

## **Appendix A: Sample Implementation**

**Table A.1: Sample implementation — Women**

Percent distribution of households and eligible women by results of the household and individual interviews, and household, eligible women and overall response rates, according to urban-rural residence and region, Kiribati 2009

Result	Residence		Total
	Urban	Rural	
<b>Selected households</b>			
Completed (C)	95.1	97.2	96.3
Household present but no competent respondent at home (HP)	2.2	1.4	1.8
Refused (R)	0.3	0.0	0.1
Dwelling not found (DNF)	0.2	0.0	0.1
Household absent (HA)	1.0	1.3	1.2
Dwelling vacant/address not a dwelling (DV)	0.6	0.1	0.3
Dwelling destroy (DD)	0.3	0.0	0.1
Other (O)	0.3	0.0	0.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Number of sampled households	631	846	1,477
Household response rate (HRR) <sup>1</sup>	97.2	98.6	98.0
<b>Eligible women</b>			
Completed (EWC)	84.7	97.2	90.2
Not at home (EWNH)	8.0	0.9	4.9
Postponed (EWP)	0.2	0.1	0.2
Refused (EWR)	3.9	0.3	2.3
Incapacitated (EWI)	0.6	1.1	0.9
Other (EWO)	2.4	0.3	1.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Number of women	1,232	961	2,193
Eligible women response rate (EWRR) <sup>2</sup>	84.7	97.2	90.2
Overall response rate (ORR) <sup>3</sup>	82.4	95.8	88.4

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

<sup>2</sup> Using the number of eligible women falling into specific response categories, the eligible woman response rate (EWRR) is calculated as:

$$\frac{100 * EWC}{EWC + EWNH + EWP + EWR + EWPC + EWI + EWO}$$

<sup>3</sup> The overall response rate (ORR) is calculated as:

$$ORR = HRR * EWRR / 100$$

**Table A.1.1: Sample implementation — Men**

Percent distribution of households and eligible men by results of the household and individual interviews, and household, eligible men and overall response rates, according to urban-rural residence and region, Kiribati 2009

Result	Residence		Total
	Urban	Rural	
<b>Selected households</b>			
Completed (C)	95.3	98.1	96.9
Household present but no competent respondent at home (HP)	1.6	0.7	1.1
Refused (R)	0.3	0.0	0.1
Dwelling not found (DNF)	0.3	0.0	0.1
Household absent (HA)	0.6	1.2	0.9
Dwelling vacant/address not a dwelling (DV)	1.3	0.0	0.5
Dwelling destroy (DD)	0.6	0.0	0.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Number of sampled households	317	426	743
Household response rate (HRR) <sup>1</sup>	97.7	99.3	98.6
<b>Eligible men</b>			
Completed (EMC)	78.7	91.7	84.9
Not at home (EMNH)	12.0	3.3	7.9
Postponed (EMP)	0.9	0.6	0.7
Refused (EMR)	5.1	1.6	3.4
Incapacitated (EMI)	2.0	2.2	2.1
Other (EMO)	1.3	0.6	1.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Number of men	701	636	1,337
Eligible men response rate (EMRR) <sup>2</sup>	78.7	91.7	84.9
Overall response rate (ORR) <sup>3</sup>	77.0	91.0	83.7

<sup>1</sup> Using the number of households falling into specific response categories, the household response rate (HRR) is calculated as:

$$\frac{100 * C}{C + HP + P + R + DNF}$$

<sup>2</sup> Using the number of eligible women falling into specific response categories, the eligible woman response rate (EMRR) is calculated as:

$$\frac{100 * EWC}{EWC + EWNH + EWP + EWR + EWPC + EWI + EWO}$$

<sup>3</sup> The overall response rate (ORR) is calculated as:

$$ORR = HRR * EMRR / 100$$

## APPENDIX B: ESTIMATES OF SAMPLING ERRORS

### Estimates of sampling errors

The main objective of a DHS survey is to provide estimates of a number of basic demographic and health variables through interviews with a scientifically selected probability sample chosen from a well-defined population: women of reproductive age (15–49). Estimates from a sample survey are affected by two types of errors: non-sampling and sampling. Non-sampling 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 2009 Kiribati Demographic and Health Survey (SIDHS) to minimise this type of error, non-sampling 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 2009 KDHS 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.

Sampling errors are the errors that result from taking a sample of the covered population through a particular sample design. Non-sampling errors are systematic errors that would be present even if the entire population was covered (e.g. response errors, coding and data entry errors, etc.).

For the entire covered population and for large subgroups, the KDHS sample is generally sufficiently large to provide reliable estimates. For such populations the sampling error is small and less important than the non-sampling error. However, for small subgroups, sampling errors become very important in providing an objective measure of reliability of the data.

### Variables for reporting sampling error

Sampling errors will be displayed for total, urban and rural and each sample domain only. No other panels should be included in the sampling error table. The choice of variables for which sampling error computations will be done depends on the priority given to specific variables. However, it is recommended that sampling errors be calculated for at least the following variables, which was not case with Kiribati given the smallness of the sample compared to other countries in the Pacific.

**Table B.1: List of selected variables for sampling errors, Kiribati 2009**

Variable	Estimate	Base population
Urban	Proportion	All women
Literate	Proportion	All women
No education	Proportion	All women and all men
Secondary education	Proportion	All women and all men
Net attendance ratio	Ratio	Children aged 7–12 years (modify age according to country)
Never married	Proportion	All women and all men
Currently married	Proportion	All women and all men
Married before age 20	Proportion	Women aged 20–49 and men aged 20–54
Had sexual intercourse before age 18	Proportion	All women and all men
Currently pregnant	Proportion	All women
Children ever born	Mean	All women and all men
Children surviving	Mean	All women
Children ever born to women aged 40–49	Mean	Women aged 40–49
Total fertility rate (three years)	Rate	All women
Know any contraceptive method	Proportion	Currently married women and currently married men

Ever used any contraceptive method	Proportion	Currently married women
Currently using any contraceptive method	Proportion	Currently married women
Currently using pill	Proportion	Currently married women
Currently using IUD	Proportion	Currently married women
Currently using female sterilisation	Proportion	Currently married women
Currently using periodic abstinence	Proportion	Currently married women
Used public sector source	Proportion	Current users of modern methods
Want no more children	Proportion	Currently married women and currently married men
Want to delay birth at least twoyears	Proportion	Currently married women and currently married men
Ideal family size	Mean	All women and all men
Perinatal mortality (0–4 years)	Ratio	Number of pregnancies of 7+ months
Neonatal mortality (0–4 years)	Rate	Children exposed to the risk of mortality
Post-neonatal mortality (0–4 years)	Rate	Children exposed to the risk of mortality
Infant mortality (0–4 years)	Rate	Children exposed to the risk of mortality
Infant mortality (5–9 years)	Rate	Children exposed to the risk of mortality
Infant mortality (10–14 years)	Rate	Children exposed to the risk of mortality
Child mortality (0–4 years)	Rate	Children exposed to the risk of mortality
Under-5 mortality (0–4 years)	Rate	Children exposed to the risk of mortality
Mothers received tetanus injection for last birth	Proportion	Women with at least one live birth in five years before survey
Mothers received medical assistance at delivery	Proportion	Births occurring 1–59 months before interview
Having diarrhoea in two weeks before survey	Proportion	Children age 0–59 months
Treated with oral rehydration salts	Proportion	Children with diarrhoea in two weeks before interview
Taken to a health provider	Proportion	Children with diarrhoea in two weeks before interview
Vaccination card seen	Proportion	Children aged 12–23 months
Received BCG	Proportion	Children aged 12–23 months
Received DPT (3 doses)	Proportion	Children aged 12–23 months
Received Polio (3 doses)	Proportion	Children aged 12–23 months
Received measles	Proportion	Children aged 12–23 months
Height-for-age (-2SD)	Proportion	Children aged 0–59 months
Weight-for-height (-2SD)	Proportion	Children aged 0–59 months
Weight-for-age (-2SD)	Proportion	Children aged 0–59 months
Anaemic	Proportion	Children aged 6–59 months
Anaemic	Proportion	All women
BMI <18.5	Proportion	All women
Had 2+ sexual partners in past 12 months	Proportion	All women and all men
Had higher-risk intercourse (with a non-marital, non-cohabitating partner) in past 12 months	Proportion	All women and all men who had sexual intercourse in past 12 months
Condom use at last higher-risk intercourse	Proportion	All women and all men who had higher-risk intercourse in past 12 months
Condom use at last higher-risk intercourse (youth)	Proportion	All women and all men aged 15–24 who had higher-risk intercourse in past 12 months
Abstinence among youth (never had intercourse)	Proportion	Women aged 15–24 and men aged 15–24
Sexually active in past 12 months among never-married youth	Proportion	Women aged 15–24 and men aged 15–24
Paid for sexual intercourse in past 12 months	Proportion	All men
Had an injection in past 12 months	Proportion	All women and all men
Had HIV test and received results in past 12 months	Proportion	All women and all men
Accepting attitudes towards people with HIV	Proportion	All women and all men who have heard of HIV/AIDS
HIV prevalence (15–49)	Proportion	All women and all men who were tested for HIV
HIV prevalence (15–54) (15–59)	Proportion	All men aged 15–54 who were tested for HIV

For the 2009 KDHS, report, sampling errors for selected variables have been presented in a tabular format. The sampling error tables should include:

Variable name:

R: Value of the estimate;

SE: Sampling error of the estimate;

N: Un-weighted number of cases on which the estimate is based;

- WN: Weighted number of cases;
- DEFT: Design effect value that compensates for the loss of precision that results from using cluster rather than simple random sampling;
- SE/R: Relative standard error (i.e. the ratio of the sampling error to the value estimate);
- R-2SE: Lower limit of the 95% confidence interval;
- R+2SE: Upper limit of the 95% confidence interval (never >1.000 for a proportion).

