IPUMS – I: Where in the World are Puerto Ricans?

Exercise 1

OBJECTIVE: Gain an understanding of how the IPUMS-International dataset is structured and how it can be leveraged to explore your research interests.

4/15/2013

Research Questions

How long on average do Puerto Ricans live abroad? Are they married to Puerto Ricans or others? What kind of households do they live in?

Objectives

- Create and download an IPUMS data extract
- Decompress data file and read data into SPSS
- Analyze the data using sample code
- Validate data analysis work using answer key

IPUMS Variables

- BPLCTRY: Country of birth
- BPLCTRY_SP: Spouse's country of birth
- YRSIMM: Years since immigrated
- HHTYPE: Household type
- CHBORN: Children ever born
- CNTRY: Country

SPSS Code to Review

Code	Purpose
compute	Creates a new variable
freq	Displays a simple tabulation and frequency of one variable
crosstabs	Displays a cross-tabulation for up to 2 variables and a control
~=	Not equal to

Review Answer Key (page 12)

Common Mistakes to Avoid

1 Excluding cases you don't mean to. Avoid this by turning off weights and select cases after use, otherwise they will apply to all subsequent analyses

2 Terminating commands prematurely or forgetting to end commands with a period (.) Avoid this by carefully noting the use of periods in this exercise

Registering with IPUMS

Go to http://international.ipums.org, click on User Registration and Login and Apply for access. On login screen, enter email address and password and submit it!

Step 1

Make an Extract

- Go back to homepage and go to Select Data

- Click the Select Samples box and check the boxes for Chile 2002, Colombia 2005, Costa Rica 2000, Mexico 2010, Panama 2000, and Venezuela 2001 samples

- Click the Submit sample selections box

- Using the drop down menu or search feature, select the following variables:

> BPLCTRY: Country of birth
>
> YRSIMM: Years since immigrated
>
> HHTYPE: Household type
>
> CHBORN: Children ever born

- Click the green VIEW CART button under your data cart

- Review variable selection

- Click the green Create Data Extract button

- Go to "Select Cases", select BPLCTRY and click Submit

...

Step 2

Request the Data

Select cases ([help](#))

Choose variables for which to select specific cases.

	Variable	Label
☐	URBAN	Urban-rural status
☐	HHTYPE	Household classification
☐	CHBORN	Children ever born
☑	BPLCTRY	Country of birth

Submit

▪ Choose only Puerto Rico from the list, and choose "Include all persons in the household of person meeting case selection criteria ".

Select cases (help)

Selection individuals or households

○ Include only those persons meeting case selection criteria
◉ Include all persons in the household of person meeting case selection criteria

BPLCTRY Country of birth

```
21130 Haiti
21140 Jamaica
21150 Martinique
21160 Montserrat
21170 Netherlands Antilles
21180 Puerto Rico
21190 St. Kitts-Nevis
21200 St. Croix
21210 St. John
21220 St. Lucia
21230 St Thomas
```

`Submit`

▪ Click Submit, then go to "Attach Characteristics". Check the box next to BPLCTRY and under Spouse. Click Submit.

Variable	Head	Father	Mother	Spouse
PERNUM	☐	☐	☐	☐
WTPER	☐	☐	☐	☐
CHBORN	☐	☐	☐	☐
BPLCTRY	☐	☐	☐	☑
YRSIMM	☐	☐	☐	☐

`Submit`

▪ Review the 'Extract Request Summary' screen, describe your extract and click Submit Extract

▪ You will get an email when the data is available to download

▪ To get to the page to download the data, follow the link in the email, or follow the Download and Revise Extracts link on the homepage

Getting the data into your statistics software

Step 1

Download the Data

▪ Go to https://international.ipums.org/international/ and click on Download or Revise Extracts

▪ Right-click on the data link next to extract you created

▪ Choose "Save Target As..." (or "Save Link As...")

▪ Save into "Documents" (that should pop up as the default location)

▪ Do the same thing for the SPSS link next to the extract

• • •

Step 2

Decompress the Data

▪ Find the "Documents" folder under the Start menu.

