

ESTIMATES OF SAMPLING ERRORS

Table B.1 List of indicators for sampling errors, Model DHS 2015

Variable	Base population
WOMEN	
Urban residence	All women 15-49
No education	All women 15-49
Secondary or higher education	All women 15-49
Never married (never in union)	All women 15-49
Currently married (in union)	All women 15-49
Married before age 20	Women age 25-49
Had first sexual intercourse before age 18	Women age 25-49
Currently pregnant	All women 15-49
Children ever born	All women 15-49
Children surviving	All women 15-49
Children ever born to women age 40-49	Women age 40-49
Currently using any method	Currently married women 15-49
Currently using a modern method	Currently married women 15-49
Currently using a traditional method	Currently married women 15-49
Currently using pill	Currently married women 15-49
Currently using IUD	Currently married women 15-49
Currently using condoms	Currently married women 15-49
Currently using injectables	Currently married women 15-49
Currently using female sterilization	Currently married women 15-49
Currently using rhythm method	Currently married women 15-49
Currently using withdrawal	Currently married women 15-49
Want no more children	Currently married women 15-49
Want to delay birth at least 2 years	Currently married women 15-49
Ideal number of children	All women 15-49
Mothers received antenatal care for last birth	Women with at least 1 live birth in past 5 years
Births with skilled attendant at delivery	Women with at least 1 live birth in past 5 years
Had diarrhea in 2 weeks before survey	Children under 5 years
Treated with ORS	Children under 5 years with diarrhoea in past two weeks
Sought medical treatment for diarrhea	Children under 5 years with diarrhoea in past two weeks
Vaccination card seen	Children age 12-23 months
Received BCG vaccination	Children age 12-23 months
Received DPT vaccination (3 doses)	Children age 12-23 months
Received polio vaccination (3 doses)	Children age 12-23 months
Received measles vaccination	Children age 12-23 months
Received all vaccinations	Children age 12-23 months
Height-for-age (below -2SD)	Children under 5 years who were measured
Weight-for-height (below -2SD)	Children under 5 years who were measured
Weight-for-age (below -2SD)	Children under 5 years who were measured
Prevalence of anemia (children)	Children age 5-59 months
Prevalence of anemia (women)	All women 15-49
Body Mass Index (BMI) < 18.5	All women 15-49 who were measured
Has heard about HIV/AIDS	All women 15-49
Knows about condoms	All women 15-49
Knows about limiting partners	All women 15-49
Had an HIV test and received results in past 12 months	All women 15-49
Accepting attitudes towards people with HIV	All women 15-49
Ever experienced any physical violence since age 15	All women 15-49
Ever experienced any sexual violence	All women 15-49
Ever experienced any physical or sexual violence by husband/partner	All women 15-49
Ever experienced any physical or sexual violence by husband/partner in the last 12 months	All women 15-49
Total Fertility Rate (last 3 years)	Women years of exposure to child birth
Neonatal mortality ¹	Children exposed to the risk of mortality
Post-neonatal mortality ¹	Children exposed to the risk of mortality
Infant mortality ¹	Children exposed to the risk of mortality
Child mortality ¹	Children exposed to the risk of mortality
Under five mortality ¹	Children exposed to the risk of mortality
HIV positive	All women 15-49 tested
MEN	
Urban residence	All men 15-49
No education	All men 15-49
Secondary or higher education	All men 15-49
Never married (in union)	All men 15-49
Currently married (in union)	All men 15-49
Had first sexual intercourse before age 18	Men age 25-49
Want no more children	Currently married men 15-49
Want to delay birth at least 2 years	Currently married men 15-49
Ideal number of children	All men 15-49
Had 2+ sexual partners in past 12 months	All men 15-49
Paid for sexual intercourse in past 12 months	All men 15-49
Had an HIV test and received results in past 12 months	All men 15-49
Accepting attitudes towards people with HIV	All men who have heard of HIV/AIDS
HIV positive	All men 15-49 tested
HIV positive	All men 15-59 tested
MEN AND WOMEN	
HIV positive	All men and women 15-49 tested

¹ The mortality rates are calculated for 5 years and 10 years before the survey for the national sample and regional samples, respectively.

