Get frequencies (old Perl method)

IPUMSI: Update Labor Force DDs

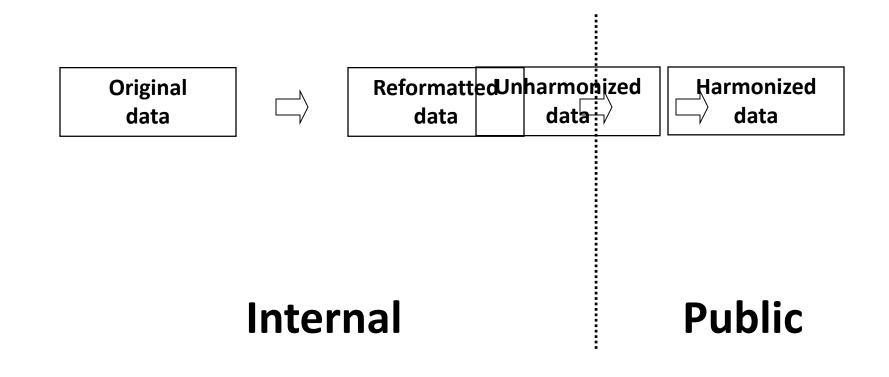
IPUMSI: Create New Labor Force DDs

Confidentialize (2)

- Combine small categories
- Top-code and bottom-code
- Combine areas < 20,000 population

Source Variable Evolution

Redesigned IPU0/igin/http://www.ipurce.variables



Documentation to Metadata



Questionnaires

11. NÚMERO DE HIJOS

Esta es una pregunta que sólo harás a las mujeres que tienen 12 años cumplidos o más.

-

Si el informante te contesta que la mujer no ha tenido ningún hijo o hija nacido vivo, anota la respuesta en el cuestionario y pasa a la pregunta 12. ESTADO ¿Cuántos de éstos viven CIVIL.

Si la respuesta es que sí ha tenido alguna hija o hijo nacido vivo, pregunta por el total de hijos nacidos vivos y el total de hijos vivos actualmente.

Recuerda que se trata de todos los hijos e hijas nacidos vivos, sin importar si viven con la madre o no. Asegúrate que el total de hijas e hijos que ha tenido la mujer empadronada, sea igual o mayor que el de los hijos e hijas vivos actualmente. De ser mayor el número de hijos e hijas vivos actualmente, acláralo con el informante y corrige.



IPUMS

00000

Person

What

Person

11. NÚMERO DE HIJOS

PARA MUJERES

DE 12 AÑOS O MÁS ¿Ha tenido alguna hija o hijo

Marque con "X" un solo circula

ST CONTESTA QUE "SI" PREGLIWTE: En total, ¿cuántas hijas e

hijos que nacieron vivos ha

South runs marning

Aniate can numera

NO O Z

nacido vivo?

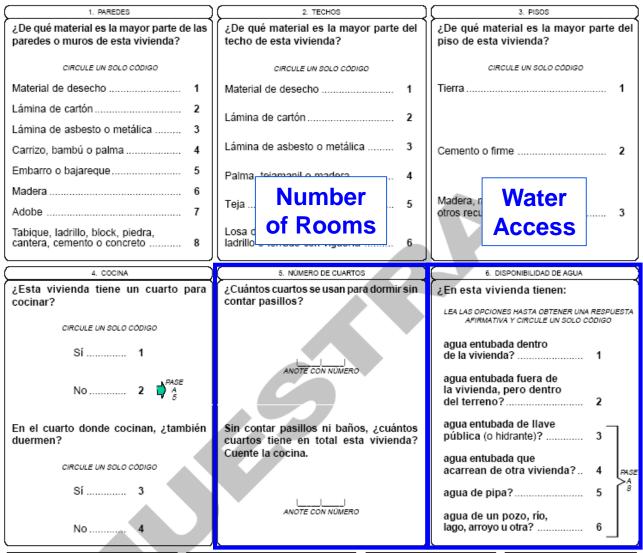
tenido?

actualmente?

