

Supplementary material 1. Numerators and denominators (weighted if survey data) for all countries and data points

Region	Country	Population sample by age and marital status	Survey Years			Sample size								
			Survey 1	Survey 2	Survey 3	Survey 1			Survey 2			Survey 3		
						All live births	All first-order births	All higher order births	All live births	All first-order births	All higher order births	All live births	All first-order births	All higher order births
Latin America	Colombia	AW (15-49) 1990; AW (13-49) 2005 2010. 2010: one-year recall period	1990	2005	2010	7,459	2,464	4,995	28,018	10,309	17,709	32,564	12,725	19,838
	Dominican Republic	AW (15-49)	1991	2002	2013	7,235	2,154	5,081	21,312	6,933	14,379	6,926	2,543	4,383
	Haiti	AW (15-49)	1994	2005	2012	6,819	1,527	5,292	11,288	2,880	8,408	12,893	3,975	8,918
	Peru	AW (15-49)	1991	2000	2012	16,802	4,258	12,545	25,545	7,406	18,139	17,767	6,100	11,666
Middle East	Egypt	EM (15-49)	1992	2000	2014	17,729	3,667	14,061	22,135	5,689	16,446	28,755	9,238	19,517
	Jordan	EM (15-49)	1990	2002	2012	16,128	2,421	13,707	11,838	2,492	9,346	18,733	4,436	14,296
South/Southeast Asia	Bangladesh	EM (10-49) (1993 and 2004); EM (15-49) 2014	1993	2004	2014	15,382	3,657	11,726	14,104	4,057	10,048	16,830	6,117	10,712
	Indonesia	EM (15-49) 1991 2002; AW (15-49) 2012	1991	2002	2012	30,967	8,341	22,626	30,506	10,441	20,066	33,792	12,500	21,292
	Nepal	EM (15-49) 1996 2001; AW (15-49) 2011	1996	2001	2011	14,159	3,235	10,924	13,954	3,355	10,600	11,146	3,585	7,561
	Pakistan	EM (15-49)	1990	2006	2012	14,657	2,644	12,014	18,551	3,677	14,874	23,499	5,233	18,266
	Philippines	AW (15-49)	1993	2003	2013	17,199	3,919	13,280	13,830	3,702	10,127	13,906	4,268	9,638
Sub-Saharan Africa	Benin	AW (15-49)	1996	2006	2011	9,512	1,786	7,726	29,616	6,148	23,468	25,040	5,506	19,533
	Burkina Faso	AW (15-49)	1993	2003	2010	12,150	2,255	9,895	21,038	4,048	16,990	29,447	5,662	23,786
	Cameroon	AW (15-49)	1991	2004	2011	6,616	1,321	5,295	14,840	3,502	11,338	21,738	4,988	16,750
	Chad	AW (15-49)	1996	2004	2014	14,084	2,704	11,380	11,782	2,155	9,628	37,260	6,001	31,260
	Ghana	AW (15-49)	1993	2003	2014	7,045	1,543	5,502	6,877	1,521	5,356	10,687	2,614	8,074
	Guinea	AW (15-49)	1999	2005	2012	11,844	2,183	9,661	12,932	2,334	10,598	13,614	2,890	10,724
	Kenya	AW (15-49)	1993	2003	2014	12,268	2,431	9,837	11,061	2,677	8,384	38,563	10,076	28,487
	Malawi	AW (15-49)	1992	2000	2010	8,608	1,604	7,005	21,942	5,145	16,797	37,293	8,272	29,022
	Mali	AW (15-49)	1995	2006	2012	20,155	3,357	16,798	27,665	5,097	22,568	19,763	3,862	15,901
	Mozambique	AW (15-49)	1997	2003	2011	13,901	3,103	10,798	20,213	4,542	15,671	21,285	4,805	16,480
	Namibia	AW (15-49)	1992	2006	2013	6,985	1,786	5,199	9,385	3,023	6,362	8,748	2,902	5,846
