Web Appendix for

Sex differences in mortality among children, adolescents, and youth aged 0–24: A systematic assessment of national, regional, and global trends from 1990 to 2021

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on behalf of the UN Inter-agency Group for Child Mortality Estimation

August 1, 2023

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List of Abbreviations

ACLED	A 10 0' (I (' IE (D (D ')
ACLED	Armed Conflict Location and Event Data Project
CMR	Child Mortality Rate
CRED	Centre for Research on the Epidemiology of Disasters
DDM	Death Distribution Method
DHS	Demographic and Health Survey
EM-DAT	Emergency Events Database
GATHER	Guidelines for Accurate and Transparent Health Estimates Reporting
GGB	Generalized Growth Balance method
GHE	Global Health Estimates
HDSS	Health and Demographic Surveillance Systems
HMD	Human Mortality Database
IGME	UN Inter-agency Group for Child Mortality Estimation
IMR	Infant Mortality Rate
INLA	Integrated Nested Laplace Approximation
MICS	Multiple Indicator Cluster Surveys
PC	Penalized Complexity
RW1	first-order Random Walk
RW2	second-order Random Walk
SEG	Synthetic Extinct Generation method

SRS Sample Registration System U5MR Under-5 Mortality Rate

UCDP Uppsala Conflict Data Program

UN IGME UN Inter-agency Group for Child Mortality Estimation

VR Vital Registration
WHS World Health Surveys
WPP World Population Prospects

1 Data

Table 2 and 3 give an overview of the observations by data source type and age group. The detailed information on country-specific data series names and the assigned data source types for each age group are in the Supplementary Tables 22 (0–1), 23 (1–4), 24 (0–4), 25 (5–9), 26 (10–14), 27 (15–19), 28 (20–24). Data source types group data series with similar characteristics, such as data collection method, survey sampling design, and data reporting method.

We categorized all data sources into eight types for data under age five. For age groups under five. Specifically, the groupings of data series into different data source types are:

- Census Indirect: census based on summary birth histories;
- Demographic and Health Surveys (DHS) Direct: standard DHS with full birth histories;
- Multiple Indicator Cluster Surveys (MICS) Direct: MICS based on full birth histories;
- MICS Indirect: MICS based on summary birth histories;
- Other DHS Direct: Interim DHS, Special DHS, DHS AIDS Indicator Survey, DHS Malaria Indicators Survey, National DHS, World Fertility Survey, and surveys with similar sampling design and based on full birth histories;
- Others Direct: census direct, Reproductive Health Survey, Pan-Arab Programme on Family Health, National MICS, panel data, and national reports, based on full birth histories;
- Others Indirect: all types of DHS surveys, Reproductive Health Surveys, and national reports, based on summary birth histories

For data above age five, we classified all data sources into three types:

- Demographic and Health Surveys (DHS) Direct: including standard DHS;
- Others Direct: including Multiple Indicator Cluster Surveys (MICS), World Health Surveys (WHS), and Panel data;
- Vital Registration (VR) or Sample Registration System (SRS).

		Age group	
Data source	0-1	1-4	0–4
Census Indirect	5	0	5
DHS Direct	1479	1370	0
MICS Direct	276	244	0
MICS Indirect	0	0	271
Other DHS Direct	355	335	0
Others Direct	308	290	0
Others Indirect	0	0	262
VR/SRS	4307	4094	32
Total	6,730	6,333	778
Countries with data	196	195	94
Reference year range	1950-2021	1950-2021	1950-2017

Table 2: **Distribution of observations by data source type and age for children aged 0–4.** Direct: data obtained from full birth histories. Indirect: data obtained from summary birth histories.

2 Data pre-processing

The database we use for model fitting (summarized in Section 1) is based on multiple data quality assessments and pre-processing steps.

	Age group				
Data source	5–9	10–14	15–19	20-24	
DHS Direct	1,038	1,015	834	834	
Others Direct	568	550	266	267	
VR/SRS	3,702	3,647	3,745	3,723	
Total	5,308	5,212	4,845	4,824	
Countries with data	190	190	178	179	
Reference year range	1954-2021	1954-2021	1958-2021	1958-2021	

Table 3: Distribution of observations by data source type and age group for children, adolescents, and youth aged 5–24. Direct: data obtained from full sibling histories. Others Direct: data from recent household deaths reported in censuses and large-scale surveys.

2.1 Extraction by data source type

Vital registration data Nationally representative vital registration data were extracted from the WHO mortality database and the Human Mortality Database (1; 2). Completeness of death registration data for children below age five was estimated as the reported under-five mortality rate (U5MR) in vital registration data divided by the corresponding UN IGME estimate, which may rely on other data sources, such as surveys and census data. We estimated the completeness of death registration for the age groups 5–14 and 15–24 using death distribution methods, comparing the age distribution of deaths between two censuses with the age distribution of the population enumerated (3). The stochastic standard error of the observation was calculated using the Poisson approximation based on the number of births or the population turning 5 or 15 in a given year, estimated from the 2022 World Population Prospects (WPP) (4). We also included estimates from sample vital registration systems in India (5) and Bangladesh (6), the Chinese national mortality surveillance system (7), and the Rapid Mortality Surveillance in South Africa (8).

Birth and sibling histories in surveys Data from full birth histories collected in DHS, MICS, World Health Surveys, World Fertility Surveys, Reproductive Health Surveys, and selected surveys from the Pan-Arab Programme on Family Health were used to compute sex ratios for children and adolescents below age 15, for periods of varying lengths, optimised to capture shorter-term changes for country-years with sufficient information (9). Data from full sibling survival histories from DHS and MICS were used to estimate the sex ratio in youth aged 15–24. In all age groups, the sampling variance was calculated using the Jackknife estimation to account for the survey sample design. Indirect methods based on the number of children ever born and surviving, called summary birth histories, were used for children below age five.

Censuses Reports on recent household deaths were used to compute sex-specific estimates. The calculation of age-specific mortality rates was derived from standard life table methods. Data from the summary birth histories in censuses were also used for children under five.

2.2 Adjustments for the incompleteness of death registration

Vital registration data were extracted from the WHO mortality database¹. When available, the latest estimates from the Human Mortality Database (HMD)² were also added. We assumed that death registration was complete in 38 countries included in the HMD. For the other countries, we evaluated the completeness based on "death distribution methods" (DDMs). The VR data were only adjusted for completeness of death reporting for mortality data above age 5. Loess regression (for smaller gaps in years) and linear interpolation (for gaps greater than five years) were applied to generate the time series using the available estimates of child completeness to impute completeness in years when vital registration data were unavailable. Table 11 presents the completeness estimates by country-year.

¹https://www.who.int/healthinfo/mortality_data/en/

²https://www.mortality.org/

DDMs compare the age distribution of deaths in the VR with the age distribution of the population enumerated in censuses to estimate the fraction of deaths that are reported. Three methods are applicable when two censuses are available and deaths have been recorded in the intercensal period: the generalized growth balance method (GGB) (10; 11), the synthetic extinct generation method (SEG) (12), and a combination of the two, called the hybrid method (or GGB>SEG). All methods are well described in the book *Tools for Demographic Estimation* (13), with Excel spreadsheets to facilitate their use. We employed here the GGB>SEG approach, which has been shown to perform better than the GGB and SEG methods used separately (14). Completeness was estimated for each country for periods between pairs of recent censuses for which an age distribution of the population was available in the Demographic Yearbook. After the last census, it is impossible to estimate completeness with death distribution methods, so completeness levels were kept constant until 2021.

Using the DDM package in R (15), we separately estimated completeness for males and females. Vital statistics were excluded when the estimated completeness was less than 80% (for at least one sex), adjusted when completeness was between 80% and 95%, and included without adjustment when completeness was greater than or equal to 95%. The VR data were adjusted as follows:

$$adjusted VR data = \frac{original VR data}{completeness}$$

Completeness was assumed to be invariant by age in the age group 5-24. In a few countries, vital registration data were incorporated to estimate mortality above age 5, despite being deemed too incomplete to be used for under-five mortality. The completeness of death registration could be lower among children due to common under-reporting of neonatal deaths (16). In some countries (e.g. Brazil, Republic of Korea, Syria, Turkey, Singapore, Bahrain, and Sri Lanka), we have preferred not to adjust upwards the deaths reported to vital statistics, either because of large migrations flows that could invalidate the method, or because published studies had investigated the completeness of death registration (see (17) for further details).

Uncertainty was added in countries with adjusted VR data to account for the uncertainty associated with the completeness estimate. Murray et al. (2010) demonstrate that uncertainty intervals around completeness estimates from DDM are large, roughly about 25% (18). This is partly because death distribution methods are based on assumptions often poorly respected in practice (e.g. constant under-registration by age). We proceeded as follows:

- 1. The sex-specific completeness was simulated with a uniform distribution: Uniform(completeness 25%, completeness + 25%).
- 2. The number of deaths with additional uncertainty was simulated by: $Poisson(\frac{reported deaths}{simulated completeness})$
- 3. The sex-specific mortality rates with additional uncertainty were simulated using a standard life table approach with the simulated number of deaths from the previous step.

2.3 Exclusion criteria

Before fitting the observations to the Bayesian model, we excluded data points based on the following rules:

- Exclude observations with sex ratio outside [0.1, 10] for ages under five, and outside [0.1, 10] for ages above five (refer to Table 4 for the number of observations that fall outside the intervals by age group).
- Exclude observations during national crisis periods.
- Exclude observations from surveys or censuses with strong evidence of poor data quality.

Table 4 summarizes the excluded data points by each exclusion criterion.

Data series were excluded from the sex-specific analysis when the review conducted to develop estimates for both sexes had concluded that there was substantial evidence of recall errors. The procedures to identify recall errors in surveys and censuses are discussed in (19) for the age group 0-4, (20) for the age group 5-14 and (17) for the age group 15-24. We have not used a grading method to assess the quality of survey or census data, but a series of tests are put in place to identify sources of erroneous data. For example, in censuses, we assess parity ratios from one survey to the next to detect omissions of children in summary birth histories (21). In full birth histories from surveys, we use

	Age group						
Exclusion criteria	0-1	1–4	0–4	5–9	10-14	15–19	20-24
Sex ratio outside [0.2, 5]	530	2,033	562	_	_	_	_
Sex ratio outside [0.1, 10]	_	_	_	14	105	36	66
During national crisis	237	235	240	57	57	46	46
Total	767	2,263	801	71	162	82	111
Percentage of total	0.9%	2.3%	1.0%	1.1%	2.4%	1.4%	1.8%

Table 4: Excluded observation distribution by data exclusion criteria and age group. The total number of excluded observations may not be the sum of the excluded number of data under each criterion because some excluded data satisfy more than one criterion.

consistency checks such as the ratio between neonatal and post-neonatal mortality and the distribution of deaths by day (22). In sibling survival histories, we examine the plausibility of the relationship between the probabilities $_{10}q_{15}$ and $_{5}q_{0}$ against high-quality life tables from Health and Demographic Surveillance Systems (HDSS) and the Human Mortality Database (17).

3 Methods for sex ratio for five-year age groups 5–24

We provide a full model specification in this web appendix. The statistical model for estimating the sex ratio of mortality for 0–1, 1–4, and 0–4 are detailed in (23).

In the following Section 3.1 and Section 3.2, we summarize the model to estimate the sex ratio of male mortality to female mortality for the age group for age groups 5–9, 10–14, 15–19, and 20–24. Since the same model is applied to each age group, we omit the index for age group, and all the notations in Section 3.1 and Section 3.2 are age specific.

The outcome of interest is $\exp\{\Psi_{c,t}\}\$, the sex ratio of mortality rate in the country c in year t, where $\Psi_{c,t}$ is the log of the sex ratio. For the country and year indexes, $c \in \{1, \dots, k\}$ with k = 200 referring to the total number of countries, and $t \in \{1, \dots, j\}$ with j = 72 indicating the individual years from 1950 (t = 1) to the year 2021 (t = j). Throughout the report, $\mathcal{N}(\mu, \sigma^2)$ refers to a normal distribution with mean μ and variance σ^2 and $\mathcal{U}(a,b)$ refers to a continuous uniform distribution with lower and upper bounds at a and b respectively.

The complete data process and model overview are in the flow chart Figure 1. The detailed explanations of the model and the posterior distribution are in the rest of this section.

3.1 Data model

Let z_i to be the *i*th observed sex ratio and $y_i = \log(z_i)$. We have the model:

$$y_i = \Psi_{c[i],t[i]} + \varepsilon_i, \text{ for } i \in \{1, \dots, n\},$$
(1)

$$\varepsilon_i |\omega_{s[i]}| \sim \mathcal{N}(0, u_i^2 + \omega_{s[i]}^2),$$
 (2)

$$\omega_s = 0, \text{ for } s = m, \tag{3}$$

$$\omega_{s} = 0, \text{ for } s = m,$$

$$\tau_{\omega,s} = \omega_{s}^{-2} \sim \mathscr{P}\mathscr{C}(z,0.01), \text{ for } s \in \{1, \dots, m-1\}.$$

$$(3)$$

For a certain age group, the observations of the sex ratio are indexed by $i \in \{1, \dots, n\}$. y_i denotes the *i*th log of observed sex ratio of mortality rate in country c[i] in year t[i] and is modeled on the log-scale. $\exp\{\Psi_{c,t}\}$ is the outcome of interest, the true sex ratio of mortality rate, in country c in year t. ε_i is the error term for y_i .

The error term ε_i follows a normal distribution as shown in Equation 2. The variance is the sum of two parts: (i) known stochastic/sampling error variance u_i^2 , (ii) unknown non-sampling error variance $\omega_{s[i]}^2$ that differs by data source type s. The sampling variance is pre-calculated using the Jackknife resampling method by the \mathbb{R} -package **demogsurv**³ to account for the uncertainty due to the sample design of the surveys. We assume the non-sampling error for VR/SRS

³Available at: https://github.com/mrc-ide/demogsurv. Accessed on July 27th, 2020.

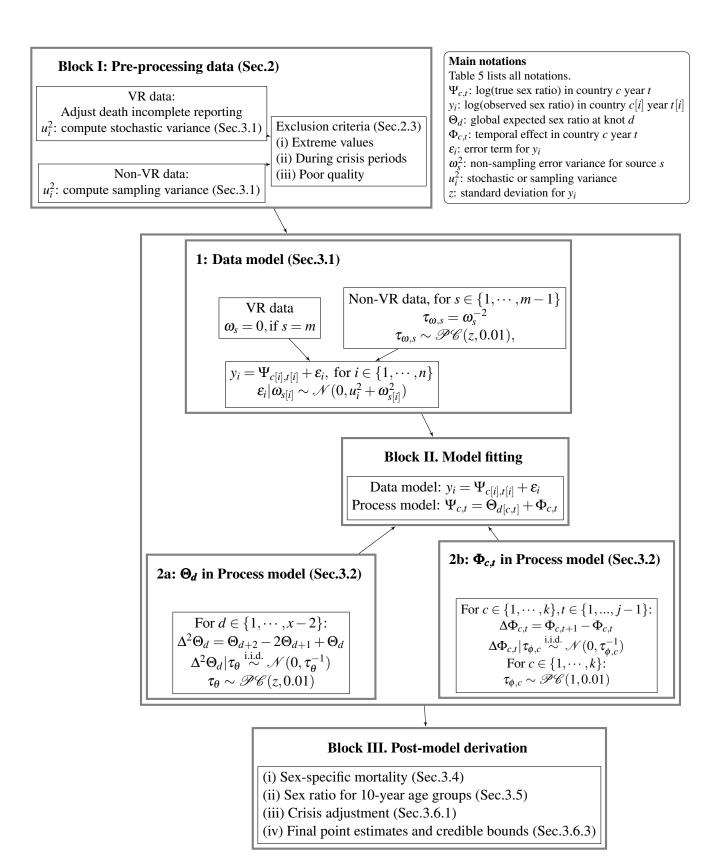


Figure 1: **Data and model process overview.** This flow chart summarizes the major steps of pre-precessing data (Block I), the Bayesian modelling steps (Block II), where $\Psi_{c,t}$ refers to the true sex ratio of mortality on the log-scale, and the post-model derivation (Block III).

data is zero (i.e. s = m refers to data source type VR/SRS). For data from non-VR/SRS source types, we estimate non-sampling error variances that vary across data source types $(s \in \{1, \dots, m-1\})$ refer to the set of non-VR/SRS data source types). z is the standard deviation of y_i . We assign Penalized Complexity (PC) priors for the precision parameter $\tau_{\omega,s}$ (24).

The Bayesian estimates are pooled towards informative observations and are less influenced by weakly informative observations. Retrospective estimates based on surveys and recent household deaths could be affected by differential underreporting of deaths in boys or girls. However, comparisons of birth histories in surveys with prospective demographic surveillance did not find that data quality markers were associated with the sex of the child (25). In sibling survival histories, there is evidence that underreporting of deaths is more frequent for brothers than sisters (26), so our estimates of the sex ratio in the age group 15–24 could be biased slightly downwards in countries where sibling data are our primary data source.

PC priors are default priors assigned to precision parameters used in the R-package R-INLA, which we used for Bayesian inference (refer to Section 3.3, paragraph Statistical computation). The main advantages of PC priors are that they are invariant to reparameterizations and have excellent robustness properties according to (24).

3.2 **Process model**

The process model for $\Psi_{c,t}$ is defined as:

$$\Psi_{c,t} = \Theta_{d[c,t]} + \Phi_{c,t}, \tag{5}$$

where $\Theta_{d[c,t]}$ is the global expected sex ratio evaluated at the total mortality rate (female and male combined) for country c in year t (more explanations in the next paragraph). $\Phi_{c,t}$ is the year-by-year fluctuation around the global relation, capturing the intra-country temporal correlation between country-specific observations.

 $\Theta_{d[c,t]}$ models the global non-linear relation between $\Psi_{c,t}$ and the total mortality rate in country c, year t. Specifically, let $V_{c,t}$ denote the log of total (male and female combined) mortality rate for country c year t, taken from the UN Inter-agency Group for Child Mortality Estimation (UN IGME) 2022 estimates (27). We define a grid of values κ_d for $d \in \{1, \dots, x\}$. x is the number of grid points where Θ_d is evaluated. x = 310 for age group 5–9, x = 230 for age group 10-14, x = 260 for age group 15-19, x = 275 for age group 20-24. x differs across age groups because the range of total mortality and country-years with data in different age groups varies. For all the five-year age groups from 5 to 24, we set $\kappa_1 = \log(1/1000)$, corresponding to 1 death per 1000 population on the log scale. We set κ_x as the 99th percentile of $V_{c,t}$ across all country-years with data in each age group. We match each $V_{c,t}$ to the κ_d with the smallest absolute difference from $V_{c,t}$, denoting the dth index for country-year c,t as d[c,t]. To model the relation between Θ_d and κ_d , we use a second-order random walk (RW2) process. We assume Θ_d is constant outside the range of κ_1 and κ_2 across all c and t. In particular,

$$\Delta^2 \Theta_d = \Theta_{d+2} - 2\Theta_{d+1} + \Theta_d, \text{ for } d \in \{1, \dots, x-2\}$$

$$\tag{6}$$

$$\Delta^{2}\Theta_{d}|\tau_{\theta} \stackrel{\text{i.i.d.}}{\sim} \mathcal{N}(0,\tau_{\theta}^{-1}), \text{ for } d \in \{1,\cdots,x-2\},$$

$$\tau_{\theta} \sim \mathscr{P}\mathscr{C}(z,0.01).$$
(8)

$$\tau_{\theta} \sim \mathscr{P}\mathscr{C}(z, 0.01).$$
 (8)

We assign a Penalized Complex (PC) prior to the global precision parameter τ_{θ} :

$$\tau_{\theta} \sim \mathscr{P}\mathscr{C}(z, 0.01).$$
 (9)

where z is the standard deviation of y_i . The PC prior is a vague prior. (24) documented the PC prior specification in detail.

