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The estimates from a sample survey are affected by two types of errors: (1) nonsampling errors, and (2) sampling errors. Nonsampling errors are the results of mistakes made in implementing data collection and data processing, such as failure to locate and interview the correct household, misunderstanding of the questions on the part of either the interviewer or the respondent, and data entry errors. Although numerous efforts were made during the implementation of the TDHS-2003 to minimize this type of error, nonsampling errors are impossible to avoid and difficult to evaluate statistically.

Sampling errors, on the other hand, can be evaluated statistically. The sample of respondents selected in the TDHS-2003 is only one of many samples that could have been selected from the same population, using the same design and expected size. Each of these samples would yield results that differ somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. Although the degree of variability is not known exactly, it can be estimated from the survey results.

A sampling error is usually measured in terms of the *standard error* for a particular statistic (mean, percentage, etc.), which is the square root of the variance. The standard error can be used to calculate confidence intervals within which the true value for the population can reasonably be assumed to fall. For example, for any given statistic calculated from a sample survey, the value of that statistic will fall within a range of plus or minus two times the standard error of that statistic in 95 percent of all possible samples of identical size and design.

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulas for calculating sampling errors. However, the TDHS-2003 sample is the result of a three-stage stratified design, and, consequently, it was necessary to use more complex formulae. The computer software used to calculate sampling errors for the TDHS-2003 is the ISSA Sampling Error Module (SAMPERR). This module used the Taylor linearization method of variance estimation for survey estimates that are means or proportions. The Jackknife repeated replication method is used for variance estimation of more complex statistics such as fertility and mortality rates.

The Taylor linearization method treats any percentage or average as a ratio estimate, $r = y/x$, where y represents the total sample value for variable y , and x represents the total number of cases in the group or subgroup under consideration. The variance of r is computed using the formula given below, with the standard error being the square root of the variance in which:

$$var(r) = \frac{1-f}{x^2} \sum_{h=1}^H \left[\frac{m_h}{m_h-1} \left(\sum_{i=1}^{m_h} z_{hi}^2 - \frac{z_h^2}{m_h} \right) \right]$$

in which

$$z_{hi} = y_{hi} - r \cdot x_{hi}, \text{ and } z_h = y_h - r \cdot x_h$$

where h represents the stratum which varies from 1 to H,
 m_h is the total number of enumeration areas selected in the h^{th} stratum,
 y_{hi} is the sum of the weighted values of variable y in EA i in the h^{th} stratum,
 x_{hi} is the sum of the weighted number of cases in EA i in the h^{th} stratum, and
 f is the overall sampling fraction, which is so small that it is ignored.

The Jackknife repeated replication method derives estimates of complex rates from each of several replications of the parent sample, and calculates standard errors for these estimates using simple formulae. Each replication considers *all but one* cluster in the calculation of the estimates. Pseudo-independent replications are thus created. In the TDHS, there were 688 non-empty clusters. Hence, 688 replications were created. The variance of a rate r is calculated as follows:

$$var(r) = \frac{1}{k(k-1)} \sum_{i=1}^k (r_i - r)^2$$

in which

$$r_i = k r - (k-1) r_{(i)}$$

where r is the estimate computed from the full sample of 688 clusters,
 $r_{(i)}$ is the estimate computed from the reduced sample of 687 clusters (i^{th} cluster excluded), and
 k is the total number of clusters.

In addition to the standard error, SAMPERR computes the design effect (DEFT) for each estimate, which is defined as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a value greater than 1.0 indicates the increase in the sampling error due to the use of a more complex and less statistically efficient design. SAMPERR also computes the relative error and confidence limits for the estimates.

Sampling errors for the TDHS-2003 are calculated for a number of variables considered to be of primary interest. Results for women are presented in this appendix for the country as a whole, for urban and rural areas, for each of the five regions, and for the twelve NUTS1 regions. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table C.1. Tables C.2-C.21 present the value of the statistic (R), its standard error (SE),

the number of unweighted (N) and weighted (WN) cases, the design effect (DEFT), the relative standard error (SE/R), and the 95 percent confidence limits ($R \pm 2SE$), for each variable. The DEFT is considered undefined when the standard error considering simple random sample is zero (when the estimate is close to 0 or 1).

In general, the relative standard errors for most estimates for the country as a whole are small, except for estimates of very small proportions. There are some differentials in the relative standard errors for the estimates for sub-populations. For example, for the contraceptive prevalence rate (CPR), i.e. the proportion of currently married women aged 15-49 who were using any method of contraception at the time of the interview, the relative standard error for the country as a whole, for urban areas, and for rural areas are 0.6 percent, 0.7 percent, and 1.3 percent, respectively.

To obtain the 95 percent confidence limits for the CPR, one adds and subtracts twice the standard error to the sample estimate, i.e. $0.710 \pm 2 \times 0.006$. The results indicate that there is a high probability (95 percent) that the true value of the CPR for the country as a whole lies between 69.8 percent and 72.1 percent.

Table C.1 List of selected variables for sampling errors, Turkey 2003

Variable	Estimate	Base population
Urban residence	Proportion	Ever married women 15-49
No education	Proportion	Ever married women 15-49
With secondary education or higher	Proportion	Ever married women 15-49
Currently married (in union)	Proportion	Ever married women 15-49
Currently pregnant	Proportion	All women 15-49
Children ever born	Mean	All women 15-49
Children surviving	Mean	All women 15-49
Children ever born to women 40-49	Mean	All women 15-49
Knowing any contraceptive method	Proportion	Currently married women 15-49
Knowing any modern contraceptive method	Proportion	Currently married women 15-49
Ever used any contraceptive method	Proportion	Currently married women 15-49
Currently using any contraceptive method	Proportion	Currently married women 15-49
Currently using a modern method	Proportion	Currently married women 15-49
Currently using pill	Proportion	Currently married women 15-49
Currently using IUD	Proportion	Currently married women 15-49
Currently using condom	Proportion	Currently married women 15-49
Currently using injectables	Proportion	Currently married women 15-49
Currently using female sterilization	Proportion	Currently married women 15-49
Currently using periodic abstinence	Proportion	Currently married women 15-49
Currently using withdrawal	Proportion	Currently married women 15-49
Obtained method from public sector source	Proportion	Currently married women 15-49
Want no more children	Proportion	Currently married women 15-49
Want to delay birth at least 2 years	Proportion	Currently married women 15-49
Ideal number of children	Mean	Ever married women 15-49
Mothers received medical care at delivery	Proportion	Births in last 5 years
Child having health card, seen	Proportion	Children 12-23 months
Child received BCG vaccination	Proportion	Children 12-23 months
Child received DPT vaccination (3 doses)	Proportion	Children 12-23 months
Child received polio vaccination (3 doses)	Proportion	Children 12-23 months
Child received measles vaccination	Proportion	Children 12-23 months
Child fully immunized	Proportion	Children 12-23 months
Height-for-age (-2SD)	Proportion	Children 0-47 months
Weight-for-height (-2SD)	Proportion	Children 0-47 months
Weight-for-age (-2SD)	Proportion	Children 0-47 months
BMI < 18.5	Proportion	Ever married women 15-49
Has heard of HIV/AIDS	Proportion	Ever married women 15-49
Knows about condoms	Proportion	Ever married women 15-49
Knows about limiting partners	Proportion	Ever married women 15-49
Total fertility rate (last 3 years)	Rate	Women-years of exposure to child-bearing
Neonatal mortality (last 5 years)	Rate	Number of births exposed to death
Post-neonatal mortality (last 5 years)	Rate	Number of births exposed to death
Infant mortality (last 5 years)	Rate	Number of births exposed to death
Child mortality (last 5 years)	Rate	Number of births exposed to death
Under-five mortality (last 5 years)	Rate	Number of births exposed to death

Table C.2 Sampling errors: National Sample, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.712	0.006	8075	8075	1.192	0.008	0.700	0.724
No education	0.218	0.008	8075	8075	1.777	0.037	0.202	0.234
With secondary education or higher	0.245	0.009	8075	8075	1.793	0.035	0.227	0.262
Currently married (in union)	0.950	0.003	8075	8075	1.121	0.003	0.945	0.955
Currently pregnant	0.041	0.002	12138	11517	1.049	0.056	0.036	0.046
Children ever born	1.838	0.049	12138	11517	0.789	0.027	1.740	1.937
Children surviving	1.691	0.045	12138	11517	0.795	0.027	1.601	1.782
Children ever born to women 40-49	3.544	0.059	2379	2460	1.274	0.017	3.427	3.661
Knowing any contraceptive method	0.998	0.000	7686	7672	0.757	0.000	0.997	0.999
Knowing any modern contraceptive method	0.995	0.001	7686	7672	0.878	0.001	0.994	0.997
Ever used any contraceptive method	0.900	0.004	7686	7672	1.291	0.005	0.891	0.909
Currently using any contraceptive method	0.710	0.006	7686	7672	1.154	0.008	0.698	0.721
Currently using a modern method	0.425	0.006	7686	7672	1.110	0.015	0.412	0.437
Currently using pill	0.047	0.003	7686	7672	1.098	0.056	0.042	0.052
Currently using IUD	0.202	0.005	7686	7672	1.184	0.027	0.191	0.213
Currently using condom	0.108	0.004	7686	7672	1.245	0.041	0.099	0.116
Currently using injectables	0.004	0.001	7686	7672	1.028	0.190	0.002	0.005
Currently using female sterilization	0.057	0.003	7686	7672	1.093	0.051	0.051	0.063
Currently using periodic abstinence	0.011	0.001	7686	7672	1.043	0.112	0.009	0.014
Currently using withdrawal	0.264	0.006	7686	7672	1.270	0.024	0.251	0.277
Obtained method from public sector source	0.577	0.013	3128	3271	1.455	0.022	0.551	0.603
Want no more children	0.635	0.009	3894	3873	1.210	0.015	0.616	0.654
Want to delay birth at least 2 years	0.136	0.006	3894	3873	1.166	0.047	0.123	0.148
Ideal number of children	2.510	0.020	4029	4038	1.183	0.008	2.469	2.551
Mothers received medical care at delivery	0.830	0.013	4533	4132	1.678	0.015	0.805	0.855
Child having health card, seen	0.537	0.026	807	749	1.397	0.048	0.486	0.589
Child received BCG vaccination	0.877	0.015	807	749	1.203	0.017	0.848	0.907
Child received DPT vaccination (3 doses)	0.644	0.022	807	749	1.267	0.035	0.599	0.688
Child received polio vaccination (3 doses)	0.691	0.019	807	749	1.131	0.028	0.652	0.729
Child received measles vaccination	0.794	0.019	807	749	1.288	0.024	0.755	0.833
Child fully immunized	0.542	0.023	807	749	1.256	0.043	0.496	0.589
Height-for-age (-2SD)	0.122	0.007	4028	3668	1.161	0.056	0.108	0.136
Weight-for-height (-2SD)	0.007	0.002	4028	3668	1.179	0.231	0.004	0.010
Weight-for-age (-2SD)	0.039	0.004	4028	3668	1.168	0.101	0.031	0.047
BMI < 18.5	0.018	0.003	2922	2782	1.093	0.151	0.013	0.024
Has heard of HIV/AIDS	0.881	0.008	4078	4078	1.591	0.009	0.865	0.897
Knows about condoms	0.219	0.008	4078	4078	1.175	0.035	0.204	0.234
Knows about limiting partners	0.215	0.008	4078	4078	1.300	0.039	0.198	0.231
Total fertility rate (last 3 years)	2.231	0.054	NA	32730	1.303	0.024	2.123	2.339
Neonatal mortality (last 5 years)	17.259	2.258	4556	4164	1.045	0.131	12.743	21.775
Post-neonatal mortality (last 5 years)	11.508	1.723	4558	4166	1.050	0.150	8.062	14.954
Infant mortality (last 5 years)	28.767	2.914	4558	4166	1.072	0.101	22.938	34.596
Child mortality (last 5 years)	8.527	1.507	4567	4176	1.068	0.177	5.513	11.540
Under-five mortality (last 5 years)	37.049	3.239	4569	4177	1.080	0.087	30.571	43.526