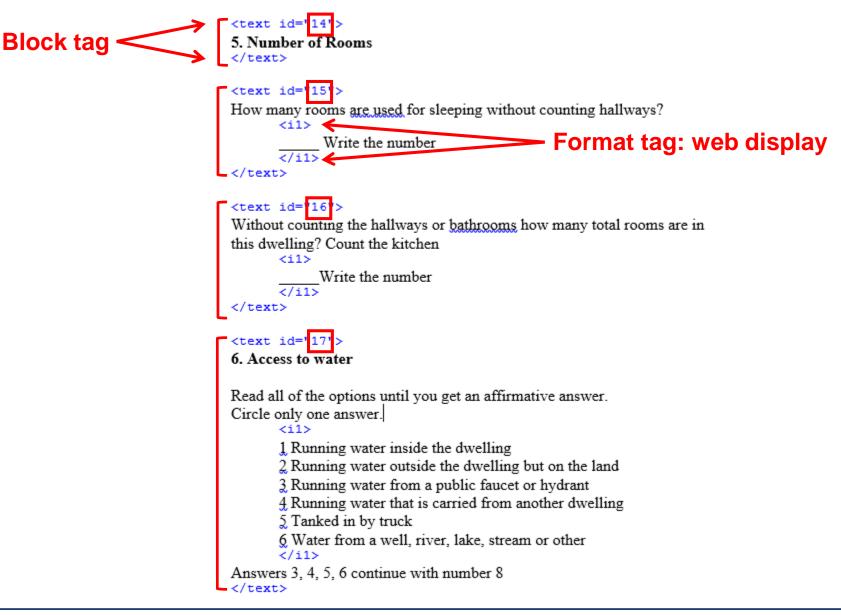
SI () 1

Convert Questionnaires to Metadata (Mexico 2000)

I. Características de la vivienda



Questionnaire Metadata: XML



Connect Data Dictionary to Questionnaire

Var	Col	Wid	Value		ValueLabel	Freq	Svar	Universe	Тад
bedrms	oedrms 69 2 N		Νι	mber of bedrooms		MX2000_0023	All households	15	
			1		1	915,989			
			2		2	833,221			
			3		3	408,373			
			4		4	106,946			
			5		5	24,801			
			6		6	7,237			
			7		7	1,987			
			8		8	877			
			9		9 or more	368			
			99		Missina	11.613			
rooms	71	2		Тс	tal number of rooms		MX2000_0024	All households	16
			1		1	238,473			
			2		2	508,621			
			3		3	548,521			
			4		4	468,404			
			5		5	282,985			
			6		6	130,773			
			7		7	58,002			
			8		8	30,649			
			9		9 or more	13,218			
			99		Missina	17.280			
water	73	1		A١	ailability of water		MX2000_0025	All households	17
			1		Piped water inside the dwelling	1,138,262			
			2		Piped water outside of the dwelling, but wit	697,912			
			3		Piped water from a public tap (or hydrant)	68,212			
			4		Piped water brought in from another dwellin	52,041			
			5		Tanked in by truck	46,147			
			6		Water from a well, river, lake, stream or oth	287,654			
			9		Not specified	21,807			

Harmonization



Data: Variable Harmonization

Marital Status: IPUMS-International

Bangladesh 2011

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

Mexico 1970

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

Kenya 1999

- 1 = Never married
- 2 = Monogamous
- 3 = Polygamous
- 4 = Widowed
- 5 = Divorced
- 6 = Separated

Translation Table

	Input	
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	

Translation Table

Harmonized

Code Label

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

Translation Table

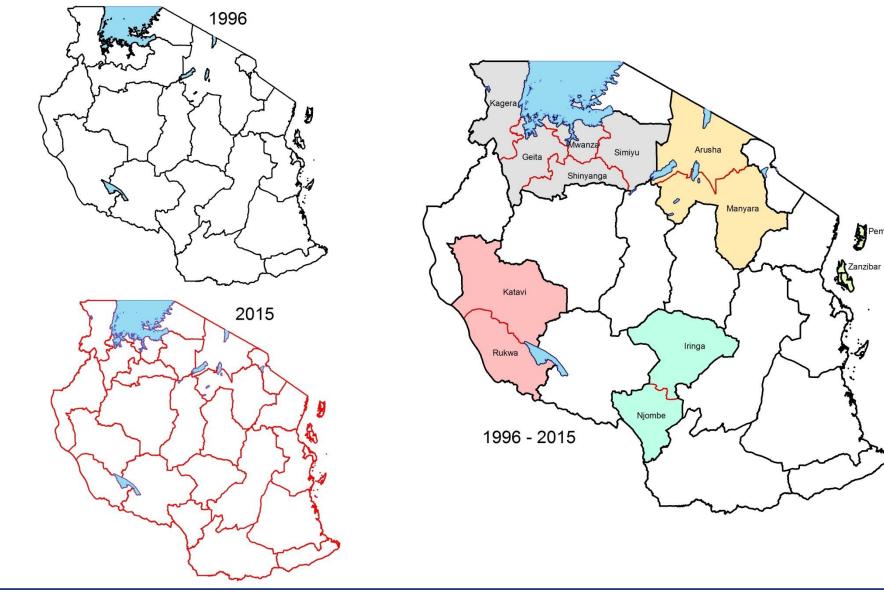
H	larmonized	Input				
Code	Label	Bangladesh 2011	Mexico 1970	Kenya 1999		
100	Single	1 = Unmarried	8 = Single	1 = Never married		
200	Married or in union	2 = Married				
210	Married, formally					
211	Civil		2 = Married, civil			
212	Religious		3 = Married, religious			
213	Civil and religious		1 =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