▪ Double-click on the ".dat" file

▪ In the window that comes up, press the Extract button

▪ Double-check that the Documents folder contains three files starting "ipumsi_000..."

▪ Free decompression software is available at http://www.irnis.net/soft/wingzip/

• • •

Step 3

Read in the Data

▪ Double click on the ".sps" file, which should automatically have been named "ipumsi_000....."

▪ The first two lines should read:

cd ".".

data list file = 'ipumsi_000...'/

▪ Change the first line to read: cd (location where you've been saving your files). For example: cd "C:\Documents"

▪ Change the second line to read:

data list file = "C:\Documents\ipumsi_000...dat"/

▪ Under the "Run" menu, select "All" and an output viewer window will open

▪ Use the Syntax Editor for the SPSS code below, highlight the code, and choose "Selection" under the Run menu

Analyze the Sample – Part I Variable Documentation

Search through the sections of the variable description online to answer each question.

Describe the Variables

A) What is the code for Puerto Rican-born in BPLCTRY?

_____

B) Find the variable YRSIMM (years since immigration). For which of our selected samples is YRSIMM available?

_____

C) What are the codes for Unknown and NIU for YRSIMM?

_____

D) What is the universe for CHBORN?

i) For Chile? _____ ii) For Colombia? _____

ii) For Costa Rica? _____ iv) For Mexico? _____

Analyze the Sample – Part II Frequencies and Means

To get a more representative estimate using sample data, we'll use the person weight WTPER to expand the number of cases and to adjust for under- or over-representation.

Section 1

Analyze the Data

```
weight by wtper.
compute filter1 = (bplctry = 21180 and yrsimm < 98).
filter by filter1.
means tables = yrsimm
/cells mean count.
```

A) What is the average number of years since the Puerto Ricans in this sample immigrated? _____

B) What proportion of Puerto Rican women abroad have no children?

_____

```
compute filter2 = (bplctry = 21180).
filter by filter2.
freq chborn.
```

C) Across countries, what are the three most common household types or living situations for Puerto Ricans living abroad?

_____

```
crosstabs
/tables = hhtype by cntry
/cells = count column.
```

D) In these select countries, are spouses of Puerto Ricans living abroad more likely Puerto Rican or born in some other country?

_____

```
freq bplctry_sp.
```

ANSWERS - Analyze the Sample – Part I Variable Documentation

For each variable below, search through the tabbed sections of the variable description online to answer each question.

A) What is the code for Puerto Rican-born in BPLCTRY? <u>21180</u>

B) Find the variable YRSIMM (years since immigration). For which of our selected samples is YRSIMM available? <u>Costa Rica, Chile, and Colombia</u>

C) What are the codes for Unknown and NIU for YRSIMM? <u>98 and 99</u>

D) What is the universe for CHBORN?

i) For Chile? <u>Females 15+.</u> ii-iv) <u>The other 5 samples have a universe of Females age 12+.</u>

Analyze the Sample – Part II Frequencies and Means

To get a more representative estimate using sample data, we'll use the person weight WTPER to expand the number of cases and to adjust for under- or over-representation.

A) What is the average number of years since the Puerto Ricans in this

```
weight by wtper.
compute filter1 = (bplctry = 21180 and yrsimm < 98).
filter by filter1.
means tables = yrsimm
/cells mean count.
```

sample immigrated? <u>10.93 years</u>

B) What proportion of Puerto Rican women abroad have no children? <u>374/(3012 – 1544) = 25.5%</u>

```
compute filter2 = (bplctry = 21180).
filter by filter2.
freq chborn.
```

C) Across countries, what are the three most common household types or living situations for Puerto Ricans living abroad?

```
crosstabs
/tables = hhtype by cntry
/cells = count column.
```

Composite household, group quarters, and one-person household.

D) In these select countries, are spouses of Puerto Ricans living abroad more likely Puerto Rican or born in some other country?

```
freq bplctry_sp.
```

Only 2.5 percent of spouses of Puerto Ricans living abroad are also Puerto Rican. The most common birth country of spouses is Mexico.