Sampling errors are 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% of all possible samples of identical size and design.

If the sample of respondents had been selected by simple random sampling, it would have been possible to use straightforward formulas for calculating sampling errors. However, the 2009 KDHS sample was the result of a multistage stratified design, and, consequently, it is necessary to use more complex formulae. The computer software used to calculate sampling errors for the 2009 KDHS is the ISSA Sampling Error Module. This module uses the Taylor linearisation 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 linearisation 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:

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

in which,

$$z_{hi} = y_{hi} - rx_{hi}, \text{ and } z_h = y_h - rx_h$$

- where  $h$  represents the stratum which varies from 1 to  $H$ ,
- $m_h$  is the total number of clusters selected in the  $h^{\text{th}}$  stratum,
- $y_{hi}$  is the sum of the weighted values of variable  $y$  in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  stratum,
- $x_{hi}$  is the sum of the weighted number of cases in the  $i^{\text{th}}$  cluster in the  $h^{\text{th}}$  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 2009 KDHS, there were 68 non-empty clusters. Hence, 68 replications were created. The variance of a rate  $r$  is calculated as follows:

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

in which,

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

where  $r$  is the estimate computed from the full sample of 68 clusters,

$r_{(i)}$  is the estimate computed from the reduced sample of 67 clusters ( $i^{\text{th}}$  cluster excluded), and

$k$  is the total number of clusters.

In addition to the standard error, Integrated Sample Survey Analysis (ISSA) Software Program 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. ISSA also computes the relative error and confidence limits for the estimates.

Sampling errors for the 2009 KDHS are calculated for selected variables considered to be of primary interest for the women's survey and for men's surveys, respectively. The results are presented in this appendix for the country as a whole, and for urban and rural areas. For each variable, the type of statistic (mean, proportion, or rate) and the base population are given in Table B.1. Tables B.2 to B.9 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% confidence limits ( $R \pm 2SE$ ), for each variable. The DEFT is considered undefined when the SE considering simple random sample is zero (when the estimate is close to 0 or 1). In the case of the total fertility rate, the number of unweighted cases is not relevant, as there is no known unweighted value for woman-years of exposure to childbearing.

The confidence interval (example, as calculated for *children ever born to women aged 40–49*) can be interpreted as follows: the overall average from the national sample is 4.993 and its SE is 0.145. Therefore, to obtain the 95% confidence limits, one adds and subtracts twice the standard error to the sample estimate (i.e.  $4.993 \pm 2 \times 0.145$ ). There is a high probability (95%) that the *true* average number of children ever born to all women aged 40–49 is between 4.703 and 5.283.

Sampling errors are analysed for the national woman sample and for two separate groups of estimates: 1) means and proportions, and 2) complex demographic rates. The SE/R for the means and proportions range between 0.9% and 27.5%; the highest SE/Rs are for estimates of very low values (e.g. *currently using IUD*). So in general, the SE/R for most estimates for the country as a whole is small, except for estimates of very small proportions. However, for mortality rates, the averaged SE/R for the five-year period mortality rates is generally higher than those related to the 10-year estimates. There are differentials in the SE/R for the estimates of sub-populations. For example, for the variable *want no more children*, the SE/Rs as a percent of the estimated mean for the whole country, and for the urban areas are 3.9% and 6.2%, respectively.

**Table B.2 Sampling Errors for total women, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	0.474	0.022	1978	1978	0.011	0.499	1.997	0.106	0.047	0.429	0.519	1978	29.1
ILLITER	0.02	0.003	1957	1957	0.003	0.14	1.042	0.003	0.165	0.013	0.027	1957	28.8
NOEDUC	0.004	0.002	1978	1978	0.001	0.064	1.076	0.006	0.374	0.001	0.007	1978	29.1
SECOND	0.676	0.013	1978	1978	0.011	0.468	1.249	0.02	0.019	0.65	0.703	1978	29.1
ATTEND	0.84	0.012	1246	1241	0.01	0.368	1.147	0.018	0.014	0.816	0.864	1422	18.3
NEVMAR	0.236	0.011	1978	1978	0.01	0.425	1.181	0.014	0.048	0.213	0.259	1978	29.1
CURMAR	0.683	0.012	1978	1978	0.01	0.465	1.194	0.015	0.018	0.658	0.708	1978	29.1
AGEM20	0.465	0.013	1641	1644	0.012	0.499	1.016	0.001	0.027	0.44	0.49	1641	24.1
PREGNANT	0.062	0.006	1978	1978	0.005	0.241	1.177	0.014	0.103	0.049	0.075	1978	29.1
EVBORNT	2.16	0.059	1978	1978	0.053	2.352	1.108	0.008	0.027	2.043	2.277	1978	29.1
SURVIV	1.986	0.054	1978	1978	0.048	2.15	1.116	0.009	0.027	1.878	2.094	1978	29.1
EV40	4.428	0.144	432	432	0.124	2.584	1.162	0.066	0.033	4.14	4.717	432	6.4
KMETHO	0.956	0.006	1338	1352	0.006	0.205	1.048	0.005	0.006	0.944	0.968	1338	19.7
EVUSE	0.511	0.014	1338	1352	0.014	0.5	1.043	0.005	0.028	0.483	0.54	1338	19.7
CUSE	0.223	0.013	1338	1352	0.011	0.416	1.165	0.019	0.06	0.196	0.249	1338	19.7
CUPILL	0.013	0.003	1338	1352	0.003	0.113	1.056	0.006	0.252	0.006	0.02	1338	19.7
CUIUD	0.006	0.002	1338	1352	0.002	0.077	0.907	-0.009	0.322	0.002	0.01	1338	19.7
CUFSTER	0.04	0.005	1338	1352	0.005	0.197	0.956	-0.005	0.128	0.03	0.051	1338	19.7
CUPABS	0.033	0.005	1338	1352	0.005	0.178	0.935	-0.007	0.139	0.023	0.042	1338	19.7
PSOURC	0.857	0.026	257	262	0.022	0.351	1.179	0.14	0.03	0.805	0.908	257	3.8
NOMORE	0.368	0.012	1338	1352	0.013	0.483	0.935	-0.007	0.033	0.344	0.393	1338	19.7
DELAY	0.16	0.012	1338	1352	0.01	0.367	1.235	0.028	0.077	0.135	0.185	1338	19.7
IDEAL	2.696	0.047	1886	1889	0.039	1.696	1.194	0.016	0.017	2.603	2.789	1886	27.7
PERINAT	23.821	5.172	1085	1101	4.727	155.7	1.094	0.013	0.217	13.477	34.164	1978	16
TETANU	0.437	0.018	775	787	0.018	0.492	1.021	0.004	0.041	0.401	0.474	1978	11.4
MEDELI	0.816	0.016	1083	1099	0.013	0.435	1.193	0.028	0.019	0.784	0.847	1978	15.9
DIAR2W	0.104	0.011	1016	1031	0.01	0.316	1.08	0.012	0.103	0.082	0.125	1978	14.9
ORSTRE	0.615	0.054	103	107	0.049	0.497	1.097	0.309	0.087	0.507	0.722	1978	1.7
MEDTRE	0.659	0.054	103	107	0.049	0.493	1.109	0.346	0.082	0.552	0.767	1978	1.7
HCARD	0.221	0.031	230	233	0.028	0.42	1.134	0.12	0.142	0.158	0.284	1978	3.4
BCG	0.894	0.017	230	233	0.02	0.306	0.837	-0.126	0.019	0.861	0.928	1978	3.4
DPT	0.614	0.034	230	233	0.032	0.487	1.059	0.051	0.055	0.546	0.682	1978	3.4
POLIO	0.481	0.037	230	233	0.033	0.502	1.118	0.105	0.077	0.407	0.555	1978	3.4
MEASLE	0.691	0.026	230	233	0.031	0.465	0.844	-0.121	0.037	0.639	0.743	1978	3.4
WGTAGE	0.149	0.012	1049	1045	0.012	0.386	0.982	-0.003	0.079	0.125	0.172	1422	15.4