Table B.2 Sampling errors: Total sample, Model DHS 2015

Variable	Value (R)	Standard error (SE)	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Unweighted (N)	Weighted (WN)			R-2SE	R+2SE
WOMEN								
Urban residence	0.451	0.032	8348	8348	5.784	0.070	0.388	0.514
No education	0.527	0.018	8348	8348	3.379	0.035	0.490	0.564
Secondary or higher education	0.336	0.020	8348	8348	3.879	0.060	0.296	0.376
Never married (never in union)	0.310	0.018	8348	8348	3.480	0.057	0.274	0.345
Currently married (in union)	0.632	0.018	8348	8348	3.422	0.029	0.595	0.668
Married before age 20	0.644	0.021	4936	4962	3.029	0.032	0.603	0.686
Had first sexual intercourse before age 18	0.669	0.012	4936	4962	1.782	0.018	0.645	0.692
Currently pregnant	0.086	0.005	8348	8348	1.663	0.059	0.075	0.096
Children ever born	2.769	0.076	8348	8348	2.611	0.027	2.618	2.921
Children surviving	2.216	0.047	8348	8348	2.079	0.021	2.122	2.311
Children ever born to women age 40-49	5.679	0.141	1361	1344	1.911	0.025	5.397	5.961
Currently using any method	0.175	0.010	5380	5273	1.863	0.055	0.156	0.195
Currently using a modern method	0.162	0.008	5380	5273	1.654	0.051	0.145	0.178
Currently using a traditional method	0.014	0.003	5380	5273	1.841	0.214	0.008	0.019
Currently using pill	0.039	0.004	5380	5273	1.430	0.097	0.031	0.046
Currently using IUD	0.001	0.000	5380	5273	0.876	0.333	0.000	0.002
Currently using condoms	0.003	0.001	5380	5273	1.493	0.378	0.001	0.005
Currently using injectables	0.078	0.005	5380	5273	1.262	0.059	0.069	0.087
Currently using female sterilization	0.003	0.001	5380	5273	1.233	0.285	0.001	0.005
Currently using rhythm	0.001	0.001	5380	5273	2.515	0.943	0.000	0.004
Currently using withdrawal	0.002	0.001	5380	5273	1.689	0.592	0.000	0.003
Want no more children	0.275	0.009	5380	5273	1.453	0.032	0.258	0.293
Want to delay birth at least 2 years	0.345	0.011	5380	5273	1.629	0.031	0.324	0.366
Ideal number of children	4.713	0.079	7969	7949	3.441	0.017	4.554	4.871
Mothers received antenatal care for last birth	0.974	0.004	4260	4177	1.677	0.004	0.966	0.982
Births with skilled attendant at delivery	0.602	0.020	5968	5872	2.634	0.033	0.562	0.642
Had diarrhea in the last 2 weeks	0.116	0.008	5335	5228	1.633	0.068	0.101	0.132
Treated with ORS	0.846	0.017	632	608	1.093	0.021	0.812	0.881
Sought medical treatment for diarrhea	0.654	0.026	632	608	1.243	0.040	0.602	0.707
Vaccination card seen	0.705	0.025	1020	1024	1.742	0.036	0.654	0.755
Received BCG vaccination	0.963	0.011	1020	1024	1.837	0.011	0.941	0.985
Received DPT vaccination (3 doses)	0.762	0.022	1020	1024	1.651	0.029	0.718	0.806
Received polio vaccination (3 doses)	0.759	0.022	1020	1024	1.674	0.030	0.714	0.804
Received measles vaccination	0.784	0.021	1020	1024	1.651	0.027	0.741	0.826
Received all vaccinations	0.650	0.026	1020	1024	1.756	0.041	0.598	0.703
Height-for-age (-2SD)	0.359	0.013	2559	2494	1.325	0.037	0.333	0.385
Weight-for-height (-2SD)	0.100	0.011	2559	2494	1.694	0.105	0.079	0.121
Weight-for-age (-2SD)	0.158	0.010	2559	2494	1.410	0.066	0.137	0.179
Prevalence of anemia (children)	0.793	0.013	2643	2569	1.575	0.017	0.767	0.820
Prevalence of anemia (women)	0.423	0.024	3905	3923	3.021	0.056	0.375	0.471
Body Mass Index (BMI) < 18.5	0.084	0.007	3524	3549	1.564	0.087	0.070	0.099
Has heard about HIV/AIDS	0.947	0.009	8348	8348	3.695	0.010	0.928	0.965
Knows about condoms	0.710	0.019	8348	8348	3.857	0.027	0.672	0.748
Knows about limiting partners	0.783	0.016	8348	8348	3.555	0.021	0.751	0.815
Had HIV test and received results in past 12 months	0.133	0.006	8348	8348	1.638	0.046	0.120	0.145
Accepting attitudes towards people with HIV	0.060	0.008	7872	7903	3.124	0.139	0.043	0.077
Ever experienced any physical violence since age 15	0.561	0.016	2596	2596	1.591	0.028	0.530	0.592
Ever experienced any sexual violence	0.099	0.010	2596	2596	1.773	0.105	0.078	0.120
Ever experienced any physical or sexual violence by husband/partner	0.493	0.018	2156	2085	1.701	0.037	0.456	0.529
Ever experienced any physical or sexual violence in the last 12 months	0.291	0.017	2156	2085	1.784	0.060	0.256	0.326
Total fertility rate (3 years)	4.718	0.217	22861	22998	2.689	0.046	4.284	5.152
Neonatal mortality rate (last 0-4 years)	37.892	3.439	6006	5890	1.266	0.091	31.014	44.771
Post-neonatal mortality rate (last 0-4 years)	50.647	3.832	6041	5954	1.310	0.076	42.983	58.310
Infant mortality rate (last 0-4 years)	88.539	5.165	6040	5928	1.315	0.058	78.209	98.869
Child mortality rate (last 0-4 years)	67.537	4.753	5998	5857	1.329	0.070	58.030	77.044
Under-five mortality rate (last 0-4 years)	150.096	6.657	6204	6088	1.312	0.044	136.783	163.410
HIV positive	0.018	0.003	3934	3921	1.183	0.139	0.013	0.023
MEN								
Urban residence	0.494	0.035	3284	3299	4.041	0.071	0.424	0.565
No education	0.373	0.027	3284	3299	3.174	0.072	0.320	0.427
Secondary or higher education	0.507	0.027	3284	3299	3.147	0.054	0.452	0.562
Never married (in union)	0.454	0.022	3284	3299	2.521	0.048	0.410	0.498
Currently married (in union)	0.514	0.020	3284	3299	2.315	0.039	0.473	0.554
Had first sexual intercourse before age 18	0.495	0.022	2008	2005	1.942	0.044	0.452	0.538
Want no more children	0.177	0.015	1759	1696	1.652	0.085	0.147	0.208
Want to delay birth at least 2 years	0.315	0.017	1759	1696	1.568	0.055	0.280	0.350
Ideal number of children	5.122	0.168	3149	3182	2.804	0.033	4.786	5.458
Had 2+ sexual partners in past 12 months	0.264	0.020	3284	3299	2.581	0.075	0.224	0.304
Had paid sex in past 12 months	0.037	0.005	3284	3299	1.421	0.126	0.028	0.047
Had HIV test and received results in past 12 months	0.065	0.006	3284	3299	1.474	0.098	0.052	0.077
Accepting attitudes towards people with HIV	0.086	0.035	3168	3192	6.952	0.407	0.016	0.155
HIV positive (15-49)	0.017	0.004	3046	3198	1.745	0.240	0.009	0.025
HIV positive (15-59)	0.016	0.004	3361	3524	1.723	0.230	0.009	0.024
WOMEN AND MEN								
HIV positive (15-49)	0.018	0.002	6980	7119	1.586	0.142	0.013	0.023