Figure 2 illustrates the RW2 model results for Θ_d for age groups 5–9, 10–14, 15–19 and 20–24. The estimated model results (in purple) align with the empirical relationships demonstrated in loess curves. When developing our estimates, we explored modelling Θ_d on a regional level instead of on a global level. We decided against the use of a regional model for three reasons. First, some outlying countries with specific discrimination practices or distinct cause-specific mortality patterns would no longer be apparent, as we would lose the comparison with other countries in other regions with the same mortality level. Second, it was not easy to interpret the regional trends, and we could no

longer examine national deviations in the same consistent framework between birth and 25th birthday since the model for U5MR uses a global reference. Third, the uncertainty around estimates was slightly increased with a regional model.

 $\Phi_{c,t}$ models the discrepancy between $\Psi_{c,t}$ and global trend Θ_d . We use a first-order random walk (RW1) model for $\Phi_{c,t}$ and assign a PC prior to country-specific precision parameter $\tau_{\phi,c}$:

$$\Delta\Phi_{c,t} = \Phi_{c,t+1} - \Phi_{c,t}, \text{ for } c \in \{1, \dots, k\}, t \in \{1, \dots, j-1\}$$
(10)

$$\Delta\Phi_{c,t}|\tau_{\phi,c} \stackrel{\text{i.i.d.}}{\sim} \mathcal{N}(0,\tau_{\phi,c}^{-1}), \text{ for } c \in \{1,\cdots,k\}, t \in \{1,...,j-1\},$$
(11)

$$\tau_{\phi,c} \sim \mathscr{P}\mathscr{C}(1,0.01), \text{ for } c \in \{1,\cdots,k\}.$$
 (12)

The sum-to-zero constraint is imposed on $\Phi_{c,t}$ so that the precision matrix is full-rank:

$$\sum_{t=1}^{j} \Phi_{c,t} = 0, \text{ for } c \in \{1, \dots, k\}.$$
(13)

3.3 Model summary

Notations Table 5 summarizes the notation and indexes used in Section 3.1 and Section 3.2.

Data model

$$y_i = \Psi_{c[i],t[i]} + \varepsilon_i$$
, for $i \in \{1, \dots, n\}$,
 $\varepsilon_i | \omega_{s[i]} \sim \mathcal{N}(0, u_i^2 + \omega_{s[i]}^2)$,
 $\omega_s = 0$, for $s = m$.

Process model

$$\begin{array}{rcl} \Psi_{c,t} & = & \Theta_{d[c,t]} + \Phi_{c,t}, \\ \Delta^2 \Theta_d & = & \Theta_{d+2} - 2\Theta_{d+1} + \Theta_d, \text{ for } d \in \{1, \cdots, x-2\} \\ \Delta^2 \Theta_d | \tau_\theta & \stackrel{\text{i.i.d.}}{\sim} & \mathcal{N}(0, \tau_\theta^{-1}), \text{ for } d \in \{1, \cdots, x-2\}, \\ \Delta \Phi_{c,t} & = & \Phi_{c,t+1} - \Phi_{c,t}, \text{ for } c \in \{1, \cdots, k\}, t \in \{1, ..., j-1\} \\ \Delta \Phi_{c,t} | \tau_{\phi,c} & \stackrel{\text{i.i.d.}}{\sim} & \mathcal{N}(0, \tau_{\phi,c}^{-1}), \text{ for } c \in \{1, \cdots, k\}, t \in \{1, ..., j-1\}. \end{array}$$

Prior distributions Non-informative priors are assigned to hyper-parameters:

$$egin{aligned} au_{\omega,s} &= \omega_s^{-2} &\sim & \mathscr{PC}(z,0.01), \ & au_{ heta} &\sim & \mathscr{PC}(z,0.01), \ & au_{\phi,c} &\sim & \mathscr{PC}(1,0.01), \ & au_{\phi,c} &\sim & \mathscr{PC}(1,0.01), \ & au_{\phi,c} &\sim & \mathscr{PC}(1,0.01), \ & au_{\phi,c} &\sim & au_{\phi,c} &\sim & au_{\phi,c} \end{aligned}$$

Statistical computation We use the Integrated Nested Laplace Approximation (INLA) for Bayesian inference (28). We use the R-package R-INLA (29) to implement the INLA estimation procedure. The statistical source code is available upon request.

3.4 Derivation of sex-specific mortality

For each country-year, we calculated the sex-specific mortality by fulfilling (i) the number of female and male deaths sum up to the total number of deaths based on the life-table method; and (ii) the ratio of male to female mortality equals the sex ratio estimates from the Bayesian model. Given the total mortality rates $Q_{c,t}$ and the estimated sex ratio

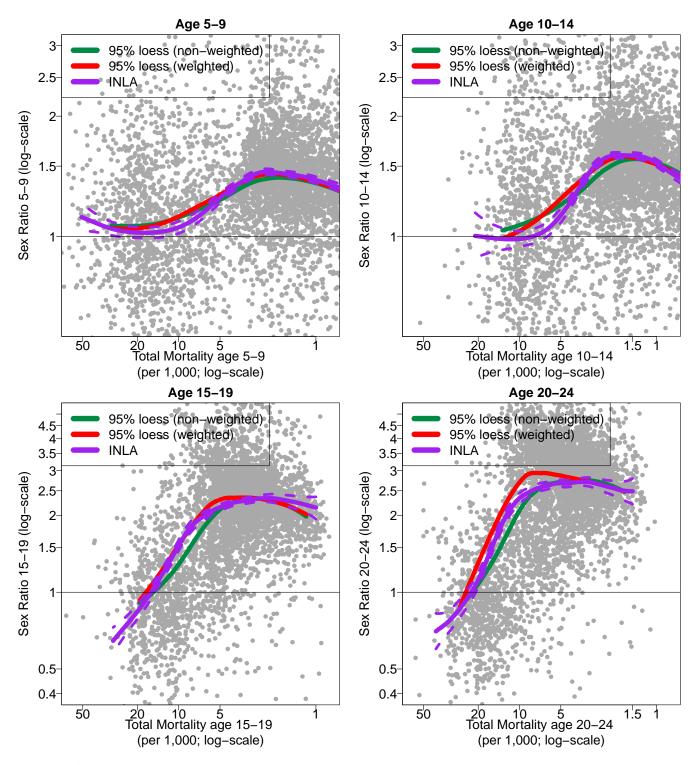


Figure 2: **Global relation between total mortality and sex ratio.** Green curves are loess fittings (using a redescending M estimator with Tukey's biweight function). Red curves are symmetric loess by weighting data points by the reverse of their sampling error variances. Purple solid curves are the mean of the model fittings using the RW2 model, and dashed curves are 90% uncertainty intervals.

Symbol	Description					
	Indexes					
i	<i>i</i> Indicator for observations across all country-years, $i \in \{1, \dots, n\}$.					
С	Indicator for country, $c \in \{1, \dots, k\}$, where $k = 200$. $c[i]$ refers to the country index					
of observation <i>i</i> .						
t	Indicator for year, $t \in \{1, \dots, j\}$, where $j = 72$. $t = 1$ corresponds to the year 1950					
	and $t = j$ to the year 2021. $t[i]$ refers to the year index of observation i .					
S	Indicator for data source type, $s \in \{1, \dots, m\}$, where $m = 3$. $s = 1$ corresponds to					
	data source type DHS, $s = 2$ to others, and $s = 3$ to VR/SRS.					
d	Indicator for the dth unique value of the total mortality rate κ_d and corresponding					
	global expected sex ratio Θ_d . $d[c,t]$ refers to the index based on total mortality in					
	country-year c,t . More explanations are in the row of κ_d .					
	Known quantities					
z_i	ith observed sex ratio of mortality rate for country $c[i]$ in year $t[i]$ with data source					
	type $s[i]$.					
$y_i \qquad y_i = \log(z_i).$						
u_i^2	The <i>i</i> th sampling error variance for y_i .					
z	The standard deviation of y_i .					
$Q_{c,t}$	The total mortality rate for country c in year t (20).					
$V_{c,t}$	$V_{c,t} = \log(Q_{c,t})$					
κ_d	Grid of $V_{c,t}$ where Θ_d is evaluated for $d \in \{1, \dots, x\}$, and $x = 260$. $\kappa_1 =$					
	$\log(1/1000)$, i.e. \log of 1 death per 1000 population (same κ_1 value for all age					
	groups). κ_x is the 99th percentile of $V_{c,t}$ across all country-years with data (differ-					
	ent κ_x values across age groups).					
	Unknown parameters					
$\Psi_{c,t}$	The true log of sex ratio of mortality rate for country c , year t .					
$\Theta_{d[c,t]}$ The global expected sex ratio evaluated at κ_d .						
$\Phi_{c,t}$	The year-by-year within country discrepancy between $\Psi_{c,t}$ and Θ_d .					
$ au_{\omega,s}$	The precision parameter for non-sampling error variance with data source type s.					
$ au_{ heta}$	The precision parameter for the second-order increment $\Delta^2 \Theta_d$.					
$ au_{\phi,c}$	The country-specific precision parameter for the first-order increment $\Delta\Phi_{c,t}$ for					
	country c.					

Table 5: Notation summary.

of the mortality rates $\Psi_{c,t}$, we derive the sex-specific mortality rates as shown in Table 6. In this subsection, we omit the indexes for country c and year t and use superscripts [F] and [M] for male- and female-specific indicators.

To incorporate the uncertainties in the sex ratio of mortality, total mortality, and population sizes, the calculation steps in Table 6 are applied to each posterior sample of:

- Each posterior sample of the log of sex ratio Ψ : from the Bayesian model.
- Each trajectory of the total mortality Q: from (27) (not part of this modelling process).
- Each trajectory of the numbers of the total and male population (N and $N^{[M]}$) at the beginning of a 5-year age group: from the UN WPP (4) (not part of this modelling process).

Table 6: Derivation of sex-specific mortality rate for a 5-year age group.

```
Step#
          Description
  1:
          Initialize female and male mortality rates {}^{(0)}Q^{[F]} and {}^{(0)}Q^{[M]} with based on total mortality Q and
          log of sex ratio \Psi, and the proportion of males N^{[M]} in the whole population N at the beginning
          of a certain age group (e.g. for age group 15–19, the beginning of the age group is age 15):
          w = N^{[M]}/N:
          ^{(0)}Q^{[M]} = Q/(w + (1-w)/\exp{\{\Psi\}}),
          {}^{(0)}Q^{[F]} = {}^{(0)}Q^{[M]}/\exp{\{\Psi\}},
  2:
          Following the life table calculation, we compute the central rate of mortality<sup>4</sup> for the female,
          male, and total population (denoted as m^{[F]}, m^{[M]}, and m respectively):
          ^{(0)}m^{[F]} = {^{(0)}Q^{[F]}}/(5(1-{^{(0)}Q^{[F]}}/2))
          ^{(0)}m^{[M]} = {^{(0)}Q^{[M]}}/(5(1-{^{(0)}Q^{[M]}}/2))
          ^{(0)}m = (^{(0)}m^{[F]}N^{[F]} + ^{(0)}m^{[M]}N^{[M]})/N
          We use the usual approximation to compute m values by assuming the average population
          size in each age group within one year is N(1-Q^*), where Q^* is Q^{[F]} or Q^{[M]}. The average
          population size for a 5-year age group within one year is approximated by 5N(1-Q^*).
          Compute the total mortality rate based on initial values:
  3:
          ^{(0)}Q = 5^{(0)}m/(1+(5-5/2)^{(0)}m)
          Compute the relative difference between the given total mortality Q with the calculated total
  4:
          mortality ^{(0)}O:
          ^{(0)}re = |^{(0)}Q - Q|/Q
          if ^{(0)}re < 10^{-8} then
  5:
             stop Set {}^{(0)}Q^{[F]} and {}^{(0)}Q^{[M]} as the final sex-specific mortality rates.
  6:
          else
             for g \in \{1, \cdots, G\} do
  7:
                Simulate 10^5 equally distributed male mortality rate within the interval [(g-1)Q^{[M]}]
  8:
          (g-1)Q^{[M]}/10^{-3}, (g-1)Q^{[M]} + (g-1)Q^{[M]}/10^{-3}]. Denote each simulation as (g)Q^{[M]}_s for s \in
          \{1, \cdots, 10^5\}.
  9:
                Simulations for female mortality rates are: {}^{(g)}Q_s^{[F]} = {}^{(g)}Q_s^{[M]}/\Psi for s \in \{1, \dots, 10^5\}.
                Repeat steps 2–6 until (g)re < 10^{-8}.
  10:
```

3.5 Derivation of sex ratio for 10-year age groups

This subsection explains how we derived the sex ratio for 15–24 based on sex ratios 15–19 and 20–24. The same procedures apply to deriving the sex ratio for 5–14 based on sex ratios for 5–9 and 10–14.

The sex ratio for mortality rate from age group 15–24 is calculated from $S_{1,c,t}$ and $S_{2,c,t}$ through standard cohort equations. Sex-specific mortality rates for age groups 15–19 (a=1) and 20–24 (a=2) are derived as follows (omitting

⁴It is approximately equal to the average number of deaths each year at age x last birthday, divided by the average population at that age in the same year.

country c and year t subscripts, and using superscripts [F] and [M] for male- and female-specific indicators):

$$egin{array}{lll} Q_a^{ ext{IM}} &=& rac{Q_a}{w_a + rac{1 - w_a}{S_a}}, ext{ for } a \in \{1, 2\}, \ &Q_a^{ ext{IF}]} &=& rac{Q_a^{ ext{IM}]}}{S_a}, ext{ for } a \in \{1, 2\}. \end{array}$$

 w_1 refers to the proportion of males at the age of 15. w_2 indicates the ratio of male survivors to age 19 over the total number of survivors up to age 19:

$$w_1 = \frac{N_1^{[M]}}{N_1},$$

 $w_2 = \frac{N_2^{[M]}}{N_2} = \frac{w_1(1 - Q_1^{[M]})}{1 - Q_1},$

where N_1 refers to the total population at age 15, and N_2 is the number of survivors up to age 19 (approximated by the population at age 15 times the mortality rate for age group 15–19).

Given the mortality rates for age groups 15–19 and 20–24 by sex, the sex-specific mortality rates for age group 15–24 are calculated as follows:

$$Q_3 = 1 - (1 - Q_1)(1 - Q_2),$$

for males and females, which are then used to produce sex ratios of mortality rate for the age group 15–24:

$$S_{3,c,t} = rac{Q_{3,c,t}^{[\mathrm{M}]}}{Q_{3,c,t}^{[\mathrm{F}]}}.$$

3.6 Computation of final results

Throughout the project, we presented our results in the format of "point estimate [lower bound; upper bound]". E.g. the age-sex-specific mortality rate and deaths are presented as $Q_{a,c,t}^{P.E.}[Q_{a,c,t}^L;Q_{a,c,t}^U]$ and $D_{a,c,t}^{P.E.}[D_{a,c,t}^L;D_{a,c,t}^U]$ respectively. We use superscripts [F] and [M] for male- and female-specific indicators. This section will explain how we derived each component in the result.

3.6.1 Constructing posterior samples of outcomes that include crisis-related deaths and uncertainty in national-level mortality rate

All the indicators in this section are country-year-specific. Hence, we omit the indexes c and t for country and year for simplicity.

The sex-specific mortality rates and related deaths were adjusted in country-years to account for abrupt increases in mortality due to conflicts and disasters, which would otherwise not be present in the smoothed mortality curves obtained from the statistical model. No specific adjustment was made for the coronavirus disease 2019 (COVID-19) pandemic because the UN IGME did not find sufficient evidence to warrant a systematic adjustment for national both-sex estimates based on available data from over 110 countries in 2020 and over 80 countries in 2021 (27). Moreover, estimates from vital statistics data already reflected the potential disruptions introduced by the pandemic. Data were lacking in other countries without vital statistics to conclude on effects of the pandemic on sex differences in mortality below the age of 25.

Table 12 lists all the country-years with crisis adjustments by age groups. Crisis adjustments were made during the identified crisis periods in 36 countries for ages 0–4, 53 countries for ages 5–14, and 48 countries for ages 15–24 to account for crisis-related deaths.

The following criteria were used to identify crises:

- 1. The crisis was isolated to a few years,
- 2. Crisis deaths in each age group were >10% of non-crisis deaths in this age group,

- 3. The crisis-specific risk of dying was greater than 0.2 per 1,000,
- 4. The number of crisis deaths in each age group was greater than 10.

To include crisis-related deaths in the crisis-free sex-specific estimates obtained from the model, we followed the procedures used by the UN IGME for adjusting national-level mortality rates (30; 27). The *g*-th posterior sample for sex-specific mortality rate including crisis-related deaths, denoted as ${}^{(g)}Q(\text{full})_a^{[\text{sex}]}$, is defined as follows for $\text{sex} \in \{F,M\}$:

$$^{(g)}Q(\mathrm{full})_a^{[\mathrm{sex}]} \ = \ \begin{cases} {}^{(g)}Q(\mathrm{crisis-free})_a^{[\mathrm{sex}]} + Q(\mathrm{crisis})_a^{[\mathrm{sex}]}, & \text{if affected by crisis} \\ {}^{(g)}Q(\mathrm{crisis-free})_a^{[\mathrm{sex}]} & \text{o.w.} \end{cases}$$

 $Q(\text{crisis-free})_a^{(g)}$ is the *g*-th posterior sample of crisis-free country-year-age-sex-specific mortality rate that includes uncertainty in national-level mortality (Section 3.4).

 $Q(\mathrm{crisis})_a^{\mathrm{[sex]}}$ is the country-year-age-sex-specific mortality rate due to crisis. No uncertainty of crisis-related mortality rate has been included in the final adjusted sex-specific mortality rate results. Age-sex distributions for conflict deaths were applied to estimates of total conflict deaths by country-year based on available distributions of conflict deaths by age and sex for specific conflicts (31). Estimated deaths for major natural disasters up to and including 2021 were obtained from the Emergency Events Database (EM-DAT), the International Disaster Database, which is maintained by the Centre for Research on the Epidemiology of Disasters (CRED)(32). Global Health Estimates (GHE) age-sex distributions were used. These are based on several studies of earthquake and tsunami deaths (31). Deaths due to armed conflict and violence are from the Armed Conflict Location and Event Data Project (ACLED) (33), the Uppsala Conflict Data Program (UCDP) for Battle-Related Deaths, Non-State Conflict Dataset (34), and One-sided Violence Dataset (34).

Posterior samples for the sex ratio of mortality rates (with crisis-related deaths), inclusive of uncertainty in the national-level death (including crisis-related deaths), were given by:

$$^{(g)}\exp\{\Psi(\text{full})\}_a = \frac{^{(g)}Q(\text{full})_a^{[M]}}{^{(g)}Q(\text{full})_a^{[F]}}$$

3.6.2 Rounding

We kept three significant figures for all reported estimates and uncertainty intervals. We round the number of sex-specific deaths for each country-year to its nearest integer.

3.6.3 Constructing uncertainty intervals and point estimates

All the indicators in this section are country-year-specific. Hence, we omit the indexes c and t for country and year for simplicity. The 90% uncertainty intervals for $\Psi(\text{full})_a$, $Q(\text{full})_a$, and $D(\text{full})_a$, denoted as $[*^L; *^U]$, are the 5th and 95th percentiles of the corresponding posterior samples:

$$\begin{array}{lll} *^{L} & = & \mathrm{percentile}_{5\%} \left\{ ^{(1)}*, \ldots, ^{(G)}* \right\}, \\ \\ *^{U} & = & \mathrm{percentile}_{95\%} \left\{ ^{(1)}*, \ldots, ^{(G)}* \right\}. \end{array}$$

where * can be substituted with $\Psi(\text{full})_a$, $Q(\text{full})_a$, and $D(\text{full})_a$.

The point estimates $\exp\{\Psi(\text{full})\}_a^{\text{P.E.}}$ are combined with the point estimates of total mortality rate $Q(\text{full})_a^{\text{P.E.}}$ and the number of total deaths $D(\text{full})_a^{\text{P.E.}}$ (both include crisis-related deaths and were obtained from the UN IGME 2023 results (27), not part of the modelling process) to derive the point estimates of sex-specific mortality $Q(\text{full})_a^{\text{P.E.}[\text{sex}]}$ and point estimates of sex-specific deaths $D(\text{full})_a^{\text{P.E.}[\text{sex}]}$ using the same procedure in Section 3.4.