	Niger	AW (15-49)	1992	2006	2012	13,836	2,269	11,567	19,833	3,264	16,570	26,145	4,045	22,100
	Nigeria	AW (15-49)	1990	2003	2013	15,969	3,045	12,924	11,592	2,303	9,289	60,892	11,863	49,030
	Rwanda	AW (15-49)	1992	2005	2015	11,217	1,956	9,262	16,444	3,304	13,139	15,857	4,343	11,514
	Senegal	AW (15-49)	1992	2005	2015	10,906	1,881	9,025	19,753	4,287	15,466	11,913	2,700	9,213
	Tanzania	AW (15-49)	1991	2004	2015	14,757	3,211	11,546	15,780	3,670	12,110	18,509	4,393	14,116
	Uganda	AW (15-49)	1995	2006	2011	13,523	2,809	10,714	13,953	2,726	11,227	15,219	2,743	12,476
Zambia	AW (15-49)	1992	2001	2013	11,495	2,480	9,015	12,303	2,790	9,513	25,570	5,429	20,140	
Zimbabwe	AW (15-49)	1994	2005	2015	7,844	1,857	5,987	9,623	3,103	6,521	11,564	3,187	8,376	
High-income		<b>Population</b>	<b>Year</b>			<b>Year 1</b>			<b>Year 2</b>			<b>Year 3</b>		
	Finland	vital register	1995	2005	2015	61,915	23,996	37,919	56,784	24,094	32,690	54,848	22,791	32,057
	Slovakia	vital register	1995	2005	2015	61,427			54,430			55,602		

Notes: AW all women; EM Ever-married women

Supplementary Material 2. Estimates by annual cut-off for all indicators and data points

Region	Country	Survey 1														
		All live births					First order live births					Second/higher-order live births				
		<16	16-16.99	17-17.99	18-18.99	19-19.99	<16	16-16.99	17-17.99	18-18.99	19-19.99	<16	16-16.99	17-17.99	18-18.99	19-19.99
Latin America	Colombia	1.50%	2.28%	3.14%	4.32%	5.97%	4.16%	5.91%	7.09%	9.45%	12.25%	0.19%	0.49%	1.20%	1.79%	2.87%
	Dominican Republic	1.84%	2.90%	4.09%	5.25%	5.90%	5.21%	7.63%	9.70%	10.17%	9.74%	0.41%	0.90%	1.72%	3.16%	4.28%
	Haiti	1.26%	1.72%	2.46%	3.37%	4.49%	5.03%	6.56%	8.75%	9.49%	11.87%	0.17%	0.33%	0.65%	1.60%	2.36%
	Peru	1.05%	1.73%	2.71%	3.99%	4.69%	3.87%	5.85%	7.85%	10.65%	10.15%	0.09%	0.34%	0.96%	1.74%	2.83%
Middle East	Egypt	1.16%	1.43%	2.47%	3.60%	4.43%	4.61%	4.98%	7.83%	9.97%	10.51%	0.26%	0.50%	1.07%	1.94%	2.84%
	Jordan	0.32%	0.87%	1.91%	2.85%	4.08%	2.00%	5.23%	8.92%	10.74%	13.04%	0.02%	0.09%	0.67%	1.46%	2.49%
South Southeast Asia	Bangladesh	5.93%	4.68%	5.76%	6.39%	6.65%	22.51%	14.80%	14.68%	13.16%	9.84%	0.76%	1.53%	2.98%	4.27%	5.65%
	Indonesia	1.87%	2.29%	3.26%	4.64%	5.73%	6.05%	6.75%	9.27%	12.20%	12.77%	0.33%	0.65%	1.04%	1.85%	3.13%
	Nepal	1.44%	2.58%	3.85%	5.68%	6.26%	6.04%	9.83%	13.33%	15.95%	14.04%	0.07%	0.43%	1.05%	2.64%	3.95%
	Pakistan	1.76%	1.82%	2.73%	3.94%	4.73%	7.82%	6.50%	9.27%	11.22%	11.01%	0.42%	0.79%	1.30%	2.34%	3.34%
	Philippines	0.37%	0.68%	1.68%	2.43%	3.75%	1.42%	2.64%	6.11%	7.45%	10.37%	0.06%	0.10%	0.38%	0.95%	1.79%
Sub-Saharan Africa	Benin	1.08%	1.52%	2.83%	4.16%	4.83%	5.39%	6.89%	12.59%	15.31%	15.66%	0.08%	0.27%	0.57%	1.59%	2.32%
	Burkina Faso	1.56%	2.08%	3.62%	5.18%	5.42%	6.88%	8.96%	15.17%	19.54%	14.85%	0.35%	0.51%	0.99%	1.91%	3.27%
