
Subject: Weighted counts

Posted by [siddu123](#) on Tue, 26 Mar 2019 07:04:54 GMT

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I am trying to calculate weighted counts in stata for India 2014-15 MR dataset.

1) From my understanding, individual observations when multiplied with weights, should give the count of the actual population.

For example. The total percent of men who have diabetes is 2.13%. Which in the weighted count (table below) shows a value of 2396. However my understanding is that the weighted count must show some 35-million (approx) cases of men who are actually diabetic in India.

2) Also is there any problem in using scaled singleunit for svy instead of "missing"?

3) Is there a difference in iweight and pweight?

These are my codes. MRdataset.

```
generate wgt = mv005/1000000
svyset mv021 [pweight=wgt], strata(mv022) vce(linearized) singleunit(scaled)
recode sm622a (8=0) , gen (CurrentlyDiabetic)
```

```
. svy linearized : tabulate mv102 CurrentlyDiabetic, count row percent format(%16.0g)
(running tabulate on estimation sample)
```

Number of strata	=	2508	Number of obs	=	112122
Number of PSUs	=	9887	Population size	=	112122
		Design df	=	7379	

```
-----
type of |
place of | RECODE of sm622a (currently has diabetes)
residence |      0      1      Total
-----+-----
urban | 41789.450922453 1163.0585127594 42952.509435213
      | 97.292222205285 2.7077777947146      100
      |
rural | 67936.373593395 1233.1175029331 69169.491096328
      | 98.217252312561 1.782747687439      100
      |
Total | 109725.82451585 2396.1760156925 112122.00053154
      | 97.862885067754 2.137114932246      100
-----
```

Key: weighted counts
row percentages

Pearson:

Uncorrected $\chi^2(1) = 108.4122$

Design-based $F(1, 7379) = 23.9928$ $P = 0.0000$

Note: Variance scaled to handle strata with a single sampling unit.