Sex-specific deaths to be consistent with total deaths Due to rounding (Section 3.6.2) and the birth-week cohort method, the sum of the sex-specific deaths for a particular country-year $D(\text{full})_a^{\text{P.E.}[F]} + D(\text{full})_a^{\text{P.E.}[M]}$ may be slightly different than the total deaths for the same country-year $D(\text{full})_a^{\text{P.E.}}$, where total deaths computation is not part of the modelling process. When the inconsistency occurs for a certain country-year, we take the difference between $D(\text{full})_a^{\text{P.E.}[F]} + D(\text{full})_a^{\text{P.E.}[M]}$ and $D(\text{full})_a^{\text{P.E.}[F]} + D(\text{full})_a^{\text{P.E.}[M]} = D(\text{full})_a^{\text{P.E.}[M]}$ for all country-years. We adjust point estimates but not the uncertainty intervals.

3.6.4 Imputing results for countries without data

Estimates for countries without data were imputed from the model assumptions and parameter estimates. They were based on the expected sex ratios (determined by the national-level mortality rate for that country), the uncertainty in country-specific deviations based on simulations of the country-year-specific multiplier (that captured the variability unexplained by the expected sex ratios), and the uncertainty in national-level mortality rates.

4 Validation exercise and results

We validate the model performance by leaving out data collected after a particular year, referred to as the "survey year", rather than randomly leaving out data. This validation approach has been used in various previous global health and population studies (35; 23; 36; 37; 38; 39; 40; 41). The left-out observations are roughly 20% of the total observations (due to the varying number of observations collected in each survey year, the left-out observations can be slightly above or below 20%). We call the left-out observations "testing dataset" and the remaining observations "training dataset".

For each left-out observation in the testing dataset, we generate a posterior predictive distribution based on the Bayesian model fittings for the training dataset. We compute the error as the difference between the left-out observation and the median of the posterior predictive distribution. We report the median errors of all the left-out observations and the median of the absolute errors. We also report the coverage of the 90% prediction intervals (PIs). The lower and upper bound of the 90% PI for each left-out observation is the 5th and 95th percentiles of the posterior predictive distribution. To summarise the coverage, we compute the proportion of left-out observations that fall outside the 90%

We also validate the model performance by comparing the model estimates based on the full and training datasets. We compute the error for each country-year as the difference between the median estimates based on the full dataset and those based on the training dataset. We report the median of these errors and absolute errors for all the country-years. We check the percentage of the country-years where the median estimates based on the full dataset fall outside the credible bounds of the estimates based on the training dataset. Table 8 shows the results for the comparison between estimates obtained based on the full dataset and estimates based on the training set. Median errors and the median absolute errors were close to zero, and the proportion of updated estimates that fell outside the uncertainty intervals constructed based on the training set was small.

Age group	5–9	10–14	15–19	20–24
Median error	-0.04	-0.07	-0.04	-0.02
Median absolute error	0.30	0.33	0.35	0.40
% of left-out observations below 90% prediction interval	4.3	5.5	3.8	3.5
% of left-out observations above 90% prediction interval	4.0	2.8	1.6	1.0
Expected proportions (%)		5	5	5
# left out observations	1,083	1,061	965	961
% of left out to total observations	20.6	20.6	20.1	20.1
Survey year left out	2013	2013	2013	2013

Table 7: **Validation results for left-out observations by age group.** Errors are defined as the difference between a left-out observation and the posterior median of its predictive distribution. Survey year left out: left out all observations that were collected in or after the year.

Age group		5–9			10–14	
Year	2000	2005	2010	2000	2005	2010
Median error	-0.00	-0.00	-0.01	-0.00	-0.00	-0.01
Median absolute error	0.01	0.01	0.02	0.01	0.02	0.03
Below 90% uncertainty interval (%)	0.0	0.0	0.5	0.0	0.5	1.0
Above 90% uncertainty interval (%)	0.0	0.0	0.0	0.0	0.0	0.0
Expected proportions (%)	≤5	≤5	≤5	≤5	≤5	≤5
Age group		15–19			20-24	
Year	2000	2005	2010	2000	2005	2010
Median error	-0.00	-0.00	-0.00	-0.00	-0.00	-0.01
Median absolute error	0.01	0.01	0.03	0.01	0.02	0.04
Below 90% uncertainty interval (%)	0.0	0.5	1.5	0.0	1.0	1.0
Above 90% uncertainty interval (%)	0.0	0.0	0.0	0.0	0.0	0.0
Expected proportions (%)	≤5	≤5	≤5	≤5	≤5	≤5

Table 8: Summary of differences in sex ratio estimates in observation years 2000, 2005, and 2010 based on the training and full data sets. Errors are the differences between estimates based on the full dataset and the training set. The proportions refer to the proportions (%) of countries where the median sex ratio estimates based on the full data set fall below or above their corresponding 90% uncertainty intervals based on the training dataset. The results are broken down by age groups and observation years.

5 Global expected sex ratios by age group

Figure 3 illustrates the expected sex ratios for total mortality based on the global relationship between mortality levels and sex ratios for the 0-4, 5-14, and 15-24 age groups. Similar patterns occur for all age groups; as the total mortality declines, the sex ratio initially increases until it reaches a maximum, followed by a slight reduction when the total mortality further decreases.

6 Discussion on adding covariates in Bayesian models

Our main objective with this study was to produce robust estimates of sex-specific mortality using a model that does not use covariates. We could have included generic covariates such as GDP per capita, adult literacy rate, indicators related to cause-of-death distribution such as the prevalence of HIV (42) or maternal mortality ratio (43), and sex-specific indicators such as the difference between female and male expected years of schooling or the male and female estimated earned income, sex-specific mortality related/due to infectious diseases, especially zoonotic diseases (44; 45), or information on sex differentials in health status such as nutrition, immunisation (46). This could have improved the estimation, but many aforementioned covariates are unavailable for all countries worldwide or result from complex modelling. Furthermore, the set of covariates would need to change for each age group. In addition, the resulting estimates would no longer be helpful to pinpoint countries with outlying sex ratios (as covariates could affect this outlying situation), and we would no longer be in a position to relate the sex ratios to these potential drivers (as this would be circular).

With our parsimonious model, we only make use of a strong and well-established relationship between overall mortality and the sex ratio, and we can, therefore (1) coherently estimate sex ratios from birth to age 25, and (2) produce robust estimates of sex-specific mortality which can now be analysed in relation to these drivers.

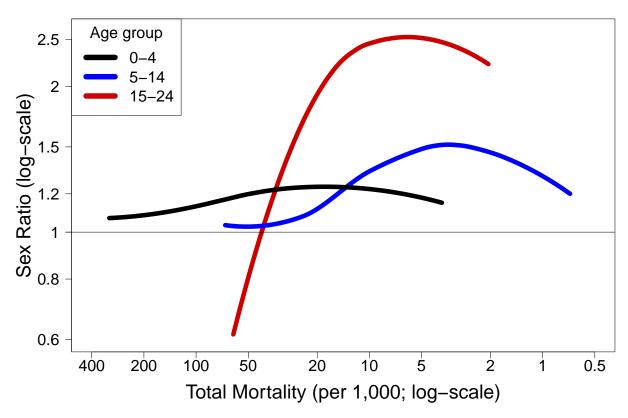


Figure 3: **Overview of the global relations between sex ratios and total mortality levels.** The curves illustrate the relation between sex ratios and total mortality based on the Bayesian models.

7 GATHER Compliance

Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER) are reported in Table 9.

Table 9: Checklist of information that should be included in new reports of global health estimates. M: main manuscript. A: Appendix. Section titles after "M" are stated for the main manuscript. Page numbers after "A" are shown for the appendix.

Item #	Checklist item	Reported on page # or section #						
Objec	Objectives and funding							
1	Define the indicator(s), populations (including age, sex, and geographic entities), and	M-Introduction						
	time period(s) for which estimates were made.							
2	List the funding sources for the work.	M-Summary						
Objec	tives and funding							
For al	l data inputs from multiple sources that are synthesized as part of the study:							
3	Describe how the data were identified and how the data were accessed.	M-Database						
		construction,						
		A1–4						
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	M-Database						
		construction,						
		A4						
5	Provide information on all included data sources and their main characteristics. For each	A69–200						
	data source used, report reference information or contact name/institution, the popula-							
	tion represented, data collection method, year(s) of data collection, sex and age range,							
	diagnostic criteria or measurement method, and sample size, as relevant.							
6	Identify and describe any categories of input data that have potentially important biases	A1–4						
	(e.g., based on characteristics listed in item 5).							
For do	ta inputs that contribute to the analysis but were not synthesized as part of the study:							
7	Describe and give sources for any other data inputs.	M-Database						
		construction,						
		A1, A69–200						
For al	l data inputs:							
8	Provide all data inputs in a file format from which data can be efficiently extracted (e.g.,	M-Database						
	a spreadsheet rather than a PDF), including all relevant meta-data listed in item 5. For	construction						
	any data inputs that cannot be shared because of ethical or legal reasons, such as third-							
	party ownership, provide a contact name or the name of the institution that retains the							
	right to the data.							
Data a	analysis							
9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	M-Database						
		construction,						
		A5						
10	Provide a detailed description of all analysis steps, including mathematical formulae.	M-Statistical						
	This description should cover, as relevant, data cleaning, data pre-processing, data ad-	analysis, A1-11						
	justments and weighting of data sources, and mathematical or statistical model(s).							
11	Describe how candidate models were evaluated and how the final model(s) were se-	M-Statistical						
	lected.	analysis, A13						
12	Provide the results of an evaluation of model performance, if done, as well as the results	A13-14						
	of any relevant sensitivity analysis.							

Table 9 – continued from previous page

Item	Checklist item	Reported		
#		on page # or		
		section #		
13	Describe methods for calculating the uncertainty of the estimates. State which sources	A11-13		
	of uncertainty were, and were not, accounted for in the uncertainty analysis.			
14	State how analytic or statistical source code used to generate estimates can be accessed.	M-Statistical		
		analysis		
Results and Discussion				
15	Provide published estimates in a file format from which data can be efficiently extracted.	A24–68		
16	Report a quantitative measure of the uncertainty of the estimates (e.g., uncertainty inter-	A24–68		
	vals).			
17	Interpret results in light of existing evidence. If updating a previous set of estimates,	M-Results		
	describe the reasons for changes in estimates.			
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions	M-Discussion		
	or data limitations that affect the interpretation of the estimates.			

8 Supplementary tables

UNICEF Region	Country
South Asia	Afghanistan; Bangladesh; Bhutan; India; Maldives; Nepal; Pakistan; Sri
	Lanka
Europe and Central Asia	Albania; Andorra; Armenia; Austria; Azerbaijan; Belarus; Belgium; Bosnia and Herzegovina; Bulgaria; Croatia; Cyprus; Czech Republic; Denmark; Estonia; Finland; France; Georgia; Germany; Greece; Hun-
	gary; Iceland; Ireland; Italy; Kazakhstan; Kosovo; Kyrgyzstan; Latvia; Lithuania; Luxembourg; Macedonia; Malta; Republic of Moldova; Monaco; Montenegro; Montserrat; Netherlands; Norway; Poland; Portugal; Romania; Russian Federation; San Marino; Serbia; Slovakia; Slovenia; Spain; Sweden; Switzerland; Tajikistan; Turkey; Turkmenistan; Ukraine; United Kingdom; Uzbekistan
Middle East and North Africa	Algeria; Bahrain; Egypt; Iran (Islamic Republic of); Iraq; Israel; Jordan; Kuwait; Lebanon; Libya; Morocco; Oman; Qatar; Saudi Arabia; State of Palestine; Syria; Tunisia; United Arab Emirates; Yemen
Sub-Saharan Africa	Angola; Benin; Botswana; Burkina Faso; Burundi; Cameroon; Cape Verde; Central African Republic; Chad; Comoros; Congo; Democratic Republic of the Congo; Cote d'Ivoire; Djibouti; Equatorial Guinea; Eritrea; Ethiopia; Gabon; The Gambia; Ghana; Guinea; Guinea-Bissau; Kenya; Lesotho; Liberia; Madagascar; Malawi; Mali; Mauritania; Mauritius; Mozambique; Namibia; Niger; Nigeria; Rwanda; Sao Tome and Principe; Senegal; Seychelles; Sierra Leone; Somalia; South Africa; South Sudan; Sudan; Swaziland; Tanzania; Togo; Uganda; Zambia; Zimbabwe
Latin America and Caribbean	Anguilla; Antigua and Barbuda; Argentina; Bahamas; Barbados; Belize; Bolivia (Plurinational State of); Brazil; British Virgin Islands; Chile; Colombia; Costa Rica; Cuba; Dominica; Dominican Republic; Ecuador; El Salvador; Grenada; Guatemala; Guyana; Haiti; Honduras; Jamaica; Mexico; Nicaragua; Panama; Paraguay; Peru; Saint Kitts and Nevis; Saint Lucia; Saint Vincent and the Grenadines; Suriname; Trinidad and Tobago; Turks and Caicos Islands; Uruguay; Venezuela (Bolivarian Republic of)
East Asia and Pacific	Australia; Brunei; Cambodia; China; Cook Islands; Federated States of Micronesia; Fiji; Indonesia; Japan; Kiribati; Democratic People's Republic of Korea; Republic of Korea; Lao People's Democratic Republic; Malaysia; Marshall Islands; Mongolia; Myanmar; Nauru; New Zealand; Niue; Palau; Papua New Guinea; Philippines; Samoa; Singapore; Solomon Islands; Thailand; Timor Leste; Tonga; Tuvalu; Vanuatu; Vietnam
North America	Canada; United States of America

Table 10: Classification of countries by UNICEF regions.

Table 11: Completeness of death registration for intercensal periods.

Country	First	Second	Males	Females	Both sexes
·	census	census			
Albania	1989	2001	1.00	1.00	1.00
Albania	2001	2011	1.00	1.00	1.00
Algeria	1998	2008	1.00	1.00	1.00
Antigua and Barbuda	2001	2011	1.00	1.00	1.00
Argentina	1991	2001	1.00	1.00	1.00
Argentina	2001	2010	1.00	1.00	1.00
Armenia	1989	2001	1.00	1.00	1.00
Armenia	2001	2011	1.00	1.00	1.00
Azerbaijan	1989	1999	0.93	0.86	0.90
Azerbaijan	1999	2009	0.92	0.93	0.93
Bahamas	1990	2000	0.81	0.81	0.81
Bahamas	2000	2010	0.90	0.89	0.89
Bahrain	1991	2001	1.00	1.00	1.00
Bahrain	2001	2010	0.92	0.89	0.91
Barbados	2000	2010	1.00	1.00	1.00
Belize	1991	2000	1.00	1.00	1.00
Belize	2000	2010	1.00	0.91	0.93
Brazil	1991	2000	1.00	1.00	1.00
Brazil	2000	2010	0.93	0.92	0.92
Brunei Darussalam	1991	2011	1.00	1.00	1.00
Cape Verde	1990	2000	0.86	1.00	0.93
Cape Verde	2000	2010	1.00	1.00	1.00
Colombia	1993	2005	0.95	1.00	1.00
Cook Islands	1996	2006	1.00	1.00	1.00
Costa Rica	1984	2000	1.00	0.90	1.00
Costa Rica	2000	2011	1.00	0.92	1.00
Cuba	1981	2002	1.00	1.00	1.00
Cuba	2002	2012	1.00	1.00	1.00
Cyprus	1992	2001	1.00	1.00	1.00
Cyprus	2001	2011	0.88	0.87	0.88
Dominica	1991	2001	1.00	0.92	1.00
Dominica	2001	2011	1.00	1.00	1.00
Dominican Republic	2002	2010	0.54	0.53	0.54
Ecuador	1990	2001	1.00	1.00	1.00
Ecuador	2001	2010	0.66	0.66	0.66
Egypt	1996	2006	1.00	1.00	1.00
Egypt	2006	2017	0.90	1.00	1.00
El Salvador	1992	2007	1.00	1.00	1.00
Fiji	2007	2017	0.93	1.00	1.00
Georgia	1989	2002	0.91	0.80	0.85
Georgia	2002	2014	1.00	1.00	1.00
Grenada	1981	2001	0.79	0.84	0.82
Grenada	2001	2011	1.00	1.00	1.00
Guatemala	1981	2018	1.00	1.00	1.00
Guyana	1991	2002	1.00	1.00	1.00
Guyana	2002	2012	1.00	1.00	1.00

Table 11 – continued from previous page

Country		om previous page Second Males Females Bo				
Country	First census	census	wates	remaies	Both sexes	
Iran (Islamic Republic of)	1996	2006	0.44	0.44	0.44	
Iran (Islamic Republic of)	2006	2011	0.44	0.44	0.44	
Jamaica	1991	2001	0.82	0.90	0.86	
Jamaica	2001	2011	0.82	1.00	0.80	
Jordan	2001	2011	0.49	0.55	0.93	
Kazakhstan	1999	2013	1.00	1.00	1.00	
Kiribati	1999	2009	0.50	0.40	0.45	
Kuwait	1995	2005	1.00	1.00	1.00	
	1993	1999	1.00	1.00		
Kyrgyzstan	1989	2009		1.00	1.00	
Kyrgyzstan			1.00		1.00	
Malaysia	1991	2000	1.00	1.00	1.00	
Malaysia	2000	2010	1.00	1.00	1.00	
Maldives	1985	1995	1.00	0.93	1.00	
Maldives	1995	2006	1.00	1.00	1.00	
Malta	1995	2005	1.00	0.94	1.00	
Marshall Islands	1988	1999	0.74	0.46	0.60	
Mauritius	1990	2000	1.00	1.00	1.00	
Mauritius	2000	2011	1.00	1.00	1.00	
Mexico	1990	2000	1.00	1.00	1.00	
Mexico	2000	2010	1.00	1.00	1.00	
Mongolia	1989	2000	0.88	0.82	0.85	
Mongolia	2000	2010	1.00	1.00	1.00	
Montenegro	1991	2003	1.00	0.89	1.00	
Montenegro	2003	2011	1.00	1.00	1.00	
Morocco	1994	2004	0.45	0.25	0.35	
Nicaragua	1995	2005	0.79	0.74	0.76	
North Macedonia	1991	2002	1.00	0.94	1.00	
Panama	1990	2000	0.88	0.87	0.88	
Panama	2000	2010	0.90	0.87	0.89	
Paraguay	1992	2002	0.76	0.78	0.77	
Peru	1993	2007	0.75	0.80	0.77	
Peru	2007	2017	0.69	0.78	0.73	
Philippines	1990	2000	1.00	1.00	1.00	
Philippines	2000	2015	0.91	1.00	1.00	
Qatar	1997	2010	1.00	1.00	1.00	
Republic of Korea	1985	1995	0.89	0.82	0.86	
Republic of Korea	1995	2005	1.00	1.00	1.00	
Republic of Korea	2005	2015	0.81	0.77	0.79	
Republic of Moldova	1989	2004	1.00	1.00	1.00	
Republic of Moldova	2004	2014	1.00	1.00	1.00	
Romania	1992	2002	1.00	1.00	1.00	
Romania	2002	2011	1.00	1.00	1.00	
Saint Kitts and Nevis	1991	2001	1.00	1.00	1.00	
Saint Lucia	1991	2001	1.00	1.00	1.00	
Saint Vincent and the Grenadines	1991	2001	1.00	1.00	1.00	
Saint Vincent and the Grenadines	2001	2012	1.00	1.00	1.00	
Serbia	1991	2002	1.00	1.00	1.00	
				O 1	on novt nago	

Table 11 – continued from previous page

Country	First	Second Second	Males	Females	Both sexes
	census	census			
Serbia	2002	2011	0.94	1.00	1.00
Seychelles	1994	2002	1.00	1.00	1.00
Seychelles	2002	2010	1.00	1.00	1.00
Singapore	1990	2000	0.75	0.78	0.77
Singapore	2000	2010	0.83	0.90	0.86
South Africa	1991	2001	1.00	0.82	1.00
South Africa	2001	2011	0.89	0.91	0.90
Sri Lanka	1981	2001	1.00	1.00	1.00
Sri Lanka	2001	2012	1.00	0.90	1.00
Suriname	1980	2004	0.87	0.92	0.89
Suriname	2004	2012	0.93	0.83	0.88
Tajikistan	1989	2000	0.92	0.70	0.80
Tajikistan	2000	2010	1.00	1.00	1.00
Thailand	1990	2000	0.81	0.83	0.82
Thailand	2000	2010	0.83	0.87	0.85
Tonga	1996	2006	0.93	1.00	1.00
Tonga	2006	2016	1.00	1.00	1.00
Trinidad and Tobago	1990	2000	1.00	1.00	1.00
Trinidad and Tobago	2000	2011	1.00	1.00	1.00
Tunisia	1994	2004	0.89	0.81	0.86
Turkey	2000	2011	0.49	0.54	0.51
Turkmenistan	1989	1995	0.94	0.83	0.89
Uruguay	1996	2004	1.00	1.00	1.00
Uruguay	2004	2011	1.00	1.00	1.00
Uzbekistan	1979	1989	0.91	0.85	0.88
Venezuela (Bolivarian Republic of)	1990	2001	1.00	1.00	1.00
Venezuela (Bolivarian Republic of)	2001	2011	0.89	0.85	0.88
Zimbabwe	1992	2002	0.71	0.32	0.48

Table 12: Country-years with crisis adjustments, by age group.