**Table B.3: Sampling errors for urban women sample, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	1	0	1044	937	0	0 #NAME?	-0.032	0	1	1	1044	32.6	
ILLITER	0.014	0.004	1034	928	0.004	0.118	1.087	0.006	0.283	0.006	0.022	1034	32.3
NOEDUC	0.004	0.002	1044	937	0.002	0.062	1.017	0.001	0.508	0	0.008	1044	32.6
SECOND	0.788	0.014	1044	937	0.013	0.409	1.129	0.009	0.018	0.76	0.817	1044	32.6
ATTEND	0.809	0.022	542	493	0.017	0.393	1.283	0.04	0.027	0.765	0.852	600	16.9
NEVMAR	0.315	0.019	1044	937	0.014	0.465	1.346	0.026	0.061	0.276	0.353	1044	32.6
CURMAR	0.609	0.017	1044	937	0.015	0.488	1.096	0.006	0.027	0.575	0.642	1044	32.6
AGEM20	0.398	0.019	832	741	0.017	0.49	1.105	0.009	0.047	0.36	0.435	832	26
PREGNANT	0.047	0.005	1044	937	0.007	0.211	0.783	-0.012	0.11	0.036	0.057	1044	32.6
EVBORN	1.777	0.073	1044	937	0.069	2.216	1.07	0.005	0.041	1.63	1.924	1044	32.6
SURVIV	1.65	0.066	1044	937	0.064	2.055	1.039	0.003	0.04	1.518	1.782	1044	32.6
EV40	4.13	0.189	207	184	0.177	2.546	1.069	0.026	0.046	3.752	4.509	207	6.5
KMETHO	0.919	0.011	642	570	0.011	0.273	1.061	0.007	0.012	0.896	0.942	642	20.1
EVUSE	0.436	0.017	642	570	0.02	0.496	0.886	-0.011	0.04	0.401	0.47	642	20.1
CUSE	0.191	0.016	642	570	0.016	0.393	1.024	0.003	0.083	0.159	0.222	642	20.1
CUPILL	0.011	0.004	642	570	0.004	0.104	1.029	0.003	0.387	0.002	0.019	642	20.1
CUIUD	0.005	0.003	642	570	0.003	0.068	0.979	-0.002	0.568	-0.001	0.01	642	20.1
CUFSTER	0.042	0.008	642	570	0.008	0.201	0.946	-0.005	0.178	0.027	0.057	642	20.1
CUPABS	0.019	0.005	642	570	0.005	0.137	0.974	-0.003	0.275	0.009	0.03	642	20.1
PSOURC	0.835	0.046	108	96	0.036	0.373	1.274	0.263	0.055	0.744	0.927	108	3.4
NOMORE	0.323	0.016	642	570	0.018	0.468	0.871	-0.013	0.05	0.291	0.355	642	20.1
DELAY	0.187	0.012	642	570	0.015	0.391	0.758	-0.022	0.062	0.164	0.211	642	20.1
IDEAL	2.559	0.047	986	885	0.05	1.576	0.937	-0.004	0.018	2.465	2.653	986	30.8
PERINAT	9.34	4.218	499	442	4.323	96.559	0.976	-0.003	0.452	0.904	17.775	1044	15.6
TETANU	0.507	0.029	360	321	0.026	0.502	1.083	0.017	0.057	0.45	0.564	1044	11.3
MEDELI	0.865	0.015	498	441	0.017	0.388	0.874	-0.016	0.018	0.835	0.896	1044	15.6
DIAR2W	0.083	0.012	472	419	0.014	0.298	0.848	-0.02	0.14	0.06	0.107	1044	14.8
ORSTRE	0.755	0.074	40	35	0.071	0.448	1.049	0.233	0.098	0.607	0.904	1044	1.4
MEDTRE	0.784	0.065	40	35	0.068	0.427	0.965	-0.159	0.083	0.653	0.914	1044	1.4
HCARD	0.152	0.031	110	98	0.034	0.361	0.904	-0.075	0.204	0.09	0.214	1044	3.4
BCG	0.909	0.027	110	98	0.028	0.289	0.996	-0.003	0.03	0.854	0.964	1044	3.4
DPT	0.626	0.044	110	98	0.046	0.488	0.956	-0.035	0.071	0.537	0.715	1044	3.4
POLIO	0.471	0.054	110	98	0.048	0.505	1.129	0.112	0.115	0.363	0.58	1044	3.4
MEASLE	0.721	0.029	110	98	0.043	0.451	0.666	-0.228	0.04	0.664	0.778	1044	3.4
WGTAGE	0.133	0.014	476	435	0.017	0.374	0.825	-0.023	0.106	0.105	0.161	600	14.9

**Table B.4: Sampling errors for rural women sample, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	0	0	934	1041	0	0	#NAME?	-0.04	#NAME?	0	0	934	25.9
ILLITER	0.025	0.005	923	1029	0.005	0.158	0.923	-0.006	0.188	0.016	0.035	923	25.6
NOEDUC	0.004	0.002	934	1041	0.002	0.067	1.099	0.008	0.537	0	0.009	934	25.9
SECOND	0.576	0.023	934	1041	0.016	0.495	1.401	0.039	0.039	0.53	0.621	934	25.9
ATTEND	0.86	0.014	704	748	0.013	0.347	1.099	0.011	0.017	0.832	0.889	822	19.6
NEVMAR	0.165	0.011	934	1041	0.012	0.372	0.935	-0.005	0.069	0.142	0.188	934	25.9
CURMAR	0.751	0.019	934	1041	0.014	0.433	1.339	0.032	0.025	0.713	0.788	934	25.9
AGEM20	0.521	0.016	809	904	0.018	0.5	0.916	-0.008	0.031	0.488	0.553	809	22.5
PREGNANT	0.076	0.011	934	1041	0.009	0.265	1.311	0.029	0.15	0.053	0.099	934	25.9
EVBORN	2.505	0.082	934	1041	0.079	2.418	1.033	0.003	0.033	2.341	2.668	934	25.9
SURVIV	2.288	0.077	934	1041	0.072	2.19	1.068	0.006	0.033	2.135	2.441	934	25.9
EV40	4.649	0.213	225	249	0.173	2.594	1.229	0.097	0.046	4.223	5.074	225	6.3
KMETHO	0.983	0.004	696	781	0.005	0.129	0.905	-0.01	0.004	0.974	0.992	696	19.3
EVUSE	0.567	0.023	696	781	0.019	0.496	1.205	0.025	0.04	0.521	0.612	696	19.3
CUSE	0.246	0.02	696	781	0.016	0.431	1.198	0.024	0.08	0.207	0.285	696	19.3
CUPILL	0.014	0.005	696	781	0.005	0.12	1.048	0.005	0.328	0.005	0.024	696	19.3
CUIUD	0.007	0.003	696	781	0.003	0.083	0.857	-0.014	0.391	0.001	0.012	696	19.3
CUFSTER	0.039	0.007	696	781	0.007	0.194	0.954	-0.005	0.18	0.025	0.053	696	19.3
CUPABS	0.042	0.007	696	781	0.008	0.201	0.876	-0.013	0.158	0.029	0.056	696	19.3
PSOURC	0.869	0.031	149	166	0.028	0.339	1.105	0.07	0.035	0.808	0.93	149	4.1
NOMORE	0.401	0.018	696	781	0.019	0.491	0.983	-0.002	0.046	0.365	0.438	696	19.3
DELAY	0.14	0.019	696	781	0.013	0.347	1.431	0.057	0.134	0.103	0.178	696	19.3
IDEAL	2.817	0.079	900	1004	0.06	1.787	1.318	0.031	0.028	2.66	2.974	900	25
PERINAT	33.532	8.318	586	659	7.629	184.667	1.09	0.012	0.248	16.896	50.168	934	16.3
TETANU	0.39	0.025	415	466	0.024	0.486	1.032	0.006	0.063	0.34	0.439	934	11.5
MEDELI	0.782	0.023	585	658	0.019	0.463	1.201	0.029	0.029	0.736	0.828	934	16.3
DIAR2W	0.117	0.016	544	611	0.014	0.329	1.148	0.023	0.138	0.085	0.15	934	15.1
ORSTRE	0.546	0.067	63	72	0.064	0.506	1.05	0.12	0.123	0.412	0.68	934	1.9
MEDTRE	0.599	0.069	63	72	0.065	0.514	1.061	0.147	0.115	0.461	0.736	934	1.9
HCARD	0.271	0.053	120	135	0.041	0.453	1.28	0.273	0.195	0.165	0.377	934	3.3
BCG	0.884	0.021	120	135	0.029	0.32	0.703	-0.217	0.023	0.843	0.925	934	3.3
DPT	0.606	0.049	120	135	0.045	0.492	1.088	0.079	0.081	0.508	0.704	934	3.3
POLIO	0.488	0.05	120	135	0.046	0.505	1.09	0.081	0.103	0.387	0.588	934	3.3
MEASLE	0.669	0.04	120	135	0.044	0.478	0.919	-0.066	0.06	0.589	0.75	934	3.3
WGTAGE	0.16	0.017	573	611	0.016	0.392	1.037	0.005	0.106	0.126	0.194	822	15.9