Variable-level Programming

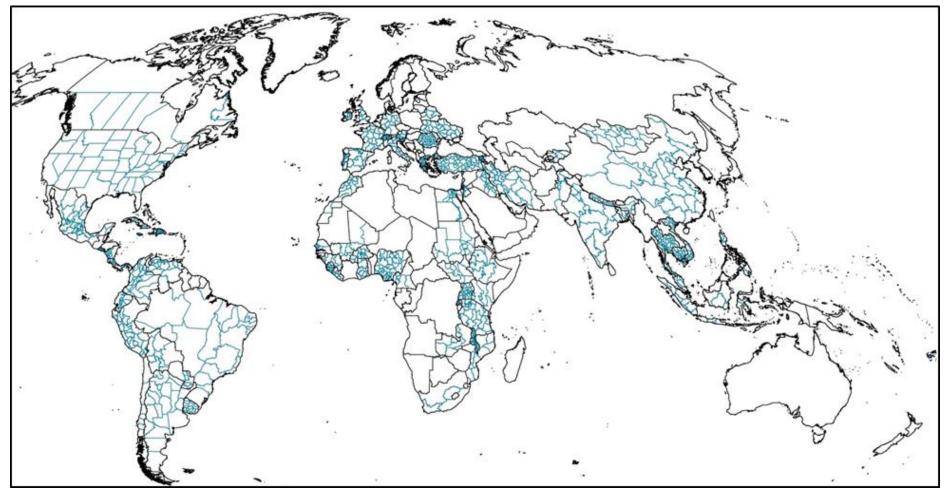
Age at First Marriage

```
long long International Conversion Rules::agemarr(int ln) {
    if (calculated[ln][ipumsi agemarr]) return result[ln][ipumsi agemarr];
    long long a=rc(ipumsi agemarr,ln);
    switch(dataSet){
      case es1981a:{
            a = es1981a_0430(ln) - (1981 - es1981a_0424(ln));
           if (a < 10 || a > 98) a = 99;
            if (es1981a 0424(ln) == 9999)
            a = 0;
       }break:
        case gr2001a:{
            int z = gr2001a 0438(ln);
            if (gr2001a 0438(ln) == 1921) z = originalValue(ipumsi gr2001a 0438,ln);
            a = originalValue(ipumsi gr2001a 0450,ln) - (2001 - z);
            if (a < 10 || a > 98) a = 99;
            if (gr2001a 0438(ln) == 9999) a = 0;
            if (a > 56 && a != 99) a = 56; // top code
        }break;
        case ro1992a:{
            a = ro1992a 0434(ln) - (1992 - ro1992a 0426(ln));
            if (a < 10 || a > 98) a = 99;
            if (ro1992a 0426(ln) == 9999)
            a = 0;
        }break;
```