NA = Not applicable

Table C.3 Sampling errors: Urban Areas, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	1.000	0.000	5976	5752	NA	0.000	1.000	1.000
No education	0.183	0.009	5976	5752	1.896	0.052	0.164	0.202
With secondary education or higher	0.308	0.012	5976	5752	1.940	0.038	0.285	0.331
Currently married (in union)	0.945	0.003	5976	5752	1.125	0.004	0.939	0.952
Currently pregnant	0.037	0.003	8813	8101	1.159	0.070	0.032	0.042
Children ever born	1.727	0.044	8813	8101	0.801	0.026	1.638	1.815
Children surviving	1.605	0.041	8813	8101	0.809	0.026	1.522	1.688
Children ever born to women 40-49	3.270	0.062	1763	1761	1.304	0.019	3.147	3.393
Knowing any contraceptive method	0.999	0.000	5668	5437	0.879	0.000	0.998	1.000
Knowing any modern contraceptive method	0.997	0.000	5668	5437	0.664	0.000	0.996	0.998
Ever used any contraceptive method	0.920	0.005	5668	5437	1.393	0.005	0.910	0.930
Currently using any contraceptive method	0.736	0.007	5668	5437	1.140	0.009	0.723	0.749
Currently using a modern method	0.458	0.008	5668	5437	1.159	0.017	0.443	0.473
Currently using pill	0.050	0.003	5668	5437	1.100	0.064	0.044	0.057
Currently using IUD	0.215	0.006	5668	5437	1.173	0.030	0.202	0.228
Currently using condom	0.121	0.006	5668	5437	1.291	0.046	0.110	0.133
Currently using injectables	0.004	0.001	5668	5437	1.054	0.220	0.002	0.006
Currently using female sterilization	0.059	0.003	5668	5437	1.088	0.058	0.052	0.066
Currently using periodic abstinence	0.012	0.002	5668	5437	1.036	0.123	0.009	0.015
Currently using withdrawal	0.257	0.008	5668	5437	1.369	0.031	0.241	0.273
Obtained method from public sector source	0.564	0.015	2496	2499	1.560	0.027	0.533	0.595
Want no more children	0.635	0.011	2857	2720	1.228	0.017	0.613	0.657
Want to delay birth at least 2 years	0.143	0.008	2857	2720	1.259	0.058	0.127	0.160
Ideal number of children	2.452	0.023	2975	2857	1.246	0.009	2.405	2.498
Mothers received medical care at delivery	0.903	0.013	3062	2722	1.813	0.014	0.877	0.929
Child having health card, seen	0.632	0.031	551	503	1.438	0.049	0.570	0.693
Child received BCG vaccination	0.926	0.017	551	503	1.431	0.018	0.893	0.959
Child received DPT vaccination (3 doses)	0.726	0.027	551	503	1.382	0.038	0.671	0.780
Child received polio vaccination (3 doses)	0.769	0.023	551	503	1.235	0.030	0.723	0.815
Child received measles vaccination	0.844	0.023	551	503	1.438	0.028	0.797	0.891
Child fully immunized	0.629	0.030	551	503	1.385	0.047	0.569	0.688
Height-for-age (-2SD)	0.090	0.007	2717	2414	1.122	0.076	0.076	0.103
Weight-for-height (-2SD)	0.007	0.002	2717	2414	1.190	0.287	0.003	0.011
Weight-for-age (-2SD)	0.028	0.004	2717	2414	1.158	0.141	0.020	0.036
BMI < 18.5	0.019	0.003	2108	1943	1.078	0.174	0.012	0.025
Has heard of HIV/AIDS	0.928	0.009	3004	2881	1.925	0.010	0.909	0.946
Knows about condoms	0.274	0.010	3004	2881	1.248	0.037	0.254	0.294
Knows about limiting partners	0.247	0.010	3004	2881	1.289	0.041	0.227	0.268
Total fertility rate (last 3 years)	2.056	0.057	NA	23118	1.281	0.028	1.941	2.170
Neonatal mortality (last 5 years)	15.277	2.385	3080	2746	0.974	0.156	10.508	20.047
Post-neonatal mortality (last 5 years)	8.151	1.970	3081	2746	1.167	0.242	4.212	12.090
Infant mortality (last 5 years)	23.428	2.984	3081	2746	1.013	0.127	17.461	29.395
Child mortality (last 5 years)	7.153	1.641	3087	2753	1.083	0.229	3.872	10.434
Under-five mortality (last 5 years)	30.413	3.278	3088	2754	1.001	0.108	23.857	36.970

NA = Not applicable

Table C.4 Sampling errors: Rural Areas, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.000	0.000	2099	2323	NA	NA	0.000	0.000
No education	0.305	0.017	2099	2323	1.670	0.055	0.271	0.338
With secondary education or higher	0.087	0.008	2099	2323	1.223	0.087	0.072	0.102
Currently married (in union)	0.962	0.005	2099	2323	1.109	0.005	0.953	0.971
Currently pregnant	0.050	0.005	3191	3434	1.053	0.096	0.041	0.060
Children ever born	2.093	0.125	3191	3434	1.005	0.060	1.843	2.342
Children surviving	1.886	0.111	3191	3434	0.996	0.059	1.664	2.108
Children ever born to women 40-49	4.226	0.121	616	701	1.130	0.029	3.984	4.469
Knowing any contraceptive method	0.995	0.001	2018	2235	0.664	0.001	0.993	0.997
Knowing any modern contraceptive method	0.990	0.002	2018	2235	0.952	0.002	0.986	0.995
Ever used any contraceptive method	0.853	0.009	2018	2235	1.201	0.011	0.834	0.872
Currently using any contraceptive method	0.645	0.013	2018	2235	1.204	0.020	0.619	0.671
Currently using a modern method	0.344	0.011	2018	2235	1.030	0.032	0.322	0.366
Currently using pill	0.039	0.005	2018	2235	1.093	0.120	0.030	0.049
Currently using IUD	0.172	0.010	2018	2235	1.224	0.060	0.151	0.192
Currently using condom	0.074	0.007	2018	2235	1.120	0.088	0.061	0.087
Currently using injectables	0.003	0.001	2018	2235	0.962	0.380	0.001	0.006
Currently using female sterilization	0.051	0.005	2018	2235	1.109	0.106	0.040	0.062
Currently using periodic abstinence	0.008	0.002	2018	2235	1.079	0.263	0.004	0.013
Currently using withdrawal	0.281	0.010	2018	2235	1.029	0.037	0.260	0.301
Obtained method from public sector source	0.620	0.021	632	772	1.095	0.034	0.578	0.663
Want no more children	0.635	0.017	1037	1153	1.163	0.027	0.600	0.669
Want to delay birth at least 2 years	0.117	0.009	1037	1153	0.912	0.078	0.099	0.136
Ideal number of children	2.651	0.042	1054	1181	1.099	0.016	2.567	2.735
Mothers received medical care at delivery	0.689	0.027	1471	1410	1.642	0.039	0.636	0.743
Child having health card, seen	0.344	0.041	256	246	1.259	0.118	0.263	0.425
Child received BCG vaccination	0.777	0.029	256	246	1.019	0.037	0.720	0.835
Child received DPT vaccination (3 doses)	0.475	0.038	256	246	1.125	0.080	0.399	0.551
Child received polio vaccination (3 doses)	0.530	0.035	256	246	1.038	0.066	0.460	0.601
Child received measles vaccination	0.691	0.035	256	246	1.105	0.050	0.622	0.761
Child fully immunized	0.365	0.033	256	246	1.016	0.091	0.299	0.432
Height-for-age (-2SD)	0.184	0.015	1311	1254	1.174	0.080	0.155	0.214
Weight-for-height (-2SD)	0.008	0.003	1311	1254	1.143	0.387	0.002	0.013
Weight-for-age (-2SD)	0.059	0.008	1311	1254	1.140	0.142	0.042	0.076
BMI < 18.5	0.018	0.005	814	839	1.117	0.302	0.007	0.028
Has heard of HIV/AIDS	0.770	0.017	1074	1197	1.328	0.022	0.735	0.804
Knows about condoms	0.087	0.010	1074	1197	1.118	0.110	0.068	0.107
Knows about limiting partners	0.136	0.014	1074	1197	1.296	0.100	0.109	0.163
Total fertility rate (last 3 years)	2.651	0.126	NA	9756	1.326	0.048	2.399	2.903
Neonatal mortality (last 5 years)	21.120	4.733	1476	1418	1.090	0.224	11.655	30.586
Post-neonatal mortality (last 5 years)	18.125	3.365	1477	1420	0.918	0.186	11.396	24.854
Infant mortality (last 5 years)	39.245	6.251	1477	1420	1.084	0.159	26.744	51.747
Child mortality (last 5 years)	11.266	3.088	1480	1423	1.020	0.274	5.090	17.441
Under-five mortality (last 5 years)	50.069	6.956	1481	1424	1.106	0.139	36.158	63.980

