Computation of the Design Weights

In the following we describe the way in which the design weights were computed for each country.

1. $\underline{w} = 1/(\text{PROB1}*\ldots*\text{PROB}k)$ is a $n \times 1$ vector of weights ; k depends on the number of stages of the sampling design. Inaccuracies in higher decimal places in the PROB variables were smoothed.

2. The identification numbers "idno" of missing weights can be found below.

   Each missing in $\underline{w}$ was replaced by $\dfrac{\sum\limits_{i:nonmiss} w_i^{nonmiss}}{n-m}$, where $\sum\limits_{i:nonmiss} w_i^{nonmiss}$ denotes the sum of weights without missings, n is the number of cases in the net sample and m denotes the number of missing weights. After an iteration procedure the missings were replaced by ones in the final vector of weights.

3. Extremely large weights ($w_i > K\overline{w}$) were truncated to final weights of value K. In most countries $K = 4$. Only in Portugal we had to increase K to ensure that after rescaling in step 4 all weights do not exceed K. For Portugal $K = 4.34$.

4. All weights were rescaled in a way that the sum of the final weights equals n. This means
   $\underline{w} = 1/(\text{PROB1}*\ldots*\text{PROB}k)$
   rescaled weights $= n*\underline{w}/\text{sum}(\underline{w})$

23 November 2004 Sabine Häder/Siegfried Gabler

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missing.out: Output File von weight.src  11/06/03  15:03:26


***********************************************
Country                         Spain
***********************************************
Number of data in sample data file  3702
Net sample size (GNDR not missing)  1729

In net sample:
Number of missings in prob1         1
idno of the missings                1153

Number of missings in prob2         1
idno of the missings                1153

Number of missings in prob3         0

weights w=1/prob1*prob2*prob3



***********************************************
Country                         Finland
***********************************************
Number of data in sample data file  2000
Net sample size (GNDR not missing)  2000

In net sample:
Number of missings in prob1         0

weights w=1/prob1



***********************************************
Country                         Greece
***********************************************
Number of data in sample data file  2566
Net sample size (GNDR not missing)  2566

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3



***********************************************
Country                         Netherlands
***********************************************
Number of data in sample data file  3570
Net sample size (GNDR not missing)  2364

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3
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************************************************
Country                         Hungary
************************************************
Number of data in sample data file  2484
Net sample size (GNDR not missing)  1685

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3


************************************************
Country                         Germany
************************************************
Number of data in sample data file  2919
Net sample size (GNDR not missing)  2919

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0

weights w=1/prob1*prob2


************************************************
Country                         Portugal
************************************************
Number of data in sample data file  1511
Net sample size (GNDR not missing)  1511

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3


************************************************
Country                         Ireland
************************************************
Number of data in sample data file  2046
Net sample size (GNDR not missing)  2046

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3
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************************************************
Country                         Czech Republic
************************************************
Number of data in sample data file  1360
Net sample size (GNDR not missing)  1360

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0

weights w=1/prob1*prob2


************************************************
Country                         Israel
************************************************
Number of data in sample data file  2499
Net sample size (GNDR not missing)  2499

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0
Number of missings in prob3        3
idno of the missings               106317102  106325305  106325307


weights w=1/prob1*prob2*prob3


************************************************
Country                         Poland
************************************************
Number of data in sample data file  2978
Net sample size (GNDR not missing)  2110

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0
Number of missings in prob3        0

weights w=1/prob1*prob2*prob3




************************************************
Country                         Belgium
************************************************
Number of data in sample data file  1950
Net sample size (GNDR not missing)  1950

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0
Number of missings in prob3        0

weights w=1/prob1*prob2*prob3


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************************************************
Country                        Slovenia
************************************************
Number of data in sample data file  1519
Net sample size (GNDR not missing)   1518

In net sample:
Number of missings in prob1          0
Number of missings in prob2          0

weights w=1/prob1*prob2


************************************************
Country                        Sweden
************************************************
Number of data in sample data file  3000
Net sample size (GNDR not missing)   1995

In net sample:
Number of missings in prob1          0

weights w=1/prob1


************************************************
Country                        Switzerland
************************************************
Number of data in sample data file  6637
Net sample size (GNDR not missing)   2041

In net sample:
Number of missings in prob1          0
Number of missings in prob2          0
Number of missings in prob3          21
idno of the missings                 1161   1167   2443   2516   2526   3043
 3553   3580   3882   4299   4775   5851   5858   5911   5917   5921   5922
 5929   5989   7004   7447


weights w=1/prob1*prob2*prob3




************************************************
Country                        United Kingdom
************************************************
Number of data in sample data file  4013
Net sample size (GNDR not missing)   2052

In net sample:
Number of missings in prob1          0
Number of missings in prob2          0
Number of missings in prob3          0

weights w=1/prob1*prob2*prob3
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************************************************
Country                          Italy
************************************************
Number of data in sample data file  1207
Net sample size (GNDR not missing)  1207

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0
Number of missings in prob4         0

weights w=1/prob1*prob2*prob3*prob4


************************************************
Country                          Luxembourg
************************************************
Number of data in sample data file  1553
Net sample size (GNDR not missing)  1553

In net sample:
Number of missings in prob1         0

weights w=1/prob1


************************************************
Country                          Denmark
************************************************
Number of data in sample data file  2243
Net sample size (GNDR not missing)  1506

In net sample:
Number of missings in prob1         0

weights w=1/prob1


************************************************
Country                          Austria
************************************************
Number of data in sample data file  3888
Net sample size (idno not missing)  2257

In net sample:
Number of missings in prob1         0
Number of missings in prob2         0
Number of missings in prob3         0

weights w=1/prob1*prob2*prob3
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************************************************
Country                        France
************************************************
Number of data in sample data file  1503
Net sample size (idno not missing)  1503

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0
Number of missings in prob3        0

weights w=1/prob1*prob2*prob3


************************************************
Country                        Norway 11/23/04
************************************************
Number of data in sample data file  2036
Net sample size (GNDR not missing)  2036

In net sample:
Number of missings in prob1        0
Number of missings in prob2        0

weights w=1/prob1*prob2
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Figure 1: Histograms of the Design Weights