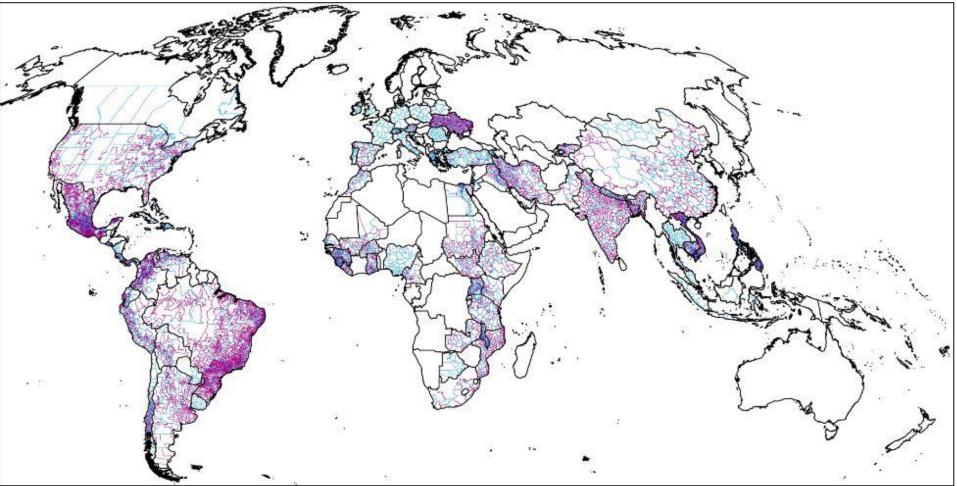
Geographic Harmonization



Global Harmonized Geography 1st Level



Global Harmonized Geography 2nd Level

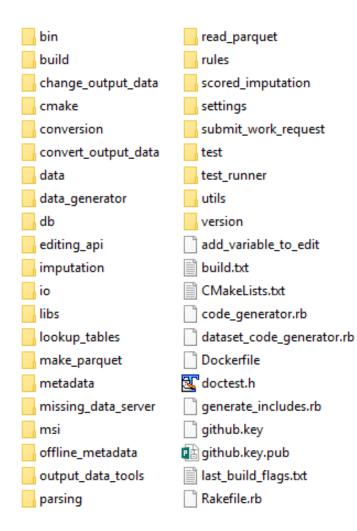


1,632 1st-level units 12,789 2nd-level units

Data Processing



Data Conversion Program



Custom C++ Application

Batch Data Run

📴 ls1996a_ipumsi.dat.gz 📴 ls2006a_ipumsi.dat.gz 📴 ma1982a_ipumsi.dat.gz 📴 ma1994a_ipumsi.dat.gz 📴 ma2004a_ipumsi.dat.gz 📴 ml1987a_ipumsi.dat.gz 📴 ml1998a_ipumsi.dat.gz 📴 ml2009a_ipumsi.dat.gz 📴 mn 1989a_ipumsi.dat.gz 📴 mn2000a_ipumsi.dat.gz 📴 mw1987a_ipumsi.dat.gz 📴 mw1998a_ipumsi.dat.gz 📴 mw2008a_ipumsi.dat.gz 📴 mx1960a_ipumsi.dat.gz 🖭 mx1970a_ipumsi.dat.gz 🖭 mx1990a_ipumsi.dat.gz 📴 mx1995a_ipumsi.dat.gz 📴 mx2000a_ipumsi.dat.gz 🖭 mx2005a_ipumsi.dat.gz 📴 mx2010a_ipumsi.dat.gz 📴 mx2015a_ipumsi.dat.gz 📴 my1970a_ipumsi.dat.gz 📴 my1980a_ipumsi.dat.gz 📴 my1991a_ipumsi.dat.gz 🖭 my2000a_ipumsi.dat.gz

📴 mz1997a_ipumsi.dat.gz 📴 mz2007a_ipumsi.dat.gz 📴 ng2006a_ipumsi.dat.gz 😐 ng2007a_ipumsi.dat.gz 📴 ng2008a_ipumsi.dat.gz 📴 ng2009a_ipumsi.dat.gz 📴 ng2010a_ipumsi.dat.gz 📴 ni 1971 a_i pumsi. dat.gz 📴 ni1995a_ipumsi.dat.gz 📴 ni2005a_ipumsi.dat.gz 🖭 nl1960a_ipumsi.dat.gz 🖭 nl1971a_ipumsi.dat.gz 🖭 nl2001a_ipumsi.dat.gz 🖭 nl2011a_ipumsi.dat.gz 🖳 no1801a_ipumsi.dat.gz 🖳 no1865a_ipumsi.dat.gz 😐 no1875a_ipumsi.dat.gz 🖭 no1900a_ipumsi.dat.gz 💷 no 1910a_ipumsi.dat.gz 💷 np2001a_ipumsi.dat.gz 💷 np2011a_ipumsi.dat.gz 💷 pa1960a_ipumsi.dat.gz 💷 pa1970a_ipumsi.dat.gz 📴 pa1980a_ipumsi.dat.gz 📴 pa1990a_ipumsi.dat.gz

📴 pa2000a_ipumsi.dat.gz 📴 pa2010a_ipumsi.dat.gz 📴 pe1993a_ipumsi.dat.gz 📴 pe2007a_ipumsi.dat.gz 📴 pg1980a_ipumsi.dat.gz 📴 pg1990a_ipumsi.dat.gz 📴 pg2000a_ipumsi.dat.gz 📴 pg2011a_ipumsi.dat.gz 💷 ph1990a_ipumsi.dat.gz 💷 ph1995a_ipumsi.dat.gz 📴 ph2000a_ipumsi.dat.gz 📴 ph2010a_ipumsi.dat.gz 📴 pk1973a_ipumsi.dat.gz 💷 pk1981a_ipumsi.dat.gz 🖳 pk1998a_ipumsi.dat.gz 🖳 pl1978a_ipumsi.dat.gz 🖳 pl1988a_ipumsi.dat.gz 😐 pl2002a_ipumsi.dat.gz 💷 pl2011a_ipumsi.dat.gz 💷 pr1970a_ipumsi.dat.gz 💷 pr1980a_ipumsi.dat.gz 💷 pr1990a_ipumsi.dat.gz 💷 pr2000a_ipumsi.dat.gz 💷 pr2005a_ipumsi.dat.gz 📴 pr2010a_ipumsi.dat.gz

📴 ps1997a_ipumsi.dat.gz 📴 ps2007a_ipumsi.dat.gz 📴 pt1981a_ipumsi.dat.gz 📴 pt1991a_ipumsi.dat.gz 📴 pt2001a_ipumsi.dat.gz 📴 pt2011a_ipumsi.dat.gz 📴 py1962a_ipumsi.dat.gz 📴 py1972a_ipumsi.dat.gz 💷 py1982a_ipumsi.dat.gz umsi.dat.gz 📴 py2002a_ipumsi.dat.gz 🖭 ro1977a_ipumsi.dat.gz 🖭 ro1992a_ipumsi.dat.gz 📴 ro2002a_ipumsi.dat.gz 🖭 ro2011a_ipumsi.dat.gz 🖭 ru2002a_ipumsi.dat.gz 🖳 ru2010a_ipumsi.dat.gz 🖭 rw1991a_ipumsi.dat.gz 🖭 rw2002a_ipumsi.dat.gz 🖭 rw2012a_ipumsi.dat.gz 💷 sd2008a_ipumsi.dat.gz 🖭 se1880a_ipumsi.dat.gz 🖭 se1890a_ipumsi.dat.gz 📴 se1900a_ipumsi.dat.gz 💷 se1910a_ipumsi.dat.gz