NA = Not applicable

Table C.5 Sampling errors: West Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.819	0.009	2331	3286	1.096	0.011	0.802	0.837
No education	0.146	0.011	2331	3286	1.500	0.075	0.124	0.168
With secondary education or higher	0.293	0.016	2331	3286	1.669	0.054	0.262	0.325
Currently married (in union)	0.945	0.005	2331	3286	1.038	0.005	0.936	0.955
Currently pregnant	0.031	0.004	3533	4429	1.095	0.130	0.023	0.039
Children ever born	1.633	0.063	3533	4429	0.536	0.038	1.508	1.758
Children surviving	1.518	0.057	3533	4429	0.525	0.037	1.404	1.631
Children ever born to women 40-49	2.905	0.077	720	1062	1.302	0.027	2.750	3.060
Knowing any contraceptive method	0.999	0.000	2214	3106	0.826	0.000	0.999	1.000
Knowing any modern contraceptive method	0.996	0.001	2214	3106	0.669	0.001	0.995	0.998
Ever used any contraceptive method	0.927	0.005	2214	3106	0.976	0.006	0.916	0.938
Currently using any contraceptive method	0.742	0.009	2214	3106	0.983	0.012	0.724	0.761
Currently using a modern method	0.457	0.010	2214	3106	0.938	0.022	0.437	0.476
Currently using pill	0.048	0.005	2214	3106	1.008	0.095	0.039	0.057
Currently using IUD	0.210	0.008	2214	3106	0.940	0.039	0.193	0.226
Currently using condom	0.127	0.008	2214	3106	1.080	0.060	0.112	0.142
Currently using injectables	0.002	0.001	2214	3106	0.844	0.452	0.000	0.003
Currently using female sterilization	0.061	0.006	2214	3106	1.088	0.091	0.050	0.072
Currently using periodic abstinence	0.012	0.002	2214	3106	0.989	0.193	0.007	0.016
Currently using withdrawal	0.266	0.011	2214	3106	1.141	0.040	0.245	0.287
Obtained method from public sector source	0.506	0.022	1014	1425	1.390	0.043	0.462	0.549
Want no more children	0.638	0.018	1110	1550	1.264	0.029	0.602	0.675
Want to delay birth at least 2 years	0.132	0.011	1110	1550	1.112	0.085	0.110	0.155
Ideal number of children	2.304	0.028	1166	1643	1.131	0.012	2.248	2.359
Mothers received medical care at delivery	0.954	0.012	962	1342	1.509	0.013	0.930	0.978
Child having health card, seen	0.651	0.051	188	271	1.477	0.078	0.549	0.753
Child received BCG vaccination	0.955	0.016	188	271	1.075	0.017	0.923	0.987
Child received DPT vaccination (3 doses)	0.726	0.041	188	271	1.268	0.056	0.644	0.808
Child received polio vaccination (3 doses)	0.791	0.032	188	271	1.071	0.040	0.727	0.854
Child received measles vaccination	0.889	0.025	188	271	1.118	0.028	0.839	0.940
Child fully immunized	0.630	0.043	188	271	1.220	0.068	0.545	0.716
Height-for-age (-2SD)	0.055	0.008	854	1186	0.980	0.149	0.039	0.071
Weight-for-height (-2SD)	0.007	0.003	854	1186	1.203	0.506	0.000	0.013
Weight-for-age (-2SD)	0.019	0.005	854	1186	1.048	0.256	0.009	0.029
BMI < 18.5	0.014	0.004	741	1017	0.979	0.310	0.005	0.022
Has heard of HIV/AIDS	0.923	0.015	1174	1652	1.910	0.016	0.893	0.953
Knows about condoms	0.280	0.014	1174	1652	1.103	0.052	0.251	0.309
Knows about limiting partners	0.249	0.015	1174	1652	1.182	0.060	0.219	0.279
Total fertility rate (last 3 years)	1.879	0.068	NA	12761	0.973	0.036	1.744	2.015
Neonatal mortality (last 5 years)	15.122	4.700	972	1352	1.060	0.311	5.722	24.521
Post-neonatal mortality (last 5 years)	6.965	3.128	972	1352	1.233	0.449	0.708	13.222
Infant mortality (last 5 years)	22.087	5.376	972	1352	1.064	0.243	11.335	32.839
Child mortality (last 5 years)	8.375	2.711	975	1355	0.925	0.324	2.953	13.798
Under-five mortality (last 5 years)	30.277	5.820	975	1355	1.005	0.192	18.637	41.917

NA = Not applicable

Table C.6 Sampling errors: South Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.698	0.014	1113	1028	1.047	0.021	0.669	0.727
No education	0.236	0.025	1113	1028	1.964	0.106	0.186	0.286
With secondary education or higher	0.233	0.021	1113	1028	1.695	0.092	0.190	0.276
Currently married (in union)	0.955	0.006	1113	1028	0.986	0.006	0.943	0.967
Currently pregnant	0.041	0.005	1639	1520	0.907	0.118	0.032	0.051
Children ever born	1.820	0.127	1639	1520	1.062	0.070	1.565	2.075
Children surviving	1.697	0.121	1639	1520	1.089	0.071	1.455	1.938
Children ever born to women 40-49	3.719	0.162	319	293	1.253	0.044	3.394	4.043
Knowing any contraceptive method	0.997	0.002	1061	981	0.983	0.002	0.993	1.000
Knowing any modern contraceptive method	0.995	0.002	1061	981	0.978	0.002	0.991	0.999
Ever used any contraceptive method	0.909	0.010	1061	981	1.125	0.011	0.889	0.929
Currently using any contraceptive method	0.708	0.015	1061	981	1.073	0.021	0.678	0.738
Currently using a modern method	0.448	0.017	1061	981	1.141	0.039	0.413	0.483
Currently using pill	0.039	0.005	1061	981	0.926	0.142	0.028	0.050
Currently using IUD	0.219	0.014	1061	981	1.116	0.065	0.191	0.247
Currently using condom	0.113	0.011	1061	981	1.102	0.095	0.091	0.134
Currently using injectables	0.005	0.003	1061	981	1.250	0.526	0.000	0.011
Currently using female sterilization	0.061	0.007	1061	981	0.928	0.112	0.047	0.075
Currently using periodic abstinence	0.014	0.003	1061	981	0.959	0.245	0.007	0.021
Currently using withdrawal	0.236	0.015	1061	981	1.167	0.065	0.205	0.266
Obtained method from public sector source	0.652	0.024	490	442	1.112	0.037	0.604	0.700
Want no more children	0.618	0.019	535	492	0.891	0.030	0.581	0.655
Want to delay birth at least 2 years	0.133	0.013	535	492	0.853	0.094	0.108	0.158
Ideal number of children	2.775	0.067	550	505	1.174	0.024	2.642	2.908
Mothers received medical care at delivery	0.887	0.027	594	557	1.699	0.031	0.832	0.942
Child having health card, seen	0.624	0.059	96	89	1.172	0.095	0.506	0.742
Child received BCG vaccination	0.952	0.017	96	89	0.794	0.018	0.917	0.986
Child received DPT vaccination (3 doses)	0.714	0.053	96	89	1.107	0.074	0.609	0.819
Child received polio vaccination (3 doses)	0.706	0.055	96	89	1.149	0.078	0.596	0.816
Child received measles vaccination	0.811	0.064	96	89	1.593	0.079	0.683	0.938
Child fully immunized	0.602	0.064	96	89	1.258	0.106	0.474	0.730
Height-for-age (-2SD)	0.104	0.016	533	499	1.105	0.149	0.073	0.135
Weight-for-height (-2SD)	0.004	0.003	533	499	1.066	0.702	0.000	0.010
Weight-for-age (-2SD)	0.028	0.007	533	499	1.066	0.270	0.013	0.043
BMI < 18.5	0.018	0.006	406	379	0.942	0.343	0.006	0.031
Has heard of HIV/AIDS	0.887	0.019	559	513	1.384	0.021	0.850	0.924
Knows about condoms	0.231	0.020	559	513	1.143	0.088	0.191	0.272
Knows about limiting partners	0.216	0.017	559	513	0.993	0.080	0.181	0.251
Total fertility rate (last 3 years)	2.297	0.159	NA	4158	1.429	0.069	1.979	2.616
Neonatal mortality (last 5 years)	18.870	6.174	592	555	1.126	0.327	6.521	31.219
Post-neonatal mortality (last 5 years)	9.725	3.959	593	556	1.045	0.407	1.807	17.642
Infant mortality (last 5 years)	28.595	8.108	593	556	1.215	0.284	12.379	44.810
Child mortality (last 5 years)	1.944	1.368	592	555	NA	0.704	0.000	4.680
Under-five mortality (last 5 years)	30.483	8.031	593	556	1.215	0.263	14.421	46.545

NA = Not applicable

Table C.7 Sampling errors: Central Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.678	0.014	1484	1867	1.185	0.021	0.650	0.707
No education	0.132	0.017	1484	1867	1.892	0.126	0.098	0.165
With secondary education or higher	0.240	0.018	1484	1867	1.582	0.073	0.205	0.276
Currently married (in union)	0.948	0.006	1484	1867	1.101	0.007	0.935	0.961
Currently pregnant	0.039	0.005	2090	2646	1.224	0.137	0.028	0.050
Children ever born	1.773	0.104	2090	2646	1.108	0.059	1.565	1.981
Children surviving	1.626	0.095	2090	2646	1.110	0.058	1.437	1.816
Children ever born to women 40-49	3.431	0.087	497	606	1.085	0.025	3.257	3.606
Knowing any contraceptive method	0.996	0.001	1403	1770	0.391	0.001	0.995	0.997
Knowing any modern contraceptive method	0.994	0.002	1403	1770	0.812	0.002	0.991	0.997
Ever used any contraceptive method	0.924	0.008	1403	1770	1.104	0.008	0.908	0.940
Currently using any contraceptive method	0.742	0.012	1403	1770	1.000	0.016	0.719	0.766
Currently using a modern method	0.466	0.014	1403	1770	1.077	0.031	0.437	0.495
Currently using pill	0.053	0.006	1403	1770	1.044	0.117	0.041	0.066
Currently using IUD	0.252	0.015	1403	1770	1.268	0.058	0.222	0.281
Currently using condom	0.102	0.011	1403	1770	1.308	0.103	0.081	0.124
Currently using injectables	0.004	0.002	1403	1770	1.097	0.463	0.000	0.008
Currently using female sterilization	0.050	0.006	1403	1770	0.953	0.111	0.039	0.061
Currently using periodic abstinence	0.012	0.003	1403	1770	0.886	0.218	0.007	0.017
Currently using withdrawal	0.257	0.015	1403	1770	1.260	0.057	0.228	0.287
Obtained method from public sector source	0.647	0.028	643	828	1.482	0.043	0.591	0.703
Want no more children	0.674	0.017	727	912	0.989	0.026	0.640	0.708
Want to delay birth at least 2 years	0.127	0.015	727	912	1.250	0.122	0.096	0.157
Ideal number of children	2.335	0.036	762	955	1.114	0.015	2.264	2.406
Mothers received medical care at delivery	0.910	0.023	632	813	1.640	0.026	0.863	0.957
Child having health card, seen	0.575	0.067	104	138	1.410	0.117	0.440	0.709
Child received BCG vaccination	0.956	0.020	104	138	1.001	0.021	0.917	0.995
Child received DPT vaccination (3 doses)	0.721	0.051	104	138	1.176	0.070	0.620	0.823
Child received polio vaccination (3 doses)	0.736	0.044	104	138	1.037	0.060	0.648	0.824
Child received measles vaccination	0.903	0.035	104	138	1.110	0.039	0.834	0.973
Child fully immunized	0.610	0.055	104	138	1.164	0.091	0.499	0.720
Height-for-age (-2SD)	0.095	0.011	562	727	0.895	0.120	0.072	0.117
Weight-for-height (-2SD)	0.008	0.005	562	727	1.268	0.568	0.000	0.018
Weight-for-age (-2SD)	0.029	0.007	562	727	0.994	0.239	0.015	0.043
BMI < 18.5	0.030	0.008	469	601	1.007	0.262	0.014	0.046
Has heard of HIV/AIDS	0.935	0.012	768	962	1.314	0.012	0.912	0.958
Knows about condoms	0.191	0.015	768	962	1.069	0.079	0.161	0.221
Knows about limiting partners	0.225	0.020	768	962	1.335	0.090	0.184	0.265
Total fertility rate (last 3 years)	1.864	0.098	NA	7702	1.165	0.053	1.667	2.060
Neonatal mortality (last 5 years)	10.372	4.298	640	829	1.103	0.414	1.775	18.968
Post-neonatal mortality (last 5 years)	10.169	4.132	640	829	0.976	0.406	1.905	18.433
Infant mortality (last 5 years)	20.541	6.117	640	829	1.010	0.298	8.307	32.774
Child mortality (last 5 years)	12.494	4.432	643	834	1.071	0.355	3.629	21.359
Under-five mortality (last 5 years)	32.778	7.288	643	834	1.008	0.222	18.203	47.354