Table B.3 Sampling errors: Urban sample, Model DHS 2015

Variable	Value (R)	Standard error (SE)	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Unweighted (N)	Weighted (WN)			R-2SE	R+2SE
WOMEN								
Urban residence	1.000	0.000	3424	3766	na	na	1.000	1.000
No education	0.340	0.023	3424	3766	2.851	0.068	0.294	0.386
Secondary or higher education	0.535	0.027	3424	3766	3.200	0.051	0.481	0.590
Never married (never in union)	0.433	0.027	3424	3766	3.198	0.063	0.379	0.487
Currently married (in union)	0.501	0.027	3424	3766	3.117	0.053	0.448	0.554
Married before age 20	0.527	0.038	1799	2027	3.177	0.071	0.452	0.602
Had first sexual intercourse before age 18	0.585	0.017	1799	2027	1.463	0.029	0.551	0.619
Currently pregnant	0.063	0.007	3424	3766	1.733	0.114	0.049	0.078
Children ever born	2.116	0.101	3424	3766	2.506	0.048	1.914	2.317
Children surviving	1.728	0.059	3424	3766	1.847	0.034	1.610	1.847
Children ever born to women age 40-49	4.988	0.247	475	533	1.989	0.050	4.494	5.482
Currently using any method	0.257	0.019	1760	1886	1.810	0.073	0.219	0.295
Currently using a modern method	0.233	0.015	1760	1886	1.529	0.066	0.202	0.264
Currently using a traditional method	0.024	0.007	1760	1886	1.921	0.291	0.010	0.038
Currently using pill	0.054	0.007	1760	1886	1.370	0.136	0.040	0.069
Currently using IUD	0.002	0.001	1760	1886	0.791	0.448	0.000	0.003
Currently using condoms	0.006	0.003	1760	1886	1.507	0.463	0.000	0.012
Currently using injectables	0.111	0.009	1760	1886	1.240	0.084	0.092	0.129
Currently using female sterilization	0.003	0.001	1760	1886	0.796	0.373	0.001	0.005
Currently using rhythm	0.004	0.003	1760	1886	2.331	0.914	0.000	0.010
Currently using withdrawal	0.004	0.002	1760	1886	1.658	0.626	0.000	0.009
Want no more children	0.294	0.016	1760	1886	1.450	0.054	0.262	0.325
Want to delay birth at least 2 years	0.340	0.017	1760	1886	1.529	0.051	0.306	0.375
Ideal number of children	4.016	0.093	3318	3652	3.416	0.023	3.829	4.202
Mothers received antenatal care for last birth	0.989	0.003	1397	1468	1.210	0.003	0.982	0.996
Births with skilled attendant at delivery	0.776	0.031	1830	1962	2.631	0.041	0.713	0.839
Had diarrhea in the last 2 weeks	0.127	0.015	1611	1720	1.668	0.121	0.097	0.158
Treated with ORS	0.851	0.037	176	219	1.284	0.043	0.777	0.924
Sought medical treatment for diarrhea	0.636	0.053	176	219	1.420	0.083	0.531	0.742
Vaccination card seen	0.642	0.055	322	362	2.005	0.086	0.532	0.752
Received BCG vaccination	0.955	0.026	322	362	2.268	0.027	0.903	1.007
Received DPT vaccination (3 doses)	0.751	0.041	322	362	1.717	0.055	0.668	0.833
Received polio vaccination (3 doses)	0.750	0.042	322	362	1.753	0.056	0.666	0.834
Received measles vaccination	0.774	0.039	322	362	1.675	0.051	0.696	0.853
Received all vaccinations	0.628	0.051	322	362	1.887	0.081	0.526	0.731
Height-for-age (-2SD)	0.300	0.021	784	768	1.241	0.071	0.257	0.342
Weight-for-height (-2SD)	0.111	0.020	784	768	1.645	0.179	0.071	0.151
Weight-for-age (-2SD)	0.130	0.021	784	768	1.681	0.163	0.088	0.173
Prevalence of anemia (children)	0.722	0.026	808	821	1.515	0.036	0.670	0.775
Prevalence of anemia (women)	0.349	0.042	1580	1740	3.479	0.120	0.266	0.433
Body Mass Index (BMI) < 18.5	0.060	0.009	1466	1625	1.530	0.158	0.041	0.078
Has heard about HIV/AIDS	0.979	0.006	3424	3766	2.376	0.006	0.968	0.991
Knows about condoms	0.792	0.026	3424	3766	3.799	0.033	0.739	0.845
Knows about limiting partners	0.853	0.019	3424	3766	3.162	0.022	0.815	0.891
Had HIV test and received results in past 12 months	0.161	0.010	3424	3766	1.670	0.065	0.140	0.182
Accepting attitudes towards people with HIV	0.052	0.009	3345	3688	2.318	0.171	0.034	0.070
Ever experienced any physical violence since age 15	0.580	0.026	943	947	1.614	0.045	0.528	0.632
Ever experienced any sexual violence	0.113	0.020	943	947	1.900	0.174	0.074	0.152
Ever experienced any physical or sexual violence by husband/partner	0.503	0.037	702	675	1.975	0.074	0.428	0.578
Ever experienced any physical or sexual violence in the last 12 months	0.317	0.043	702	675	2.465	0.137	0.230	0.404
Total fertility rate (3 years)	3.508	0.305	9270	10346	2.638	0.087	2.899	4.118
Neonatal mortality rate (last 0-9 years)	49.583	5.523	3717	3949	1.381	0.111	38.536	60.630
Post-neonatal mortality rate (last 0-9 years)	66.073	8.938	3728	3962	2.003	0.135	48.198	83.949
Infant mortality rate (last 0-9 years)	115.657	10.472	3729	3963	1.850	0.091	94.712	136.601
Child mortality rate (last 0-9 years)	62.783	8.198	3702	3907	1.736	0.131	46.388	79.179
Under-five mortality rate (last 0-9 years)	171.179	12.604	3766	3991	1.834	0.074	145.972	196.386
HIV positive	0.034	0.007	1580	1372	1.509	0.202	0.020	0.048
MEN								
Urban residence	1.000	0.000	1412	1631	na	na	1.000	1.000
No education	0.184	0.031	1412	1631	2.992	0.168	0.122	0.246
Secondary or higher education	0.722	0.031	1412	1631	2.618	0.043	0.659	0.785
Never married (in union)	0.579	0.029	1412	1631	2.192	0.050	0.521	0.637
Currently married (in union)	0.384	0.025	1412	1631	1.919	0.065	0.334	0.434
Had first sexual intercourse before age 18	0.457	0.037	756	864	2.021	0.080	0.383	0.530
Want no more children	0.220	0.029	591	626	1.717	0.133	0.161	0.278
Want to delay birth at least 2 years	0.268	0.029	591	626	1.562	0.106	0.211	0.325
Ideal number of children	3.873	0.130	1373	1587	2.453	0.034	3.612	4.134
Had 2+ sexual partners in past 12 months	0.296	0.033	1412	1631	2.671	0.110	0.231	0.361
Had paid sex in past 12 months	0.045	0.008	1412	1631	1.518	0.185	0.029	0.062
Had HIV test and received results in past 12 months	0.092	0.012	1412	1631	1.615	0.135	0.067	0.117
Accepting attitudes towards people with HIV	0.142	0.064	1384	1595	6.691	0.449	0.015	0.270
HIV positive (15-49)	0.029	0.010	1265	1250	2.077	0.336	0.010	0.049
HIV positive (15-59)	0.029	0.009	1369	1341	2.076	0.327	0.010	0.047
WOMEN AND MEN								