**Table B.5: Sampling errors for total men, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	0.448	0.024	945	943	0.016	0.498	1.456	0.087	0.053	0.401	0.496	945	13.9
NOEDUC	0.012	0.004	945	943	0.004	0.109	1.2	0.034	0.354	0.003	0.021	945	13.9
EDUC	0.648	0.017	945	943	0.016	0.478	1.073	0.012	0.026	0.615	0.682	945	13.9
NEVMAR	0.377	0.018	945	943	0.016	0.485	1.125	0.021	0.047	0.342	0.413	945	13.9
CURMAR	0.602	0.019	945	943	0.016	0.49	1.196	0.033	0.032	0.563	0.64	945	13.9
KMETHO	0.971	0.009	566	567	0.007	0.167	1.289	0.09	0.009	0.953	0.989	566	8.3
KMODME	0.96	0.012	566	567	0.008	0.196	1.466	0.157	0.013	0.936	0.984	566	8.3
EVUSE	0.588	0.024	566	567	0.021	0.493	1.144	0.042	0.04	0.541	0.636	566	8.3
CUSE	0.222	0.019	566	567	0.017	0.416	1.074	0.021	0.085	0.185	0.26	566	8.3
CUMODE	0.114	0.013	566	567	0.013	0.318	0.951	-0.013	0.111	0.089	0.14	566	8.3
CUPILL	0.014	0.005	566	567	0.005	0.117	1.118	0.034	0.398	0.003	0.025	566	8.3
CUIUD	0.002	0.002	566	567	0.002	0.043	1.025	0.007	1.002	-0.002	0.006	566	8.3
CUINJ	0.016	0.005	566	567	0.005	0.126	0.939	-0.016	0.308	0.006	0.026	566	8.3
CUNORP	0.014	0.005	566	567	0.005	0.118	1.098	0.028	0.385	0.003	0.025	566	8.3
CUCOND	0.028	0.007	566	567	0.007	0.166	0.94	-0.016	0.232	0.015	0.041	566	8.3
CUFSTER	0.014	0.004	566	567	0.005	0.118	0.717	-0.066	0.253	0.007	0.021	566	8.3
CUMSTER	0.026	0.007	566	567	0.007	0.159	1.041	0.011	0.268	0.012	0.04	566	8.3
CUPABS	0.047	0.007	566	567	0.009	0.211	0.832	-0.042	0.158	0.032	0.062	566	8.3
CUWITH	0.048	0.009	566	567	0.009	0.214	0.964	-0.01	0.181	0.031	0.065	566	8.3
NOMORE	0.371	0.018	566	567	0.02	0.484	0.89	-0.028	0.049	0.335	0.407	566	8.3
DELAY	0.195	0.014	566	567	0.017	0.396	0.814	-0.046	0.07	0.168	0.222	566	8.3
IDEAL	2.268	0.064	772	775	0.066	1.84	0.965	-0.007	0.028	2.14	2.396	772	11.4

**Table B.6: Sampling errors for total urban men sample, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	1	0	470	423	0	0 #NAME?	-0.073	0	1	1	470	14.7	
NOEDUC	0.016	0.008	470	423	0.006	0.126	1.352	0.06	0.486	0	0.032	470	14.7
EDUC	0.75	0.021	470	423	0.02	0.433	1.076	0.011	0.029	0.707	0.793	470	14.7
NEVMAR	0.423	0.027	470	423	0.023	0.495	1.187	0.03	0.064	0.369	0.477	470	14.7
CURMAR	0.551	0.029	470	423	0.023	0.498	1.246	0.04	0.052	0.494	0.608	470	14.7
KMETHO	0.99	0.007	264	233	0.006	0.098	1.153	0.045	0.007	0.976	1.004	264	8.3
KMODME	0.99	0.007	264	233	0.006	0.098	1.153	0.045	0.007	0.976	1.004	264	8.3
EVUSE	0.637	0.04	264	233	0.03	0.482	1.364	0.119	0.064	0.556	0.718	264	8.3
CUSE	0.257	0.035	264	233	0.027	0.438	1.304	0.097	0.137	0.187	0.327	264	8.3
CUMODE	0.155	0.026	264	233	0.022	0.362	1.166	0.05	0.168	0.103	0.207	264	8.3
CUPILL	0.025	0.012	264	233	0.01	0.155	1.233	0.072	0.479	0.001	0.048	264	8.3
CUIUD	0	0	264	233	0	0 #NAME?	-0.138	#NAME?	0	0	264	8.3	
CUINJ	0.026	0.009	264	233	0.01	0.159	0.947	-0.014	0.358	0.007	0.044	264	8.3
CUNORP	0.024	0.011	264	233	0.009	0.154	1.158	0.047	0.454	0.002	0.046	264	8.3
CUCOND	0.049	0.014	264	233	0.013	0.216	1.07	0.02	0.291	0.021	0.078	264	8.3
CUFSTER	0.017	0.006	264	233	0.008	0.128	0.725	-0.065	0.344	0.005	0.028	264	8.3
CUMSTER	0.014	0.008	264	233	0.007	0.119	1.034	0.01	0.529	-0.001	0.03	264	8.3
CUPABS	0.024	0.01	264	233	0.009	0.153	1.029	0.008	0.405	0.005	0.043	264	8.3
CUWITH	0.055	0.015	264	233	0.014	0.228	1.039	0.011	0.266	0.026	0.084	264	8.3
NOMORE	0.402	0.027	264	233	0.03	0.491	0.903	-0.025	0.068	0.347	0.457	264	8.3
DELAY	0.177	0.022	264	233	0.024	0.383	0.917	-0.022	0.122	0.134	0.221	264	8.3
IDEAL	2.023	0.113	349	310	0.1	1.86	1.138	0.03	0.056	1.797	2.25	349	10.9

**Table B.7: Sampling errors for total rural men sample, Kiribati 2009**

Code	R	SE	N-UNWE	N-WEIG	SER	SD	DEFT	ROH	SE/R	R-2SE	R+2SE	SAMP_BASE	B
URBAN	0	0	475	520	0	0	#NAME?	-0.082	#NAME?	0	0	475	13.2
NOEDUC	0.009	0.004	475	520	0.004	0.092	1.038	0.006	0.513	0	0.017	475	13.2
EDUC	0.565	0.023	475	520	0.023	0.496	1.026	0.004	0.041	0.519	0.612	475	13.2
NEVMAR	0.34	0.023	475	520	0.022	0.474	1.035	0.006	0.066	0.295	0.385	475	13.2
CURMAR	0.643	0.025	475	520	0.022	0.48	1.12	0.021	0.038	0.593	0.692	475	13.2
KMETHO	0.958	0.014	302	334	0.012	0.201	1.229	0.069	0.015	0.929	0.986	302	8.4
KMODME	0.939	0.019	302	334	0.014	0.239	1.413	0.135	0.021	0.9	0.978	302	8.4
EVUSE	0.555	0.029	302	334	0.029	0.498	1.019	0.005	0.053	0.496	0.613	302	8.4
CUSE	0.198	0.02	302	334	0.023	0.399	0.868	-0.033	0.101	0.158	0.238	302	8.4
CUMODE	0.086	0.012	302	334	0.016	0.281	0.744	-0.06	0.14	0.062	0.11	302	8.4
CUPILL	0.006	0.004	302	334	0.005	0.079	0.95	-0.013	0.69	-0.002	0.015	302	8.4
CUJUD	0.003	0.003	302	334	0.003	0.056	0.978	-0.006	1.005	-0.003	0.009	302	8.4
CUINJ	0.009	0.005	302	334	0.006	0.097	0.969	-0.008	0.574	-0.001	0.02	302	8.4
CUNORP	0.007	0.005	302	334	0.005	0.084	1.051	0.014	0.713	-0.003	0.017	302	8.4
CUCOND	0.014	0.005	302	334	0.007	0.117	0.776	-0.054	0.378	0.003	0.024	302	8.4
CUFSTER	0.012	0.004	302	334	0.006	0.11	0.708	-0.067	0.368	0.003	0.021	302	8.4
CUMSTER	0.034	0.01	302	334	0.01	0.182	0.987	-0.004	0.303	0.013	0.055	302	8.4
CUPABS	0.063	0.011	302	334	0.014	0.243	0.754	-0.058	0.168	0.042	0.084	302	8.4
CUWITH	0.043	0.01	302	334	0.012	0.204	0.89	-0.028	0.241	0.023	0.064	302	8.4
NOMORE	0.35	0.024	302	334	0.027	0.478	0.869	-0.033	0.068	0.302	0.398	302	8.4
DELAY	0.207	0.017	302	334	0.023	0.406	0.727	-0.064	0.082	0.173	0.241	302	8.4
IDEAL	2.431	0.071	423	466	0.088	1.811	0.809	-0.032	0.029	2.288	2.573	423	11.8

**Table B.8: Sampling errors for 5 years mortality rates, Kiribati 2009**

Variable	R	SE	SE/R	R-2SE	R+2SE
Neonatal mortality (last 0-4 years)	25.587	5.455	0.213	14.676	36.498
Post-neonatal mortality (last 0-4 years)	17.032	4.084	0.24	8.864	25.2
Infant mortality (last 0-4 years)	42.619	7.426	0.174	27.767	57.472
Child mortality (last 0-4 years)	33.978	6.982	0.205	20.013	47.942
Under-five mortality (last 0-4 years)	75.149	11.069	0.147	53.011	97.286