NA = Not applicable

Table C.8 Sampling errors: North Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.491	0.019	901	590	1.122	0.038	0.453	0.528
No education	0.196	0.032	901	590	2.420	0.163	0.132	0.260
With secondary education or higher	0.234	0.024	901	590	1.728	0.104	0.185	0.282
Currently married (in union)	0.950	0.007	901	590	0.931	0.007	0.937	0.964
Currently pregnant	0.029	0.005	1275	868	1.079	0.183	0.019	0.040
Children ever born	1.825	0.120	1275	868	0.877	0.066	1.584	2.065
Children surviving	1.690	0.115	1275	868	0.909	0.068	1.460	1.920
Children ever born to women 40-49	3.405	0.154	339	212	1.635	0.045	3.097	3.714
Knowing any contraceptive method	0.998	0.002	852	561	1.348	0.002	0.994	1.000
Knowing any modern contraceptive method	0.998	0.002	852	561	1.348	0.002	0.994	1.000
Ever used any contraceptive method	0.920	0.012	852	561	1.284	0.013	0.896	0.943
Currently using any contraceptive method	0.719	0.015	852	561	0.946	0.020	0.690	0.748
Currently using a modern method	0.325	0.018	852	561	1.091	0.054	0.290	0.360
Currently using pill	0.031	0.007	852	561	1.117	0.212	0.018	0.045
Currently using IUD	0.108	0.014	852	561	1.277	0.126	0.081	0.135
Currently using condom	0.083	0.011	852	561	1.171	0.133	0.061	0.105
Currently using injectables	0.000	0.000	852	561	NA	NA	0.000	0.000
Currently using female sterilization	0.094	0.009	852	561	0.904	0.096	0.076	0.112
Currently using periodic abstinence	0.015	0.004	852	561	1.049	0.290	0.006	0.024
Currently using withdrawal	0.375	0.015	852	561	0.905	0.040	0.345	0.405
Obtained method from public sector source	0.540	0.040	284	183	1.360	0.075	0.459	0.620
Want no more children	0.634	0.027	433	284	1.153	0.042	0.580	0.687
Want to delay birth at least 2 years	0.107	0.014	433	284	0.924	0.128	0.080	0.135
Ideal number of children	2.460	0.060	454	296	1.299	0.024	2.340	2.580
Mothers received medical care at delivery	0.865	0.065	368	252	2.957	0.075	0.734	0.995
Child having health card, seen	0.647	0.081	64	41	1.320	0.125	0.485	0.809
Child received BCG vaccination	0.915	0.046	64	41	1.311	0.051	0.822	1.000
Child received DPT vaccination (3 doses)	0.707	0.079	64	41	1.362	0.112	0.549	0.866
Child received polio vaccination (3 doses)	0.710	0.071	64	41	1.233	0.101	0.568	0.853
Child received measles vaccination	0.845	0.053	64	41	1.144	0.062	0.739	0.950
Child fully immunized	0.601	0.083	64	41	1.320	0.139	0.434	0.767
Height-for-age (-2SD)	0.130	0.033	323	218	1.608	0.254	0.064	0.195
Weight-for-height (-2SD)	0.007	0.004	323	218	0.877	0.579	0.000	0.015
Weight-for-age (-2SD)	0.022	0.010	323	218	1.272	0.461	0.002	0.043
BMI < 18.5	0.014	0.008	257	171	1.102	0.577	0.000	0.030
Has heard of HIV/AIDS	0.885	0.032	456	298	2.128	0.036	0.821	0.948
Knows about condoms	0.179	0.023	456	298	1.286	0.129	0.133	0.225
Knows about limiting partners	0.175	0.022	456	298	1.228	0.125	0.131	0.219
Total fertility rate (last 3 years)	1.942	0.119	NA	2219	1.145	0.061	1.704	2.180
Neonatal mortality (last 5 years)	20.164	7.885	374	258	1.136	0.391	4.394	35.935
Post-neonatal mortality (last 5 years)	13.800	6.992	375	259	1.181	0.507	0.000	27.784
Infant mortality (last 5 years)	33.964	11.639	375	259	1.305	0.343	10.685	57.243
Child mortality (last 5 years)	14.277	8.357	375	259	1.213	0.585	0.000	30.991
Under-five mortality (last 5 years)	47.756	15.686	376	260	1.452	0.328	16.383	79.128

NA = Not applicable

Table C.9 Sampling errors: East Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.604	0.013	2246	1305	1.248	0.021	0.578	0.630
No education	0.518	0.020	2246	1305	1.895	0.039	0.478	0.558
With secondary education or higher	0.142	0.013	2246	1305	1.817	0.094	0.116	0.169
Currently married (in union)	0.961	0.004	2246	1305	0.966	0.004	0.953	0.969
Currently pregnant	0.069	0.005	3505	2064	0.959	0.072	0.059	0.079
Children ever born	2.374	0.145	3505	2064	1.064	0.061	2.084	2.664
Children surviving	2.135	0.134	3505	2064	1.096	0.063	1.868	2.402
Children ever born to women 40-49	6.071	0.215	505	287	1.437	0.035	5.640	6.501
Knowing any contraceptive method	0.997	0.001	2156	1253	1.037	0.001	0.994	0.999
Knowing any modern contraceptive method	0.993	0.002	2156	1253	1.124	0.002	0.989	0.997
Ever used any contraceptive method	0.785	0.016	2156	1253	1.848	0.021	0.752	0.818
Currently using any contraceptive method	0.579	0.016	2156	1253	1.529	0.028	0.546	0.611
Currently using a modern method	0.314	0.013	2156	1253	1.252	0.040	0.288	0.339
Currently using pill	0.049	0.005	2156	1253	1.154	0.110	0.038	0.059
Currently using IUD	0.143	0.008	2156	1253	1.081	0.057	0.127	0.159
Currently using condom	0.074	0.006	2156	1253	1.151	0.088	0.061	0.087
Currently using injectables	0.010	0.002	2156	1253	1.049	0.230	0.005	0.014
Currently using female sterilization	0.037	0.004	2156	1253	1.031	0.114	0.028	0.045
Currently using periodic abstinence	0.005	0.002	2156	1253	1.157	0.342	0.002	0.009
Currently using withdrawal	0.240	0.014	2156	1253	1.510	0.058	0.212	0.267
Obtained method from public sector source	0.621	0.020	697	394	1.111	0.033	0.580	0.661
Want no more children	0.585	0.015	1089	635	1.035	0.026	0.554	0.616
Want to delay birth at least 2 years	0.171	0.011	1089	635	0.991	0.066	0.149	0.194
Ideal number of children	3.115	0.062	1097	639	1.408	0.020	2.990	3.240
Mothers received medical care at delivery	0.597	0.026	1977	1168	1.859	0.043	0.546	0.649
Child having health card, seen	0.308	0.033	355	210	1.352	0.107	0.242	0.374
Child received BCG vaccination	0.686	0.035	355	210	1.428	0.052	0.615	0.756
Child received DPT vaccination (3 doses)	0.444	0.036	355	210	1.380	0.082	0.371	0.516
Child received polio vaccination (3 doses)	0.522	0.034	355	210	1.272	0.065	0.454	0.589
Child received measles vaccination	0.582	0.038	355	210	1.456	0.066	0.505	0.659
Child fully immunized	0.348	0.034	355	210	1.346	0.098	0.280	0.416
Height-for-age (-2SD)	0.225	0.015	1756	1038	1.392	0.066	0.195	0.254
Weight-for-height (-2SD)	0.008	0.002	1756	1038	0.989	0.262	0.004	0.012
Weight-for-age (-2SD)	0.077	0.010	1756	1038	1.432	0.126	0.057	0.096
BMI < 18.5	0.017	0.005	1049	615	1.394	0.331	0.006	0.027
Has heard of HIV/AIDS	0.691	0.020	1121	653	1.451	0.029	0.651	0.731
Knows about condoms	0.116	0.010	1121	653	1.028	0.085	0.097	0.136
Knows about limiting partners	0.131	0.011	1121	653	1.088	0.084	0.109	0.153
Total fertility rate (last 3 years)	3.654	0.162	NA	5968	1.383	0.044	3.331	3.978
Neonatal mortality (last 5 years)	23.229	3.679	1978	1170	0.986	0.158	15.870	30.588
Post-neonatal mortality (last 5 years)	18.202	3.247	1978	1170	1.095	0.178	11.709	24.696
Infant mortality (last 5 years)	41.431	5.175	1978	1170	1.103	0.125	31.081	51.781
Child mortality (last 5 years)	7.467	2.118	1982	1172	1.171	0.284	3.231	11.703
Under-five mortality (last 5 years)	48.589	5.629	1982	1172	1.161	0.116	37.331	59.846