HIV positive (15-49)	0.032	0.007	2845	2622	2.013	0.208	0.019	0.045
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Table B.4 Sampling errors: Rural sample, Model DHS 2015

HIV positive (15-49)	0.009	0.002	4135	4498	1.158	0.186	0.006	0.013
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Table B.5 Sampling errors: Region 1 sample, Model DHS 2015

HIV positive (15-49)	0.009	0.002	2714	2650	1.252	0.252	0.004	0.014
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Table B.6 Sampling errors: Region 2 sample, Model DHS 2015

Variable	Value (R)	Standard error (SE)	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Unweighted (N)	Weighted (WN)			R-2SE	R+2SE
WOMEN								
Urban residence	0.282	0.038	2126	1610	3.860	0.134	0.207	0.358
No education	0.604	0.025	2126	1610	2.320	0.041	0.555	0.653
Secondary or higher education	0.252	0.024	2126	1610	2.588	0.097	0.203	0.301
Never married (never in union)	0.268	0.022	2126	1610	2.279	0.082	0.224	0.311
Currently married (in union)	0.675	0.024	2126	1610	2.361	0.036	0.627	0.723
Married before age 20	0.697	0.023	1265	994	1.797	0.033	0.651	0.744
Had first sexual intercourse before age 18	0.708	0.016	1265	994	1.227	0.022	0.677	0.740
Currently pregnant	0.085	0.010	2126	1610	1.727	0.123	0.064	0.106
Children ever born	3.123	0.138	2126	1610	2.261	0.044	2.846	3.399
Children surviving	2.459	0.087	2126	1610	1.865	0.035	2.286	2.633
Children ever born to women age 40-49	6.067	0.229	332	260	1.444	0.038	5.610	6.525
Currently using any method	0.179	0.012	1353	1087	1.184	0.069	0.154	0.203
Currently using a modern method	0.168	0.013	1353	1087	1.271	0.077	0.142	0.194
Currently using a traditional method	0.010	0.003	1353	1087	1.195	0.317	0.004	0.017
Currently using pill	0.041	0.006	1353	1087	1.109	0.146	0.029	0.053
Currently using IUD	0.001	0.001	1353	1087	0.986	0.990	0.000	0.002
Currently using condoms	0.002	0.002	1353	1087	1.446	0.871	0.000	0.006
Currently using injectables	0.080	0.008	1353	1087	1.093	0.101	0.064	0.097
Currently using female sterilization	0.008	0.003	1353	1087	1.183	0.370	0.002	0.013
Currently using rhythm	0.000	0.000	1353	1087	na	na	0.000	0.000
Currently using withdrawal	0.000	0.000	1353	1087	na	na	0.000	0.000
Want no more children	0.267	0.014	1353	1087	1.173	0.053	0.239	0.296
Want to delay birth at least 2 years	0.297	0.014	1353	1087	1.105	0.046	0.270	0.324
Ideal number of children	4.953	0.112	1991	1493	2.218	0.023	4.729	5.176
Mothers received antenatal care for last birth	0.982	0.005	1089	896	1.374	0.006	0.971	0.993
Births with skilled attendant at delivery	0.667	0.036	1576	1309	2.633	0.053	0.596	0.738
Had diarrhea in the last 2 weeks	0.076	0.011	1410	1169	1.576	0.149	0.054	0.099
Treated with ORS	0.936	0.030	108	89	1.281	0.032	0.877	0.995
Sought medical treatment for diarrhea	0.687	0.050	108	89	1.101	0.073	0.587	0.788
Vaccination card seen	0.742	0.038	236	196	1.343	0.051	0.667	0.818
Received BCG vaccination	0.984	0.007	236	196	0.944	0.008	0.970	0.999
Received DPT vaccination (3 doses)	0.854	0.029	236	196	1.254	0.034	0.796	0.912
Received polio vaccination (3 doses)	0.846	0.032	236	196	1.366	0.038	0.782	0.910