**Table B.9: Sampling errors for 10 years mortality rates, Kiribati 2009**

Variable	R	SE	SE/R	R-2SE	R+2SE
Neonatal mortality (last 0-9 years)	28.902	5.543	0.192	17.817	39.987
Post-neonatal mortality (last 0-9 years)	20.326	3.949	0.194	12.428	28.224
Infant mortality (last 0-9 years)	49.228	6.918	0.141	35.392	63.065
Child mortality (last 0-9 years)	20.86	4.093	0.196	12.675	29.046
Under-five mortality (last 0-9 years)	69.062	7.615	0.11	53.832	84.292

## **APPENDIX C: DATA QUALITY TABLES**

**Table C.1: Household age distribution**

*Single-year age distribution of the de facto household population by sex (weighted), Kiribati 2009*

Age	Women		Men	
	Number	Percent	Number	Percent
0	118	2.7	124	3.0
1	116	2.6	132	3.2
2	110	2.5	103	2.5
3	112	2.6	119	2.8
4	104	2.4	113	2.7
5	82	1.9	106	2.5
6	115	2.6	107	2.6
7	101	2.3	87	2.1
8	84	1.9	88	2.1
9	116	2.6	108	2.6
10	100	2.3	117	2.8
11	119	2.7	98	2.4
12	119	2.7	122	2.9
13	124	2.8	105	2.5
14	112	2.6	116	2.8
15	77	1.8	68	1.6
16	62	1.4	94	2.3
17	63	1.4	76	1.8
18	84	1.9	81	1.9
19	75	1.7	81	1.9
20	92	2.1	101	2.4
21	93	2.1	78	1.9
22	76	1.7	79	1.9
23	86	2.0	81	1.9
24	67	1.5	68	1.6
25	85	1.9	69	1.6
26	78	1.8	71	1.7
27	72	1.6	79	1.9
28	69	1.6	52	1.3
29	53	1.2	69	1.6
30	81	1.8	79	1.9
31	48	1.1	36	0.9
32	51	1.2	49	1.2
33	47	1.1	55	1.3
34	60	1.4	40	1.0
35	50	1.1	45	1.1
36	54	1.2	38	0.9
37	39	0.9	38	0.9
38	57	1.3	51	1.2
39	53	1.2	57	1.4
40	56	1.3	52	1.3
41	55	1.3	29	0.7
42	50	1.1	40	0.9
43	49	1.1	49	1.2
44	44	1.0	44	1.1
45	37	0.8	46	1.1
46	48	1.1	37	0.9
47	40	0.9	49	1.2
48	55	1.3	49	1.2
49	38	0.9	52	1.2
50	62	1.4	51	1.2
51	38	0.9	17	0.4
52	34	0.8	16	0.4
53	37	0.8	32	0.8
54	34	0.8	28	0.7

**Table C.1 (continued)**

Age	Women		Men	
	Number	Percent	Number	Percent
55	32	0.7	20	0.5
56	30	0.7	21	0.5
57	26	0.6	22	0.5
58	23	0.5	23	0.5
59	26	0.6	19	0.5
60	26	0.6	16	0.4
61	14	0.3	7	0.2
62	12	0.3	13	0.3
63	14	0.3	15	0.3
64	14	0.3	21	0.5
65	18	0.4	13	0.3
66	7	0.2	15	0.3
67	11	0.3	12	0.3
68	16	0.4	10	0.2
69	15	0.3	22	0.5
70+	126	2.9	59	1.4
Total	4,390	100.0	4,180	100.0

**Table C.2: Age distribution of eligible and interviewed women**

*De facto household population of women age 10-54, interviewed women age 15-49, and percentage of eligible women who were interviewed (weighted), by five-year age groups, Kiribati 2009*

Age group	Household population of women age 10-54	Interviewed women age 15-49		
		Number	Percent	Percent of women
10-14	574	-	-	-
15-19	360	326	16.8	90.4
20-24	416	384	19.7	92.4
25-29	357	329	16.9	92.1
30-34	287	256	13.2	89.4
35-39	254	235	12.1	92.5
40-44	254	228	11.7	89.7
45-49	217	188	9.6	86.4
50-54	205	-	-	-
15-49	2,145	1,945	100.0	90.7

Note: The de facto population includes all residents and non-residents who stayed in the household the night before the interview. Weights for both household population of women and interviewed women are household weights. Age is based on the household schedule.

na = Not applicable

**Table C.3: Completeness of reporting**

*Percentage of observations missing information for selected demographic and health questions (weighted), Kiribati 2009*

Subject	Percentage with missing information	Number of cases
Month Only (births in last 15 years)	0.59	2,941
Month and Year (births in last 15 years)	0.14	2,941
Age at Death (deceased children born in the last 15 years)	4.54	215
Age/date at first union (ever married women) <sup>1</sup>	0.35	1,511
Age/date at first union (ever married men) <sup>1</sup>	0.97	776
Respondent's education (all women)	0.09	1,978
Respondent's education (all men)	0.17	1,135
Diarrhea in last 2 weeks (living children 0-59)	5.88	1,031
Height (living children 0-59 from Household Questionnaire)	0.00	1,141
Weight (living children 0-59 from Household Questionnaire)	0.42	1,141
Height or weight (living children 0-59 from Household Questionnaire)	0.42	1,141

<sup>1</sup> Both year and age missing



**Table C.4: Births by calendar years**

Number of births, percentage with complete birth date, sex ratio at birth, and calendar year ratio by calendar year, according to living (L), dead (D), and total (T) children (weighted), Kiribati 2009

Calendar year	Number of births			Percentage with complete birth date <sup>1</sup>			Sex ratio at birth <sup>2</sup>			Calendar year ratio <sup>3</sup>		
	L	D	T	L	D	T	L	D	T	L	D	T
0	192	16	208	100	93.4	99.5	91.8	173.7	96.4	-	-	-
1	210	12	222	100	100	100	118.3	113.3	118	-	-	-
2	182	17	200	100	100	100	119.1	80.7	115.2	92.4	98.4	92.9
3	185	23	208	100	100	100	100.3	67.5	96.1	99.7	118.1	101.4
4	189	21	210	99.3	93.1	98.7	96.1	176.8	102	106.5	141.6	109.2
5	170	7	177	99.5	100	99.5	91.5	524.6	96.9	103	45.7	98.1
6	140	10	150	100	90.2	99.4	149.8	217.7	153.4	78.4	78.6	78.5
7	188	18	206	99	100	99.1	82.4	89.7	83	122	194.8	126.1
8	168	9	177	97.7	100	97.8	104.5	100	104.3	91.7	48.1	87.8
9	179	18	196	99.5	100	99.5	79.9	126	83.3	109.1	182.9	113.2
0-4	958	89	1,047	99.9	97.2	99.6	104.7	111.3	105.2	-	-	-
5-9	845	61	905	99.1	98.4	99.1	96.7	136.8	99	-	-	-
10-14	739	63	802	98.7	93.6	98.3	95.3	115.3	96.7	-	-	-
15-19	516	61	577	98.4	95.2	98	89.3	131.2	93	-	-	-
20+	450	51	501	96.7	91	96.1	107.3	117.8	108.4	-	-	-
All	3,508	325	3,833	98.8	95.4	98.5	98.7	121.1	100.4	-	-	-

NA = Not applicable

<sup>1</sup> Both year and month of birth given

<sup>2</sup>  $(B_m/B_f) \times 100$ , where  $B_m$  and  $B_f$  are the numbers of male and female births, respectively

<sup>3</sup>  $[2B_x / (B_{x-1} + B_{x+1})] \times 100$ , where  $B_x$  is the number of births in calendar year  $x$

**Table C.5: Reporting of age at death in days**

*Distribution of reported deaths under one month of age by age at death in days and the percentage of neonatal deaths reported to occur at ages 0-6 days, for five-year periods of birth preceding the survey (weighted), Kiribati 2009*

Age at death (days)	Number of years preceding the survey				Total 0-19
	0-4	5-9	10-14	15-19	
<1	10	13	11	5	39
1	5	6	7	4	23
2	4	0	4	0	7
3	3	2	3	4	12
4	3	0	0	0	3
5	0	0	0	1	1
6	0	0	1	0	1
7	0	1	0	1	2
9	1	0	0	0	1
13	0	2	1	1	3
16	0	0	1	0	1
21	0	1	0	0	1
22	1	0	0	0	1
27	0	0	1	0	1
Total 0-30	26	25	28	16	96
Percent early neonatal <sup>1</sup>	93.1	84.8	91.1	87.0	89.3

<sup>1</sup> = 6 days / = 30 days

**Table C.6: Reporting of age at death in months**

*Distribution of reported deaths under two years of age by age at death in months and the percentage of infant deaths reported to occur at age under one month, for five-year periods of birth preceding the survey, Kiribati 2009*

Age at death (months)	Number of years preceding the survey				Total 0-19
	0-4	5-9	10-14	15-19	
<1 <sup>a</sup>	26	25	28	16	96
1	2	6	6	1	15
2	1	3	2	0	6
3	2	2	0	1	5
4	3	0	0	2	5
5	1	3	1	0	5
6	0	0	2	0	2
7	1	1	1	1	4
8	1	2	0	3	6
9	1	2	1	1	4
10	1	0	0	0	1
11	1	2	4	2	9
24+	0	0	1	1	2
1 Year	12	13	9	4	37
Total 0-11	40	45	45	27	157
Percent neonatal <sup>1</sup>	64.5	55.4	63.4	60.9	61.0

