
Subject: Why I am getting different total observations when using iweight for tabulating a variable

Posted by [sujata](#) on Tue, 07 Feb 2023 17:48:03 GMT

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I am trying to tabulate the hv025 variable in the PR file for the Indian state of Punjab. Applying svyset and tabulating this variable only gives the proportions and not the absolute values. I understand that svy: ta hv025 and ta hv025 [iw=shweight/1000000] will give the same results if we are not interested in standard errors. But the total observation (67913.878) differs from 67856 (the total number of observations). I am putting here both the results. 67913.878 is the population size. How is the population size different from the number of observations (68549)? If I apply aweight then I am getting the Total as equal to the total number of observations, which is 68549. But I should use iweight and not aweight.

```
gen weight_dis=shweight/1000000
```

```
ta hv025 [iw= weight_dis]
```

```
type of |
place of |
residence |   Freq.   Percent   Cum.
-----+-----
urban | 26,122.0845   38.46   38.46
rural | 41,791.793   61.54  100.00
-----+-----
Total | 67,913.878  100.00
```

```
svyset [pw= weight_dis], psu( hv021) strata( hv022)
```

```
svy:ta hv025
(running tabulate on estimation sample)
```

```
Number of strata = 88           Number of obs = 68,549
Number of PSUs   = 915        Population size = 67,913.878
Design df       = 827
```

```
-----
type of |
place of |
residence | proportion
-----+-----
urban | .3846
rural | .6154
|
Total | 1
-----
```

Key: proportion = Cell proportion