NA = Not applicable

Table C.10 Sampling errors: İstanbul, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.978	0.003	1163	1470	0.770	0.003	0.971	0.984
No education	0.142	0.015	1163	1470	1.436	0.104	0.112	0.171
With secondary education or higher	0.305	0.019	1163	1470	1.375	0.061	0.268	0.342
Currently married (in union)	0.956	0.007	1163	1470	1.180	0.007	0.941	0.970
Currently pregnant	0.029	0.004	1753	2014	0.986	0.151	0.020	0.038
Children ever born	1.614	0.061	1753	2014	0.577	0.038	1.492	1.736
Children surviving	1.486	0.056	1753	2014	0.583	0.038	1.374	1.599
Children ever born to women 40-49	3.094	0.119	325	424	1.167	0.038	2.857	3.331
Knowing any contraceptive method	0.999	0.001	1114	1405	0.921	0.001	0.998	1.000
Knowing any modern contraceptive method	0.999	0.001	1114	1405	0.921	0.001	0.998	1.000
Ever used any contraceptive method	0.931	0.008	1114	1405	1.024	0.008	0.915	0.946
Currently using any contraceptive method	0.761	0.013	1114	1405	0.997	0.017	0.735	0.786
Currently using a modern method	0.459	0.016	1114	1405	1.102	0.036	0.426	0.492
Currently using pill	0.055	0.008	1114	1405	1.167	0.146	0.039	0.071
Currently using IUD	0.216	0.012	1114	1405	0.969	0.055	0.193	0.240
Currently using condom	0.119	0.011	1114	1405	1.097	0.090	0.098	0.140
Currently using injectables	0.002	0.001	1114	1405	0.927	0.579	0.000	0.005
Currently using female sterilization	0.060	0.007	1114	1405	1.027	0.122	0.045	0.075
Currently using periodic abstinence	0.015	0.004	1114	1405	1.012	0.249	0.007	0.022
Currently using withdrawal	0.278	0.015	1114	1405	1.137	0.055	0.247	0.308
Obtained method from public sector source	0.408	0.024	509	651	1.097	0.059	0.360	0.456
Want no more children	0.626	0.020	542	682	0.978	0.033	0.585	0.666
Want to delay birth at least 2 years	0.140	0.015	542	682	1.039	0.111	0.109	0.171
Ideal number of children	2.339	0.043	563	711	1.186	0.018	2.253	2.426
Mothers received medical care at delivery	0.953	0.013	519	643	1.096	0.013	0.927	0.978
Child having health card, seen	0.704	0.047	98	127	1.026	0.067	0.609	0.798
Child received BCG vaccination	0.923	0.030	98	127	1.106	0.032	0.864	0.982
Child received DPT vaccination (3 doses)	0.725	0.048	98	127	1.059	0.066	0.630	0.820
Child received polio vaccination (3 doses)	0.782	0.042	98	127	1.013	0.054	0.698	0.866
Child received measles vaccination	0.858	0.036	98	127	1.022	0.042	0.786	0.929
Child fully immunized	0.623	0.053	98	127	1.086	0.085	0.517	0.729
Height-for-age (-2SD)	0.061	0.012	461	572	0.957	0.195	0.037	0.084
Weight-for-height (-2SD)	0.007	0.004	461	572	1.025	0.587	0.000	0.014
Weight-for-age (-2SD)	0.013	0.005	461	572	0.998	0.406	0.002	0.024
BMI < 18.5	0.014	0.006	395	491	0.993	0.428	0.002	0.025
Has heard of HIV/AIDS	0.962	0.008	568	715	0.960	0.008	0.947	0.978
Knows about condoms	0.321	0.024	568	715	1.248	0.076	0.272	0.370
Knows about limiting partners	0.318	0.019	568	715	0.955	0.059	0.280	0.355
Total fertility rate (last 3 years)	1.831	0.093	NA	5793	0.978	0.051	1.645	2.017
Neonatal mortality (last 5 years)	15.568	5.630	522	645	1.038	0.362	4.308	26.828
Post-neonatal mortality (last 5 years)	3.720	2.656	522	645	1.079	0.714	0.000	9.033
Infant mortality (last 5 years)	19.288	6.193	522	645	1.047	0.321	6.902	31.675
Child mortality (last 5 years)	13.023	4.831	525	648	0.973	0.371	3.361	22.685
Under-five mortality (last 5 years)	32.060	7.455	525	648	0.969	0.233	17.150	46.970

NA = Not applicable

Table C.11 Sampling errors: West Marmara Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.620	0.028	384	348	1.112	0.044	0.565	0.675
No education	0.103	0.029	384	348	1.863	0.281	0.045	0.161
With secondary education or higher	0.257	0.030	384	348	1.323	0.115	0.198	0.316
Currently married (in union)	0.945	0.012	384	348	1.064	0.013	0.920	0.969
Currently pregnant	0.028	0.009	520	465	1.225	0.330	0.009	0.046
Children ever born	1.505	0.092	520	465	0.651	0.061	1.321	1.688
Children surviving	1.419	0.091	520	465	0.687	0.064	1.237	1.600
Children ever born to women 40-49	2.512	0.136	127	120	1.191	0.054	2.240	2.783
Knowing any contraceptive method	0.998	0.002	363	329	0.945	0.002	0.993	1.000
Knowing any modern contraceptive method	0.991	0.007	363	329	1.457	0.007	0.976	1.000
Ever used any contraceptive method	0.944	0.014	363	329	1.116	0.014	0.917	0.971
Currently using any contraceptive method	0.779	0.027	363	329	1.218	0.034	0.726	0.832
Currently using a modern method	0.436	0.030	363	329	1.152	0.069	0.376	0.496
Currently using pill	0.032	0.009	363	329	0.974	0.280	0.014	0.051
Currently using IUD	0.197	0.020	363	329	0.947	0.100	0.157	0.236
Currently using condom	0.139	0.015	363	329	0.798	0.104	0.110	0.168
Currently using injectables	0.002	0.002	363	329	0.940	0.999	0.000	0.007
Currently using female sterilization	0.059	0.013	363	329	1.079	0.227	0.032	0.085
Currently using periodic abstinence	0.017	0.006	363	329	0.916	0.369	0.004	0.029
Currently using withdrawal	0.310	0.021	363	329	0.858	0.067	0.268	0.351
Obtained method from public sector source	0.559	0.058	161	143	1.465	0.103	0.444	0.674
Want no more children	0.671	0.048	193	173	1.416	0.072	0.575	0.767
Want to delay birth at least 2 years	0.127	0.031	193	173	1.271	0.240	0.066	0.189
Ideal number of children	2.147	0.042	199	178	1.021	0.019	2.064	2.230
Mothers received medical care at delivery	0.978	0.013	139	124	1.059	0.014	0.951	1.000
Child having health card, seen	0.659	0.106	28	24	1.129	0.160	0.447	0.870
Child received BCG vaccination	1.000	0.000	28	24	NA	0.000	1.000	1.000
Child received DPT vaccination (3 doses)	0.839	0.099	28	24	1.378	0.118	0.641	1.000
Child received polio vaccination (3 doses)	0.919	0.049	28	24	0.934	0.054	0.820	1.000
Child received measles vaccination	0.934	0.066	28	24	1.364	0.071	0.802	1.000
Child fully immunized	0.839	0.099	28	24	1.378	0.118	0.641	1.000
Height-for-age (-2SD)	0.073	0.018	127	113	0.824	0.253	0.036	0.110
Weight-for-height (-2SD)	0.007	0.007	127	113	0.893	0.948	0.000	0.020
Weight-for-age (-2SD)	0.063	0.023	127	113	1.084	0.371	0.016	0.109
BMI < 18.5	0.032	0.019	114	101	1.133	0.593	0.000	0.070
Has heard of HIV/AIDS	0.920	0.027	199	178	1.417	0.030	0.866	0.975
Knows about condoms	0.241	0.030	199	178	0.997	0.126	0.181	0.302
Knows about limiting partners	0.197	0.036	199	178	1.260	0.181	0.126	0.269

NA = Not applicable

Table C.12 Sampling errors: Aegean Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.617	0.022	549	1157	1.036	0.035	0.574	0.660
No education	0.161	0.021	549	1157	1.350	0.132	0.119	0.203
With secondary education or higher	0.256	0.037	549	1157	1.959	0.143	0.183	0.329
Currently married (in union)	0.933	0.009	549	1157	0.883	0.010	0.914	0.952
Currently pregnant	0.035	0.010	712	1502	1.515	0.301	0.014	0.056
Children ever born	1.667	0.111	712	1502	1.268	0.066	1.446	1.889
Children surviving	1.542	0.099	712	1502	1.264	0.064	1.343	1.740
Children ever born to women 40-49	2.756	0.150	204	425	1.523	0.054	2.456	3.056
Knowing any contraceptive method	0.995	0.000	513	1079	0.074	0.000	0.994	0.995
Knowing any modern contraceptive method	0.986	0.002	513	1079	0.436	0.002	0.981	0.990
Ever used any contraceptive method	0.906	0.011	513	1079	0.845	0.012	0.885	0.928
Currently using any contraceptive method	0.702	0.018	513	1079	0.871	0.025	0.667	0.738
Currently using a modern method	0.450	0.014	513	1079	0.638	0.031	0.422	0.478
Currently using pill	0.051	0.008	513	1079	0.797	0.151	0.036	0.067
Currently using IUD	0.205	0.015	513	1079	0.861	0.075	0.174	0.235
Currently using condom	0.129	0.015	513	1079	1.033	0.119	0.098	0.160
Currently using injectables	0.000	0.000	513	1079	NA	NA	0.000	0.000
Currently using female sterilization	0.056	0.011	513	1079	1.066	0.194	0.034	0.077
Currently using periodic abstinence	0.007	0.004	513	1079	1.005	0.524	0.000	0.015
Currently using withdrawal	0.240	0.023	513	1079	1.224	0.096	0.194	0.286
Obtained method from public sector source	0.593	0.048	233	489	1.495	0.081	0.497	0.690
Want no more children	0.667	0.040	259	539	1.365	0.060	0.587	0.747
Want to delay birth at least 2 years	0.099	0.016	259	539	0.887	0.167	0.066	0.132
Ideal number of children	2.232	0.035	283	587	0.870	0.016	2.161	2.302
Mothers received medical care at delivery	0.946	0.032	181	392	1.413	0.034	0.881	1.000
Child having health card, seen	0.538	0.122	31	80	1.505	0.227	0.293	0.782
Child received BCG vaccination	0.971	0.028	31	80	1.017	0.029	0.916	1.000
Child received DPT vaccination (3 doses)	0.671	0.109	31	80	1.427	0.163	0.452	0.889
Child received polio vaccination (3 doses)	0.671	0.074	31	80	0.962	0.110	0.524	0.818
Child received measles vaccination	0.898	0.044	31	80	0.888	0.049	0.810	0.985
Child fully immunized	0.495	0.106	31	80	1.297	0.213	0.284	0.706
Height-for-age (-2SD)	0.066	0.017	160	346	0.863	0.251	0.033	0.099
Weight-for-height (-2SD)	0.008	0.008	160	346	1.192	1.027	0.000	0.024
Weight-for-age (-2SD)	0.012	0.009	160	346	1.051	0.734	0.000	0.031
BMI < 18.5	0.008	0.008	138	294	1.029	0.981	0.000	0.023
Has heard of HIV/AIDS	0.857	0.038	284	588	1.808	0.044	0.782	0.932
Knows about condoms	0.219	0.023	284	588	0.923	0.104	0.174	0.265
Knows about limiting partners	0.186	0.029	284	588	1.265	0.158	0.127	0.244

