Subject: calculating sample size for two-stage sample Posted by aina2233 on Wed, 01 Jun 2016 18:44:10 GMT View Forum Message <> Reply to Message

I am reading the DHS Sampling and Household Listing Manual (published in Sept.2012, ICF International, Calverton, Maryland USA). I got confused from page 10 (reading in Word the Manual), chapter 1.6.2. Sample Size Determination. Since I want to achieve the results, provided in the table below on that page, using the provided formula for calculating sample size, and I can't get the identical results:

n = Deft2 x (1/P-1/divided by a2 / (Ri x Rh x d)

and the values are in the manuals'table as copied below. For calculating sample size n for RSE 0.10 I am multiplying 1,4 squared x (1/0,2 - 1) / 0,1 squared / (0.96 x 0.92 x 1,05)

and cannot get to the same number as in the table (846). I used also half of RSE 0.05 squared, but can't get the same number 846. If you can help me, what I am doing wrong? Since I want to be confident in using formula for sample size calculation (intended for two-stage sample).

From Manual's Table: Estimated proportion p 0.20 Total target population (blank) Estimated design effect (Deft) 1.40 # of target individuals/HH 1.05 Individual response rate 0.96 HH gross response rate 0.92 Desired Net Sample Sample size Expected 95% confidence limits RSE size individual Household SE Lower Upper 0.12 544 587 0.024 0.152 0.248 0.11 648 699 0.022 0.156 0.244 0.10 784 846 0.020 0.160 0.240 0.05 3136 3382 0.010 0.180 0.220

Subject: Re: calculating sample size for two-stage sample Posted by Bridgette-DHS on Fri, 03 Jun 2016 16:59:59 GMT View Forum Message <> Reply to Message

A team member has responded to you directly, using the email you provided on the forum.

Thanks