Received measles vaccination	0.860	0.035	236	196	1.579	0.041	0.790	0.930
Received all vaccinations	0.753	0.047	236	196	1.667	0.062	0.660	0.846
Height-for-age (-2SD)	0.408	0.027	672	544	1.339	0.066	0.354	0.462
Weight-for-height (-2SD)	0.096	0.018	672	544	1.525	0.187	0.060	0.131
Weight-for-age (-2SD)	0.166	0.020	672	544	1.297	0.120	0.126	0.205
Prevalence of anemia (children)	0.752	0.029	684	556	1.656	0.039	0.693	0.810
Prevalence of anemia (women)	0.474	0.036	1001	757	2.262	0.076	0.402	0.545
Body Mass Index (BMI) < 18.5	0.090	0.012	913	687	1.295	0.137	0.065	0.115
Has heard about HIV/AIDS	0.944	0.011	2126	1610	2.305	0.012	0.921	0.967
Knows about condoms	0.635	0.036	2126	1610	3.442	0.057	0.563	0.707
Knows about limiting partners	0.740	0.029	2126	1610	3.085	0.040	0.681	0.799
Had HIV test and received results in past 12 months	0.117	0.011	2126	1610	1.532	0.091	0.096	0.138
Accepting attitudes towards people with HIV	0.046	0.010	2021	1521	2.138	0.218	0.026	0.066
Ever experienced any physical violence since age 15	0.532	0.032	695	521	1.692	0.060	0.468	0.596
Ever experienced any sexual violence	0.039	0.011	695	521	1.504	0.284	0.017	0.061
Ever experienced any physical or sexual violence by husband/partner	0.464	0.035	570	426	1.668	0.075	0.394	0.534
Ever experienced any physical or sexual violence in the last 12 months	0.249	0.023	570	426	1.258	0.091	0.204	0.295
Total fertility rate (3 years)	5.255	0.289	5805	4436	1.846	0.055	4.678	5.833
Neonatal mortality rate (last 0-9 years)	46.168	5.711	3233	2659	1.438	0.124	34.746	57.590
Post-neonatal mortality rate (last 0-9 years)	69.468	5.845	3262	2685	1.323	0.084	57.778	81.157
Infant mortality rate (last 0-9 years)	115.635	8.343	3249	2672	1.505	0.072	98.949	132.322
Child mortality rate (last 0-9 years)	68.799	7.294	3240	2663	1.494	0.106	54.211	83.387
Under-five mortality rate (last 0-9 years)	176.479	10.231	3286	2699	1.494	0.058	156.017	196.941
HIV positive	0.016	0.005	997	812	1.161	0.291	0.007	0.025
MEN								
Urban residence	0.288	0.040	824	607	2.507	0.138	0.209	0.368
No education	0.508	0.032	824	607	1.816	0.062	0.444	0.571
Secondary or higher education	0.335	0.031	824	607	1.869	0.092	0.273	0.397
Never married (in union)	0.360	0.028	824	607	1.673	0.078	0.304	0.416
Currently married (in union)	0.597	0.027	824	607	1.561	0.045	0.544	0.651
Had first sexual intercourse before age 18	0.493	0.042	530	400	1.935	0.085	0.409	0.578
Want no more children	0.210	0.033	480	363	1.764	0.157	0.144	0.276
Want to delay birth at least 2 years	0.250	0.025	480	363	1.247	0.099	0.201	0.300
Ideal number of children	5.375	0.201	776	577	1.843	0.037	4.974	5.776
Had 2+ sexual partners in past 12 months	0.227	0.036	824	607	2.436	0.157	0.155	0.298
Had paid sex in past 12 months	0.070	0.014	824	607	1.585	0.202	0.042	0.098
Had HIV test and received results in past 12 months	0.046	0.010	824	607	1.343	0.212	0.027	0.066
Accepting attitudes towards people with HIV	0.018	0.007	800	590	1.466	0.382	0.004	0.032
HIV positive (15-49)	0.007	0.003	761	643	0.950	0.401	0.001	0.013
HIV positive (15-59)	0.008	0.003	835	713	1.026	0.405	0.001	0.014

