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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

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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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