<sup>a</sup> Includes deaths under one month reported in days

<sup>1</sup> Under one month / under one year

## APPENDIX D: LIST OF PEOPLE INVOLVED IN THE 2009 Kiribati DHS

### List of Field Interviewers and Supervisors

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1	Emma Paul
2	Katerishika J
3	Kabwebwe Raiwan
4	Bairee Beniamina
5	Bwebwenratu M
6	Bwaare T
7	Tereua Botaam
8	Angiua Tiaon
9	Eritabeta Tekitanga
10	Matite Kourabi
11	Meerita Airan
12	Arirei Atanati
13	Beretia Iotebwa
14	Ebwa Moaiti
15	Tiebane
16	Koobuti Bonteman
17	Moaniti Teuea
18	Neneia Kaebwa
19	Raubo Bateri
20	Riteti K
21	Tinia Karotu
22	Biromina Itonga
23	Tarere Temariti
24	Tirikai K
25	Dorothy Taawa
26	Kaekea Abeta
27	Mimari Tioti
28	Teraiwete Ietau
29	Tooreka Teboi
30	Burenimakin Rotia
31	Kautu Atanimakin
32	Retiana Tokintekai
33	Teube Tangibi
34	Etita T
35	Taungare Tioera
36	Uriam Erabute
37	Berini Taitai
38	Itinnang Uan
39	Rimwaua Rui
40	Taabita Ioteba
41	Taranga K

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42	Tetanene
43	Nakina K
44	Been Ioane
45	Eria Komeri
46	Takeua Tetaake
47	Tinabora Teubei
48	Barry Tebaau
49	Kamwemwetaake Ienraoi
50	Tarabotu Ataata
51	Tarimwe Bwaia
52	Bweneata
53	Kautotoki Matia
54	Tiriata
55	Tanintoa K
56	Maerua T
57	Beiabure
58	Arieta
59	Kiangang Kairati
60	Kourabi Ioane
61	Titeera Bauro

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## **APPENDIX E: 2009 Kiribati DHS QUESTIONNAIRES**



**Introduction and Consent**

Hello. My name is \_\_\_\_\_ and I am working with the National Statistics Office  
We are conducting a national survey about various health issues. We would very much appreciate  
your participation in this survey. The survey usually takes between 10 and 15 minutes to complete.

As part of the survey we would first like to ask some questions about your household. All of the answers you give will be  
confidential. We hope you will participate in the survey since your views are important.

At this time, do you want to ask me anything about the survey?  
May I begin the interview now?

Signature of interviewer: \_\_\_\_\_ Date: \_\_\_\_\_

RESPONDENT AGREES TO BE INTERVIEWED . . . 1    RESPONDENT DOES NOT AGREE TO BE INTERVIEWED . . . 2    END

**HOUSEHOLD SCHEDULE**

LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESIDENCE		AGE	IF AGE 15 OR OLDER	ELIGIBILITY		
				Does (NAME) usually live here?	Did (NAME) stay here last night?		MARITAL STATUS	CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49	CIRCLE LINE NUMBER OF ALL MEN AGE 15+	CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5
	Please give me the names of the persons who usually live in your household and guests of the household who stayed here last night, starting with the head of the household.  AFTER LISTING THE NAMES AND RECORDING THE RELATIONSHIP AND SEX FOR EACH PERSON, ASK QUESTIONS 2A-2C TO BE SURE THAT THE LISTING IS COMPLETE.  THEN ASK APPROPRIATE QUESTIONS IN COLUMNS 5-22 FOR EACH PERSON.	What is the relationship of (NAME) to the head of the household?  SEE CODES BELOW.	Is (NAME) male or female?	Does (NAME) usually live here?	Did (NAME) stay here last night?	How old is (NAME)?	What is (NAME'S) current marital status?  1 = MARRIED OR LIVING TOGETHER 2 = DIVORCED/ SEPARATED 3 = WIDOWED 4 = NEVER-MARRIED AND NEVER LIVED TOGETHER			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
01		<input type="text"/>	M F 1 2	Y N 1 2	Y N 1 2	IN YEARS <input type="text"/>	<input type="text"/>	01	01	01
02		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	02	02	02
03		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	03	03	03
04		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	04	04	04
05		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	05	05	05
06		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	06	06	06
07		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	07	07	07
08		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	08	08	08
09		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	09	09	09
10		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="text"/>	10	10	10

**CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD**

- |                                    |                               |
|------------------------------------|-------------------------------|
| 01 = HEAD                          | 08 = BROTHER OR SISTER        |
| 02 = WIFE OR HUSBAND               | 09 = NIECE/NEPHEW BY BLOOD    |
| 03 = SON OR DAUGHTER               | 10 = NIECE/NEPHEW BY MARRIAGE |
| 04 = SON-IN-LAW OR DAUGHTER-IN-LAW | 11 = OTHER RELATIVE           |
| 05 = GRANDCHILD                    | 12 = ADOPTED/FOSTER/STEPCHILD |
| 06 = PARENT                        | 13 = NOT RELATED              |
| 07 = PARENT-IN-LAW                 | 98 = DON'T KNOW               |



LINE NO.	IF AGE 0-17 YEARS				IF AGE 5 YEARS OR OLDER	IF AGE 5-24 YEARS				IF AGE 0-4 YEARS	
	SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS				EVER ATTENDED SCHOOL	CURRENT/RECENT SCHOOL ATTENDANCE				BIRTH LEGAL REGISTRATION	
	Is (NAME)'s natural mother alive?	Does (NAME)'s natural mother usually live in this household or was she a guest last night?  IF YES: What is her name? RECORD MOTHER'S LINE NUMBER.  IF NO, RECORD '00'.	Is (NAME)'s natural father alive?	Does (NAME)'s natural father usually live in this household or was he a guest last night?  IF YES: What is his name? RECORD FATHER'S LINE NUMBER.  IF NO, RECORD '00'.	Has (NAME) ever attended school?	What is the highest level of school (NAME) has attended?  SEE CODES BELOW.  What is the highest grade (NAME) completed at that level?  SEE CODES BELOW.	Did (NAME) attend school at any time during the 2006 school year?	During this/that school year, what level and grade [is/was] (NAME) attending?  SEE CODES BELOW.	Did (NAME) attend school at any time during 2005 school year?	During that school year, what level and grade did (NAME) attend?  SEE CODES BELOW.	Does (NAME) have a birth certificate?  IF YES: May I see it please?  IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority?  1 = YES, SEEN 2 = YES, NOT SEEN 3 = REGISTERED 4 = NOT REGISTERED 8 = DON'T KNOW
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
01	Y N DK 1 2 8 ↓ GO TO 14	<input type="text"/>	Y N DK 1 2 8 ↓ GO TO 16	<input type="text"/>	Y N 1 2 ↓ GO TO 101	LEVEL GRADE <input type="text"/>	Y N 1 2 ↓ GO TO 20	LEVEL GRADE <input type="text"/>	Y N 1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
02	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
03	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
04	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
05	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 17	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
06	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
07	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
08	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
09	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
10	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>

**CODES FOR Qs. 17, 19, AND 21: EDUCATION**

<b>LEVEL</b>	<b>GRADE</b>
0 = KINDERGARTEN	00 = LESS THAN 1 YEAR COMPLETED
1 = PRIMARY	(USE '00' FOR Q. 17 ONLY.)
2 = SECONDARY	THIS CODE IS NOT ALLOWED
3 = VOCATIONAL	FOR Qs. 19 AND 21)
4 = COLLEGE	98 = DON'T KNOW
5 = POST-BACCALAUREATE	
8 = DON'T KNOW	

**HOUSEHOLD SCHEDULE**

LINE NO.	USUAL RESIDENTS AND VISITORS	RELATIONSHIP TO HEAD OF HOUSEHOLD	SEX	RESIDENCE		AGE	IF AGE 15 OR OLDER	ELIGIBILITY		
				Does (NAME) usually live here?	Did (NAME) stay here last night?		MARITAL STATUS	CIRCLE LINE NUMBER OF ALL WOMEN AGE 15-49	CIRCLE LINE NUMBER OF ALL MEN AGE 15+	CIRCLE LINE NUMBER OF ALL CHILDREN AGE 0-5
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
11		<input type="text"/>	M F 1 2	Y N 1 2	Y N 1 2	IN YEARS <input type="text"/>	<input type="checkbox"/>	11	11	11
12		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	12	12	12
13		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	13	13	13
14		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	14	14	14
15		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	15	15	15
16		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	16	16	16
17		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	17	17	17
18		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	18	18	18
19		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	19	19	19
20		<input type="text"/>	1 2	1 2	1 2	<input type="text"/>	<input type="checkbox"/>	20	20	20