WOMEN AND MEN								
HIV positive (15-49)	0.012	0.003	1758	1454	1.144	0.247	0.006	0.018

na = Not applicable

Table B.7 Sampling errors: Region 3 sample, Model DHS 2015

Variable	Value (R)	Standard error (SE)	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Unweighted (N)	Weighted (WN)			R-2SE	R+2SE
WOMEN								
Urban residence	0.934	0.017	1433	2300	2.654	0.019	0.900	0.969
No education	0.287	0.024	1433	2300	2.003	0.083	0.239	0.335
Secondary or higher education	0.585	0.034	1433	2300	2.590	0.058	0.518	0.653
Never married (never in union)	0.464	0.038	1433	2300	2.852	0.081	0.388	0.539
Currently married (in union)	0.466	0.036	1433	2300	2.708	0.077	0.395	0.538
Married before age 20	0.475	0.054	760	1235	2.964	0.114	0.367	0.583
Had first sexual intercourse before age 18	0.543	0.019	760	1235	1.052	0.035	0.505	0.581
Currently pregnant	0.055	0.010	1433	2300	1.575	0.172	0.036	0.074
Children ever born	1.867	0.110	1433	2300	1.962	0.059	1.648	2.087
Children surviving	1.552	0.067	1433	2300	1.467	0.043	1.419	1.685
Children ever born to women age 40-49	4.381	0.276	206	318	1.551	0.063	3.830	4.932
Currently using any method	0.257	0.028	723	1072	1.725	0.109	0.201	0.313
Currently using a modern method	0.229	0.022	723	1072	1.431	0.098	0.184	0.273
Currently using a traditional method	0.029	0.012	723	1072	1.863	0.405	0.005	0.052
Currently using pill	0.046	0.011	723	1072	1.365	0.231	0.025	0.068
Currently using IUD	0.001	0.001	723	1072	0.566	0.746	0.000	0.002
Currently using condoms	0.008	0.005	723	1072	1.377	0.572	0.000	0.017
Currently using injectables	0.112	0.013	723	1072	1.144	0.120	0.085	0.139
Currently using female sterilization	0.000	0.000	723	1072	0.566	1.015	0.000	0.001
Currently using rhythm	0.006	0.006	723	1072	1.954	0.920	0.000	0.018
Currently using withdrawal	0.007	0.004	723	1072	1.440	0.658	0.000	0.015
Want no more children	0.295	0.023	723	1072	1.334	0.077	0.250	0.340
Want to delay birth at least 2 years	0.349	0.025	723	1072	1.402	0.071	0.299	0.399
Ideal number of children	3.750	0.101	1404	2253	2.629	0.027	3.549	3.952
Mothers received antenatal care for last birth	0.989	0.005	560	816	1.176	0.005	0.978	1.000
Births with skilled attendant at delivery	0.745	0.040	725	1099	2.030	0.054	0.664	0.826
Had diarrhea in the last 2 weeks	0.129	0.024	620	948	1.701	0.189	0.080	0.178
Treated with ORS	0.869	0.041	61	122	1.070	0.047	0.787	0.951
Sought medical treatment for diarrhea	0.589	0.078	61	122	1.339	0.132	0.434	0.745
Vaccination card seen	0.566	0.081	133	206	1.813	0.144	0.403	0.729
Received BCG vaccination	0.936	0.045	133	206	2.093	0.048	0.847	1.025
Received DPT vaccination (3 doses)	0.667	0.063	133	206	1.512	0.094	0.541	0.793
Received polio vaccination (3 doses)	0.666	0.064	133	206	1.539	0.096	0.538	0.794
Received measles vaccination	0.746	0.066	133	206	1.722	0.088	0.614	0.878
Received all vaccinations	0.535	0.081	133	206	1.810	0.151	0.373	0.696
Height-for-age (-2SD)	0.300	0.040	272	353	1.299	0.133	0.220	0.379
Weight-for-height (-2SD)	0.099	0.036	272	353	1.847	0.366	0.027	0.172
Weight-for-age (-2SD)	0.113	0.038	272	353	1.828	0.334	0.037	0.188
Prevalence of anemia (children)	0.710	0.039	298	416	1.433	0.054	0.633	0.788
Prevalence of anemia (women)	0.276	0.056	668	1063	3.200	0.202	0.164	0.388
Body Mass Index (BMI) < 18.5	0.059	0.014	615	995	1.441	0.232	0.031	0.086
Has heard about HIV/AIDS	0.992	0.003	1433	2300	1.419	0.003	0.985	0.999
Knows about condoms	0.856	0.030	1433	2300	3.241	0.035	0.795	0.916
Knows about limiting partners	0.907	0.019	1433	2300	2.403	0.020	0.870	0.944
Had HIV test and received results in past 12 months	0.168	0.015	1433	2300	1.523	0.090	0.138	0.198
Accepting attitudes towards people with HIV	0.040	0.011	1423	2282	2.071	0.268	0.019	0.062
Ever experienced any physical violence since age 15	0.584	0.033	393	602	1.331	0.057	0.518	0.650
Ever experienced any sexual violence	0.138	0.029	393	602	1.683	0.213	0.080	0.197
Ever experienced any physical or sexual violence by husband/partner	0.511	0.052	292	438	1.772	0.102	0.407	0.615
Ever experienced any physical or sexual violence in the last 12 months	0.327	0.064	292	438	2.317	0.196	0.198	0.455
Total fertility rate (3 years)	3.079	0.402	3954	6408	2.403	0.130	2.276	3.882
Neonatal mortality rate (last 0-9 years)	65.963	8.885	1397	2121	1.185	0.135	48.194	83.733
Post-neonatal mortality rate (last 0-9 years)	54.120	9.326	1403	2127	1.386	0.172	35.467	72.773
Infant mortality rate (last 0-9 years)	120.083	13.836	1400	2125	1.429	0.115	92.412	147.755
Child mortality rate (last 0-9 years)	55.558	12.947	1374	2079	1.693	0.233	29.665	81.451
Under-five mortality rate (last 0-9 years)	168.970	16.811	1405	2132	1.422	0.099	135.347	202.593
HIV positive	0.036	0.010	666	871	1.387	0.279	0.016	0.056
MEN								
Urban residence	0.936	0.017	638	1023	1.740	0.018	0.902	0.970
No education	0.127	0.032	638	1023	2.398	0.250	0.064	0.191
Secondary or higher education	0.762	0.036	638	1023	2.119	0.047	0.690	0.834
Never married (in union)	0.600	0.041	638	1023	2.082	0.067	0.519	0.681
Currently married (in union)	0.361	0.034	638	1023	1.771	0.093	0.294	0.429
Had first sexual intercourse before age 18	0.501	0.048	347	554	1.779	0.096	0.405	0.597
Want no more children	0.206	0.041	252	369	1.610	0.200	0.124	0.289
Want to delay birth at least 2 years	0.226	0.034	252	369	1.289	0.151	0.158	0.294
Ideal number of children	3.414	0.105	615	998	1.612	0.031	3.203	3.624
Had 2+ sexual partners in past 12 months	0.318	0.047	638	1023	2.516	0.146	0.225	0.412
Had paid sex in past 12 months	0.045	0.011	638	1023	1.330	0.242	0.023	0.067
Had HIV test and received results in past 12 months	0.100	0.019	638	1023	1.601	0.190	0.062	0.138
Accepting attitudes towards people with HIV	0.206	0.091	634	1012	5.510	0.440	0.025	0.388
HIV positive (15-49)	0.042	0.016	561	810	1.871	0.378	0.010	0.074
HIV positive (15-59)	0.040	0.015	600	863	1.900	0.383	0.009	0.070