🖭 si2002a_ipumsi.dat.gz 📴 sl2004a_ipumsi.dat.gz 📴 sn 1988a_ipumsi.dat.gz 📴 sn2002a_ipumsi.dat.gz 🖭 ss2008a_ipumsi.dat.gz 🖭 sv1992a_ipumsi.dat.gz 🖭 sv2007a_ipumsi.dat.gz 📴 tg1960a_ipumsi.dat.gz 💷 tg1970a_ipumsi.dat.gz 💷 tg2010a_ipumsi.dat.gz 🖭 th1970a_ipumsi.dat.gz 📴 th 1980a_ipumsi.dat.gz 🖭 th1990a_ipumsi.dat.gz 📴 th2000a_ipumsi.dat.gz 🖭 tr1985a_ipumsi.dat.gz 🖭 tr1990a_ipumsi.dat.gz 📴 tr2000a_ipumsi.dat.gz 🖭 tt1970a_ipumsi.dat.gz 🖳 tt1980a_ipumsi.dat.gz 🖭 tt1990a_ipumsi.dat.gz 💷 tt2000a_ipumsi.dat.gz 💷 tt2011a_ipumsi.dat.gz 🖭 tz1988a_ipumsi.dat.gz 📴 tz2002a_ipumsi.dat.gz 🖭 tz2012a_ipumsi.dat.gz

Dissemination



Data Discovery: Variable Availability

(Number of samples)

Relationship to head	430	Religion	174
Age	443	Language	136
Sex	443	Ethnicity	103
Marital status	435	Race	51
Age at first marriage	42	School attendance	279
Children ever born	241	Literacy	235
Children surviving	184	Educational attainment	389
Mother's mortality status	76	Years of schooling	204
Country of birth	320	Employment status	362
Place of birth	316	Class of worker	370
Citizenship	243	Occupation	386
Year of immigration	125	Industry	354
Migration, international	201	Hours worked weekly	137
Migration, internal	276	Total income	41
Disability	152	Wage income	46

Dissemination System

IPUMS INTERNATIONAL

HOME | SELECT DATA | MY DATA | FAQ | HELP



PROJECT

ABOUT IPUMS-I PEOPLE HOW TO CITE IPUMS-I USER REGISTRATION AND LOGIN

DATA

BROWSE AND SELECT DATA DOWNLOAD YOUR DATA EXTRACT GEOGRAPHY AND GIS SUPPLEMENTAL DATA FILES RESEARCH DATA ENCLAVE ANALYZE DATA ONLINE

IPUMS

SAMPLE DESCRIPTIONS QUESTIONNAIRES VARIANCE ESTIMATION

HARMONIZED INTERNATIONAL CENSUS DATA FOR SOCIAL SCIENCE AND HEALTH RESEARCH

IPUMS-International is dedicated to collecting and distributing census data 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.

98 COUNTRIES - 443 CENSUSES AND SURVEYS - OVER 1 BILLION PERSON RECORDS

SOURCE DATA FOR IPUMS-INTERNATIONAL ARE GENEROUSLY PROVIDED BY PARTICIPATING NATIONAL STATISTICAL OFFICES



Data Browsing and Extraction

IPUMS	DATA CART YOUR DATA EXTRACT
INTERNATIONAL HOME SELECT DATA MY DATA FAQ HELP	O VARIABLES O SAMPLES

SELECT HARMONIZED VARIABLES								
HOUSEHOLD +	PERSON	•	A-Z 🚽	-	SEARCH			



HARMONIZED VARIABLES
 SOURCE VARIABLES

HELP DISPLAY OPTIONS COUNTRY ABBREVIATIONS

Select Samples

SUBMIT SAMPLE SELECTIONS

Argentina	R <u>2010</u>	<u>2001</u>	🗆 <u>1991</u> 🕕	□ <u>1980</u>	□ <u>1970</u>
🗖 Armenia	✓ 2011	<u>2001</u>			
🗆 Austria	✓ 2011	<u>2001</u>	□ <u>1991</u>	<u>1981</u>	<u>1971</u>
Bangladesh	✓ 2011	<u>2001</u>	<u>1991</u>		
Belarus		<u>2009</u>	<u>1999</u>		
🔲 Bolivia		<u>2001</u>	<u>1992</u>		<u>1976</u>
🗆 Botswana	✓ 2011	<u>2001</u>	<u>1991</u>	□ <u>1981</u>	
🔲 Brazil	✓ 2010	<u>2000</u>	🗆 <u>1991</u>	□ <u>1980</u>	<u>1970</u>
🔲 Burkina Faso		<u>2006</u>	□ <u>1996</u>	<u>1985</u>	
🗖 Cambodia		<u> </u>	<u>1998</u>		
Cameroon		<u>2005</u>		<u>1987</u>	<u>1976</u>
🗖 Canada	✓ 2011	🗆 <u>2001</u> 🛈	🗆 <u>1991</u> 🕕	🗆 <u>1981</u> 🛈	🗆 <u>1971</u> 🛈
Chile			<u>1992</u>	□ <u>1982</u>	<u>1970</u>
China		✓ 2000	□ <u>1990</u>	□ <u>1982</u>	

