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Subject: Strata, PSU, weights for Sengal Continuous Survey

Posted by [LeahBevis](#) on Sat, 22 Aug 2020 02:45:19 GMT

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I am working with the continuous DHS survey from Senegal, 2013-2018. We downloaded each dataset individually and then appended them all. I can see from 2 links below that 2013 and 2014 were sampled from the 2002 census, and 2015 and 2016 from the 2013 census. I'm not sure about the sampling frame for 2017 or 2018. Overall, in order to properly employ weights, I need to know more about the sampling design, but the documents are in French and I don't speak French.

So, I want to know 3 things:

(1) Do weights reflect population change, such that they can be used without adjustment?

(2a) Are PSU always given by v021?

(2b) Which PSU were unique? That is, in which years were PSU locations new? PSU values do NOT repeat across 2013 and 2014, but they DO repeat between 2015 and 2016. They also repeat between 2015/16 and 2017. At the moment, I am assuming that \*every\* year new PSU were drawn (even if IDs are repeated; i'm assuming that's an "accident"), but it also seems possible that the 2016 survey actually re-visited the 2015 PSUs. And I have no idea about 2017 and 2018.

(3a) Are sampling design strata always given by v023?

(3b) One of the links below explains that the definition of "rural/urban" changed in 2015-16, from the previous 2013-14 definition. So, this means the strata changed, right? Yet the 24 values of v023 do not change in 2015 onwards. I'd like to know in what years the strata truly changed, so that I can create a "sup-strata" variable for weighting (using svyset in Stata or Procsurveyfreqwith in SAS), where strata IDs change when the actual sampling strata change.

Thank you!

Leah

Links:

[https://userforum.dhsprogram.com/index.php?t=msg&goto=16347&&srch=senegal#msg\\_16347](https://userforum.dhsprogram.com/index.php?t=msg&goto=16347&&srch=senegal#msg_16347)

<https://dhsprogram.com/pubs/pdf/DM34/DM34.pdf>

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