TICK HERE IF CONTINUATION SHEET USED

**CODES FOR Q. 3: RELATIONSHIP TO HEAD OF HOUSEHOLD**

- |  |                                    |                               |
|--|------------------------------------|-------------------------------|
| 2A) Just to make sure that I have a complete listing. Are there any other persons such as small children or infants that we have not listed? YES <input type="checkbox"/> ADD TO TABLE NO <input type="checkbox"/> | 01 = HEAD                          | 08 = BROTHER OR SISTER        |
| 2B) Are there any other people who may not be members of your family, such as domestic servants, lodgers, or friends who usually live here? YES <input type="checkbox"/> ADD TO TABLE NO <input type="checkbox"/>  | 02 = WIFE OR HUSBAND               | 09 = NIECE/NEPHEW BY BLOOD    |
| 2C) Are there any guests or temporary visitors staying here, or anyone else who stayed here last night, who have not been listed? YES <input type="checkbox"/> ADD TO TABLE NO <input type="checkbox"/>            | 03 = SON OR DAUGHTER               | 10 = NIECE/NEPHEW BY MARRIAGE |
|  | 04 = SON-IN-LAW OR DAUGHTER-IN-LAW | 11 = OTHER RELATIVE           |
|  | 05 = GRANDCHILD                    | 12 = ADOPTED/FOSTER/STEPCHILD |
|  | 06 = PARENT                        | 13 = NOT RELATED              |
|  | 07 = PARENT-IN-LAW                 | 98 = DON'T KNOW               |

LINE NO.	IF AGE 0-17 YEARS				IF AGE 5 YEARS OR OLDER		IF AGE 5-24 YEARS				IF AGE 0-4 YEARS
	SURVIVORSHIP AND RESIDENCE OF BIOLOGICAL PARENTS				EVER ATTENDED SCHOOL		CURRENT/RECENT SCHOOL ATTENDANCE				BIRTH LEGAL REGISTRATION
	Is (NAME)'s natural mother alive?	Does (NAME)'s natural mother usually live in this household or was she a guest last night?  IF YES: What is her name? RECORD MOTHER'S LINE NUMBER.  IF NO, RECORD '00'.	Is (NAME)'s natural father alive?	Does (NAME)'s natural father usually live in this household or was he a guest last night?  IF YES: What is his name? RECORD FATHER'S LINE NUMBER.  IF NO, RECORD '00'.	Has (NAME) ever attended school?	What is the highest level of school (NAME) has attended?  SEE CODES BELOW.  What is the highest grade (NAME) completed at that level?  SEE CODES BELOW.	Did (NAME) attend school at any time during the 2006 school year?	During this/that school year, what level and grade [is/was] (NAME) attending?  SEE CODES BELOW.	Did (NAME) attend school at any time during 2005 school year?	During that school year, what level and grade did (NAME) attend?  SEE CODES BELOW.	Does (NAME) have a birth certificate?  IF YES: May I see it please?  IF NO, PROBE: Has (NAME)'s birth ever been registered with the civil authority?  1 = YES, SEEN 2 = YES, NOT SEEN 3 = REGISTERED 4 = NOT REGISTERED 8 = DON'T KNOW
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
11	Y N DK 1 2 8 ↓ GO TO 14	<input type="text"/>	Y N DK 1 2 8 ↓ GO TO 16	<input type="text"/>	Y N 1 2 ↓ GO TO 101	LEVEL GRADE <input type="text"/>	Y N 1 2 ↓ GO TO 20	LEVEL GRADE <input type="text"/>	Y N 1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
12	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
13	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
14	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
15	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
16	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
17	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
18	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
19	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>
20	1 2 8 ↓ GO TO 14	<input type="text"/>	1 2 8 ↓ GO TO 16	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	1 2 ↓ GO TO 20	<input type="text"/>	1 2 ↓ GO TO 101	<input type="text"/>	<input type="text"/>

**CODES FOR Qs. 17, 19, AND 21: EDUCATION**

<b>LEVEL</b>	<b>GRADE</b>
0 = KINDERGARTEN	00 = LESS THAN 1 YEAR COMPLETED
1 = PRIMARY	(USE '00' FOR Q. 17 ONLY.)
2 = SECONDARY	THIS CODE IS NOT ALLOWED
3 = VOCATIONAL	FOR Qs. 19 AND 21)
4 = COLLEGE	98 = DON'T KNOW
5 = POST-BACCALAUREATE	
8 = DON'T KNOW	



106	Do you do anything to the water to make it safer to drink?	YES ..... 1 NO ..... 2 DON'T KNOW ..... 8	108		
107	What do you usually do to make the water safer to drink?  Anything else?  RECORD ALL MENTIONED.	BOIL ..... A ADD BLEACH/CHLORINE ..... B STRAIN THROUGH A CLOTH ..... C USE WATER FILTER (CERAMIC/ SAND/COMPOSITE/ETC.) ..... D SOLAR DISINFECTION ..... E LET IT STAND AND SETTLE ..... F  OTHER _____ X (SPECIFY) DON'T KNOW ..... Z			
108	What kind of toilet facility do members of your household usually use?	FLUSH OR POUR FLUSH TOILET FLUSH TO PIPED SEWER SYSTEM ..... 11 FLUSH TO SEPTIC TANK ..... 12 PIT LATRINE ..... 13 SOMEWHERE ELSE ..... 14 PIT LATRINE CLOSED PIT ..... 21 PUBLIC SHARED TOILET ..... 31 BUCKET LATRINE ..... 41 NO FACILITY/BEACH/BUSH ..... 51  OTHER _____ 96 (SPECIFY)	110  111		
109	Do you share this toilet facility with other households?	YES ..... 1 NO ..... 2	111		
110	How many households use this toilet facility?	NO. OF HOUSEHOLDS IF LESS THAN 10 ..... <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px; text-align: center;">0</td><td style="width: 20px; height: 20px;"></td></tr></table>  10 OR MORE HOUSEHOLDS ..... 95 DON'T KNOW ..... 98	0		
0					

111	Does your household have:		
		YES	NO
	Electricity?	ELECTRICITY ..... 1	2
	A communication antenna?	COMMUNICATION ANTENNA . 1	2
	A table?	TABLE ..... 1	2
	A chair?	CHAIR ..... 1	2
	A sofa?	SOFA ..... 1	2
	A bed?	BED ..... 1	2
	A cupboard or cabinet?	CUPBOARD OR CABINET . . 1	2
	A radio?	RADIO ..... 1	2
	A CB or VHF radio?	CB OR VHF RADIO . . . . . 1	2
	A CD/cassette player?	CD/CASSETTE PLAYER . . . . 1	2
	A Video or DVD player?	VIDEO OR DVD PLAYER . . . . 1	2
	A television?	TELEVISION ..... 1	2
	A mobile telephone?	MOBILE TELEPHONE . . . . . 1	2
	Landline telephone?	LANDLINE TELEPHONE . . . . 1	2
	A walkie talkie?	WALKIE TALKIE . . . . . 1	2
	A refrigerator?	REFRIGERATOR ..... 1	2
	A deep freezer?	DEEP FREEZER . . . . . 1	2
	A gas or electric stove?	GAS OR ELECTRIC STOVE . . . . 1	2
	A desk/laptop computer?	DESK/LAPTOP COMPUTER . . . . 1	2
	An internet connection?	INTERNET CONNECTION . . . . . 1	2
	A washing machine?	WASHING MACHINE ..... 1	2
	A sewing machine?	SEWING MACHINE . . . . . 1	2
	A microwave oven?	MICROWAVE OVEN . . . . . 1	2
	Solar panel/equipment?	SOLAR PANEL/EQUIPMENT . . . . 1	2
	An electric generator?	ELECTRIC GENERATOR . . . . . 1	2
	A kerosene stove?	KEROSENE STOVE..... 1	2
	A electric fan?	ELECTRIC FAN..... 1	2



115	Is the cooking usually done in the house, in a separate building, or outdoors?	IN THE HOUSE ..... 1 IN A SEPARATE BUILDING ..... 2 OUTDOORS ..... 3  OTHER _____ 6 (SPECIFY)	117
116	Do you have a separate room which is used as a kitchen?	YES ..... 1 NO ..... 2	
117	MAIN MATERIAL OF THE FLOOR.  RECORD OBSERVATION.	NATURAL FLOOR EARTH/SAND ..... 11 RUDIMENTARY FLOOR WOOD PLANKS ..... 21 WOOD PLANKS WITH VINYL CARPET.. 22 FINISHED FLOOR PARQUET OR POLISHED WOOD ..... 31 CERAMIC TILES ..... 32 CEMENT ..... 33 CARPET ..... 34  OTHER _____ 96 (SPECIFY)	
118	MAIN MATERIAL OF THE ROOF.  RECORD OBSERVATION.	NATURAL ROOFING NO ROOF ..... 11 THATCH/PALM/PANDANUS LEAF ... 12 RUDIMENTARY ROOFING CANVASS/TARPOULINE ..... 21 WOOD PLANKS ..... 22 CARDBOARD ..... 23 FINISHED ROOFING METAL ..... 31 WOOD ..... 32 CERAMIC TILES ..... 34 CEMENT ..... 35 ROOFING SHINGLES ..... 36  OTHER _____ 96 (SPECIFY)	
119	MAIN MATERIAL OF THE EXTERIOR WALLS.  RECORD OBSERVATION.	NATURAL WALLS NO WALLS ..... 11 PANDANUS LEAF/PALM/TRUNKS ... 12 DIRT ..... 13 RUDIMENTARY WALLS PLYWOOD ..... 21 CARDBOARD ..... 22 REUSED WOOD ..... 23 CANVAS/TARPOULINE ..... 24 MASENITE ..... 25 DRY WALL ..... 26 FINISHED WALLS ..... CEMENT ..... 31 STONE WITH LIME/CEMENT ..... 32 BRICKS ..... 33 CEMENT BLOCKS ..... 34 WOOD PLANKS/SHINGLES ..... 35  OTHER _____ 96 (SPECIFY)	
120	How many rooms in this household are used for sleeping?	ROOMS ..... <input type="text"/> <input type="text"/>	