Variable Browsing

SELECT HARMONIZED VARIABLES	CHANGE SAMPLES	 HARMONIZED VARIABLES SOURCE VARIABLES
TECHNICAL F TECHNICAL PERSON		
GROUP QUA CONSTRUCTED FAMILY INTERRELATIONSHIP		
GEOGRAPHY DEMOGRAPHIC		
GEOGRAPHY FERTILITY AND MORTALITY		
GEOGRAPHY NATIVITY AND BIRTHPLACE		
HOUSEHOLD ETHNICITY AND LANGUAGE		
UTILITIES EDUCATION		
APPLIANCES, WORK		
DWELLING CI INCOME		
OTHER HOU! MIGRATION		
CONSTRUCT DISABILITY		

Select Variables

DATA CART YOUR DATA EXTRACT

3 VARIABLES 9 SAMPLES

SELECT HARMONIZED VARIABLES HOUSEHOLD + PERSON + A-Z + SEARCH CHANGE SAMPLES

HARMONIZED VARIABLES
 SOURCE VARIABLES

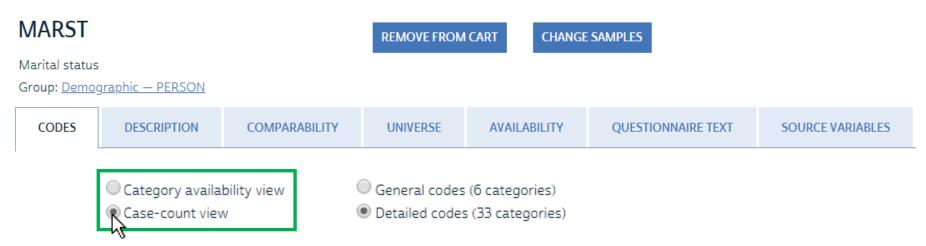
VIEW CART

🕀 DEMO	++ DEMOGRAPHIC VARIABLES PERSON [TOP]											
<u>Add to</u> <u>cart</u>	Variable	Variable Label	argent 2010	armen 2011	austria 2011	bangl 2011	botsw 2011	brazil 2010	canada 2011		china 2000	
Ð	<u>RELATE</u>	Relationship to household head	Х	Х	1.1	Х	Х	Х	Х	Х	Х	
\mathbf{k}	AGE	Age	Х	Х	Х	Х	Х	Х	Х	Х	Х	
S	AGE2	Age, grouped into intervals	Х	Х	Х	Х	Х	Х	Х	Х	Х	
	<u>SEX</u>	Sex	Х	Х	Х	Х	Х	Х	Х	Х	Х	
	MARST	Marital status	1.1	Х	Х	Х	Х	Х	Х	Х	Х	
•	EMARST	Marital status, Europe	1.1		Х							
•	CONSENS	Consensual union	1.1	Х	1.1		Х	Х	Х	Х		
•	AGEMARR	Age at first marriage or union	1.1								Х	
Ð	MARRYR	Year of first marriage	1.1		1.1						Х	
Ð	BIRTHYR	Year of birth	Х	Х							Х	
Ð	<u>BIRTHMO</u>	Month of birth	Х	Х	1.1						Х	





Variable Page: Marital Status



Co	ode Label		armen 2011	austria 2011	bangi 2011	botsw 2011	brazil 2010	canada 2011
0	000 NIU (not in universe)			1.1		341		
1	00 SINGLE/NEVER MARRIED	1	26,363	362,592	3,436,322	136,055		370,202
1	10 Engaged							
1	11 Never married and never col	nabited	1.1				4,359,886	
2	200 MARRIED/IN UNION		1.1		3,499,333		17,654	· · · ·
2	210 Married, formally	1	40,281	354,741		27,101		366,534
2	211 Civil		1.1				683,460	
_	212 Religious		558				177,448	
	213 Civil and religious		1.1				1,820,016	
	214 Civil or religious		1.1					
2	215 Traditional or customary		1.1					
_	216 Monogamous		1.1					
2	217 Polygamous		1.1					
2	219 Married, spouse absent (historical samples)	1.1					
2	20 Consensual union		6,571			30,482	1,480,065	88,381
3	300 SEPARATED, DIVORCED, OR	SPOUSE ABSENT						
3	310 Separated or divorced		1.1	1.1	26,406	1.1		1.1