NA = Not applicable

Table C.13 Sampling errors: East Marmara Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.747	0.026	556	710	1.436	0.035	0.694	0.800
No education	0.136	0.030	556	710	2.094	0.224	0.075	0.197
With secondary education or higher	0.295	0.018	556	710	0.923	0.061	0.259	0.331
Currently married (in union)	0.942	0.010	556	710	0.985	0.010	0.922	0.961
Currently pregnant	0.041	0.008	711	986	1.015	0.184	0.026	0.056
Children ever born	1.720	0.208	711	986	1.597	0.121	1.305	2.136
Children surviving	1.603	0.174	711	986	1.449	0.109	1.254	1.951
Children ever born to women 40-49	3.253	0.112	183	231	0.998	0.034	3.030	3.476
Knowing any contraceptive method	1.000	0.000	524	669	NA	0.000	1.000	1.000
Knowing any modern contraceptive method	1.000	0.000	524	669	NA	0.000	1.000	1.000
Ever used any contraceptive method	0.928	0.013	524	669	1.158	0.014	0.902	0.954
Currently using any contraceptive method	0.720	0.019	524	669	0.990	0.027	0.681	0.759
Currently using a modern method	0.454	0.023	524	669	1.041	0.050	0.409	0.500
Currently using pill	0.057	0.008	524	669	0.833	0.149	0.040	0.073
Currently using IUD	0.214	0.015	524	669	0.853	0.071	0.184	0.245
Currently using condom	0.110	0.015	524	669	1.079	0.134	0.080	0.139
Currently using injectables	0.003	0.002	524	669	0.876	0.722	0.000	0.007
Currently using female sterilization	0.060	0.009	524	669	0.902	0.156	0.041	0.079
Currently using periodic abstinence	0.004	0.002	524	669	0.794	0.526	0.000	0.009
Currently using withdrawal	0.252	0.023	524	669	1.217	0.092	0.206	0.298
Obtained method from public sector source	0.625	0.038	241	304	1.223	0.061	0.549	0.702
Want no more children	0.631	0.035	278	353	1.216	0.056	0.560	0.701
Want to delay birth at least 2 years	0.148	0.027	278	353	1.266	0.183	0.094	0.202
Ideal number of children	2.377	0.073	288	369	1.202	0.031	2.230	2.523
Mothers received medical care at delivery	0.944	0.031	227	328	2.000	0.033	0.883	1.000
Child having health card, seen	0.579	0.128	46	63	1.822	0.220	0.324	0.835
Child received BCG vaccination	0.987	0.012	46	63	0.788	0.013	0.963	1.000
Child received DPT vaccination (3 doses)	0.697	0.049	46	63	0.754	0.070	0.599	0.796
Child received polio vaccination (3 doses)	0.851	0.046	46	63	0.904	0.054	0.760	0.943
Child received measles vaccination	0.910	0.061	46	63	1.494	0.067	0.788	1.000
Child fully immunized	0.671	0.050	46	63	0.751	0.075	0.571	0.771
Height-for-age (-2SD)	0.034	0.014	197	284	1.061	0.408	0.006	0.062
Weight-for-height (-2SD)	0.016	0.012	197	284	1.437	0.740	0.000	0.041
Weight-for-age (-2SD)	0.030	0.014	197	284	1.254	0.473	0.002	0.059
BMI < 18.5	0.029	0.015	170	231	1.184	0.510	0.000	0.059
Has heard of HIV/AIDS	0.923	0.018	292	373	1.177	0.020	0.886	0.960
Knows about condoms	0.274	0.021	292	373	0.806	0.077	0.232	0.316
Knows about limiting partners	0.234	0.039	292	373	1.571	0.167	0.156	0.312

NA = Not applicable

Table C.14 Sampling errors: West Anatolia Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.846	0.014	466	784	0.806	0.016	0.819	0.873
No education	0.120	0.027	466	784	1.815	0.228	0.065	0.174
With secondary education or higher	0.312	0.035	466	784	1.642	0.113	0.242	0.383
Currently married (in union)	0.947	0.011	466	784	1.042	0.011	0.925	0.969
Currently pregnant	0.032	0.007	704	1141	1.069	0.227	0.018	0.047
Children ever born	1.651	0.146	704	1141	0.986	0.088	1.359	1.942
Children surviving	1.549	0.135	704	1141	0.980	0.087	1.280	1.819
Children ever born to women 40-49	3.101	0.107	146	242	0.786	0.035	2.887	3.316
Knowing any contraceptive method	1.000	0.000	442	742	NA	0.000	1.000	1.000
Knowing any modern contraceptive method	1.000	0.000	442	742	NA	0.000	1.000	1.000
Ever used any contraceptive method	0.947	0.012	442	742	1.123	0.013	0.923	0.971
Currently using any contraceptive method	0.793	0.018	442	742	0.938	0.023	0.757	0.830
Currently using a modern method	0.514	0.026	442	742	1.097	0.051	0.462	0.566
Currently using pill	0.048	0.010	442	742	0.991	0.210	0.028	0.068
Currently using IUD	0.276	0.027	442	742	1.284	0.099	0.222	0.331
Currently using condom	0.125	0.022	442	742	1.383	0.174	0.082	0.169
Currently using injectables	0.007	0.004	442	742	1.011	0.575	0.000	0.015
Currently using female sterilization	0.049	0.009	442	742	0.877	0.183	0.031	0.067
Currently using periodic abstinence	0.018	0.006	442	742	0.874	0.304	0.007	0.030
Currently using withdrawal	0.257	0.027	442	742	1.303	0.106	0.202	0.311
Obtained method from public sector source	0.616	0.052	219	381	1.563	0.084	0.513	0.719
Want no more children	0.685	0.023	234	386	0.751	0.033	0.639	0.731
Want to delay birth at least 2 years	0.131	0.031	234	386	1.422	0.240	0.068	0.194
Ideal number of children	2.278	0.056	247	408	1.011	0.025	2.166	2.389
Mothers received medical care at delivery	0.930	0.031	207	349	1.600	0.034	0.867	0.993
Child having health card, seen	0.662	0.116	33	57	1.404	0.176	0.429	0.894
Child received BCG vaccination	0.970	0.030	33	57	1.006	0.031	0.910	1.000
Child received DPT vaccination (3 doses)	0.819	0.094	33	57	1.409	0.115	0.630	1.000
Child received polio vaccination (3 doses)	0.808	0.076	33	57	1.112	0.094	0.656	0.960
Child received measles vaccination	0.939	0.060	33	57	1.039	0.063	0.820	1.000
Child fully immunized	0.636	0.107	33	57	1.221	0.167	0.423	0.850
Height-for-age (-2SD)	0.098	0.020	184	311	0.852	0.200	0.059	0.137
Weight-for-height (-2SD)	0.004	0.004	184	311	0.840	1.017	0.000	0.011
Weight-for-age (-2SD)	0.027	0.008	184	311	0.689	0.302	0.011	0.043
BMI < 18.5	0.042	0.012	157	268	0.758	0.286	0.018	0.067
Has heard of HIV/AIDS	0.942	0.016	250	413	1.092	0.017	0.910	0.974
Knows about condoms	0.221	0.027	250	413	1.037	0.124	0.166	0.275
Knows about limiting partners	0.266	0.032	250	413	1.141	0.120	0.202	0.330

NA = Not applicable

Table C.15 Sampling errors: Mediterranean Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.698	0.014	1113	1028	1.047	0.021	0.669	0.727
No education	0.236	0.025	1113	1028	1.964	0.106	0.186	0.286
With secondary education or higher	0.233	0.021	1113	1028	1.695	0.092	0.190	0.276
Currently married (in union)	0.955	0.006	1113	1028	0.986	0.006	0.943	0.967
Currently pregnant	0.041	0.005	1639	1520	0.907	0.118	0.032	0.051
Children ever born	1.820	0.127	1639	1520	1.062	0.070	1.565	2.075
Children surviving	1.697	0.121	1639	1520	1.089	0.071	1.455	1.938
Children ever born to women 40-49	3.719	0.162	319	293	1.253	0.044	3.394	4.043
Knowing any contraceptive method	0.997	0.002	1061	981	0.983	0.002	0.993	1.000
Knowing any modern contraceptive method	0.995	0.002	1061	981	0.978	0.002	0.991	0.999
Ever used any contraceptive method	0.909	0.010	1061	981	1.125	0.011	0.889	0.929
Currently using any contraceptive method	0.708	0.015	1061	981	1.073	0.021	0.678	0.738
Currently using a modern method	0.448	0.017	1061	981	1.141	0.039	0.413	0.483
Currently using pill	0.039	0.005	1061	981	0.926	0.142	0.028	0.050
Currently using IUD	0.219	0.014	1061	981	1.116	0.065	0.191	0.247
Currently using condom	0.113	0.011	1061	981	1.102	0.095	0.091	0.134
Currently using injectables	0.005	0.003	1061	981	1.250	0.526	0.000	0.011
Currently using female sterilization	0.061	0.007	1061	981	0.928	0.112	0.047	0.075
Currently using periodic abstinence	0.014	0.003	1061	981	0.959	0.245	0.007	0.021
Currently using withdrawal	0.236	0.015	1061	981	1.167	0.065	0.205	0.266
Obtained method from public sector source	0.652	0.024	490	442	1.112	0.037	0.604	0.700
Want no more children	0.618	0.019	535	492	0.891	0.030	0.581	0.655
Want to delay birth at least 2 years	0.133	0.013	535	492	0.853	0.094	0.108	0.158
Ideal number of children	2.775	0.067	550	505	1.174	0.024	2.642	2.908
Mothers received medical care at delivery	0.887	0.027	594	557	1.699	0.031	0.832	0.942
Child having health card, seen	0.624	0.059	96	89	1.172	0.095	0.506	0.742
Child received BCG vaccination	0.952	0.017	96	89	0.794	0.018	0.917	0.986
Child received DPT vaccination (3 doses)	0.714	0.053	96	89	1.107	0.074	0.609	0.819
Child received polio vaccination (3 doses)	0.706	0.055	96	89	1.149	0.078	0.596	0.816
Child received measles vaccination	0.811	0.064	96	89	1.593	0.079	0.683	0.938
Child fully immunized	0.602	0.064	96	89	1.258	0.106	0.474	0.730
Height-for-age (-2SD)	0.104	0.016	533	499	1.105	0.149	0.073	0.135
Weight-for-height (-2SD)	0.004	0.003	533	499	1.066	0.702	0.000	0.010
Weight-for-age (-2SD)	0.028	0.007	533	499	1.066	0.270	0.013	0.043
BMI < 18.5	0.018	0.006	406	379	0.942	0.343	0.006	0.031
Has heard of HIV/AIDS	0.887	0.019	559	513	1.384	0.021	0.850	0.924
Knows about condoms	0.231	0.020	559	513	1.143	0.088	0.191	0.272
Knows about limiting partners	0.216	0.017	559	513	0.993	0.080	0.181	0.251