	Cameroon	4.62%	3.80%	5.03%	5.40%	5.96%	18.97%	13.93%	14.59%	13.42%	11.29%	1.04%	1.27%	2.65%	3.39%	4.63%
	Chad	3.75%	3.42%	4.75%	5.58%	6.20%	17.11%	12.88%	15.34%	14.06%	11.56%	0.58%	1.17%	2.23%	3.56%	4.92%
	Ghana	1.14%	1.65%	3.01%	3.86%	4.53%	4.73%	7.06%	12.18%	13.42%	12.96%	0.13%	0.13%	0.44%	1.18%	2.16%
	Guinea	4.21%	3.25%	3.86%	4.29%	4.61%	19.59%	12.96%	13.31%	12.14%	9.51%	0.74%	1.05%	1.72%	2.51%	3.50%
	Kenya	1.75%	2.09%	3.72%	4.47%	5.58%	7.82%	9.04%	14.04%	14.59%	14.96%	0.25%	0.37%	1.17%	1.97%	3.26%
	Malawi	3.20%	2.49%	3.92%	4.83%	5.48%	13.91%	10.19%	15.22%	15.92%	13.44%	0.75%	0.73%	1.33%	2.29%	3.66%
	Mali	2.43%	2.91%	3.85%	4.50%	4.53%	13.55%	13.98%	15.76%	14.44%	9.93%	0.21%	0.70%	1.47%	2.52%	3.46%
	Mozambique	3.63%	3.04%	4.87%	5.42%	5.52%	14.47%	10.55%	15.92%	13.58%	11.35%	0.51%	0.88%	1.69%	3.08%	3.84%
	Namibia	1.18%	1.97%	3.12%	4.59%	5.00%	4.37%	6.99%	10.46%	14.66%	13.70%	0.08%	0.24%	0.60%	1.13%	2.01%
	Niger	4.09%	3.97%	4.71%	5.55%	6.05%	19.82%	16.42%	14.95%	13.83%	10.94%	1.00%	1.52%	2.70%	3.93%	5.09%
	Nigeria	3.70%	2.72%	3.65%	4.08%	5.02%	15.77%	8.23%	10.93%	9.94%	10.85%	0.86%	1.42%	1.93%	2.70%	3.64%
	Rwanda	0.40%	0.59%	1.17%	2.14%	2.89%	2.07%	3.07%	5.92%	9.53%	11.33%	0.05%	0.06%	0.17%	0.58%	1.11%
	Senegal	2.90%	2.58%	3.30%	4.12%	4.71%	14.73%	11.91%	11.59%	12.76%	11.22%	0.43%	0.63%	1.57%	2.32%	3.36%
	Tanzania	1.69%	2.36%	3.95%	5.36%	5.69%	7.22%	9.13%	14.70%	17.40%	14.74%	0.15%	0.48%	0.96%	2.01%	3.18%
Uganda	3.07%	3.29%	4.73%	5.72%	6.10%	12.98%	12.77%	16.20%	15.04%	12.71%	0.48%	0.80%	1.72%	3.27%	4.36%	
Zambia	2.28%	2.94%	4.86%	5.84%	5.90%	9.96%	12.13%	18.04%	18.17%	13.68%	0.17%	0.41%	1.24%	2.45%	3.76%	
Zimbabwe	1.75%	2.09%	3.61%	4.68%	5.76%	6.87%	8.02%	12.72%	14.70%	15.19%	0.16%	0.25%	0.78%	1.58%	2.84%	
High-income	Finland	0.03%	0.11%	0.32%	0.70%	1.38%	0.07%	0.28%	0.78%	1.63%	3.08%	0.00%	0.00%	0.03%	0.11%	0.31%
	Slovakia	0.33%	0.73%	1.56%	3.40%	6.28%	not available									



		Survey 3														
		All live births					First order live births					Second/higher-order live births				
Region	Country	<16	16-16.99	17-17.99	18-18.99	19-19.99	<16	16-16.99	17-17.99	18-18.99	19-19.99	<16	16-16.99	17-17.99	18-18.99	19-19.99
Latin America	Colombia	2.89%	3.51%	4.72%	5.65%	6.17%	7.00%	7.98%	9.73%	10.54%	10.09%	0.25%	0.64%	1.50%	2.51%	3.65%
	Dominican Republic	2.90%	3.54%	5.85%	5.22%	5.98%	7.15%	8.50%	12.74%	9.86%	9.29%	0.44%	0.67%	1.86%	2.53%	4.06%
	Haiti	1.39%	1.80%	3.24%	3.99%	4.46%	4.29%	5.33%	9.31%	10.03%	10.39%	0.10%	0.23%	0.54%	1.30%	1.82%
	Peru	1.45%	2.19%	2.82%	3.95%	4.57%	4.12%	6.00%	7.33%	9.24%	9.81%	0.05%	0.20%	0.47%	1.19%	1.83%
Middle East	Egypt	0.45%	0.70%	1.55%	3.08%	4.65%	1.24%	1.88%	4.05%	7.83%	11.03%	0.07%	0.14%	0.37%	0.83%	1.63%