WOMEN AND MEN								
HIV positive (15-49)	0.039	0.011	1227	1681	1.930	0.274	0.018	0.060

Table B.8 Sampling errors: Region 4 sample, Model DHS 2015

Variable	Value (R)	Standard error (SE)	Number of cases		Design effect (DEFT)	Relative error (SE/R)	Confidence limits	
			Unweighted (N)	Weighted (WN)			R-2SE	R+2SE
WOMEN								
Urban residence	0.374	0.042	1603	1574	3.492	0.113	0.289	0.459
No education	0.622	0.028	1603	1574	2.301	0.045	0.566	0.678
Secondary or higher education	0.228	0.026	1603	1574	2.481	0.114	0.176	0.280
Never married (never in union)	0.228	0.020	1603	1574	1.871	0.086	0.189	0.267
Currently married (in union)	0.718	0.021	1603	1574	1.840	0.029	0.676	0.759
Married before age 20	0.679	0.019	989	1011	1.288	0.028	0.641	0.718
Had first sexual intercourse before age 18	0.678	0.026	989	1011	1.764	0.039	0.625	0.730
Currently pregnant	0.098	0.009	1603	1574	1.241	0.094	0.080	0.117
Children ever born	3.279	0.131	1603	1574	1.889	0.040	3.017	3.541
Children surviving	2.524	0.083	1603	1574	1.592	0.033	2.357	2.691
Children ever born to women age 40-49	6.110	0.244	274	285	1.461	0.040	5.622	6.597
Currently using any method	0.180	0.016	1098	1130	1.389	0.090	0.147	0.212
Currently using a modern method	0.174	0.016	1098	1130	1.368	0.090	0.142	0.205
Currently using a traditional method	0.006	0.002	1098	1130	1.062	0.414	0.001	0.011
Currently using pill	0.074	0.012	1098	1130	1.473	0.157	0.051	0.097
Currently using IUD	0.001	0.001	1098	1130	0.753	0.787	0.000	0.002
Currently using condoms	0.002	0.002	1098	1130	1.332	0.990	0.000	0.005
Currently using injectables	0.074	0.008	1098	1130	1.033	0.110	0.058	0.090
Currently using female sterilization	0.002	0.002	1098	1130	1.304	0.981	0.000	0.005
Currently using rhythm	0.000	0.000	1098	1130	na	na	0.000	0.000
Currently using withdrawal	0.000	0.000	1098	1130	na	na	0.000	0.000
Want no more children	0.275	0.016	1098	1130	1.175	0.058	0.243	0.307
Want to delay birth at least 2 years	0.425	0.030	1098	1130	2.019	0.071	0.364	0.485
Ideal number of children	4.904	0.089	1521	1478	1.926	0.018	4.726	5.082
Mothers received antenatal care for last birth	0.983	0.006	895	922	1.306	0.006	0.971	0.994
Births with skilled attendant at delivery	0.750	0.046	1257	1302	3.066	0.062	0.657	0.842
Had diarrhea in the last 2 weeks	0.098	0.015	1113	1145	1.407	0.148	0.069	0.128
Treated with ORS	0.834	0.043	122	113	1.041	0.052	0.748	0.920
Sought medical treatment for diarrhea	0.739	0.052	122	113	1.080	0.070	0.635	0.842
Vaccination card seen	0.807	0.044	223	240	1.727	0.055	0.718	0.896
Received BCG vaccination	0.983	0.012	223	240	1.436	0.012	0.959	1.007
Received DPT vaccination (3 doses)	0.814	0.035	223	240	1.379	0.043	0.744	0.884
Received polio vaccination (3 doses)	0.822	0.037	223	240	1.481	0.045	0.748	0.896
Received measles vaccination	0.809	0.042	223	240	1.621	0.051	0.726	0.892
Received all vaccinations	0.725	0.043	223	240	1.485	0.060	0.638	0.812
Height-for-age (-2SD)	0.393	0.032	485	527	1.425	0.082	0.329	0.458