NA = Not applicable

Table C.16 Sampling errors: Central Anatolia Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.599	0.019	502	471	0.846	0.031	0.562	0.636
No education	0.180	0.026	502	471	1.517	0.145	0.128	0.232
With secondary education or higher	0.185	0.027	502	471	1.536	0.144	0.131	0.238
Currently married (in union)	0.947	0.011	502	471	1.121	0.012	0.925	0.970
Currently pregnant	0.046	0.009	717	671	1.091	0.200	0.027	0.064
Children ever born	1.940	0.155	717	671	0.827	0.080	1.631	2.249
Children surviving	1.774	0.140	717	671	0.823	0.079	1.495	2.054
Children ever born to women 40-49	3.978	0.167	165	155	1.080	0.042	3.644	4.313
Knowing any contraceptive method	0.996	0.003	474	446	0.927	0.003	0.991	1.000
Knowing any modern contraceptive method	0.994	0.003	474	446	0.944	0.003	0.988	1.000
Ever used any contraceptive method	0.906	0.013	474	446	0.992	0.015	0.879	0.933
Currently using any contraceptive method	0.721	0.023	474	446	1.109	0.032	0.676	0.767
Currently using a modern method	0.463	0.020	474	446	0.884	0.044	0.422	0.504
Currently using pill	0.048	0.011	474	446	1.141	0.233	0.026	0.071
Currently using IUD	0.262	0.022	474	446	1.092	0.084	0.218	0.306
Currently using condom	0.092	0.011	474	446	0.859	0.124	0.069	0.115
Currently using injectables	0.000	0.000	474	446	NA	NA	0.000	0.000
Currently using female sterilization	0.058	0.010	474	446	0.882	0.163	0.039	0.077
Currently using periodic abstinence	0.013	0.003	474	446	0.535	0.217	0.007	0.018
Currently using withdrawal	0.240	0.015	474	446	0.747	0.061	0.211	0.270
Obtained method from public sector source	0.716	0.033	224	206	1.090	0.046	0.650	0.782
Want no more children	0.633	0.029	236	225	0.921	0.046	0.575	0.691
Want to delay birth at least 2 years	0.161	0.024	236	225	1.018	0.152	0.112	0.210
Ideal number of children	2.524	0.084	249	238	1.289	0.033	2.356	2.692
Mothers received medical care at delivery	0.860	0.050	243	232	1.746	0.058	0.760	0.960
Child having health card, seen	0.582	0.095	43	42	1.259	0.163	0.393	0.772
Child received BCG vaccination	0.914	0.045	43	42	1.070	0.049	0.824	1.000
Child received DPT vaccination (3 doses)	0.699	0.087	43	42	1.246	0.124	0.526	0.872
Child received polio vaccination (3 doses)	0.727	0.074	43	42	1.097	0.102	0.579	0.875
Child received measles vaccination	0.886	0.051	43	42	1.061	0.057	0.784	0.988
Child fully immunized	0.642	0.077	43	42	1.055	0.120	0.488	0.796
Height-for-age (-2SD)	0.096	0.017	214	204	0.811	0.176	0.062	0.129
Weight-for-height (-2SD)	0.004	0.004	214	204	0.921	0.983	0.000	0.012
Weight-for-age (-2SD)	0.024	0.009	214	204	0.897	0.390	0.005	0.042
BMI < 18.5	0.010	0.007	173	164	0.944	0.710	0.000	0.024
Has heard of HIV/AIDS	0.951	0.014	250	239	1.002	0.014	0.923	0.978
Knows about condoms	0.168	0.026	250	239	1.112	0.157	0.115	0.221
Knows about limiting partners	0.176	0.020	250	239	0.808	0.111	0.137	0.216

NA = Not applicable

Table C.17 Sampling errors: West Black Sea Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.510	0.023	615	513	1.136	0.045	0.464	0.556
No education	0.124	0.022	615	513	1.619	0.174	0.081	0.167
With secondary education or higher	0.201	0.025	615	513	1.549	0.125	0.151	0.251
Currently married (in union)	0.960	0.006	615	513	0.703	0.006	0.949	0.971
Currently pregnant	0.026	0.005	882	745	1.038	0.212	0.015	0.037
Children ever born	1.837	0.139	882	745	0.886	0.076	1.558	2.115
Children surviving	1.660	0.123	882	745	0.870	0.074	1.415	1.905
Children ever born to women 40-49	3.375	0.173	235	194	1.376	0.051	3.029	3.722
Knowing any contraceptive method	1.000	0.000	585	492	NA	0.000	1.000	1.000
Knowing any modern contraceptive method	1.000	0.000	585	492	NA	0.000	1.000	1.000
Ever used any contraceptive method	0.922	0.011	585	492	0.960	0.012	0.900	0.943
Currently using any contraceptive method	0.718	0.016	585	492	0.854	0.022	0.686	0.750
Currently using a modern method	0.381	0.020	585	492	0.984	0.052	0.341	0.420
Currently using pill	0.037	0.009	585	492	1.167	0.245	0.019	0.056
Currently using IUD	0.157	0.023	585	492	1.541	0.148	0.110	0.203
Currently using condom	0.080	0.014	585	492	1.206	0.170	0.053	0.107
Currently using injectables	0.002	0.002	585	492	1.003	0.998	0.000	0.005
Currently using female sterilization	0.097	0.014	585	492	1.106	0.140	0.070	0.124
Currently using periodic abstinence	0.006	0.003	585	492	0.996	0.531	0.000	0.012
Currently using withdrawal	0.324	0.017	585	492	0.881	0.053	0.290	0.359
Obtained method from public sector source	0.584	0.052	225	188	1.590	0.090	0.479	0.688
Want no more children	0.661	0.027	288	243	0.964	0.041	0.607	0.715
Want to delay birth at least 2 years	0.102	0.014	288	243	0.805	0.141	0.073	0.131
Ideal number of children	2.343	0.042	303	254	0.927	0.018	2.259	2.427
Mothers received medical care at delivery	0.933	0.027	235	202	1.493	0.029	0.879	0.988
Child having health card, seen	0.653	0.055	45	40	0.781	0.084	0.544	0.762
Child received BCG vaccination	1.000	0.000	45	40	NA	0.000	1.000	1.000
Child received DPT vaccination (3 doses)	0.697	0.068	45	40	1.006	0.097	0.561	0.833
Child received polio vaccination (3 doses)	0.711	0.060	45	40	0.896	0.084	0.592	0.830
Child received measles vaccination	0.905	0.053	45	40	1.253	0.059	0.799	1.000
Child fully immunized	0.646	0.075	45	40	1.072	0.117	0.496	0.797
Height-for-age (-2SD)	0.091	0.028	211	182	1.348	0.310	0.035	0.148
Weight-for-height (-2SD)	0.006	0.004	211	182	0.800	0.698	0.000	0.014
Weight-for-age (-2SD)	0.030	0.015	211	182	1.315	0.507	0.000	0.060
BMI < 18.5	0.010	0.007	176	152	0.988	0.722	0.000	0.025
Has heard of HIV/AIDS	0.923	0.019	304	254	1.263	0.021	0.884	0.961
Knows about condoms	0.161	0.025	304	254	1.163	0.153	0.112	0.210
Knows about limiting partners	0.189	0.029	304	254	1.291	0.154	0.131	0.247

NA = Not applicable

Table C.18 Sampling errors: East Black Sea Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.493	0.027	481	291	1.172	0.054	0.440	0.547
No education	0.255	0.057	481	291	2.877	0.225	0.140	0.369
With secondary education or higher	0.251	0.035	481	291	1.773	0.140	0.181	0.322
Currently married (in union)	0.947	0.012	481	291	1.171	0.013	0.923	0.971
Currently pregnant	0.036	0.008	674	425	1.079	0.221	0.020	0.052
Children ever born	1.884	0.118	674	425	0.775	0.062	1.649	2.120
Children surviving	1.755	0.122	674	425	0.869	0.070	1.510	1.999
Children ever born to women 40-49	3.650	0.165	167	91	1.361	0.045	3.319	3.981
Knowing any contraceptive method	0.996	0.004	454	275	1.422	0.004	0.987	1.000
Knowing any modern contraceptive method	0.996	0.004	454	275	1.422	0.004	0.987	1.000
Ever used any contraceptive method	0.921	0.018	454	275	1.446	0.020	0.885	0.958
Currently using any contraceptive method	0.707	0.020	454	275	0.944	0.029	0.666	0.747
Currently using a modern method	0.262	0.022	454	275	1.074	0.085	0.217	0.306
Currently using pill	0.022	0.006	454	275	0.939	0.296	0.009	0.035
Currently using IUD	0.092	0.015	454	275	1.087	0.161	0.062	0.121
Currently using condom	0.085	0.014	454	275	1.049	0.162	0.058	0.113
Currently using injectables	0.000	0.000	454	275	NA	NA	0.000	0.000
Currently using female sterilization	0.057	0.012	454	275	1.129	0.215	0.033	0.082
Currently using periodic abstinence	0.023	0.008	454	275	1.078	0.329	0.008	0.038
Currently using withdrawal	0.419	0.016	454	275	0.700	0.039	0.387	0.452
Obtained method from public sector source	0.510	0.046	129	72	1.043	0.090	0.418	0.602
Want no more children	0.632	0.041	240	144	1.329	0.066	0.550	0.715
Want to delay birth at least 2 years	0.116	0.021	240	144	0.996	0.178	0.075	0.157
Ideal number of children	2.585	0.099	250	149	1.410	0.038	2.387	2.784
Mothers received medical care at delivery	0.807	0.113	211	137	3.313	0.141	0.580	1.000
Child having health card, seen	0.548	0.141	32	18	1.533	0.258	0.265	0.831
Child received BCG vaccination	0.808	0.094	32	18	1.310	0.117	0.620	0.997
Child received DPT vaccination (3 doses)	0.678	0.140	32	18	1.628	0.206	0.398	0.958
Child received polio vaccination (3 doses)	0.656	0.135	32	18	1.543	0.206	0.386	0.926
Child received measles vaccination	0.764	0.091	32	18	1.173	0.119	0.581	0.947
Child fully immunized	0.548	0.139	32	18	1.503	0.253	0.271	0.825
Height-for-age (-2SD)	0.169	0.050	185	118	1.703	0.297	0.069	0.269
Weight-for-height (-2SD)	0.003	0.003	185	118	0.824	1.008	0.000	0.010
Weight-for-age (-2SD)	0.023	0.015	185	118	1.349	0.628	0.000	0.052
BMI < 18.5	0.009	0.009	144	89	1.140	0.982	0.000	0.027
Has heard of HIV/AIDS	0.902	0.057	251	151	3.007	0.063	0.789	1.000
Knows about condoms	0.155	0.033	251	151	1.438	0.212	0.090	0.221
Knows about limiting partners	0.135	0.022	251	151	1.038	0.166	0.090	0.179

