Subject: Re: Why I am getting different total observations when using iweight for tabulating a variable Posted by sujata on Sat, 01 Apr 2023 06:23:27 GMT View Forum Message <> Reply to Message

Dear Tom,

Thank you very much for looking into this.

I understand that this is outside the forum's scope, and I really appreciate that you spared some time for this.

However, I wanted to clarify further my understanding of how to treat the weights in my analysis. I want to ensure that I use them correctly and get accurate results.

Firstly, As per your suggestion, I normalized the data so that the mean of the shweight\_PR in the PR file is equal to 1000000.

gen unwtd=1000000 total unwtd shweight matrix B=e(b) matrix list B scalar sfactor=B[1,1]/B[1,2] scalar list sfactor gen shweight\_PR=round(sfactor\*shweight)

After that, I generated wgt\_shweight\_PR= shweight\_PR/1000000. The mean of wgt\_shweight\_PR is 1.

svyset [pw= wgt\_shweight\_PR ], psu( hv021) strata( hv022)

sum wgt\_shweight\_PR

Variable Obs Mean Std. dev. Min Max wgt\_shweig~R 52,682 1 .6350303 .05442 4.638086

egen raw\_rank\_CE=rank(sv271s), unique sort raw\_rank\_CE qui sum shweight\_PR gen wi = shweight\_PR /r(sum) gen cusum = sum(wi) gen wj= cusum[\_n-1] replace wj=0 if wj==. gen rank\_CE=wj+0.5\*wi

sum rank\_CE

Variable Obs Mean Std. dev. Min Max

rank\_CE 52,682 .4857322 .2892787 6.00e-06 .9999868

I am getting the same mean (0.4857) with wgt\_shweight\_PR as well.

Is it the right way to use weights?

Thank you.

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