Variable Page: Marital Status

MARST

REMOVE FROM CART

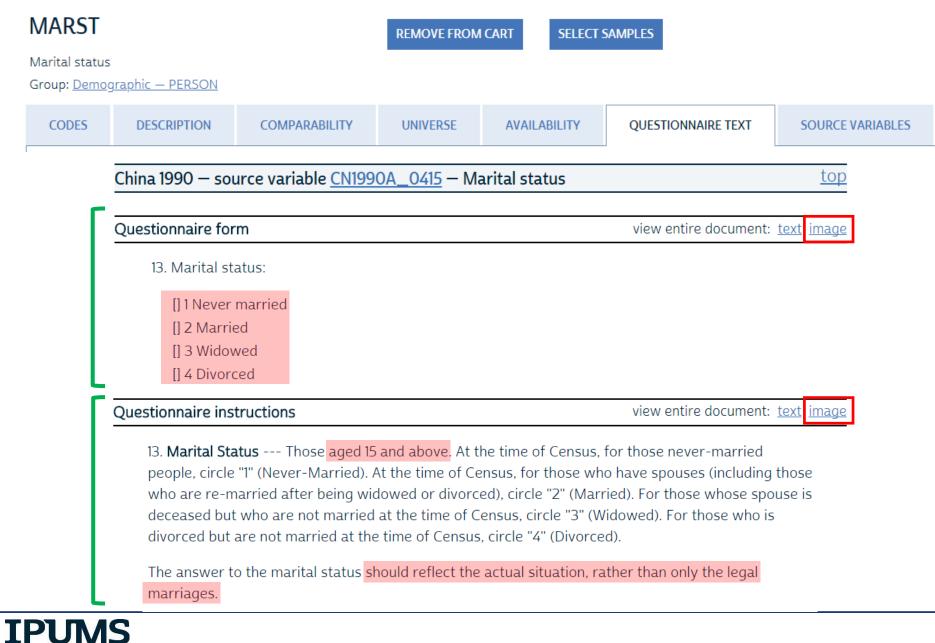
CHANGE SAMPLES

Marital status

Group: <u>Demographic – PERSON</u>

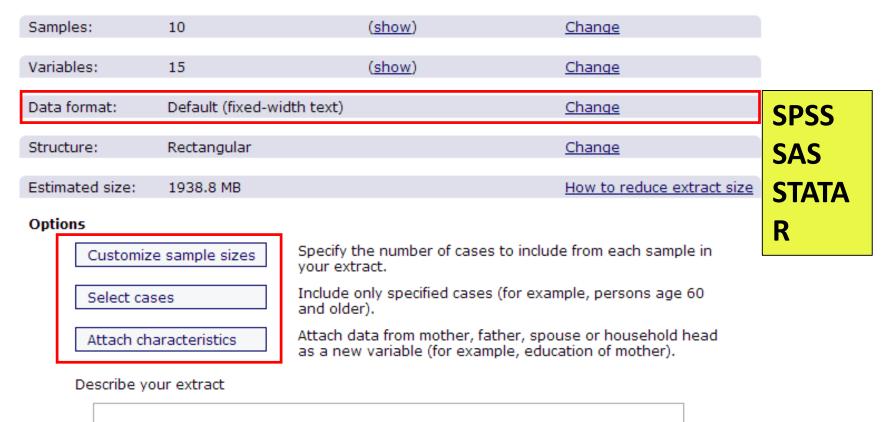
CODES	DESCRIPTION	COMPARABILITY	LITY UNIVERSE AVAILABILITY QUESTIONNAI		QUESTIONNAIRE TEXT	SOURCE VARIABLES		
1	<u>Armenia 2001</u>	<u>India 1987</u>		<u>Iraq 1997</u>	Pal	Palestine 1997		
	<u>Armenia 2011</u>	<u>India 199</u>	<u>93</u>	<u>Israel 1972</u>	Pale	estine 2007		
	<u>Bangladesh 1991</u>	<u>India 199</u>	<u>99</u>	<u>Israel 1983</u>	<u>Phil</u>	ippines 1990		
	<u>Bangladesh 2001</u>	<u>India 20</u>	<u>India 2004</u>		<u>Phil</u>	ippines 1995		
	<u>Bangladesh 2011</u>	<u>India 20</u>	<u>India 2009</u>		<u>)4 Phil</u>	<u>ippines 2000</u>		
	<u>Cambodia 1998</u>	Indonesia 1971		<u>Kyrgyz Rep</u>	oublic 1999 Tha	<u>iland 1970</u>		
	<u>Cambodia 2008</u>	Indones	Indonesia 1976		oublic 2009 Tha	Thailand 1980		
	<u>China 1982</u>	Indones	<u>ia 1980</u>	<u>Malaysia 19</u>	1 <u>70</u> <u>Tha</u>	<u>Thailand 1990</u>		
	<u>China 1990</u>	Indones	<u>ia 1985</u>	<u>Malaysia 19</u>	180 <u>Tha</u>	<u>iland 2000</u>		
	<u>China 2000</u>	Indones	<u>ia 1990</u>	<u>Malaysia 19</u>	<u>91 Tur</u>	<u>key 1985</u>		
	<u>Fiji 1966</u>	Indones	<u>ia 1995</u>	<u>Malaysia 2</u>	<u></u>	<u>key 1990</u>		
	<u>Fiji 1976</u>	Indones	<u>ia 2000</u>	Mongolia 19	<u>989</u> <u>Tur</u>	<u>key 2000</u>		
	<u>Fiji 1986</u>	Indones	<u>ia 2005</u>	<u>Mongolia 2</u>	<u>000</u> <u>Vie</u>	tnam 1989		
	<u>Fiji 1996</u>	Indones	<u>ia 2010</u>	<u>Pakistan 19</u>	<u>73</u> <u>Viet</u>	tnam 1999		
	<u>Fiji 2007</u>	<u>Iran 200</u>	<u>)6</u>	<u>Pakistan 19</u>	<u>81 Vie</u> t	<u>Vietnam 2009</u>		
	<u>India 1983</u>	<u>Iran 201</u>	1	<u>Pakistan 19</u>	<u>98</u>			