	Jordan	0.12%	0.41%	1.02%	1.68%	2.81%	0.51%	1.54%	4.05%	5.56%	7.29%	0.00%	0.06%	0.08%	0.48%	1.42%
South/ Southeast Asia	Bangladesh	6.29%	5.13%	6.30%	7.63%	7.79%	15.87%	11.88%	13.49%	15.03%	13.06%	0.81%	1.27%	2.19%	3.40%	4.79%
	Indonesia	0.47%	0.85%	1.49%	2.57%	4.09%	1.20%	2.15%	3.70%	6.35%	9.85%	0.05%	0.08%	0.19%	0.36%	0.71%
	Nepal	1.37%	2.63%	4.34%	6.30%	7.31%	3.99%	7.63%	11.23%	13.76%	13.12%	0.12%	0.25%	1.08%	2.76%	4.55%
	Pakistan	0.57%	0.92%	1.80%	2.83%	4.00%	2.15%	3.58%	5.95%	8.65%	10.58%	0.12%	0.16%	0.61%	1.16%	2.11%
	Philippines	0.58%	1.07%	2.17%	3.15%	4.45%	1.79%	3.14%	6.03%	8.24%	10.54%	0.04%	0.15%	0.45%	0.89%	1.75%
Sub-Saharan Africa	Benin	1.75%	1.76%	2.70%	3.62%	4.33%	6.82%	5.84%	8.35%	10.10%	10.34%	0.32%	0.60%	1.11%	1.79%	2.64%
	Burkina Faso	1.19%	1.93%	3.16%	4.48%	5.15%	5.76%	9.05%	13.68%	17.07%	15.10%	0.10%	0.23%	0.66%	1.49%	2.78%
	Cameroon	3.23%	2.94%	4.12%	4.96%	5.78%	12.22%	10.09%	12.18%	12.71%	12.40%	0.56%	0.81%	1.71%	2.65%	3.81%
	Chad	4.08%	3.29%	4.49%	4.91%	5.10%	21.41%	13.71%	15.72%	12.85%	9.12%	0.76%	1.29%	2.33%	3.39%	4.32%
	Ghana	1.24%	1.53%	2.67%	2.82%	3.66%	4.82%	5.46%	9.17%	8.06%	9.62%	0.08%	0.25%	0.57%	1.13%	1.73%
	Guinea	4.51%	3.45%	4.05%	4.86%	4.98%	19.62%	12.92%	12.73%	11.46%	9.91%	0.44%	0.90%	1.71%	3.08%	3.66%
	Kenya	1.85%	2.11%	3.40%	4.54%	5.41%	6.42%	6.69%	10.05%	11.29%	12.23%	0.24%	0.50%	1.05%	2.15%	3.00%
	Malawi	1.88%	2.43%	4.37%	5.73%	6.51%	7.58%	9.54%	16.02%	18.55%	15.98%	0.25%	0.41%	1.05%	2.08%	3.81%
	Mali	3.98%	3.04%	3.90%	4.62%	5.17%	17.04%	11.08%	12.41%	11.88%	10.92%	0.81%	1.09%	1.84%	2.86%	3.78%
	Mozambique	3.03%	3.16%	4.44%	5.25%	5.21%	11.96%	11.85%	15.66%	13.91%	11.73%	0.43%	0.63%	1.17%	2.73%	3.31%
	Namibia	1.36%	1.86%	3.26%	4.47%	5.27%	3.94%	5.29%	8.70%	11.11%	11.98%	0.08%	0.17%	0.55%	1.18%	1.94%
	Niger	2.97%	2.79%	3.95%	4.56%	5.27%	16.22%	13.20%	14.88%	13.51%	12.49%	0.54%	0.89%	1.95%	2.92%	3.95%
	Nigeria	2.32%	2.41%	3.42%	3.83%	4.61%	10.55%	9.52%	11.17%	10.00%	9.78%	0.32%	0.69%	1.54%	2.34%	3.36%
	Rwanda	0.21%	0.47%	1.14%	1.77%	2.87%	0.74%	1.70%	3.99%	6.05%	9.05%	0.01%	0.01%	0.07%	0.15%	0.53%
	Senegal	1.34%	1.75%	2.69%	3.34%	4.52%	5.56%	6.84%	9.55%	10.24%	11.94%	0.10%	0.26%	0.67%	1.32%	2.35%
	Tanzania	1.34%	2.10%	3.49%	4.99%	5.69%	5.40%	8.06%	12.31%	16.24%	14.83%	0.08%	0.24%	0.74%	1.49%	2.85%
	Uganda	2.08%	2.31%	3.67%	4.77%	5.64%	10.22%	10.45%	14.18%	15.20%	13.85%	0.29%	0.51%	1.35%	2.48%	3.83%
Zambia	1.57%	2.49%	3.89%	4.95%	5.73%	7.00%	10.90%	15.45%	16.73%	14.63%	0.10%	0.23%	0.77%	1.78%	3.33%	
Zimbabwe	1.18%	2.28%	3.40%	5.12%	5.67%	4.23%	7.90%	10.86%	14.82%	14.48%	0.02%	0.14%	0.56%	1.42%	2.31%	
High-income	Finland	0.02%	0.06%	0.23%	0.40%	0.99%	0.06%	0.15%	0.52%	0.87%	2.15%	0.00%	0.00%	0.02%	0.06%	0.17%
	Slovakia	0.33%	0.69%	1.35%	1.75%	2.11%	not available									