Weight-for-height (-2SD)	0.078	0.018	485	527	1.524	0.227	0.043	0.114
Weight-for-age (-2SD)	0.147	0.014	485	527	0.929	0.094	0.120	0.175
Prevalence of anemia (children)	0.808	0.026	509	540	1.363	0.032	0.756	0.861
Prevalence of anemia (women)	0.425	0.021	695	712	1.126	0.049	0.384	0.467
Body Mass Index (BMI) < 18.5	0.091	0.017	623	639	1.553	0.193	0.056	0.125
Has heard about HIV/AIDS	0.932	0.023	1603	1574	3.660	0.025	0.886	0.979
Knows about condoms	0.591	0.039	1603	1574	3.177	0.066	0.512	0.669
Knows about limiting partners	0.685	0.032	1603	1574	2.790	0.047	0.621	0.750
Had HIV test and received results in past 12 months	0.135	0.014	1603	1574	1.624	0.103	0.107	0.163
Accepting attitudes towards people with HIV	0.078	0.019	1508	1468	2.723	0.242	0.040	0.115
Ever experienced any physical violence since age 15	0.468	0.032	526	524	1.461	0.068	0.404	0.532
Ever experienced any sexual violence	0.070	0.014	526	524	1.215	0.194	0.043	0.097
Ever experienced any physical or sexual violence by husband/partner	0.370	0.027	456	452	1.191	0.073	0.316	0.424
Ever experienced any physical or sexual violence in the last 12 months	0.281	0.027	456	452	1.301	0.098	0.227	0.336
Total fertility rate (3 years)	5.500	0.249	4342	4305	1.251	0.045	5.003	5.997
Neonatal mortality rate (last 0-9 years)	36.191	3.550	2572	2690	0.995	0.098	29.090	43.291
Post-neonatal mortality rate (last 0-9 years)	79.439	12.460	2581	2705	2.322	0.157	54.518	104.360
Infant mortality rate (last 0-9 years)	115.630	12.597	2578	2699	1.959	0.109	90.435	140.825
Child mortality rate (last 0-9 years)	83.853	7.197	2601	2714	1.111	0.086	69.459	98.246
Under-five mortality rate (last 0-9 years)	189.787	14.522	2601	2719	1.885	0.077	160.742	218.831
HIV positive	0.014	0.005	713	724	1.052	0.327	0.005	0.024
MEN								
Urban residence	0.414	0.056	609	611	2.790	0.135	0.302	0.526
No education	0.485	0.043	609	611	2.105	0.088	0.399	0.570
Secondary or higher education	0.396	0.049	609	611	2.483	0.125	0.297	0.495
Never married (in union)	0.385	0.029	609	611	1.486	0.076	0.326	0.444
Currently married (in union)	0.589	0.030	609	611	1.496	0.051	0.529	0.649
Had first sexual intercourse before age 18	0.551	0.040	406	402	1.606	0.072	0.471	0.630
Want no more children	0.201	0.034	357	360	1.599	0.169	0.133	0.269
Want to delay birth at least 2 years	0.349	0.034	357	360	1.328	0.096	0.282	0.416
Ideal number of children	5.250	0.209	591	588	1.872	0.040	4.832	5.667
Had 2+ sexual partners in past 12 months	0.291	0.027	609	611	1.452	0.092	0.238	0.345
Had paid sex in past 12 months	0.038	0.009	609	611	1.186	0.242	0.020	0.056
Had HIV test and received results in past 12 months	0.035	0.009	609	611	1.159	0.248	0.017	0.052
Accepting attitudes towards people with HIV	0.051	0.013	586	578	1.419	0.254	0.025	0.077
HIV positive (15-49)	0.013	0.005	568	610	1.055	0.379	0.003	0.024

HIV positive (15-59)	0.012	0.005	629	681	1.050	0.379	0.003	0.021
WOMEN AND MEN								
HIV positive (15-49)	0.014	0.003	1281	1335	0.940	0.221	0.008	0.020