Variable Page: Marital Status



Extract Summary

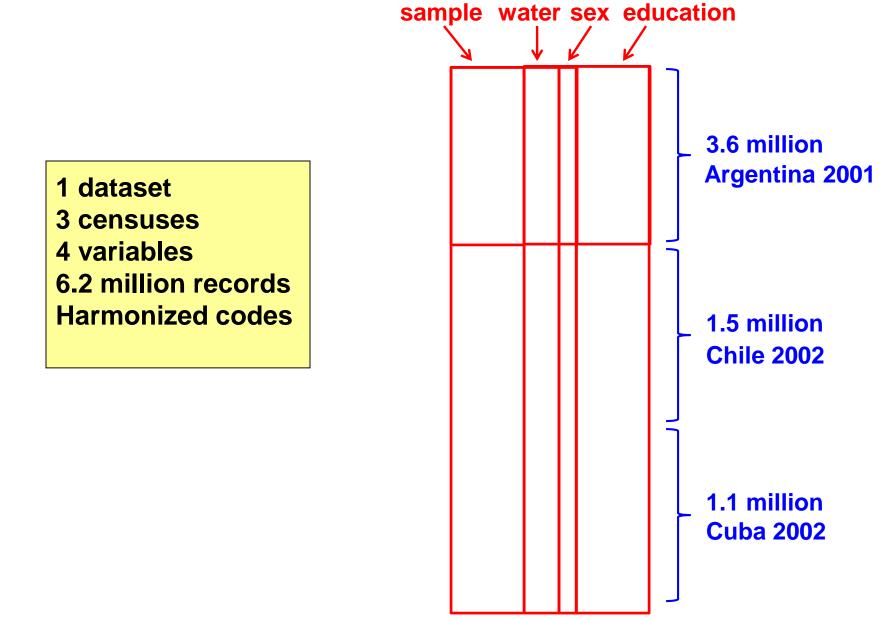
Extract Request (help)







Pooled Data Extracts



Online Analysis



France 1962-2011 Education

SDA	<u>Help</u>	Accessibility mode	Study: France	1962-2011
-----	-------------	--------------------	---------------	-----------

Analysis Create Variables

Codebook

Variable S	election
Selected:	View
Copy to:	Row Col Ctrl Filter
	Mode Append Replace

 Household variables
Technical Household
Group Quarters
Geography: Global
Geography: F-N
Household Economic
Utilities
Appliances, Mechanicals, Other Amenities
Dwelling Characteristics
Constructed Household
Person variables
Technical Person
Constructed Family Interrelationship
Demographic
Mativity and Birthplace
Education
Work
Migration: Global
Migration: F-N
Migration: Retiring
. r Dissbility

Tables	Means	Correl. matrix	Comp. correl.	Regression	Logit/Probit	List values					
SDA Frequencies/Crosstabulation Program Help: General / Recoding Variables											
Row:		edattain			(Required)						
Column	:	year									
Control:	0										
Selectio	n Filter(s):	0									
Weight:	0	perwt - Person	weight •								
• Outp	out Options										
Chai	rt Options										
 Deci 	mal Options										
Run the Table Clear Fields											

🕨 🕋 Disability

France 1962-2011 Education

	Frequency Distribution										
Cells contain: - Column percent						year					
		1962 1962	1968 1968	1975 1975	1982 1982	1990 1990	1999 1999	2006 2006	2011 2011	ROW TOTAL	
	0: NIU (not in universe)	28.4	27.0	25.9	23.9	21.8	17.9	17.3	17.3	22.0	
	1: Less than primary completed	39.6	34.9	28.7	29.3	22.2	16.6	12.8	11.4	23.4	
edattain	2: Primary completed	22.8	24.9	25.2	21.8	22.6	21.9	20.6	18.8	22.1	
euallain	3: Secondary completed	7.6	10.9	15.6	19.5	24.6	29.8	31.5	32.4	22.4	
	4: University completed	1.7	2.3	4.7	5.5	8.7	13.9	17.8	20.2	10.1	
	COL TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

56 million cases in 10 seconds



TRUME TRUME

Thank you!

sobek@umn.edu ipums.org