Armenia Burundi Bangladesh Bahamas Bosnia and Herzegovina Congo	0–4 1988 1972; 1993	Age Group 5–14	15–24
Burundi Bangladesh Bahamas Bosnia and Herzegovina			
Bangladesh Bahamas Bosnia and Herzegov- ina	1972; 1993		
Bangladesh Bahamas Bosnia and Herzegov- ina		1993	1993
Bahamas Bosnia and Herzegov- ina	1970; 1971	1991	1991
Bosnia and Herzegov- ina	2019	2019	2019
ina	1992; 1993; 1994; 1995	1992; 1993; 1995	1992; 1993; 1994; 1995
	1552, 1550, 155 1, 1550	1332, 1330, 1330	13,2, 13,00, 13, 1, 1,3,0
Longo	2019	2019	2019
Dominica	1979	2019	2019
Guatemala	1976; 1982	2005	
Honduras	1974; 1998	1998	1998
Croatia	1991	1991; 1995	1991; 1995
Haiti	2010	2004; 2010; 2021	2010
Indonesia	1965; 2004	2004	2004
Japan	2011	1995; 2011	2011
Kuwait	1990	1990	1990; 1991
Libya	2011	2011	
Sri Lanka	1989; 2004; 2009	2004; 2009	2004
Maldives	2004	2004	2004
Myanmar	2008	2008	2008; 2021
Nicaragua	1972; 1998	1998	1990; 1998
Peru	1970		
State of Palestine	2014	2014	1990; 1995; 2014; 2018; 2021
Rwanda	1994	1994	1994
Sudan	1983; 1984; 1985	2008	2008
Solomon Islands	1975	2007	
El Salvador	1980	1998; 2001; 2009	1990
Sao Tome and Principe	1986		
Swaziland	1983		
Syria	1981; 1982; 2011; 2012; 2013; 2014; 2015; 2016; 2017; 2018; 2019; 2020; 2021	2011; 2012; 2013; 2014; 2015; 2016; 2017; 2018; 2019; 2020; 2021	2011; 2012; 2013; 2014; 2015 2016; 2017; 2018; 2019; 2020 2021
Samoa	1964; 2009	2009	2009
Brazil	2016	2009	2009
Guinea	2014; 2015		
	!	2002, 2014, 2015	1000, 2002, 2015
Liberia	2014; 2015	2003; 2014; 2015	1990; 2003; 2015
Venezuela (Bolivarian Republic of)	2015; 2016; 2017; 2018; 2019; 2020; 2021	2017; 2018; 2019; 2020; 2021	2017; 2018; 2019; 2020; 2021
Sierra Leone	2014; 2015	1000	1995
Afghanistan		1998	
Angola		1990; 1992	
Albania		1997	1997
Azerbaijan		1992	2008; 2012; 2020
Bhutan		2000	
Botswana		2006	
Chile		2010	
China		2008	
Cape Verde		1995	1995
Algeria		2003	
Ecuador		2016	
Fiji		2016	
Georgia		1991	1992; 1993; 2008
Guinea-Bissau		1997	1997; 1998; 1999
Iran (Islamic Republic of)		1990; 2003	1990; 2003
Nepal		2015	2002; 2015
		2011	, ,
New Zealand Oman		2007	

Table 12 – continued from previous page

Country		Age Group	
	0–4	5–14	15–24
Philippines		1991; 2013	
Papua New Guinea		1998	1998
Thailand		2004	
Tajikistan		1992; 1996	2000; 2010; 2011
Turkey		1999	1999; 2016
Central African Repub-			2017; 2021
lic			
Democratic Republic			1996
of the Congo			
Ethiopia			1990; 1999
Iraq			2013; 2019
Lebanon			1990; 2006; 2017
Republic of Moldova			1992
Macedonia			2001
Russian Federation			1995
Chad			1990
Trinidad and Tobago			2018
Ukraine			2014

Table 13: Estimates and 90% uncertainty intervals for sex ratios for IMR in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific IMR in 2021, and ratios of estimated to expected female IMR and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

	1000	Sex ratio IMI			IR in 2021 (per 1,000)		imated/Expected	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World¶	1.13	1.17	0.04	30.6	26.1	1.04	1.03	-0.01
	[1.11; 1.15] 1.08	[1.14; 1.19] 1.09	[0.01; 0.07]† 0.01	[28.8; 32.8] 32.0	[24.6; 28.0] 29.4	[1.03; 1.06]* 1.09	[1.01; 1.05]* 1.13	[-0.04; 0.01] 0.04
South Asia¶§	[1.05; 1.11]	[1.04; 1.14]	[-0.05; 0.06]	[29.4; 35.0]	[27.1; 32.1]	[1.06; 1.11]*	[1.08; 1.18]*	[-0.02; 0.10]
Europe and Central Asia	1.24 [1.22; 1.27]	1.25 [1.22; 1.28]	0.00 [-0.03; 0.04]	7.2 [6.8; 8.0]	5.8 [5.5; 6.4]	0.98 [0.96; 1.00]	0.98 [0.95; 1.00]	0.00 [-0.03; 0.03]
Middle East and North Africa¶	1.12	1.18	0.06	19.6	16.5	1.08	1.04	-0.04
Sub-Saharan Africa	[1.10; 1.14] 1.17	[1.14; 1.23] 1.22	[0.02; 0.12]† 0.05	[16.2; 25.4] 54.7	[13.7; 21.4] 44.9	[1.06; 1.11]* 0.99	[0.99; 1.09] 0.99	[-0.09; 0.01] 0.00
	[1.15; 1.18] 1.22	[1.19; 1.25] 1.24	[0.02; 0.09]†	[50.6; 62.2] 15.0	[41.3; 51.1] 12.1	[0.98; 1.01] 0.99	[0.96; 1.02] 1.00	[-0.03; 0.03] 0.00
Latin America and Caribbean	[1.18; 1.26]	[1.19; 1.28]	[-0.04; 0.06]	[14.0; 16.4]	[11.3; 13.3]	[0.96; 1.03]	[0.96; 1.03]	[-0.04; 0.04]
East Asia and Pacific	1.15 [1.10; 1.21]	1.21 [1.16; 1.25]	0.05	12.9 [11.5; 14.2]	10.7 [9.5; 11.8]	1.05 [1.00; 1.11]	1.01 [0.97; 1.05]	-0.04 [-0.11; 0.02]
North America	1.26 [1.24; 1.27]	1.19 [1.15; 1.24]	-0.06 [-0.11; -0.01]†	5.7 [5.4; 6.0]	4.8 [4.5; 5.1]	0.98 [0.97; 0.99]*	1.00 [0.96; 1.04]	0.02 [-0.02; 0.06]
Afghanistan	1.10	1.16	0.06	46.5	40.2	1.05	1.06	0.01
	[1.03; 1.17] 1.33	[1.06; 1.26] 1.22	[-0.05; 0.18] -0.11	[35.4; 59.8] 9.2	[30.5; 51.6] 7.6	[0.99; 1.12] 0.92	[0.97; 1.15] 1.00	[-0.10; 0.12] 0.08
Albania	[1.23; 1.44]	[1.14; 1.31]	[-0.24; 0.02]	[8.5; 10.1]	[6.9; 8.3]	[0.85; 1.00]	[0.94; 1.07]	[-0.02; 0.17]
Algeria	1.18 [1.13; 1.23]	1.18 [1.10; 1.26]	0.00 [-0.10; 0.10]	20.7 [18.2; 23.7]	17.5 [15.4; 20.1]	1.04 [0.99; 1.08]	1.06 [0.98; 1.14]	0.02 [-0.07; 0.11]
Andorra	1.30 [1.16; 1.48]	1.25 [1.12; 1.42]	-0.05 [-0.20; 0.10]	2.9 [0.8; 11.0]	2.3 [0.6; 8.8]	0.94 [0.82; 1.06]	0.96 [0.83; 1.07]	0.02 [-0.10; 0.13]
Angola	1.15	1.25	0.10	52.2	41.7	0.99	0.97	-0.02
Anguilla¶	[1.07; 1.25] 1.07	[1.13; 1.37] 0.98	[-0.04; 0.23] -0.09	[25.7; 94.4] 3.9	[20.5; 75.9] 3.9	[0.92; 1.07] 1.15	[0.88; 1.08] 1.21	[-0.13; 0.10] 0.06
•	[1.00; 1.15] 1.18	[0.89; 1.07] 1.16	[-0.19; 0.01] -0.02	[1.8; 8.1] 5.5	[1.9; 8.3] 4.8	[1.07; 1.24]* 1.04	[1.11; 1.34]* 1.03	[-0.06; 0.18] -0.01
Antigua and Barbuda	[1.07; 1.31]	[1.04; 1.30]	[-0.16; 0.11]	[3.6; 8.6]	[3.1; 7.4]	[0.95; 1.15]	[0.92; 1.15]	[-0.13; 0.11]
Argentina	1.25 [1.23; 1.27]	1.31 [1.26; 1.36]	0.06 [0.00; 0.11]†	6.9 [6.6; 7.3]	5.3 [5.0; 5.6]	0.99 [0.98; 1.01]	0.92 [0.89; 0.96]*	-0.07 [-0.11; -0.03]†
Armenia	1.24 [1.14; 1.34]	1.23 [1.10; 1.36]	-0.01 [-0.15; 0.12]	10.5 [8.2; 13.2]	8.6 [6.7; 10.8]	0.99 [0.91; 1.08]	1.01 [0.90; 1.12]	0.02 [-0.09; 0.13]
Australia	1.28	1.19	-0.08	3.4	2.9	0.96	0.99	0.04
	[1.24; 1.32] 1.26	[1.13; 1.26] 1.19	[-0.15; -0.01]† -0.06	[3.2; 3.7] 3.2	[2.7; 3.1]	[0.93; 0.99]*	[0.94; 1.05] 0.99	[-0.02; 0.10] 0.02
Austria	[1.21; 1.31] 1.17	[1.11; 1.28] 1.22	[-0.16; 0.04] 0.05	[2.9; 3.6] 18.2	[2.4; 3.0] 14.9	[0.93; 1.01] 1.01	[0.93; 1.07] 1.02	[-0.05; 0.10] 0.01
Azerbaijan	[1.09; 1.26]	[1.10; 1.35]	[-0.08; 0.19]	[10.8; 30.5]	[8.8; 25.2]	[0.94; 1.09]	[0.92; 1.13]	[-0.10; 0.12]
Bahamas¶	1.16 [1.09; 1.24]	1.17 [1.06; 1.27]	0.00 [-0.11; 0.12]	12.3 [10.5; 14.3]	10.5 [8.9; 12.3]	1.07 [1.01; 1.14]*	1.06 [0.97; 1.16]	-0.02 [-0.12; 0.10]
Bahrain¶	1.04 [0.99; 1.10]	1.09	0.05 [-0.05; 0.15]	6.2	5.6	1.20	1.09	-0.10
Bangladesh§	1.16	[1.01; 1.18] 1.16	-0.01	[5.3; 7.3] 24.5	[4.8; 6.7] 21.2	[1.14; 1.26]* 1.00	[1.01; 1.19]* 1.07	[-0.20; 0.00] 0.07
-	[1.12; 1.21]	[1.08; 1.24] 1.18	[-0.09; 0.09] -0.02	[22.2; 27.0] 12.0	[19.1; 23.4] 10.1	[0.96; 1.04] 1.03	[1.00; 1.15]* 1.05	[-0.01; 0.16] 0.01
Barbados	[1.12; 1.30]	[1.07; 1.30]	[-0.15; 0.10]	[7.9; 18.4]	[6.6; 15.6]	[0.96; 1.11]	[0.95; 1.15]	[-0.10; 0.13]
Belarus¶	1.37 [1.32; 1.41]	1.26 [1.17; 1.35]	-0.11 [-0.20; -0.01]†	2.3 [1.9; 2.6]	1.8 [1.5; 2.1]	0.91 [0.88; 0.94]*	0.94 [0.88; 1.01]	0.04 [-0.04; 0.11]
Belgium	1.34 [1.29; 1.39]	1.27 [1.19; 1.35]	-0.07 [-0.16; 0.03]	3.8 [3.4; 4.2]	3.0 [2.7; 3.3]	0.92 [0.88; 0.95]*	0.93 [0.88; 1.00]*	0.02 [-0.05; 0.09]
Belize	1.24	1.20	-0.04	10.5	8.7	1.00	1.02	0.02
Benin	[1.14; 1.36] 1.15	[1.11; 1.31] 1.23	[-0.18; 0.10] 0.08	[8.4; 12.9] 60.7	[7.0; 10.8] 49.4	[0.91; 1.09] 1.01	[0.94; 1.11] 0.98	[-0.09; 0.14] -0.03
	[1.09; 1.20] 1.12	[1.13; 1.33] 1.20	[-0.03; 0.20] 0.09	[50.6; 73.2] 24.5	[41.1; 59.7] 20.3	[0.96; 1.07] 1.05	[0.90; 1.07] 1.03	[-0.12; 0.07] -0.03
Bhutan	[1.02; 1.22]	[1.09; 1.34]	[-0.04; 0.23]	[14.8; 38.9]	[12.2; 32.5]	[0.96; 1.15]	[0.93; 1.14]	[-0.15; 0.10]
Bolivia (Plurinational State of)	1.17 [1.12; 1.23]	1.23 [1.12; 1.36]	0.06 [-0.06; 0.19]	22.2 [15.6; 31.1]	18.1 [12.7; 25.5]	1.00 [0.96; 1.05]	1.01 [0.92; 1.11]	0.01 [-0.09; 0.11]
Bosnia and Herzegovina	1.24 [1.19; 1.29]	1.21 [1.12; 1.32]	-0.03 [-0.13; 0.08]	5.3 [4.1; 6.8]	4.4 [3.4; 5.6]	1.00 [0.96; 1.05]	0.98 [0.91; 1.06]	-0.02 [-0.11; 0.07]
Botswana	1.25	1.23	-0.02	31.1	25.4	0.99	1.00	0.02
Brazil	[1.14; 1.37] 1.23	[1.11; 1.36] 1.26	[-0.17; 0.12] 0.03	[9.8; 89.2] 14.3	[7.9; 72.6] 11.4	[0.90; 1.08] 0.98	[0.90; 1.12] 0.99	[-0.10; 0.14] 0.00
	[1.14; 1.33] 1.26	[1.13; 1.40] 1.18	[-0.10; 0.17] -0.07	[12.1; 16.9] 10.7	[9.6; 13.4] 9.1	[0.91; 1.06] 0.99	[0.89; 1.10] 1.03	[-0.10; 0.11] 0.04
British Virgin Islands	[1.18; 1.33]	[1.08; 1.30]	[-0.20; 0.06]	[4.9; 23.5]	[4.1; 19.7]	[0.94; 1.05]	[0.94; 1.14]	[-0.06; 0.16]
Brunei	1.18 [1.10; 1.27]	1.20 [1.09; 1.31]	0.02 [-0.10; 0.14]	10.5 [8.7; 12.6]	8.7 [7.3; 10.6]	1.04 [0.97; 1.12]	1.03 [0.94; 1.12]	-0.01 [-0.12; 0.09]
Bulgaria	1.29 [1.25; 1.34]	1.18 [1.12; 1.26]	-0.11 [-0.19; -0.03]†	5.7 [5.3; 6.1]	4.8 [4.5; 5.2]	0.96 [0.93; 0.99]*	1.01 [0.95; 1.07]	0.04 [-0.02; 0.11]
Burkina Faso	1.17	1.20	0.04	56.4	46.8	1.00	1.01	0.01
	[1.11; 1.23] 1.19	[1.10; 1.32] 1.25	[-0.08; 0.16] 0.06	[42.9; 74.6] 41.7	[35.7; 62.1] 33.4	[0.95; 1.05] 0.97	[0.92; 1.10] 0.98	[-0.09; 0.12] 0.01
Burundi	[1.11; 1.28]	[1.14; 1.37] 1.28	[-0.07; 0.19] 0.05	[27.9; 62.2] 23.8	[22.2; 50.0] 18.6	[0.90; 1.05]	[0.89; 1.08] 0.97	[-0.10; 0.12] 0.01
Cambodia	[1.16; 1.28]	[1.16; 1.39]	[-0.08; 0.18]	[11.6; 47.7]	[9.2; 37.3]	[0.91; 1.01]	[0.89; 1.07]	[-0.09; 0.12]
	1.21	1.24	0.03	51.8	41.9	0.97	0.98	0.01

ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on pex page

		Sex ratio IMF		Sex-specific IN	ous page IR in 2021 (per 1,000)	Es	timated/Expected	female IMR
	1990	2021	Change 1990-2021	Male	Female	1990	2021	Change 1990–2021
Canada	1.25	1.15	-0.09	4.7	4.1	0.97	1.03	0.06
	[1.21; 1.29]	[1.10; 1.21]	[-0.16; -0.03]†	[4.5; 5.0]	[3.9; 4.3]	[0.94; 1.00]	[0.98; 1.08]	[0.00; 0.11]†
Cape Verde	1.19	1.21	0.02	12.8	10.6	1.03	1.02	-0.01 [-0.10; 0.09]
Central African Republic	[1.13; 1.25]	[1.11; 1.32]	[-0.09; 0.14]	[9.7; 16.6] 82.6	[8.0; 13.7] 67.9	0.97	0.94; 1.11]	0.00
Chad	[1.12; 1.26]	[1.12; 1.33]	[-0.09; 0.15]	[67.9; 99.4]	[55.7; 82.1]	[0.91; 1.03]	[0.89; 1.06]	[-0.09; 0.11]
	1.16	1.22	0.06	72.3	59.4	1.00	0.98	-0.02
Chile	[1.10; 1.22] 1.21	[1.11; 1.33] 1.18	[-0.06; 0.18] -0.03	[55.4; 94.4] 6.1	[45.4; 77.6] 5.1	[0.94; 1.06] 1.03	[0.90; 1.08]	[-0.12; 0.09] -0.01
	[1.18; 1.24]	[1.11; 1.27] 1.12	[-0.11; 0.06] 0.01	[5.1; 7.2] 5.3	[4.3; 6.1] 4.8	[1.00; 1.05]* 1.10	[0.95; 1.08] 1.06	[-0.08; 0.06] -0.04
China¶	[1.02; 1.20]	[1.02; 1.23]	[-0.11; 0.13]	[4.8; 6.0]	[4.2; 5.3]	[1.02; 1.20]*	[0.97; 1.17]	[-0.16; 0.08]
	1.27	1.25	-0.03	12.2	9.8	0.97	0.99	0.02
Colombia	[1.20; 1.35]	[1.13; 1.37]	[-0.16; 0.11]	[8.0; 18.5] 41.7	[6.4; 14.9]	[0.92; 1.03] 1.04	[0.90; 1.09]	[-0.08; 0.12] 0.05
Comoros	1.14 [1.04; 1.24]	1.13 [1.02; 1.26]	0.00 [-0.13; 0.12]	[32.1; 53.9]	36.7 [28.2; 47.9]	[0.95; 1.13]	1.08 [0.98; 1.21]	[-0.07; 0.17]
Congo	1.21	1.24	0.02	35.3	28.6	0.99	1.00	0.01
	[1.12; 1.31]	[1.12; 1.36]	[-0.11; 0.16]	[21.3; 57.3]	[17.3; 46.4]	[0.92; 1.08]	[0.90; 1.10]	[-0.11; 0.12]
Democratic Republic of the Congo	1.12	1.21	0.09	68.2	56.2	1.03	0.99	-0.04
	[1.05; 1.20]	[1.10; 1.33]	[-0.04; 0.22]	[43.4; 101.8]	[36.0; 83.8]	[0.96; 1.10]	[0.89; 1.09]	[-0.15; 0.08]
Cook Islands	1.36	1.27	-0.09	6.8	5.4	0.92	0.95	0.03
	[1.23; 1.50]	[1.13; 1.42]	[-0.24; 0.07]	[3.7; 12.8]	[3.0; 10.1]	[0.83; 1.02]	[0.85; 1.06]	[-0.08; 0.14]
Costa Rica	1.28	1.12	-0.16 [-0.24; -0.08]†	6.6 [6.1; 7.1]	5.9 [5.4; 6.4]	0.97 [0.94; 1.01]	1.07 [1.01; 1.14]*	0.10 [0.03; 0.18]†
Cote d'Ivoire	1.20	1.29	0.08	62.6	48.7	0.97 [0.91; 1.02]	0.94	-0.03
Croatia	1.14; 1.27]	[1.18; 1.40]	-0.11	[48.7; 80.6]	[37.8; 63.3]	0.95	0.99	[-0.12; 0.07] 0.04
Cuba	[1.25; 1.36]	[1.11; 1.29] 1.24	[-0.21; 0.00]† -0.10	[3.9; 4.7] 4.4	[3.2; 3.9] 3.6	[0.91; 0.99]* 0.92	[0.92; 1.06] 0.96	[-0.04; 0.12] 0.03
	[1.30; 1.38]	[1.17; 1.32]	[-0.18; -0.01]†	[3.6; 5.6]	[2.9; 4.5]	[0.89; 0.95]*	[0.90; 1.02]	[-0.03; 0.10]
	1.22	1.17	-0.05	2.5	2.1	1.01	1.01	0.00
Cyprus	[1.14; 1.30]	[1.07; 1.29] 1.29	[-0.17; 0.08] -0.02	[1.8; 3.5] 2.5	[1.6; 3.0] 1.9	[0.94; 1.08] 0.94	[0.92; 1.11]	[-0.10; 0.11] -0.03
Czech Republic	[1.24; 1.39]	[1.20; 1.38]	[-0.13; 0.10]	[2.3; 2.7]	[1.8; 2.1]	[0.89; 1.00]*	[0.86; 0.98]*	[-0.10; 0.05]
	1.29	1.19	-0.10	3.4	2.8	0.94	1.00	0.06
Denmark	[1.24; 1.36]	[1.11; 1.27]	[-0.20; -0.01]†	[3.1; 3.7]	[2.6; 3.1]	[0.90; 0.98]*	[0.93; 1.07]	[-0.02; 0.14]
Djibouti	1.17	1.20	0.03	49.8	41.5	1.01	1.01	0.01
	[1.06; 1.28]	[1.08; 1.33]	[-0.10; 0.17]	[28.6; 82.9]	[23.8; 69.6]	[0.91; 1.10]	[0.91; 1.13]	[-0.11; 0.13]
Dominica	1.15	1.16	0.01	34.3	29.6	1.08	1.06	-0.02
	[1.04; 1.25]	[1.04; 1.29]	[-0.11; 0.15]	[28.9; 40.6]	[24.9; 35.3]	[0.99; 1.19]	[0.96; 1.19]	[-0.14; 0.11]
Dominican Republic	1.19	1.20	0.01	29.6	24.8	1.03	1.04	0.01
	[1.12; 1.25]	[1.09; 1.31]	[-0.11; 0.14]	[22.3; 38.7]	[18.7; 32.4]	[0.97; 1.09]	[0.95; 1.14]	[-0.10; 0.12]
Ecuador	1.29	1.26	-0.03	11.9	9.4	0.95	0.98	0.03
	[1.19; 1.41]	[1.15; 1.39]	[-0.17; 0.11]	[10.4; 13.6]	[8.2; 10.8]	[0.87; 1.03]	[0.89; 1.07]	[-0.07; 0.14]
Egypt¶	1.06	1.16	0.10	17.4	15.0	1.14	1.08	-0.06
	[1.01; 1.10]	[1.05; 1.27]	[-0.02; 0.22]	[11.3; 26.2]	[9.8; 22.7]	[1.09; 1.19]*	[0.98; 1.18]	[-0.17; 0.05]
El Salvador	1.20 [1.10; 1.31]	1.22 [1.09; 1.35]	0.02	11.7	9.6 [5.7; 16.3]	1.02 [0.93; 1.11]	1.01	-0.01 [-0.12; 0.11]
Equatorial Guinea	1.16	1.22	0.06	62.6	51.4	0.99	0.99	0.00
Eritrea¶	[1.04; 1.30]	[1.09; 1.36]	[-0.08; 0.20] 0.00	[37.0; 104.7]	[30.3; 86.0]	0.88; 1.11]	[0.88; 1.11]	[-0.13; 0.12] 0.05
Estonia	[1.24; 1.40]	[1.20; 1.46]	[-0.14; 0.15]	[19.0; 53.3]	[14.2; 40.4]	[0.83; 0.94]*	[0.85; 1.03]	[-0.05; 0.16]
	1.31	1.22	-0.09	1.7	1.4	0.95	0.97	0.02
	[1.24; 1.38]	[1.11; 1.34]	[-0.21; 0.04]	[1.4; 2.1]	[1.1; 1.7]	[0.90; 1.00]	[0.88; 1.07]	[-0.08; 0.12]
	1.22	1.34	0.12	39.1	29.1	0.94	0.92	-0.02
Ethiopia¶	[1.16; 1.29]	[1.22; 1.47]	[-0.01; 0.26]	[31.7; 48.2]	[23.5; 36.1]	[0.89; 0.99]*	[0.84; 1.01]	[-0.11; 0.08]
	1.32	1.32	0.00	23.8	18.0	0.93	0.94	0.01
Federated States of Micronesia	[1.19; 1.47]	[1.19; 1.48]	[-0.15; 0.16]	[10.9; 48.4]	[8.2; 36.3]	[0.83; 1.03]	[0.83; 1.04]	[-0.10; 0.12]
	1.16	1.18	0.03	25.2	21.3	1.08	1.05	-0.03
Fiji	[1.07; 1.25]	[1.10; 1.28]	[-0.09; 0.15]	[22.6; 27.9]	[19.0; 23.7]	[1.00; 1.16]	[0.98; 1.13]	[-0.14; 0.09]
Finland	1.22	1.18	-0.04	1.9	1.6	0.98	1.00	0.02
	[1.17; 1.28]	[1.10; 1.28]	[-0.14; 0.06]	[1.7; 2.1]	[1.5; 1.8]	[0.93; 1.02]	[0.93; 1.08]	[-0.06; 0.11]
France	1.35	1.23	-0.13	3.8	3.1	0.90	0.97	0.07
	[1.32; 1.39]	[1.16; 1.29]	[-0.20; -0.06]†	[3.5; 4.1]	[2.8; 3.4]	[0.88; 0.92]*	[0.92; 1.02]	[0.01; 0.12]†
Gabon	1.27	1.27	0.00	32.8	25.7	0.94	0.97	0.03
	[1.16; 1.39]	[1.15; 1.42]	[-0.14; 0.15]	[20.4; 50.4]	[16.0; 39.5]	[0.86; 1.03]	[0.87; 1.08]	[-0.08; 0.14]
The Gambia	1.23	1.29	0.05	38.1	29.6	0.96	0.96	0.00
	[1.13; 1.35]	[1.17; 1.41]	[-0.09; 0.19]	[31.6; 45.5]	[24.5; 35.6]	[0.87; 1.05]	[0.87; 1.06]	[-0.11; 0.11]
Georgia	1.29	1.26	-0.03	9.4	7.4	0.95	0.97	0.02
	[1.17; 1.42]	[1.13; 1.40]	[-0.17; 0.12]	[8.3; 10.6]	[6.5; 8.5]	[0.86; 1.04]	[0.87; 1.08]	[-0.09; 0.13]
Germany	1.31 [1.28; 1.34]	1.17	-0.14 [-0.19; -0.09]†	3.3 [3.1; 3.4]	2.8 [2.7; 2.9]	0.92 [0.90; 0.95]*	1.01	0.09
Ghana	1.19	1.25	0.06	36.1	28.8	0.99	0.98	-0.01
Greece	[1.13; 1.26]	[1.16; 1.36]	[-0.05; 0.19]	[28.6; 45.7] 3.5	[22.7; 36.4]	[0.94; 1.05]	[0.90; 1.07]	[-0.10; 0.09] -0.04
Grenada¶	[1.13; 1.22]	[1.10; 1.26]	[-0.08; 0.09]	[3.1; 4.0]	[2.6; 3.4]	[1.01; 1.08]*	[0.94; 1.07]	[-0.11; 0.04]
	1.13	1.16	0.03	15.5	13.3	1.10	1.06	-0.04
-	[1.04; 1.23]	[1.05; 1.28]	[-0.09; 0.16]	[12.7; 19.0]	[10.8; 16.3]	[1.01; 1.20]*	[0.97; 1.18]	[-0.15; 0.08]
	1.24	1.25	0.01	21.6	17.3	0.97	1.00	0.03
Guatemala	[1.18; 1.31]	[1.15; 1.37]	[-0.11; 0.13]	[15.7; 29.2]	[12.5; 23.4]	[0.92; 1.02]	[0.91; 1.09]	[-0.07; 0.13]
	1.14	1.25	0.11	70.8	56.5	1.00	0.96	-0.04
Guinea	[1.09; 1.20]	[1.15; 1.37] 1.25	[-0.01; 0.23] 0.09	[59.1; 86.0] 55.3	[47.0; 68.9] 44.2	[0.95; 1.05]	[0.87; 1.04]	[-0.14; 0.06] -0.01
Guinea-Bissau	[1.08; 1.25]	[1.13; 1.37]	[-0.05; 0.22]	[35.3; 85.5]	[28.3; 68.7]	[0.91; 1.06]	[0.88; 1.07]	[-0.12; 0.10]
Guyana¶	1.31	1.29	-0.02	26.0	20.2	0.93	0.96	0.04
	[1.22; 1.41]	[1.16; 1.43]	[-0.16; 0.12]	[15.4; 42.9]	[12.0; 33.4]	[0.86; 1.00]*	[0.87; 1.06]	[-0.07; 0.15]
Haiti	1.19	1.23	0.05	50.1	40.6	0.98	0.99	0.01
	[1.12; 1.26]	[1.12; 1.35]	[-0.08; 0.18]	[36.5; 68.8]	[29.5; 55.8]	[0.92; 1.04]	[0.90; 1.09]	[-0.10; 0.12]
Honduras	1.25	1.26	0.00	15.8	12.6	0.97	0.99	0.01
	[1.17; 1.34]	[1.15; 1.38]	[-0.12; 0.14]	[12.0; 21.2]	[9.5; 16.8]	[0.91; 1.05]	[0.90; 1.08]	[-0.09; 0.12]
Hungary	1.25	1.20 [1.13; 1.28]	-0.04 [-0.12; 0.05]	3.6 [3.2; 4.1]	3.0 [2.6; 3.4]	1.00 [0.97; 1.03]	0.98	-0.01 [-0.08; 0.06]

¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

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		Sex ratio IMB		Sex-specific IM	IR in 2021 (per 1,000)	Es	timated/Expected	female IMR
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
Iceland	1.19	1.19	0.00	2.3	1.9	1.00	1.00	0.00
India¶§	[1.08; 1.30]	[1.07; 1.32]	[-0.13; 0.14]	[1.7; 2.9]	[1.5; 2.5]	[0.92; 1.10]	[0.90; 1.11]	[-0.12; 0.11]
	1.06	1.01	-0.04	25.7	25.3	1.12	1.23	0.11
Indonesia	[1.02; 1.09]	[0.95; 1.09]	[-0.12; 0.04]	[23.2; 28.3]	[22.9; 27.9]	[1.08; 1.15]*	[1.14; 1.31]*	[0.02; 0.20]†
	1.23	1.24	0.01	20.9	16.8	0.97	1.00	0.03
	[1.18; 1.29] 1.06	[1.14; 1.35] 1.12	[-0.11; 0.13] 0.06	[16.5; 26.4] 11.5	[13.3; 21.3] 10.3	[0.93; 1.02] 1.16	[0.92; 1.09]	[-0.07; 0.13] -0.06
Iran (Islamic Republic of)¶	[1.00; 1.12]	[1.01; 1.23]	[-0.05; 0.18]	[6.4; 20.0]	[5.7; 17.9]	[1.09; 1.23]*	[1.00; 1.22]	[-0.18; 0.06]
	1.18	1.22	0.04	22.7	18.7	1.04	1.02	-0.02
Iraq	[1.11; 1.25]	[1.11; 1.34] 1.18	[-0.08; 0.17] -0.06	[16.8; 30.0] 3.0	[13.8; 24.6] 2.5	[0.97; 1.11]	[0.93; 1.12] 1.00	[-0.13; 0.09] 0.02
Ireland	[1.19; 1.31]	[1.10; 1.28]	[-0.17; 0.04]	[2.5; 3.4]	[2.2; 2.9]	[0.93; 1.02]	[0.93; 1.08]	[-0.06; 0.11]
Israel	1.14	1.19	0.05	2.9	2.5	1.08	1.00	-0.08
	[1.10; 1.18]	[1.12; 1.26]	[-0.03; 0.13]	[2.8; 3.1]	[2.3; 2.6]	[1.04; 1.12]*	[0.94; 1.05]	[-0.15; -0.01]†
Italy	1.23	1.17	-0.06	2.4	2.0	0.99	1.01	0.02
	[1.20; 1.26]	[1.11; 1.23]	[-0.12; 0.01]	[2.2; 2.6]	[1.9; 2.2]	[0.97; 1.02]	[0.96; 1.06]	[-0.04; 0.08]
Jamaica	1.34	1.30	-0.04	12.1	9.3	0.93	0.95	0.02
	[1.22; 1.48]	[1.17; 1.45]	[-0.19; 0.11]	[6.1; 23.1]	[4.7; 17.9]	[0.84; 1.02]	[0.85; 1.05]	[-0.09; 0.13]
Japan	1.17	1.10	-0.06	1.8	1.6	1.02	1.07	0.06
	[1.14; 1.20]	[1.06; 1.15]	[-0.12; -0.01]†	[1.8; 1.9]	[1.6; 1.7]	[0.99; 1.04]	[1.03; 1.12]*	[0.01; 0.11]†
Jordan¶	1.14	1.24	0.09	13.8	11.2	1.09	1.00	-0.08
	[1.07; 1.22]	[1.12; 1.36]	[-0.03; 0.22]	[9.6; 19.9]	[7.8; 16.1]	[1.02; 1.16]*	[0.91; 1.11]	[-0.19; 0.03]
Kazakhstan¶	1.32 [1.23; 1.43]	1.30 [1.18; 1.45]	-0.02 [-0.16; 0.13]	10.3	7.9 [7.4; 8.5]	0.92 [0.85; 1.00]*	0.94 [0.85; 1.04]	0.02 [-0.08; 0.13]
Kenya	1.17	1.22	0.05	30.7	25.1	1.02	1.01	-0.01
Kiribati	[1.11; 1.23]	[1.13; 1.33]	[-0.06; 0.17] 0.03	[25.5; 36.8] 42.1	[20.7; 30.1]	[0.97; 1.08] 1.00	[0.93; 1.10]	[-0.11; 0.09] 0.00
Democratic People's Republic of	[1.10; 1.30]	[1.11; 1.36]	[-0.10; 0.17]	[23.7; 72.0]	[19.3; 58.5]	[0.91; 1.09]	[0.89; 1.11]	[-0.11; 0.12]
	1.24	1.23	-0.01	11.2	9.1	1.00	1.00	0.00
Korea Parublic of Varia	[1.10; 1.39]	[1.09; 1.38]	[-0.15; 0.14]	[8.7; 14.3]	[7.1; 11.7]	[0.89; 1.13]	[0.89; 1.12]	[-0.12; 0.12]
	1.18	1.21	0.03	2.7	2.2	1.05	0.98	-0.07
Republic of Korea	[1.09; 1.27]	[1.15; 1.27]	[-0.08; 0.13]	[2.6; 2.8]	[2.1; 2.4]	[0.98; 1.14]	[0.93; 1.03]	[-0.17; 0.02]
	1.15	1.18	0.03	9.8	8.3	1.02	1.04	0.02
Kosovo	[1.05; 1.27]	[1.07; 1.29]	[-0.11; 0.15]	[8.5; 11.2]	[7.2; 9.6]	[0.92; 1.13]	[0.95; 1.14]	[-0.09; 0.14]
	1.16	1.21	0.05	8.2	6.7	1.06	1.00	-0.06
Kuwait	[1.11; 1.21]	[1.13; 1.29]	[-0.04; 0.14]	[7.3; 9.1]	[6.0; 7.5]	[1.01; 1.11]*	[0.94; 1.07]	[-0.13; 0.03]
Kyrgyzstan	1.22	1.25	0.03	17.3	13.8	0.99	0.99	0.00
	[1.13; 1.33]	[1.13; 1.39]	[-0.11; 0.17]	[16.3; 18.4]	[12.8; 14.8]	[0.91; 1.08]	[0.90; 1.10]	[-0.11; 0.12]
Lao People's Democratic Republic	1.19	1.27	0.08	38.1	30.0	0.98	0.97	0.00
	[1.11; 1.27]	[1.15; 1.39]	[-0.05; 0.22]	[27.1; 52.2]	[21.4; 41.3]	[0.91; 1.05]	[0.88; 1.07]	[-0.11; 0.10]
Latvia	1.29	1.16	-0.13	3.4	2.9	0.96	1.02	0.06
	[1.23; 1.35]	[1.07; 1.26]	[-0.24; -0.01]†	[2.9; 4.0]	[2.5; 3.4]	[0.92; 1.01]	[0.94; 1.11]	[-0.03; 0.15]
Lebanon¶	1.07	1.11	0.04	7.4	6.7	1.16	1.08	-0.07
	[0.99; 1.16]	[0.99; 1.23]	[-0.08; 0.16]	[6.0; 9.2]	[5.4; 8.3]	[1.07; 1.25]*	[0.98; 1.22]	[-0.19; 0.05]
Lesotho	1.21	1.23	0.02	62.6	50.9	0.98	0.98	0.00
	[1.14; 1.29]	[1.12; 1.35]	[-0.11; 0.14]	[44.9; 89.1]	[36.3; 72.2]	[0.92; 1.05]	[0.89; 1.08]	[-0.11; 0.11]
Liberia	1.17 [1.11; 1.24]	1.21 [1.11; 1.32]	0.04 [-0.07; 0.17]	62.1 [47.6; 81.8]	51.1 [39.1; 67.7]	0.97 [0.92; 1.03]	0.99	0.02
Libya	1.22	1.23	0.02	10.2	8.2	1.01	0.99	-0.02
Lithuania	[1.13; 1.31] 1.25	[1.12; 1.37] 1.19	[-0.11; 0.16] -0.06	[5.8; 17.9]	[4.6; 14.5] 2.5	[0.94; 1.09] 0.99	[0.89; 1.10]	[-0.13; 0.09] 0.01
Luxembourg	[1.20; 1.30] 1.23	[1.10; 1.28] 1.20	[-0.16; 0.05] -0.03	[2.5; 3.4] 2.4	[2.1; 2.9]	[0.95; 1.03] 0.99	[0.92; 1.08] 0.99	[-0.08; 0.09] 0.00
	[1.13; 1.34]	[1.08; 1.33]	[-0.17; 0.10]	[1.9; 3.2]	[1.5; 2.7]	[0.91; 1.07]	[0.89; 1.10]	[-0.10; 0.12]
	1.13	1.10	-0.03	4.9	4.4	1.09	1.08	-0.02
Macedonia¶	[1.06; 1.20]	[1.03; 1.19]	[-0.12; 0.08]	[3.9; 6.2]	[3.5; 5.6]	[1.03; 1.16]*	[1.00; 1.16]*	[-0.12; 0.08]
	1.15	1.23	0.08	49.9	40.5	1.02	0.99	-0.03
Madagascar	[1.09; 1.21]	[1.13; 1.34]	[-0.03; 0.20]	[43.1; 58.6]	[35.0; 47.7]	[0.97; 1.07]	[0.90; 1.08]	[-0.12; 0.07]
	1.11	1.28	0.16	34.9	27.3	1.02	0.97	-0.06
Malawi	[1.07; 1.16]	[1.17; 1.39]	[0.05; 0.28]†	[23.3; 50.5] 7.0	[18.1; 39.6] 5.9	[0.98; 1.07]	[0.89; 1.05]	[-0.15; 0.04]
Malaysia	1.24 [1.12; 1.38]	1.20 [1.09; 1.31]	[-0.19; 0.10]	[6.3; 7.8]	[5.2; 6.6]	1.00 [0.90; 1.12]	1.01 [0.92; 1.11]	0.01 [-0.11; 0.12]
Maldives	1.21	1.19	-0.02	5.5	4.7	0.99	1.01	0.01
	[1.11; 1.32]	[1.08; 1.30]	[-0.15; 0.11]	[4.6; 6.6]	[3.9; 5.6]	[0.91; 1.09]	[0.92; 1.10]	[-0.09; 0.12]
Mali	1.17	1.18	0.02	66.7	56.3	0.98	1.02	0.03
	[1.12; 1.21]	[1.09; 1.29]	[-0.08; 0.12]	[56.5; 79.0]	[47.6; 66.9]	[0.95; 1.03]	[0.93; 1.10]	[-0.06; 0.13]
Malta	1.22	1.15	-0.06	5.4	4.7	1.01	1.03	0.02
	[1.12; 1.32]	[1.04; 1.27]	[-0.19; 0.08]	[4.5; 6.5]	[3.9; 5.7]	[0.93; 1.10]	[0.94; 1.14]	[-0.09; 0.13]
Marshall Islands	1.25	1.28	0.04	27.7	21.6	0.98	0.97	-0.02
	[1.12; 1.39]	[1.15; 1.43]	[-0.11; 0.18]	[16.8; 45.2]	[13.2; 35.3]	[0.88; 1.10]	[0.86; 1.08]	[-0.13; 0.10]
Mauritania	1.23 [1.15; 1.32]	1.24 [1.14; 1.35]	0.01 [-0.11; 0.14]	35.6 [28.8; 43.9]	28.7 [23.0; 35.5]	0.97 [0.90; 1.04]	0.99	0.03 [-0.07; 0.13]
Mauritius¶	1.33	1.24	-0.09	16.9	13.6 [11.4; 16.3]	0.94 [0.90; 0.98]*	1.00	0.06 [-0.02; 0.15]
Mexico	[1.27; 1.39]	[1.15; 1.33]	[-0.20; 0.02] 0.00	[14.1; 20.2] 12.5	10.2	1.01	[0.94; 1.08]	0.00
Republic of Moldova	[1.13; 1.31]	[1.15; 1.29]	[-0.11; 0.12]	[10.6; 14.6]	[8.7; 12.0]	[0.94; 1.10]	[0.96; 1.07]	[-0.10; 0.10]
	1.28	1.25	-0.03	13.5	10.8	0.97	0.99	0.02
•	[1.16; 1.42]	[1.12; 1.40]	[-0.17; 0.12]	[9.5; 19.4]	[7.6; 15.4]	[0.88; 1.07]	[0.88; 1.10]	[-0.09; 0.13]
	1.24	1.23	-0.01	1.1	0.9	0.95	0.96	0.01
Monaco	[1.16; 1.33] 1.40	[1.12; 1.34] 1.26	[-0.14; 0.12] -0.14	[0.7; 1.7] 14.1	[0.5; 1.4]	[0.89; 1.02] 0.84	[0.88; 1.05] 0.98	[-0.09; 0.11] 0.14
Mongolia¶	[1.30; 1.49]	[1.19; 1.33] 1.13	[-0.25; -0.02]† 0.01	[13.0; 15.4] 2.0	[10.2; 12.2] 1.8	[0.79; 0.91]* 1.11	[0.93; 1.04] 1.05	[0.06; 0.22]†
Montenegro¶	[1.05; 1.20]	[1.03; 1.24]	[-0.11; 0.13]	[1.6; 2.5]	[1.5; 2.2]	[1.04; 1.18]*	[0.96; 1.15]	[-0.17; 0.05]
Montserrat¶	0.90	0.96	0.06	4.4	4.6	1.38	1.26	-0.13
	[0.83; 0.97]	[0.83; 1.09]	[-0.05; 0.18]	[1.6; 12.0]	[1.7; 12.7]	[1.28; 1.50]*	[1.09; 1.45]*	[-0.27; 0.04]
Morocco	1.18	1.23	0.06	17.0	13.8	1.02	1.01	-0.01
	[1.11; 1.25]	[1.12; 1.36]	[-0.07; 0.19]	[11.7; 24.1]	[9.5; 19.4]	[0.96; 1.08]	[0.91; 1.11]	[-0.11; 0.10]
Mozambique	1.10	1.17	0.07	54.8	47.0	1.04	1.04	0.00
	[1.04; 1.15]	[1.07; 1.28]	[-0.04; 0.19]	[37.4; 81.3]	[31.9; 69.6]	[0.99; 1.09]	[0.95; 1.14]	[-0.11; 0.11]
Myanmar	1.23	1.24 [1.13; 1.37]	0.02 [-0.12; 0.16]	37.3 [24.8; 54.1]	30.0 [19.9; 43.4]	0.96 [0.89; 1.04]	0.99	0.03 [-0.08; 0.14]

