



Lab Exercise #6: Estimating Gross Flows

Learning goals

- Link adjacent monthly data
- Apply validation code to your linked data
- Do a simple gross-flows analysis to estimate the number of people who change employment status

Summary

In this exercise, you will link basic monthly data from November 2017 to December 2017, validate links, and produce gross-flow estimates describing monthly transitions between employed, unemployed, and not in the labor force statuses. Include the variables EMPSTAT, AGE, PANLWT, CPSIDP, MISH, SEX, and RACE in your extract.

Exercises

1. How many individuals appear in both November and December of 2017? _____
2. Using the validation criteria from previous exercises, how many of the individuals have valid links?

3. Restricting your sample to individuals who are 16+ at both time points, use PANLWT to populate Table 1 with weighted population counts for each cell.

Table 1

		Current month (December)		
		Employed	Unemployed	Not in labor force
Previous month (November)	Employed	EE ()	EU ()	EN ()
	Unemployed	UE ()	UU ()	UN ()
	Not in labor force	NE ()	NU ()	NN ()

Note: The purpose of this analysis is *NOT* to replicate actual gross flows produced by the Bureau of Labor Statistics. Replicating published statistics requires adjustments to the data that are described in “Estimating gross flows consistent with stocks in the CPS” by Harley J. Frazis, Edwin L. Robison, Thomas D. Evans and Martha A. Duff (Monthly Labor Review, September 2005, pp. 3-9.)



Answers

1. How many individuals appear in both November and December of 2017? 87,686
2. Using the validation criteria from previous exercises, how many of the individuals have valid links? 86,950
3. Restricting your sample to individuals who are 16+ and at both time points, use PANLWT to populate Table 1 with weighted population counts for each cell.

Table 1

		Current month (December)		
		Employed	Unemployed	Not in labor force
Previous month (November)	Employed	EE (<u>145569488</u>)	EU (<u>1558747</u>)	EN (<u>4139560</u>)
	Unemployed	UE (<u>2014469</u>)	UU (<u>3356916</u>)	UN (<u>1647707</u>)
	Not in labor force	NE (<u>4140605</u>)	NU (<u>1688668</u>)	NN (<u>89931169</u>)

