Analyzing Poverty by Race with Stata

Example of an ACS family

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | RELP | AGEP | WAGP | SSIP | FINCP | POVPIP |
| Reference Person | 0 | 40 | 25,000 | 0 | 34,000 | 154 |
| Spouse | 1 | 42 | 0 | 5,000 | 34,000 | 154 |
| Child | 2 | 16 | 4,000 | 0 | 34,000 | 154 |
| Child | 2 | 13 | . |  | 34,000 | 154 |

Stata Code with Step-By-Step Instructions for Workshop Exercise

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\*\* 1. LOAD DATA

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

\*Load data file

use "C:\P\ACS\ACS2014pus\_FL.dta", clear

/\* Execute an existing DO file called "labelACS.do" that will add Census defined

\*\* labels to the variables \*/

do "C:\P\ACS\label\_ACS\_2014.do"

\*Check out the data

\*run some basic summary stats of key variables

sum SERIALNO ST RELP AGEP WAGP SSIP PINCP POVPIP RAC1P HISP

\*read variable labels

desc SERIALNO ST RELP AGEP WAGP SSIP PINCP POVPIP RAC1P HISP

label list relpLB

\*browse the data

browse SERIALNO ST RELP AGEP WAGP SSIP PINCP POVPIP RAC1P HISP

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\*\* 2. CREATE DEMOGRAPHIC VARIABLES

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\*\* Create age category variable

generate byte AgeCat = 0

label variable AgeCat "3 Category Age Variable"

replace AgeCat = 1 if AGEP <= 17

replace AgeCat = 2 if AGEP >= 18 & AGEP <= 64

replace AgeCat = 3 if AGEP >= 65

label define AgeCatLB 1 "0-17" 2 "18-64" 3 "65+"

label values AgeCat AgeCatLB

\*Double check that it's working ok:

tab AgeCat

tab AGEP AgeCat

\*\* Create race category variable

generate byte RaceCat = 5 /\* Other: Not Hispanic, White, Black, or Asian \*/

label variable RaceCat "5 Category Race/Ethnic Variable"

replace RaceCat = 1 if RAC1P == 1 /\* White alone, Non-Hispanic \*/

replace RaceCat = 2 if RAC1P == 2 /\* Black alone , Non-Hispanic \*/

replace RaceCat = 4 if RAC1P == 6 /\* Asian alone , Non-Hispanic \*/

replace RaceCat = 3 if HISP >= 2 & HISP <= 24 /\* Hispanic \*/

label define RaceCatLB 1 "White Non-Hisp" 2 "Black Non-Hisp" 3 "Hispanic" 4 "Asian Non-Hisp" 5 "Other Non-Hisp"

label values RaceCat RaceCatLB

\*Double check that it's working ok:

tab RaceCat

tab RAC1P RaceCat

tab RAC1P RaceCat if HISP == 1

tab RAC1P RaceCat if HISP != 1

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\*\* 3. DEFINE POVERTY

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

/\* Define who is in the poverty universe by excluding persons who

\*\* are unrelated children (persons under 15 who are not related to reference person)

\*\* -or- those that live in group quarters (dorms, nusring homes, youth homes, prisons,

\*\* mental facilities, etc.) and whose POVPIP value is missing. \*/

generate byte povuniv = 1

replace povuniv = 0 if AGEP < 15 & RELP >= 11

replace povuniv = 0 if RELP > 15 & POVPIP == .

label variable povuniv "Poverty Universe: Excludes some people living in group quarters and unrelated children under 15"

\*\* Create a binary variable that identifies poor families (below 100% of poverty).

generate byte inpoverty = (POVPIP < 100)

label variable inpoverty "Family income is below the poverty line"

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\*\* 4. PRODUCE TABLES

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

\*\* Show a table of population by state.

table ST [pweight=PWGTP], f(%15.0fc) row

\*\* Show a table of the population within the poverty universe by state.

table ST if povuniv==1 [pweight=PWGTP], f(%15.0fc) row

\*\* Show a table of population by age

table AgeCat [pweight=PWGTP] if ST == 12 & povuniv == 1, f(%15.0fc) row

\*\* Show poverty rates by age

table AgeCat [pweight=PWGTP] if ST == 12 & povuniv == 1, f(%15.3fc) c(mean inpoverty) row

\*\* Show population by age & race

table AgeCat RaceCat [pweight=PWGTP] if ST == 12 & povuniv == 1, f(%15.0fc) row col

\*\* Show poverty rates by age & race

table AgeCat RaceCat [pweight=PWGTP] if ST == 12 & povuniv == 1, f(%15.3fc) c(mean inpoverty) row col

\*\* Show number of people in poverty by age & race

table AgeCat RaceCat [pweight=PWGTP] if ST == 12 & povuniv == 1 & inpoverty == 1, f(%15.0fc) row col

Danilo Trisi

Center on Budget and Policy Priorities

trisi@cbpp.org

[www.cbpp.org](http://www.cbpp.org)