NA = Not applicable

Table C.19 Sampling errors: Northeast Anatolia Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.508	0.035	535	245	1.630	0.069	0.437	0.578
No education	0.421	0.041	535	245	1.932	0.098	0.339	0.504
With secondary education or higher	0.186	0.026	535	245	1.537	0.139	0.134	0.238
Currently married (in union)	0.955	0.006	535	245	0.695	0.007	0.942	0.967
Currently pregnant	0.059	0.009	802	382	1.000	0.160	0.040	0.078
Children ever born	2.262	0.267	802	382	1.095	0.118	1.727	2.796
Children surviving	2.002	0.236	802	382	1.094	0.118	1.530	2.474
Children ever born to women 40-49	5.513	0.456	141	61	1.632	0.083	4.600	6.426
Knowing any contraceptive method	0.999	0.001	511	234	0.849	0.001	0.996	1.000
Knowing any modern contraceptive method	0.995	0.004	511	234	1.218	0.004	0.988	1.000
Ever used any contraceptive method	0.861	0.022	511	234	1.453	0.026	0.816	0.905
Currently using any contraceptive method	0.645	0.025	511	234	1.201	0.039	0.594	0.696
Currently using a modern method	0.341	0.029	511	234	1.373	0.085	0.283	0.398
Currently using pill	0.047	0.010	511	234	1.067	0.213	0.027	0.067
Currently using IUD	0.171	0.016	511	234	0.978	0.095	0.139	0.204
Currently using condom	0.070	0.010	511	234	0.930	0.151	0.049	0.091
Currently using injectables	0.017	0.009	511	234	1.512	0.507	0.000	0.035
Currently using female sterilization	0.033	0.007	511	234	0.898	0.215	0.019	0.047
Currently using periodic abstinence	0.008	0.004	511	234	0.989	0.479	0.000	0.016
Currently using withdrawal	0.261	0.033	511	234	1.701	0.127	0.195	0.327
Obtained method from public sector source	0.634	0.039	186	80	1.110	0.062	0.555	0.713
Want no more children	0.604	0.036	246	115	1.151	0.060	0.532	0.676
Want to delay birth at least 2 years	0.158	0.028	246	115	1.205	0.178	0.102	0.214
Ideal number of children	2.855	0.093	255	119	1.229	0.032	2.669	3.040
Mothers received medical care at delivery	0.699	0.064	390	185	2.416	0.091	0.571	0.826
Child having health card, seen	0.345	0.091	73	34	1.644	0.265	0.162	0.527
Child received BCG vaccination	0.680	0.079	73	34	1.445	0.116	0.523	0.838
Child received DPT vaccination (3 doses)	0.507	0.083	73	34	1.424	0.164	0.341	0.674
Child received polio vaccination (3 doses)	0.531	0.078	73	34	1.345	0.148	0.374	0.688
Child received measles vaccination	0.636	0.087	73	34	1.551	0.137	0.462	0.811
Child fully immunized	0.378	0.074	73	34	1.311	0.196	0.230	0.527
Height-for-age (-2SD)	0.168	0.029	349	166	1.316	0.170	0.111	0.225
Weight-for-height (-2SD)	0.013	0.006	349	166	0.999	0.464	0.001	0.024
Weight-for-age (-2SD)	0.067	0.015	349	166	1.137	0.218	0.038	0.096
BMI < 18.5	0.007	0.007	242	115	1.302	0.983	0.000	0.021
Has heard of HIV/AIDS	0.814	0.030	256	120	1.246	0.037	0.754	0.875
Knows about condoms	0.160	0.020	256	120	0.852	0.122	0.121	0.199
Knows about limiting partners	0.124	0.029	256	120	1.382	0.230	0.067	0.181

NA = Not applicable

Table C.20 Sampling errors: Central East Anatolia Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.568	0.019	566	389	0.904	0.033	0.530	0.606
No education	0.502	0.034	566	389	1.614	0.068	0.434	0.569
With secondary education or higher	0.157	0.023	566	389	1.492	0.145	0.112	0.203
Currently married (in union)	0.971	0.007	566	389	1.003	0.007	0.956	0.985
Currently pregnant	0.080	0.013	872	615	1.162	0.165	0.053	0.106
Children ever born	2.235	0.226	872	615	0.991	0.101	1.784	2.686
Children surviving	2.001	0.196	872	615	0.969	0.098	1.609	2.393
Children ever born to women 40-49	5.649	0.428	131	89	1.467	0.076	4.794	6.504
Knowing any contraceptive method	0.995	0.003	549	378	1.028	0.003	0.988	1.000
Knowing any modern contraceptive method	0.985	0.006	549	378	1.097	0.006	0.974	0.997
Ever used any contraceptive method	0.789	0.019	549	378	1.117	0.025	0.750	0.828
Currently using any contraceptive method	0.572	0.026	549	378	1.238	0.046	0.519	0.624
Currently using a modern method	0.318	0.019	549	378	0.956	0.060	0.280	0.356
Currently using pill	0.055	0.012	549	378	1.227	0.218	0.031	0.078
Currently using IUD	0.155	0.014	549	378	0.916	0.091	0.127	0.184
Currently using condom	0.070	0.013	549	378	1.189	0.186	0.044	0.095
Currently using injectables	0.005	0.003	549	378	1.018	0.588	0.000	0.012
Currently using female sterilization	0.031	0.007	549	378	0.991	0.236	0.016	0.046
Currently using periodic abstinence	0.003	0.002	549	378	0.932	0.708	0.000	0.008
Currently using withdrawal	0.248	0.029	549	378	1.564	0.116	0.190	0.306
Obtained method from public sector source	0.660	0.046	183	120	1.306	0.069	0.568	0.752
Want no more children	0.601	0.033	287	196	1.148	0.055	0.535	0.668
Want to delay birth at least 2 years	0.174	0.023	287	196	1.044	0.135	0.127	0.221
Ideal number of children	2.763	0.105	292	200	1.409	0.038	2.553	2.973
Mothers received medical care at delivery	0.531	0.054	439	314	1.874	0.101	0.424	0.638
Child having health card, seen	0.244	0.045	80	58	0.970	0.186	0.153	0.335
Child received BCG vaccination	0.640	0.065	80	58	1.250	0.102	0.510	0.771
Child received DPT vaccination (3 doses)	0.427	0.047	80	58	0.863	0.109	0.334	0.520
Child received polio vaccination (3 doses)	0.517	0.048	80	58	0.889	0.094	0.420	0.614
Child received measles vaccination	0.581	0.064	80	58	1.191	0.110	0.453	0.709
Child fully immunized	0.326	0.055	80	58	1.078	0.169	0.216	0.436
Height-for-age (-2SD)	0.266	0.039	392	280	1.650	0.145	0.189	0.344
Weight-for-height (-2SD)	0.003	0.003	392	280	1.126	0.999	0.000	0.009
Weight-for-age (-2SD)	0.096	0.026	392	280	1.588	0.272	0.044	0.149
BMI < 18.5	0.024	0.016	245	171	1.663	0.678	0.000	0.056
Has heard of HIV/AIDS	0.684	0.040	294	201	1.456	0.058	0.605	0.763
Knows about condoms	0.102	0.022	294	201	1.255	0.217	0.058	0.146
Knows about limiting partners	0.095	0.018	294	201	1.046	0.188	0.059	0.131

NA = Not applicable

Table C.21 Sampling errors: Southeast Anatolia Region, Turkey 2003

Variable	Value R	Standard error SE	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Un- weighted (N)	Weighted (WN)			R-2SE	R+2SE
Urban residence	0.660	0.016	1145	671	1.132	0.024	0.628	0.691
No education	0.563	0.029	1145	671	1.986	0.052	0.505	0.622
With secondary education or higher	0.118	0.020	1145	671	2.104	0.170	0.078	0.158
Currently married (in union)	0.957	0.006	1145	671	1.025	0.006	0.945	0.970
Currently pregnant	0.067	0.005	1822	1069	0.840	0.081	0.056	0.078
Children ever born	2.490	0.180	1822	1069	1.073	0.072	2.130	2.849
Children surviving	2.256	0.170	1822	1069	1.124	0.075	1.916	2.595
Children ever born to women 40-49	6.607	0.289	234	137	1.316	0.044	6.028	7.186
Knowing any contraceptive method	0.997	0.002	1096	642	0.981	0.002	0.994	1.000
Knowing any modern contraceptive method	0.996	0.002	1096	642	0.976	0.002	0.993	1.000
Ever used any contraceptive method	0.756	0.028	1096	642	2.156	0.037	0.700	0.812
Currently using any contraceptive method	0.559	0.026	1096	642	1.704	0.046	0.508	0.610
Currently using a modern method	0.301	0.019	1096	642	1.374	0.063	0.263	0.339
Currently using pill	0.046	0.007	1096	642	1.073	0.148	0.032	0.059
Currently using IUD	0.125	0.012	1096	642	1.214	0.097	0.101	0.150
Currently using condom	0.079	0.009	1096	642	1.160	0.120	0.060	0.097
Currently using injectables	0.009	0.002	1096	642	0.781	0.246	0.005	0.014
Currently using female sterilization	0.041	0.006	1096	642	1.061	0.155	0.028	0.054
Currently using periodic abstinence	0.005	0.003	1096	642	1.325	0.542	0.000	0.011
Currently using withdrawal	0.227	0.017	1096	642	1.340	0.075	0.193	0.261
Obtained method from public sector source	0.591	0.025	328	194	0.933	0.043	0.540	0.641
Want no more children	0.568	0.019	556	323	0.903	0.033	0.530	0.606
Want to delay birth at least 2 years	0.175	0.014	556	323	0.858	0.079	0.147	0.202
Ideal number of children	3.433	0.091	550	320	1.333	0.027	3.251	3.615
Mothers received medical care at delivery	0.600	0.032	1148	670	1.687	0.053	0.537	0.664
Child having health card, seen	0.329	0.048	202	118	1.427	0.145	0.234	0.424
Child received BCG vaccination	0.709	0.050	202	118	1.502	0.070	0.610	0.808
Child received DPT vaccination (3 doses)	0.434	0.056	202	118	1.575	0.129	0.322	0.545
Child received polio vaccination (3 doses)	0.522	0.050	202	118	1.407	0.096	0.421	0.622
Child received measles vaccination	0.567	0.055	202	118	1.533	0.097	0.457	0.677
Child fully immunized	0.350	0.050	202	118	1.462	0.142	0.250	0.449
Height-for-age (-2SD)	0.221	0.016	1015	592	1.146	0.073	0.189	0.253
Weight-for-height (-2SD)	0.009	0.003	1015	592	0.968	0.322	0.003	0.014
Weight-for-age (-2SD)	0.071	0.011	1015	592	1.259	0.153	0.049	0.092
BMI < 18.5	0.016	0.005	562	329	1.004	0.331	0.005	0.027
Has heard of HIV/AIDS	0.650	0.028	571	332	1.379	0.042	0.595	0.705
Knows about condoms	0.109	0.012	571	332	0.911	0.109	0.086	0.133
Knows about limiting partners	0.155	0.016	571	332	1.075	0.105	0.122	0.188
Total fertility rate (last 3 years)	4.193	0.240	NA	2976	1.381	0.057	3.714	4.672
Neonatal mortality (last 5 years)	21.094	4.374	1146	668	1.045	0.207	12.346	29.841
Post-neonatal mortality (last 5 years)	16.492	3.734	1146	668	1.002	0.226	9.025	23.959
Infant mortality (last 5 years)	37.586	5.696	1146	668	0.998	0.152	26.193	48.979
Child mortality (last 5 years)	8.526	2.409	1149	670	0.895	0.283	3.709	13.344
Under-five mortality (last 5 years)	45.792	5.748	1149	670	0.922	0.126	34.295	57.288

NA = Not applicable