121	Does any member of this household own:		YES	NO							
	A watch?	WATCH .....	1	2							
	A bicycle?	BICYCLE .....	1	2							
	A motorcycle or motor scooter?	MOTORCYCLE/SCOOTER . . .	1	2							
	A fishing gear?	FISHING GEAR .....	1	2							
	A car, truck, or van?	CAR/TRUCK . . . . .	1	2							
	A skiff (wa-uawa)?	SKIFF .....	1	2							
	A boat with motor?	BOAT WITH MOTOR .....	1	2							
	A sailing canoe?	SAILING CANOE .....	1	2							
	A paddling canoe?	PADDLING CANOE .....	1	2							
	A rear-cart?	REAR-CART .....	1	2							
	Agricultural/farm equipment?	AGRI./FARM EQUIPMENT . .	1	2							
122	Does any member of this household own:		YES	NO							
	a: residential land?	RESIDENTIAL LAND .....	1	2							
	b: agricultural land?	AGRICULTURAL LAND .....	1	2							
	c: commercial land?	COMMERCIAL LAND .....	1	2							
123	Does this household own any livestock, herds, other farm animals, or poultry?	YES .....		1	125						
		NO .....		2							
124	How many of the following animals does this household own?  IF NONE, ENTER '00'. IF MORE THAN 95, ENTER '95'. IF UNKNOWN, ENTER '98'.  Pigs  Ducks  Chickens?	PIG .....			<table border="1"> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>						
		DUCKS .....									
		CHICKEN .....									
125	Does any member of this household have a bank account?	YES .....		1							
		NO .....		2							

MALNUTRITION EXAMINATION FOR CHILDREN AGE 0-5

201	CHECK COLUMN 11. RECORD THE LINE NUMBER AND AGE FOR ALL ELIGIBLE CHILDREN 0-5 YEARS IN QUESTION 202. IF MORE THAN SIX CHILDREN, USE ADDITIONAL QUESTIONNAIRE(S).			
		CHILD 1	CHILD 2	CHILD 3
202	LINE NUMBER FROM COLUMN 11 NAME FROM COLUMN 2	LINE NUMBER ..... NAME .....	LINE NUMBER ..... NAME .....	LINE NUMBER ..... NAME .....
203	What is (NAME'S) birth date?	DAY ..... MONTH ..... YEAR .....	DAY ..... MONTH ..... YEAR .....	DAY ..... MONTH ..... YEAR .....
204	CHECK 203: CHILD BORN IN JANUARY 2004 OR LATER?	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)
205	OBSERVE WHETHER THERE IS <b>WASTING</b> IN THE FOLLOWING PARTS OF THE CHILD'S BODY. ASK PARENT TO REMOVE CHILD'S CLOTHING FOR THE PURPOSE OF THIS OBSERVATION/QUESTIONING.  A. HEAD B. FACE C. NECK D. SHOULDER E. UPPER ARMS F. CHEST (RIBS VISIBLE) G. BUTTOCKS H. THIGH	T W N H A O I S T N T E D A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3	T W N H A O I S T N T E D A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3	T W N H A O I S T N T E D A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3
206	OBSERVE WHETHER THERE IS <b>SWELLING</b> IN THE FOLLOWING PARTS OF THE CHILD'S BODY.  A. HANDS B. ABDOMEN C. LOWER LEGS	Y N D E O K S A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3	Y N D E O K S A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3	Y N D E O K S A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3
207	OBSERVE IF THE FOLLOWING ABNORMALITIES ARE PRESENT IN EACH CHILD:  HAIR A. SPARSE B. THIN C. YELLOW/ORANGE SKIN D. FACE PUFFY E. FLAKY/DRY F. SORE/WOUNDS/PEELING	Y N E O S HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2	Y N E O S HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2	Y N E O S HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2
208	TEST FOR SWELLING ON TOP OF FEET.  PRESS FIRMLY ON THE TOP OF A FOOT WITH THUMB FOR 30-40 SECONDS. OBSERVE AND RECORD IF A DENT REMAINS IN THE AREA OF THE SKIN .	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3
209	RESULT OF FOOT PRESSING	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6
210	OBSERVE OVERALL NUTRITIONAL STATUS OF CHILD. IN YOUR OPINION, DO YOU FEEL THIS CHILD IS MALNOURISHED?	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3
211		GO BACK TO 203 IN NEXT COLUMN IN THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF ADDITIONAL QUESTIONNAIRE(S); IF NO MORE CHILDREN, GO TO FRONT COVER FOR FINAL CHECKING.		

		CHILD 4	CHILD 5	CHILD 6
202	LINE NUMBER FROM COLUMN 11 NAME FROM COLUMN 2	LINE NUMBER ..... <input type="text"/> <input type="text"/> NAME .....	LINE NUMBER ..... <input type="text"/> <input type="text"/> NAME .....	LINE NUMBER ..... <input type="text"/> <input type="text"/> NAME .....
203	What is (NAME'S) birth date?	DAY ..... <input type="text"/> <input type="text"/> MONTH ..... <input type="text"/> <input type="text"/> YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	DAY ..... <input type="text"/> <input type="text"/> MONTH ..... <input type="text"/> <input type="text"/> YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	DAY ..... <input type="text"/> <input type="text"/> MONTH ..... <input type="text"/> <input type="text"/> YEAR <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
204	CHECK 203: CHILD BORN IN JANUARY 2004 OR LATER	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)	YES ..... 1 NO ..... 2 (GO TO 203 FOR NEXT CHILD OR, IF NO MORE, END INTERVIEW)
205	OBSERVE WHETHER THERE IS <b>WASTING</b> IN THE FOLLOWING PARTS OF THE CHILD'S BODY. ASK PARENT TO REMOVE CHILD'S CLOTHING FOR THE PURPOSE OF THIS OBSERVATION/QUESTIONING.  A. HEAD B. FACE C. NECK D. SHOULDER E. UPPER ARMS F. CHEST (RIBS VISIBLE) G. BUTTOCKS H. THIGH	T W N H A O I S T N T E D  A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3	T W N H A O I S T N T E D  A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3	T W N H A O I S T N T E D  A. HEAD 1 2 3 B. FACE 1 2 3 C. NECK 1 2 3 D. SHOULDER 1 2 3 E. ARMS 1 2 3 F. CHEST 1 2 3 G. BUTTOCKS 1 2 3 H. THIGH 1 2 3
206	OBSERVE WHETHER THERE IS <b>SWELLING</b> IN THE FOLLOWING PARTS OF THE CHILD'S BODY.  A. HANDS B. ABDOMEN C. LOWER LEGS	Y N D E O K S  A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3	Y N D E O K S  A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3	Y N D E O K S  A. HANDS 1 2 3 B. ABDOMEN 1 2 3 C. LWR LEGS 1 2 3
207	OBSERVE IF THE FOLLOWING ABNORMALITIES ARE PRESENT IN EACH CHILD:  HAIR A. SPARSE B. THIN C. YELLOW/ORANGE SKIN D. FACE PUFFY E. FLAKY/DRY F. SORE/WOUNDS/PEELING	Y N E O S  HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2	Y N E O S  HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2	Y N E O S  HAIR A. SPARSE 1 2 B. THIN 1 2 C. YELLOW/O 1 2 SKIN D. FACE PUFFY 1 2 E. FLAKY 1 2 F. SORE 1 2
208	TEST FOR SWELLING ON TOP OF FEET.  PRESS FIRMLY ON THE TOP OF A FOOT WITH THUMB FOR 30-40 SECONDS. IF A DENT REMAINS IN THE AREA OF THE SKIN	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3
209	RESULT OF FOOT PRESSING	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6	FOOT PRESSED ..... 1 NOT PRESENT ..... 2 REFUSED ..... 3 OTHER ..... 6
210	OBSERVE OVERALL NUTRITIONAL STATUS OF CHILD. IN YOUR OPINION, DO YOU FEEL THIS CHILD IS MALNOURISHED?	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3	YES ..... 1 NO ..... 2 DK ..... 3
211	GO BACK TO 203 IN NEXT COLUMN IN THIS QUESTIONNAIRE OR IN THE FIRST COLUMN OF ADDITIONAL QUESTIONNAIRE(S); IF NO MORE CHILDREN, GO TO FRONT COVER FOR FINAL CHECKING.			

TICK HERE IF CONTINUED IN ANOTHER QUESTIONNAIRE.