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 13 - continued from previous page Sex ratio IMR Sex-specific IMR in 2021 (per 1,000) Estimated/Expected female IMR											
	1990	2021	Change	Male	Female	1990	2021	Change			
NT 71	1.19	1.23	1990-2021 0.04	32.3	26.3	1.02	1.00	1990–2021 -0.02			
Namibia	[1.11; 1.28]	[1.11; 1.36] 1.24	[-0.09; 0.18] 0.03	[18.0; 55.6] 25.6	[14.7; 45.2] 20.5	[0.95; 1.10] 1.00	[0.91; 1.11] 1.00	[-0.13; 0.10] 0.00			
Nauru	[1.08; 1.37]	[1.11; 1.40]	[-0.11; 0.18]	[13.3; 46.2]	[10.7; 37.2]	[0.89; 1.13]	[0.89; 1.12]	[-0.13; 0.12]			
Nepal	1.13 [1.07; 1.19]	1.21 [1.10; 1.31]	0.08 [-0.04; 0.20]	24.9 [19.4; 32.1]	20.6 [16.1; 26.5]	1.04 [0.98; 1.09]	1.03 [0.95; 1.13]	0.00 [-0.10; 0.11]			
Netherlands	1.31 [1.27; 1.36]	1.20 [1.14; 1.27]	-0.11 [-0.19; -0.03]†	3.8 [3.6; 4.0]	3.2 [3.0; 3.3]	0.92 [0.89; 0.96]*	0.99 [0.94; 1.04]	0.06 [0.00; 0.12]†			
New Zealand	1.27 [1.22; 1.33]	1.19 [1.10; 1.28]	-0.09 [-0.19; 0.02]	4.3 [3.9; 4.7]	3.6 [3.2; 4.0]	0.96 [0.92; 1.01]	1.00 [0.92; 1.08]	0.03 [-0.05; 0.12]			
Nicaragua	1.23	1.26	0.02	12.7	10.1	0.98	0.98	0.00			
Niger	[1.16; 1.30] 1.11	[1.14; 1.39] 1.17	[-0.10; 0.17] 0.06	[10.9; 14.6] 64.0	[8.6; 11.7] 54.8	[0.93; 1.05] 1.03	[0.89; 1.08]	[-0.10; 0.10] 0.00			
	[1.06; 1.16] 1.18	[1.07; 1.26] 1.20	[-0.05; 0.17] 0.01	[55.0; 75.2] 76.7	[47.0; 64.6] 64.1	[0.99; 1.08] 0.97	[0.95; 1.12] 0.99	[-0.10; 0.10] 0.03			
Nigeria	[1.13; 1.24] 1.24	[1.11; 1.29] 1.25	[-0.09; 0.12] 0.00	[58.7; 102.0] 22.6	[49.0; 85.6] 18.2	[0.92; 1.02] 1.00	[0.92; 1.08]	[-0.06; 0.12] -0.01			
Niue	[1.11; 1.40]	[1.11; 1.40]	[-0.15; 0.15] -0.06	[9.8; 49.5] 1.9	[7.8; 39.9] 1.6	[0.89; 1.12] 0.95	[0.88; 1.12] 0.98	[-0.13; 0.11] 0.02			
Norway	[1.21; 1.33]	[1.13; 1.31]	[-0.16; 0.05]	[1.7; 2.2]	[1.4; 1.8]	[0.91; 1.00]*	[0.91; 1.05]	[-0.06; 0.11]			
Oman	1.22 [1.11; 1.34]	1.22 [1.09; 1.36]	0.00 [-0.14; 0.14]	9.5 [8.5; 10.7]	7.8 [6.9; 8.8]	1.01 [0.92; 1.12]	1.00 [0.90; 1.12]	-0.01 [-0.12; 0.10]			
Pakistan	1.13 [1.08; 1.18]	1.20 [1.12; 1.29]	0.08	57.5 [46.8; 70.3]	47.8 [38.9; 58.3]	1.03 [0.98; 1.08]	1.01 [0.93; 1.09]	-0.02 [-0.11; 0.07]			
Palau	1.25 [1.10; 1.40]	1.25 [1.11; 1.40]	0.00 [-0.15; 0.15]	16.7 [8.0; 35.5]	13.4 [6.4; 28.7]	0.99 [0.88; 1.12]	0.99 [0.88; 1.12]	0.00 [-0.12; 0.12]			
Panama	1.24	1.23	-0.01	13.1	10.7	1.00	1.00	0.00			
Papua New Guinea	[1.11; 1.37]	[1.10; 1.38]	[-0.15; 0.15]	[6.6; 26.0] 37.3	[5.3; 21.1]	[0.90; 1.12] 1.06	[0.89; 1.12]	[-0.12; 0.12] -0.02			
•	[1.04; 1.24] 1.20	[1.07; 1.32] 1.22	[-0.08; 0.19] 0.02	[26.0; 52.4] 17.1	[21.9; 44.4] 14.0	[0.97; 1.16] 1.03	[0.93; 1.15] 1.01	[-0.14; 0.10] -0.02			
Paraguay	[1.09; 1.32] 1.17	[1.10; 1.37] 1.21	[-0.11; 0.17] 0.04	[8.3; 34.5] 12.0	[6.7; 28.1] 9.9	[0.93; 1.13] 1.03	[0.90; 1.13]	[-0.13; 0.10] -0.01			
Peru	[1.13; 1.22]	[1.11; 1.33]	[-0.07; 0.16] -0.06	[9.5; 15.4] 22.6	[7.8; 12.7] 18.2	[0.99; 1.07] 0.94	[0.93; 1.11]	[-0.10; 0.09] 0.06			
Philippines¶	[1.23; 1.38]	[1.13; 1.36]	[-0.18; 0.07]	[15.9; 30.9]	[12.7; 24.9]	[0.89; 1.00]*	[0.91; 1.10]	[-0.04; 0.17]			
Poland	1.28 [1.26; 1.31]	1.19 [1.14; 1.24]	-0.09 [-0.15; -0.03]†	4.0 [3.9; 4.2]	3.4 [3.3; 3.5]	0.97 [0.95; 0.99]*	1.00 [0.95; 1.04]	0.03 [-0.02; 0.08]			
Portugal	1.25 [1.21; 1.29]	1.20 [1.12; 1.28]	-0.05 [-0.14; 0.04]	2.8 [2.5; 3.0]	2.3 [2.1; 2.5]	0.99 [0.96; 1.02]	0.99 [0.93; 1.06]	0.00 [-0.07; 0.07]			
Qatar	1.18 [1.10; 1.28]	1.13 [1.05; 1.22]	-0.05 [-0.17; 0.07]	4.8 [4.3; 5.4]	4.2 [3.7; 4.8]	1.06 [0.98; 1.14]	1.05 [0.97; 1.13]	-0.01 [-0.11; 0.10]			
Romania	1.26	1.16	-0.10	5.6	4.9	0.99	1.02	0.04			
Russian Federation¶	[1.23; 1.29] 1.36	[1.11; 1.22] 1.23	[-0.16; -0.04]† -0.13	[5.4; 5.9] 4.5	[4.6; 5.1]	[0.97; 1.01] 0.92	[0.98; 1.07] 0.96	[-0.01; 0.09] 0.05			
Rwanda	[1.34; 1.38]	[1.19; 1.28] 1.22	[-0.18; -0.08]† 0.06	[4.2; 4.7] 32.5	[3.4; 3.8] 26.7	[0.90; 0.93]* 1.02	[0.93; 1.00]* 1.02	[0.01; 0.08]† 0.00			
	[1.10; 1.21] 1.23	[1.11; 1.33]	[-0.05; 0.18] -0.01	[20.7; 49.0] 13.5	[17.0; 40.1] 11.0	[0.96; 1.07] 1.01	[0.93; 1.11]	[-0.10; 0.11] 0.00			
Saint Kitts and Nevis	[1.12; 1.36] 1.22	[1.10; 1.36] 1.21	[-0.15; 0.13] -0.01	[9.0; 20.7] 24.5	[7.2; 16.8] 20.3	[0.92; 1.11] 1.02	[0.91; 1.12] 1.03	[-0.11; 0.12] 0.01			
Saint Lucia	[1.14; 1.31]	[1.10; 1.33]	[-0.14; 0.12]	[20.8; 28.8]	[17.2; 23.9]	[0.95; 1.10]	[0.93; 1.13]	[-0.10; 0.12]			
Samoa	1.21 [1.11; 1.33]	1.23 [1.12; 1.35]	0.02 [-0.12; 0.16]	15.8 [11.0; 22.4]	12.8 [8.9; 18.2]	1.02 [0.93; 1.12]	1.01 [0.92; 1.11]	-0.02 [-0.13; 0.10]			
San Marino	1.23 [1.10; 1.39]	1.18 [1.05; 1.33]	-0.06 [-0.20; 0.09]	1.6 [0.8; 3.4]	1.4 [0.7; 2.9]	1.00 [0.89; 1.13]	1.00 [0.89; 1.13]	0.00 [-0.12; 0.12]			
Sao Tome and Principe	1.22 [1.12; 1.34]	1.26 [1.14; 1.40]	0.04 [-0.10; 0.18]	13.5 [7.6; 23.8]	10.7 [6.0; 18.9]	0.97 [0.89; 1.07]	0.98 [0.88; 1.09]	0.01 [-0.11; 0.12]			
Saudi Arabia	1.13 [1.02; 1.24]	1.05 [0.95; 1.16]	-0.08 [-0.20; 0.05]	5.9 [4.4; 8.1]	5.6 [4.2; 7.7]	1.09 [1.00; 1.21]	1.13 [1.03; 1.26]*	0.04 [-0.09; 0.17]			
Senegal	1.18	1.28	0.10	32.6	25.5	1.01	0.97	-0.04 [-0.13; 0.05]			
Serbia¶	[1.13; 1.23]	[1.18; 1.39]	0.09	[26.3; 39.9]	[20.5; 31.3]	1.10	0.97	-0.13			
Seychelles	[1.10; 1.16] 1.17	[1.15; 1.30] 1.17	[0.01; 0.18]† 0.01	[4.8; 5.6] 12.9	[3.9; 4.6] 11.0	[1.07; 1.13]* 1.06	[0.91; 1.03] 1.05	[-0.20; -0.06]† -0.01			
•	[1.06; 1.27] 1.15	[1.05; 1.29] 1.18	[-0.13; 0.14] 0.03	[9.9; 16.9] 84.4	[8.4; 14.5] 71.7	[0.98; 1.17] 0.99	[0.96; 1.17] 1.00	[-0.13; 0.11] 0.01			
Sierra Leone	[1.08; 1.22] 1.18	[1.09; 1.28] 1.18	[-0.08; 0.15] 0.00	[71.6; 98.9] 1.9	[60.4; 83.9] 1.6	[0.93; 1.05] 1.02	[0.93; 1.09]	[-0.08; 0.11] -0.01			
Singapore	[1.12; 1.24]	[1.09; 1.28]	[-0.11; 0.11]	[1.5; 2.3]	[1.3; 1.9]	[0.97; 1.07]	[0.92; 1.09]	[-0.11; 0.08]			
Slovakia	1.31 [1.26; 1.35]	1.21 [1.13; 1.28]	-0.10 [-0.19; -0.01]†	5.1 [4.8; 5.4]	4.2 [3.9; 4.5]	0.95 [0.92; 0.99]*	0.99 [0.93; 1.05]	0.04 [-0.03; 0.11]			
Slovenia	1.26 [1.19; 1.33]	1.18 [1.08; 1.29]	-0.08 [-0.20; 0.04]	1.9 [1.6; 2.2]	1.6 [1.4; 1.9]	0.97 [0.92; 1.03]	1.00 [0.92; 1.10]	0.03 [-0.07; 0.14]			
Solomon Islands	1.18 [1.06; 1.32]	1.20 [1.08; 1.34]	0.02 [-0.12; 0.15]	17.5 [10.7; 27.0]	14.6 [8.9; 22.5]	1.04 [0.94; 1.16]	1.03 [0.93; 1.15]	-0.01 [-0.13; 0.11]			
Somalia	1.14 [1.03; 1.25]	1.17 [1.06; 1.30]	0.04 [-0.09; 0.17]	76.4 [39.4; 157.0]	65.1 [33.5; 135.8]	1.02 [0.93; 1.12]	1.01 [0.90; 1.13]	-0.01 [-0.13; 0.12]			
South Africa§	1.20	1.17	-0.04 [-0.15; 0.07]	28.4	24.4	1.01 [0.94; 1.09]	1.06 [1.00; 1.13]*	0.05 [-0.04; 0.15]			
South Sudan	[1.12; 1.30]	[1.10; 1.24]	0.06	[26.1; 31.0] 68.9	[22.3; 26.6] 58.5	1.02	1.01	-0.01			
Spain	[1.00; 1.25] 1.23	[1.05; 1.32] 1.20	[-0.07; 0.20] -0.03	[28.8; 145.8]	[24.7; 124.0] 2.3	[0.92; 1.14] 0.99	[0.90; 1.14] 0.99	[-0.13; 0.12] 0.00			
*	[1.19; 1.26] 1.23	[1.14; 1.27] 1.23	[-0.10; 0.05] -0.01	[2.6; 3.0] 6.3	[2.2; 2.5] 5.2	[0.96; 1.02] 1.01	[0.93; 1.04] 0.98	[-0.06; 0.05] -0.03			
Sri Lanka	[1.20; 1.26] 1.16	[1.14; 1.31] 1.20	[-0.09; 0.08] 0.04	[4.7; 8.5] 13.7	[3.8; 6.9] 11.4	[0.99; 1.04] 1.07	[0.92; 1.05] 1.03	[-0.10; 0.04] -0.04			
Saint Vincent and the Grenadines	[1.08; 1.25]	[1.08; 1.33]	[-0.09; 0.17]	[10.0; 18.6]	[8.3; 15.7]	[1.00; 1.16]	[0.93; 1.14]	[-0.15; 0.08]			
State of Palestine¶	1.11 [1.03; 1.19]	1.18 [1.08; 1.30]	0.07 [-0.05; 0.20]	13.8 [10.0; 19.0]	11.7 [8.4; 16.2]	1.11 [1.03; 1.19]*	1.05 [0.96; 1.15]	-0.06 [-0.18; 0.05]			
Sudan	1.22 [1.15; 1.30]	1.26 [1.16; 1.38]	0.04 [-0.09; 0.17]	43.3 [31.6; 59.7]	34.3 [25.0; 47.5]	0.96 [0.91; 1.03]	0.97 [0.88; 1.06]	0.01 [-0.10; 0.11]			
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	n 2021. *: The ra	tio of estimated to e	xpected female me	ortality is significantly dif	ferent from one. †	: Change is signific	cantly different from zero.			

¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero. Continued on next page

Table 13 – continued from previous page

		Sex ratio IMI		Sex-specific IN	IR in 2021 (per 1,000)	Est	timated/Expected	female IMR
	1990	2021	Change	Male	Female	1990	2021	Change
			1990-2021					1990-2021
Suriname	1.25	1.28	0.03	17.2	13.4	0.98	0.97	-0.01
	[1.13; 1.38] 1.26	[1.15; 1.43] 1.24	[-0.11; 0.18] -0.02	[10.8; 27.4] 45.8	[8.4; 21.7] 36.9	[0.89; 1.08] 0.96	[0.87; 1.08] 0.99	[-0.12; 0.10] 0.03
Eswatini	[1.16; 1.36]	[1.12; 1.37]	[-0.16; 0.12]	[29.2; 69.4]	[23.7; 57.2]	[0.89; 1.04]	[0.89; 1.09]	[-0.08; 0.14]
Sweden	1.25	1.20	-0.05	2.2	1.8	0.96	0.99	0.03
Sweden	[1.20; 1.30]	[1.13; 1.28]	[-0.14; 0.04]	[2.0; 2.4]	[1.7; 2.0]	[0.92; 1.00]	[0.93; 1.05]	[-0.05; 0.10]
Switzerland	1.27 [1.21; 1.32]	1.17 [1.10; 1.24]	-0.10 [-0.19; -0.01]†	3.6 [3.4; 3.9]	3.1 [2.9; 3.3]	0.96 [0.92; 1.00]*	1.01 [0.95; 1.08]	0.06 [-0.02; 0.13]
	1.19	1.23	0.04	20.3	16.4	1.04	1.00	-0.04
Syria	[1.12; 1.27]	[1.11; 1.36]	[-0.09; 0.18]	[10.5; 27.8]	[8.6; 22.5]	[0.97; 1.11]	[0.91; 1.11]	[-0.14; 0.08]
Tajikistan	1.21	1.29	0.08	31.1	24.0	0.97	0.95	-0.02
· ·	[1.13; 1.31]	[1.18; 1.43]	[-0.05; 0.22] 0.10	[18.6; 51.9] 37.1	[14.2; 40.1] 31.0	[0.90; 1.05] 1.07	[0.87; 1.05]	[-0.12; 0.09] -0.04
Tanzania¶	[1.04; 1.15]	[1.09; 1.31]	[-0.01; 0.23]	[26.7; 51.4]	[22.3; 43.1]	[1.01; 1.12]*	[0.94; 1.13]	[-0.14; 0.08]
Thailand	1.26	1.23	-0.03	7.8	6.4	0.98	0.99	0.01
Thurland	[1.16; 1.36]	[1.10; 1.36]	[-0.16; 0.11]	[6.5; 10.3]	[5.3; 8.4]	[0.91; 1.07]	[0.89; 1.10]	[-0.10; 0.11]
Timor Leste	1.11 [1.03; 1.20]	1.19 [1.09; 1.32]	0.08 [-0.04; 0.21]	46.7 [31.5; 67.6]	39.1 [26.4; 56.8]	1.03 [0.95; 1.12]	1.02 [0.92; 1.13]	-0.01 [-0.12; 0.12]
T	1.18	1.22	0.04	47.6	38.9	0.99	1.00	0.01
Togo	[1.11; 1.26]	[1.12; 1.33]	[-0.09; 0.16]	[37.5; 60.2]	[30.8; 49.5]	[0.93; 1.05]	[0.92; 1.10]	[-0.09; 0.12]
Tonga	1.28	1.27	-0.01	10.7	8.4	0.97	0.97	0.00
-	[1.15; 1.43] 1.20	[1.15; 1.40] 1.22	[-0.16; 0.13] 0.03	[5.7; 18.6] 16.0	[4.5; 14.6] 13.1	[0.87; 1.08] 1.04	[0.87; 1.07] 1.01	[-0.12; 0.11] -0.03
Trinidad and Tobago	[1.08; 1.32]	[1.09; 1.37]	[-0.11; 0.17]	[6.5; 39.3]	[5.3; 32.2]	[0.94; 1.15]	[0.90; 1.13]	[-0.15; 0.09]
Tunisia	1.19	1.20	0.01	15.3	12.7	1.03	1.03	0.01
Tunion	[1.11; 1.27]	[1.13; 1.28]	[-0.09; 0.12] 0.03	[12.9; 18.0]	[10.7; 15.0]	[0.96; 1.10]	[0.97; 1.10]	[-0.09; 0.10] -0.02
Turkey¶	1.12 [1.06; 1.18]	1.15 [1.10; 1.20]	[-0.05; 0.11]	8.2 [7.0; 9.7]	7.2 [6.1; 8.5]	1.08 [1.02; 1.15]*	1.06 [1.02; 1.11]*	[-0.10; 0.05]
Turkmenistan¶	1.33	1.34	0.01	40.9	30.5	0.90	0.92	0.02
Turkmenistany	[1.21; 1.48]	[1.20; 1.50]	[-0.15; 0.16]	[27.3; 59.6]	[20.3; 44.8]	[0.80; 0.99]*	[0.82; 1.02]	[-0.08; 0.13]
Turks and Caicos Islands¶	1.54 [1.45; 1.64]	1.05 [0.97; 1.13]	-0.49 [-0.61; -0.37]†	3.9 [2.3; 6.7]	3.7 [2.2; 6.4]	0.80 [0.76; 0.85]*	1.13 [1.05; 1.22]*	0.33 [0.23; 0.43]†
m 1	1.27	1.27	0.00	20.2	15.9	0.97	0.98	0.01
Tuvalu	[1.14; 1.40]	[1.14; 1.41]	[-0.14; 0.15]	[11.4; 34.1]	[9.0; 26.9]	[0.87; 1.07]	[0.88; 1.09]	[-0.10; 0.13]
Uganda	1.15 [1.09; 1.20]	1.24	0.09 [-0.02; 0.22]	34.4 [25.2; 45.9]	27.7 [20.2; 36.9]	1.01 [0.96; 1.07]	1.00 [0.91; 1.09]	-0.02 [-0.11; 0.08]
	1.26	[1.14; 1.35]	-0.04	7.7	6.3	0.99	0.99	0.00
Ukraine	[1.14; 1.40]	[1.09; 1.37]	[-0.19; 0.11]	[7.2; 8.3]	[5.8; 6.8]	[0.89; 1.09]	[0.89; 1.11]	[-0.11; 0.12]
United Arab Emirates	1.29	1.22	-0.07	6.0	4.9	0.96	0.98	0.02
	[1.19; 1.41] 1.30	[1.12; 1.33] 1.21	[-0.21; 0.06] -0.10	[5.1; 7.0] 4.0	[4.2; 5.8]	[0.88; 1.05]	[0.90; 1.07] 0.98	[-0.08; 0.12] 0.05
United Kingdom	[1.27; 1.33]	[1.15; 1.26]	[-0.16; -0.04]†	[3.8; 4.2]	[3.1; 3.5]	[0.92; 0.96]*	[0.94; 1.03]	[0.00; 0.10]†
United States of America	1.26	1.20	-0.06	5.8	4.9	0.98	1.00	0.02
Omica states of Finished	[1.24; 1.27]	[1.15; 1.25]	[-0.11; -0.01]†	[5.5; 6.2]	[4.6; 5.2]	[0.97; 0.99]*	[0.96; 1.04]	[-0.02; 0.06]
Uruguay	1.26 [1.21; 1.30]	1.23 [1.15; 1.31]	-0.03 [-0.12; 0.07]	5.5 [5.0; 6.1]	4.5 [4.0; 4.9]	0.99 [0.96; 1.03]	0.97 [0.91; 1.03]	-0.02 [-0.09; 0.05]
Uzbekistan¶	1.33	1.32	-0.01	14.3	10.8	0.90	0.94	0.04
OZDEKISTALI]	[1.23; 1.45]	[1.19; 1.47]	[-0.16; 0.13]	[12.8; 16.3]	[9.6; 12.5]	[0.83; 0.98]*	[0.84; 1.05]	[-0.06; 0.15]
Vanuatu	1.17 [1.04; 1.32]	1.18 [1.04; 1.31]	0.01 [-0.14; 0.14]	21.3 [12.2; 36.2]	18.1 [10.3; 31.0]	1.05 [0.94; 1.20]	1.06 [0.95; 1.19]	0.01 [-0.12; 0.13]
V 1 (D II : D 1II 0	1.25	1.19	-0.06	22.8	19.1	1.00	0.99	-0.12, 0.13]
Venezuela (Bolivarian Republic of)	[1.22; 1.27]	[1.11; 1.27]	[-0.14; 0.03]	[16.8; 30.7]	[14.1; 25.7]	[0.98; 1.02]	[0.93; 1.06]	[-0.07; 0.07]
Vietnam¶	1.33	1.31	-0.01	18.6	14.2	0.93	0.95	0.02
	[1.24; 1.42] 1.18	[1.22; 1.41] 1.19	[-0.13; 0.11] 0.02	[16.4; 21.2] 51.0	[12.4; 16.2] 42.7	[0.87; 0.99]* 1.00	[0.88; 1.02] 1.01	[-0.06; 0.11] 0.01
Yemen	[1.13; 1.23]	[1.09; 1.31]	[-0.10; 0.14]	[24.6; 98.4]	[20.6; 82.2]	[0.95; 1.04]	[0.92; 1.12]	[-0.09; 0.12]
Zambia	1.14	1.20	0.07	43.8	36.3	1.02	1.02	0.00
	[1.08; 1.19]	[1.11; 1.31]	[-0.04; 0.19]	[33.2; 57.8]	[27.5; 48.1]	[0.97; 1.07]	[0.93; 1.11]	[-0.10; 0.10]
Zimbabwe	1.28 [1.20; 1.36]	1.25 [1.15; 1.36]	-0.03 [-0.15; 0.10]	39.6 [28.8; 53.7]	31.6 [23.1; 42.9]	0.95 [0.89; 1.01]	0.98 [0.90; 1.07]	0.04 [-0.07; 0.14]
	[1.20, 1.50]	[1.15, 1.50]	[-0.15, 0.10]	[20.0, 33.7]	[23.1, 42.7]	[0.02, 1.01]	[0.70, 1.07]	[-0.07, 0.14]

Table 14: Estimates and 90% uncertainty intervals for sex ratios for CMR in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific CMR in 2021, and ratios of estimated to expected female CMR and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio CMR			MR in 2021 (per 1,000)		imated/Expected	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World¶	0.91	1.01	0.10	10.0	9.9	1.11	1.03	-0.08
South Asia¶§	[0.90; 0.93] 0.76	[0.99; 1.04] 0.88	[0.07; 0.13]† 0.13	[8.8; 11.4] 6.1	[8.7; 11.3] 6.9	[1.09; 1.13]* 1.34	[1.00; 1.06] 1.30	[-0.11; -0.05]† -0.03
	[0.73; 0.78]	[0.84; 0.93]	[0.08; 0.18]† 0.12	[5.3; 7.0]	[6.0; 7.9]	[1.30; 1.38]*	[1.23; 1.38]* 1.01	[-0.12; 0.05] -0.02
Europe and Central Asia	[1.04; 1.11] 0.92	[1.16; 1.22] 1.06	[0.07; 0.16]† 0.15	[1.1; 1.3] 4.0	[0.9; 1.1]	[0.99; 1.06] 1.16	[0.97; 1.03] 1.08	[-0.06; 0.02] -0.08
Middle East and North Africa¶	[0.89; 0.95]	[1.01; 1.12]	[0.09; 0.20]†	[2.9; 7.1]	[2.7; 6.6]	[1.12; 1.20]*	[0.98; 1.14]	[-0.18; -0.01]†
Sub-Saharan Africa¶	1.04 [1.03; 1.06]	1.05 [1.02; 1.09]	0.01 [-0.03; 0.04]	24.9 [22.1; 31.5]	23.7 [21.0; 30.1]	0.96 [0.95; 0.98]*	0.98 [0.95; 1.01]	0.01 [-0.02; 0.05]
Latin America and Caribbean	1.06 [1.02; 1.10]	1.16 [1.12; 1.20]	0.10 [0.06; 0.15]†	2.5 [2.3; 2.9]	2.2 [2.0; 2.5]	1.02 [0.97; 1.06]	1.01 [0.97; 1.05]	-0.01 [-0.06; 0.04]
East Asia and Pacific	1.03 [0.96; 1.11]	1.19 [1.11; 1.25]	0.16 [0.08; 0.22]†	3.2 [2.7; 3.5]	2.7 [2.3; 3.0]	1.03 [0.96; 1.11]	0.99 [0.93; 1.05]	-0.04 [-0.11; 0.02]
North America	1.25	1.24 [1.19; 1.31]	0.00	1.0	0.8 [0.7; 0.8]	0.96 [0.94; 0.98]*	0.96 [0.92; 1.01]	0.00 [-0.05; 0.05]
Afghanistan	0.95	1.06	0.11	13.2	12.5	1.05	1.03	-0.02
Albania¶	[0.88; 1.04] 0.78	[0.96; 1.16] 0.79	[-0.01; 0.21] 0.01	[8.3; 20.4] 0.9	[7.9; 19.2] 1.2	[0.97; 1.14] 1.53	[0.92; 1.15] 1.48	[-0.15; 0.11] -0.05
_	[0.69; 0.88]	[0.72; 0.90] 1.08	[-0.07; 0.12] -0.05	[0.9; 1.0]	[1.1; 1.3] 3.1	[1.36; 1.72]* 1.00	[1.33; 1.66]* 1.11	[-0.23; 0.13] 0.12
Algeria	[1.08; 1.19] 1.81	[1.00; 1.16] 2.64	[-0.15; 0.04] 0.83	[2.9; 3.8]	[2.7; 3.6] 0.1	[0.95; 1.06] 0.65	[1.03; 1.20]* 0.64	[0.02; 0.22]† -0.01
Andorra¶	[1.59; 2.00] 1.07	[1.68; 2.07] 1.08	[-0.13; 0.28] 0.01	[0.0; 0.6] 24.3	[0.0; 0.3]	[0.56; 0.74]* 0.94	[0.58; 0.71]* 0.97	[-0.09; 0.09] 0.02
Angola	[0.97; 1.18]	[0.96; 1.21]	[-0.11; 0.14]	[6.6; 59.2]	[6.1; 54.6]	[0.85; 1.04]	[0.84; 1.12]	[-0.10; 0.18]
Anguilla	1.18 [1.09; 1.27]	1.15 [1.13; 1.36]	-0.03 [-0.06; 0.19]	0.1 [0.1; 0.3]	0.1 [0.1; 0.3]	1.02 [0.94; 1.10]	0.97 [0.88; 1.06]	-0.05 [-0.15; 0.05]
Antigua and Barbuda	1.22 [1.09; 1.38]	1.22 [1.08; 1.39]	0.00 [-0.14; 0.14]	1.1	0.9 [0.6; 1.4]	0.98	0.98 [0.87; 1.12]	0.00 [-0.11; 0.12]
Argentina	1.15 [1.12; 1.19]	1.14 [1.09; 1.21]	-0.01 [-0.07; 0.07]	0.8	0.7 [0.7; 0.8]	1.04 [1.01; 1.07]*	1.04 [0.99; 1.10]	0.00 [-0.06; 0.07]
Armenia	1.17	1.21	0.04	1.3	1.1	0.98	0.99	0.01
Australia	[1.02; 1.35]	[1.05; 1.42]	-0.07	0.6	0.5	0.94	0.85; 1.14]	0.05
Austria	[1.22; 1.34] 1.26	[1.13; 1.32] 1.26	[-0.17; 0.05] 0.01	[0.6; 0.7] 0.7	[0.5; 0.5]	[0.89; 0.98]* 0.96	[0.91; 1.06] 0.95	[-0.03; 0.13] 0.00
	[1.18; 1.33]	[1.15; 1.38] 1.16	[-0.12; 0.14] 0.16	[0.7; 0.8]	[0.5; 0.7]	[0.90; 1.02] 1.04	[0.87; 1.05]	[-0.10; 0.10] -0.01
Azerbaijan	[0.88; 1.13]	[1.01; 1.33] 1.18	[0.04; 0.30]† 0.03	[1.3; 4.2] 1.9	[1.1; 3.6]	[0.91; 1.19] 1.04	[0.90; 1.19] 1.02	[-0.13; 0.11] -0.02
Bahamas	[1.04; 1.27]	[1.05; 1.32] 1.11	[-0.11; 0.16] -0.06	[1.6; 2.2]	[1.4; 1.9] 1.0	[0.94; 1.16]	[0.91; 1.15] 1.08	[-0.14; 0.10] 0.05
Bahrain	[1.06; 1.28]	[1.02; 1.21]	[-0.18; 0.06]	[0.9; 1.2]	[0.8; 1.1]	[0.94; 1.13]	[0.99; 1.18]	[-0.06; 0.16]
Bangladesh¶	0.85 [0.81; 0.89]	1.18 [1.10; 1.27]	0.33 [0.24; 0.43]†	4.8 [4.2; 5.6]	4.1 [3.5; 4.8]	1.19 [1.13; 1.24]*	1.02 [0.95; 1.10]	-0.17 [-0.26; -0.08]†
Barbados	1.21 [1.08; 1.35]	1.21 [1.07; 1.38]	0.00 [-0.13; 0.15]	0.9 [0.6; 1.5]	0.8 [0.5; 1.2]	0.99 [0.89; 1.11]	0.99 [0.87; 1.12]	-0.01 [-0.12; 0.11]
Belarus	1.29 [1.23; 1.35]	1.32 [1.22; 1.44]	0.03	0.8	0.6 [0.5; 0.7]	0.93 [0.89; 0.97]*	0.90 [0.83; 0.98]*	-0.03 [-0.11; 0.06]
Belgium	1.22 [1.15; 1.28]	1.23 [1.13; 1.34]	0.01 [-0.10; 0.14]	0.8 [0.7; 0.9]	0.6 [0.6; 0.7]	0.99 [0.94; 1.05]	0.98 [0.90; 1.06]	-0.01 [-0.11; 0.08]
Belize	1.12 [0.99; 1.26]	1.17 [1.04; 1.33]	0.05 [-0.08; 0.19]	1.7 [1.4; 2.1]	1.5 [1.2; 1.8]	1.03 [0.91; 1.18]	1.02 [0.91; 1.16]	0.00 [-0.13; 0.12]
Benin	1.02	1.04	0.02	30.6	29.4	0.98	0.97	-0.01
Bhutan	[0.97; 1.08] 0.99	[0.95; 1.14] 1.18	[-0.08; 0.13] 0.19	[23.0; 40.5] 4.7	[22.1; 38.9]	[0.93; 1.04] 1.01	[0.89; 1.07] 0.99	[-0.10; 0.09] -0.02
Bolivia (Plurinational State of)	[0.88; 1.12] 0.99	[1.04; 1.36] 1.14	[0.07; 0.33]† 0.15	[2.4; 10.0] 4.9	[2.0; 8.4]	[0.90; 1.15] 1.02	[0.86; 1.14] 1.04	[-0.14; 0.11] 0.02
· · · · · · · · · · · · · · · · · · ·	[0.93; 1.05]	[1.03; 1.27] 1.27	[0.04; 0.28]†	[3.4; 7.6]	[2.9; 6.7]	[0.96; 1.09]	[0.93; 1.16] 0.94	[-0.09; 0.14] 0.04
Bosnia and Herzegovina	[1.22; 1.44] 1.09	[1.15; 1.41] 1.17	[-0.18; 0.08] 0.07	[0.7; 1.1] 7.3	[0.5; 0.9]	[0.83; 0.98]* 1.00	[0.85; 1.05] 0.97	[-0.06; 0.14] -0.02
Botswana	[0.98; 1.25]	[1.03; 1.33]	[-0.06; 0.21] 0.09	[1.8; 40.9]	[1.5; 35.1]	[0.87; 1.13]	[0.81; 1.14]	[-0.18; 0.13] 0.01
Brazil	1.13 [1.00; 1.26]	1.22 [1.07; 1.38]	[-0.03; 0.23]	1.7 [1.5; 2.0]	1.4 [1.2; 1.7]	[0.86; 1.10]	0.99 [0.87; 1.12]	[-0.11; 0.12]
British Virgin Islands	1.27 [1.20; 1.35]	1.50 [1.33; 1.64]	0.23 [0.05; 0.37]†	0.7 [0.3; 1.4]	0.4 [0.2; 1.0]	0.94 [0.89; 1.00]*	0.81 [0.73; 0.90]*	-0.13 [-0.22; -0.03]†
Brunei	1.21 [1.10; 1.34]	1.22 [1.08; 1.35]	0.00 [-0.14; 0.14]	2.0 [1.7; 2.5]	1.7 [1.4; 2.0]	0.99 [0.90; 1.09]	0.99 [0.89; 1.11]	0.00 [-0.11; 0.12]
Bulgaria	1.20 [1.15; 1.26]	1.13 [1.03; 1.22]	-0.08 [-0.18; 0.03]	1.1 [1.0; 1.2]	1.0	1.00 [0.95; 1.04]	1.07 [0.98; 1.16]	0.07 [-0.02; 0.17]
Burkina Faso	1.02	1.01 [0.92; 1.11]	0.00	32.8 [17.7; 58.0]	32.4 [17.5; 57.6]	0.99	1.01	0.02
Burundi	0.99 [0.92; 1.08]	1.07	0.08	16.1	15.0	1.01	0.99	-0.02
Cambodia	1.00	[0.95; 1.20]	[-0.05; 0.21]	[7.3; 32.4]	[7.2; 29.3]	[0.93; 1.10]	[0.87; 1.15]	[-0.15; 0.15] -0.01
Cameroon	[0.93; 1.07] 1.02	[1.07; 1.32] 1.09	[0.06; 0.32]† 0.07	[1.9; 9.0] 24.9	[1.6; 7.6] 22.9	[0.94; 1.09] 0.98	[0.89; 1.12] 0.95	[-0.13; 0.11] -0.04
	[0.96; 1.09] 1.24	[0.99; 1.19] 1.19	[-0.04; 0.18] -0.05	[17.0; 34.9] 0.7	[15.6; 32.2] 0.6	[0.93; 1.04] 0.97	[0.86; 1.04] 1.01	[-0.14; 0.07] 0.04
Canada ¶: Sex ratio is outlying in 1990. §: Sex r	[1.19; 1.29]	[1.11; 1.28]	[-0.14; 0.05]	[0.6; 0.7]	[0.5; 0.6]	[0.93; 1.01]	[0.94; 1.08]	[-0.04; 0.12]

¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

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	1990	Sex ratio CMI 2021	Change	Male	MR in 2021 (per 1,000) Female	1990	imated/Expected	Change
	1.06	1.18	1990-2021 0.12	2.1	1.7	1.01	1.01	1990–2021 0.00
Cape Verde	[0.99; 1.14]	[1.07; 1.32] 0.99	[0.00; 0.26]†	[1.6; 2.7]	[1.3; 2.3]	[0.94; 1.09]	[0.91; 1.12]	[-0.11; 0.12]
Central African Republic	[0.89; 1.05]	[0.88; 1.08]	[-0.10; 0.12]	26.3 [17.4; 39.5]	26.6 [17.7; 40.3]	[0.96; 1.13]	[0.94; 1.17]	0.01 [-0.11; 0.13]
Chad	1.06 [1.00; 1.12]	1.03 [0.94; 1.13]	-0.03 [-0.13; 0.08]	44.5 [25.7; 73.1]	43.3 [25.0; 70.9]	0.95 [0.90; 1.01]	0.98 [0.89; 1.08]	0.03 [-0.07; 0.13]
Chile	1.28 [1.23; 1.33]	1.19 [1.09; 1.29]	-0.09 [-0.19; 0.02]	1.0 [0.9; 1.2]	0.9 [0.7; 1.0]	0.94 [0.91; 0.98]*	1.01 [0.93; 1.10]	0.07 [-0.01; 0.16]
China	1.01 [0.89; 1.14]	1.12 [0.97; 1.29]	0.12	2.0	1.8	1.09 [0.96; 1.25]	1.07 [0.93; 1.23]	-0.02 [-0.15; 0.10]
Colombia	1.14	1.19	0.04	2.0	1.7	1.02	1.01	-0.01
Comoros	[1.04; 1.25] 1.01	[1.05; 1.33] 1.07	[-0.09; 0.18] 0.06	[1.3; 3.1] 11.2	[1.1; 2.6] 10.5	[0.93; 1.13] 0.99	[0.91; 1.14] 1.04	[-0.12; 0.12] 0.04
	[0.90; 1.14] 1.01	[0.94; 1.21]	[-0.07; 0.18] 0.12	[7.2; 17.4] 12.0	[6.7; 16.2] 10.6	[0.88; 1.12]	[0.90; 1.20] 0.97	[-0.09; 0.18] -0.03
Congo	[0.92; 1.11] 1.04	[1.00; 1.26] 1.10	[-0.01; 0.25] 0.06	[5.2; 29.1] 18.5	[4.8; 25.2] 16.8	[0.91; 1.10] 0.97	[0.84; 1.14] 0.96	[-0.17; 0.14] -0.01
Democratic Republic of the Congo	[0.95; 1.14]	[0.99; 1.24]	[-0.05; 0.20]	[7.9; 44.8]	[7.1; 40.8]	[0.88; 1.06]	[0.84; 1.10]	[-0.13; 0.13]
Cook Islands¶§	0.32 [0.25; 0.40]	0.29 [0.24; 0.41]	-0.03 [-0.03; 0.04]	0.5 [0.3; 0.9]	1.6 [0.9; 2.9]	3.82 [2.98; 4.90]*	3.79 [2.90; 4.97]*	-0.03 [-0.45; 0.46]
Costa Rica	1.21 [1.14; 1.28]	1.25 [1.15; 1.36]	0.04 [-0.07; 0.17]	1.6 [1.4; 1.7]	1.3 [1.1; 1.4]	0.99 [0.94; 1.05]	0.96 [0.88; 1.04]	-0.03 [-0.13; 0.06]
Cote d'Ivoire¶	1.15 [1.07; 1.23]	1.12 [1.02; 1.25]	-0.02 [-0.14; 0.11]	21.3 [13.7; 32.4]	18.9 [12.1; 28.5]	0.88 [0.82; 0.94]*	0.92 [0.82; 1.03]	0.04 [-0.06; 0.15]
Croatia	1.26	1.06	-0.20	0.7	0.7	0.96	1.13 [1.02; 1.24]*	0.17
Cuba	[1.16; 1.36]	[0.97; 1.17]	[-0.31; -0.07]† -0.03	[0.7; 0.8]	[0.6; 0.8]	[0.88; 1.03]	1.01	[0.06; 0.29]†
	[1.17; 1.27] 1.17	[1.10; 1.28] 1.18	[-0.13; 0.08] 0.01	[0.9; 1.4]	[0.7; 1.2]	[0.94; 1.03]	[0.94; 1.09] 1.02	[-0.06; 0.11] -0.01
Cyprus	[1.03; 1.34] 1.25	[1.03; 1.35] 1.23	[-0.13; 0.14] -0.02	[0.4; 0.8]	[0.3; 0.7]	[0.89; 1.16] 0.96	[0.89; 1.17] 0.98	[-0.12; 0.12] 0.02
Czech Republic	[1.17; 1.33]	[1.14; 1.32]	[-0.13; 0.09] -0.01	[0.6; 0.7]	[0.5; 0.5]	[0.90; 1.02]	[0.91; 1.05] 0.98	[-0.07; 0.10] 0.00
Denmark	[1.15; 1.32]	[1.11; 1.35]	[-0.13; 0.13]	[0.5; 0.6]	[0.4; 0.5]	0.98 [0.91; 1.05]	[0.89; 1.08]	[-0.10; 0.11]
Djibouti	1.08 [0.94; 1.27]	1.21 [1.04; 1.40]	0.12 [-0.02; 0.25]	9.4 [3.9; 23.0]	7.8 [3.2; 19.2]	0.94 [0.80; 1.08]	0.94 [0.78; 1.10]	0.00 [-0.14; 0.14]
Dominica	1.20 [1.06; 1.36]	1.21 [1.06; 1.37]	0.01 [-0.14; 0.15]	4.4 [3.7; 5.2]	3.6 [3.0; 4.3]	1.00 [0.88; 1.13]	1.00 [0.88; 1.13]	-0.01 [-0.12; 0.11]
Dominican Republic	1.10 [1.02; 1.20]	1.19 [1.07; 1.33]	0.09	6.4 [4.2; 10.0]	5.3 [3.5; 8.4]	0.97	0.98 [0.87; 1.10]	0.01 [-0.11; 0.13]
Ecuador	1.05	1.16	0.12	1.9	1.6	1.04	1.03	-0.01
Egypt¶	[0.94; 1.16] 0.84	[1.04; 1.29] 1.07	[-0.01; 0.24] 0.24	[1.7; 2.2] 2.9	[1.4; 1.9]	[0.94; 1.17] 1.24	[0.93; 1.15] 1.13	[-0.13; 0.11]
	[0.79; 0.88]	[0.95; 1.18] 1.21	[0.11; 0.35]† 0.13	[1.8; 5.1] 1.9	[1.7; 4.8]	[1.16; 1.31]* 0.99	[1.01; 1.27]* 0.99	[-0.23; 0.03] 0.00
El Salvador	[0.96; 1.23] 1.02	[1.08; 1.38] 1.06	[0.00; 0.26]† 0.04	[1.2; 3.5] 21.3	[1.0; 2.9] 20.0	[0.87; 1.12] 0.98	[0.87; 1.12] 0.99	[-0.12; 0.12] 0.01
Equatorial Guinea	[0.90; 1.17]	[0.93; 1.21]	[-0.09; 0.16]	[8.7; 47.4]	[8.1; 44.6]	[0.86; 1.12]	[0.85; 1.16]	[-0.12; 0.15]
Eritrea	1.08 [1.01; 1.16]	1.19 [1.06; 1.32]	0.11 [-0.02; 0.24]	10.2 [4.7; 24.9]	8.6 [3.9; 21.4]	0.93 [0.87; 1.00]	0.94 [0.82; 1.08]	0.01 [-0.11; 0.15]
Estonia	1.28 [1.18; 1.38]	1.22 [1.10; 1.38]	-0.05 [-0.18; 0.10]	0.5 [0.4; 0.6]	0.4 [0.3; 0.5]	0.94 [0.87; 1.02]	0.97 [0.87; 1.10]	0.03 [-0.07; 0.15]
Ethiopia	1.05 [0.99; 1.11]	1.12 [1.01; 1.24]	0.07 [-0.05; 0.19]	13.7 [9.2; 20.3]	12.2 [8.2; 18.1]	0.96 [0.90; 1.02]	0.97 [0.86; 1.08]	0.01 [-0.10; 0.13]
Federated States of Micronesia	1.13 [0.97; 1.33]	1.21 [1.06; 1.44]	0.08 [-0.04; 0.25]	4.3 [1.7; 13.8]	3.6 [1.4; 10.8]	0.98 [0.82; 1.15]	0.96 [0.80; 1.12]	-0.02 [-0.17; 0.11]
Fiji	1.14	1.16	0.02	4.9	4.2	1.05	1.04	-0.01
Finland	[1.03; 1.26] 1.26	[1.05; 1.27] 1.23	[-0.12; 0.15] -0.03	[4.2; 5.7] 0.4	[3.6; 5.0]	[0.95; 1.16] 0.96	[0.94; 1.14] 0.98	[-0.14; 0.11] 0.02
France	[1.17; 1.35] 1.29	[1.11; 1.36] 1.21	[-0.15; 0.12] -0.08	[0.4; 0.5] 1.0	[0.3; 0.4]	[0.89; 1.03] 0.93	[0.88; 1.08]	[-0.08; 0.12] 0.06
	[1.24; 1.33]	[1.14; 1.29]	[-0.16; 0.02] 0.09	[0.9; 1.1]	[0.7; 0.9]	[0.90; 0.97]* 0.99	[0.93; 1.05] 0.99	[-0.01; 0.13] 0.00
Gabon	[0.92; 1.14] 1.04	[0.99; 1.26] 1.09	[-0.03; 0.23] 0.05	[5.9; 24.6] 15.0	[5.3; 21.8] 13.8	[0.89; 1.10] 0.96	[0.85; 1.14] 0.98	[-0.14; 0.14] 0.02
The Gambia	[0.95; 1.15]	[0.98; 1.22]	[-0.07; 0.17]	[9.4; 22.9]	[8.6; 21.0]	[0.88; 1.06]	[0.87; 1.11]	[-0.10; 0.14]
Georgia	1.14 [0.92; 1.32]	1.18 [0.97; 1.38]	0.04 [-0.09; 0.19]	1.1 [1.0; 1.3]	1.0 [0.8; 1.1]	1.01 [0.87; 1.26]	1.01 [0.87; 1.24]	0.00 [-0.13; 0.12]
Germany	1.24 [1.19; 1.28]	1.14 [1.08; 1.21]	-0.10 [-0.17; -0.01]†	0.6	0.5 [0.5; 0.5]	0.97 [0.94; 1.01]	1.05 [0.99; 1.11]	0.08 [0.01; 0.15]†
Ghana	1.06 [1.00; 1.13]	1.19 [1.08; 1.31]	0.13 [0.00; 0.25]†	12.8 [8.2; 19.8]	10.8 [7.0; 16.7]	0.95 [0.89; 1.01]	0.92 [0.82; 1.03]	-0.03 [-0.13; 0.09]
Greece	1.17	1.13	-0.03	0.5	0.4	1.03	1.07	0.04
Grenada	[1.10; 1.24]	[1.03; 1.23]	[-0.15; 0.07]	[0.4; 0.5]	[0.4; 0.5]	[0.97; 1.09]	[0.98; 1.17]	[-0.06; 0.14] -0.01
Guatemala¶	[1.06; 1.33] 0.96	[1.07; 1.35] 1.13	[-0.12; 0.16] 0.18	[1.6; 2.4]	[1.3; 2.0]	[0.90; 1.13] 1.09	[0.89; 1.12] 1.05	[-0.13; 0.11] -0.03
-	[0.88; 1.03]	[1.02; 1.26] 1.04	[0.07; 0.31]† 0.04	[2.5; 6.0] 38.0	[2.2; 5.2] 36.6	[1.00; 1.18]* 1.01	[0.95; 1.18] 0.97	[-0.15; 0.09] -0.04
Guinea	[0.94; 1.05]	[0.95; 1.14]	[-0.06; 0.16] 0.03	[28.6; 50.8] 26.4	[28.0; 48.3] 24.7	[0.96; 1.07]	[0.88; 1.07]	[-0.14; 0.06] 0.00
Guinea-Bissau	[0.96; 1.14]	[0.97; 1.20]	[-0.09; 0.16]	[11.7; 51.0]	[10.9; 47.6]	[0.88; 1.05]	[0.85; 1.08]	[-0.12; 0.12]
Guyana	1.13 [1.01; 1.27]	1.29 [1.13; 1.47]	0.15 [0.01; 0.30]†	5.1 [2.5; 11.6]	4.0 [2.0; 9.1]	0.94 [0.83; 1.06]	0.92 [0.79; 1.05]	-0.02 [-0.14; 0.10]
Haiti	1.03 [0.96; 1.11]	1.11 [1.00; 1.24]	0.08 [-0.03; 0.21]	14.6 [8.5; 25.5]	13.1 [7.7; 22.5]	0.97 [0.91; 1.04]	0.96 [0.85; 1.10]	-0.01 [-0.13; 0.12]
Honduras	1.07 [0.97; 1.18]	1.17	0.10	2.5 [1.9; 3.7]	2.2 [1.6; 3.1]	1.00	1.03 [0.91; 1.15]	0.02 [-0.09; 0.14]
Hungary	1.25	1.17	-0.07	0.7	0.6	0.96	1.03	0.06
Iceland	[1.18; 1.32]	[1.07; 1.28]	[-0.19; 0.04]	0.6	0.5	[0.91; 1.02] 1.09	[0.94; 1.12]	[-0.03; 0.16]
¶: Sex ratio is outlying in 1990. §: Sex	[0.97; 1.25] ratio is outlying in	[0.98; 1.26] n 2021. *: The ra	[-0.12; 0.14] tio of estimated to e	[0.4; 0.7] xpected female mo	0.4; 0.7] ortality is significantly diff	[0.96; 1.24] erent from one. †:	[0.95; 1.23] Change is signific	[-0.14; 0.12] antly different from zero.

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

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	1990	Sex ratio CMI 2021	R Change	Sex-specific Cl Male	MR in 2021 (per 1,000) Female	1990	imated/Expected 2021	female CMR Change
	0.72	0.82	1990-2021 0.09	4.7	5.8	1.40	1.47	1990–2021 0.07
India¶§	[0.70; 0.75]	[0.76; 0.88]	[0.03; 0.16]†	[4.1; 5.5]	[5.0; 6.7]	[1.35; 1.45]*	[1.36; 1.58]*	[-0.05; 0.19]
Indonesia	1.01 [0.96; 1.07]	1.17 [1.06; 1.30]	0.16 [0.05; 0.29]†	3.6 [2.7; 5.2]	3.1 [2.3; 4.4]	1.02 [0.96; 1.08]	1.02 [0.92; 1.13]	0.00 [-0.10; 0.12]
Iran (Islamic Republic of)¶	0.87 [0.79; 0.95]	1.02 [0.88; 1.15]	0.15 [0.03; 0.26]†	1.8 [1.0; 3.4]	1.8 [1.0; 3.4]	1.26 [1.15; 1.38]*	1.19 [1.04; 1.37]*	-0.07 [-0.20; 0.08]
Iraq	1.09 [0.99; 1.21]	1.19 [1.07; 1.35]	0.10 [-0.02; 0.24]	4.2 [2.8; 6.4]	3.5 [2.3; 5.3]	0.99 [0.90; 1.10]	1.00 [0.89; 1.12]	0.00 [-0.11; 0.12]
Ireland	1.24	1.21	-0.03	0.4	0.4	0.97	0.99	0.02
Israel	[1.16; 1.32] 1.10	[1.10; 1.35] 1.17	[-0.15; 0.11] 0.06	[0.4; 0.5]	[0.3; 0.4]	[0.91; 1.03] 1.09	[0.89; 1.09]	[-0.08; 0.13] -0.06
	[1.05; 1.16] 1.13	[1.09; 1.26] 1.18	[-0.03; 0.17] 0.05	[0.7; 0.8] 0.4	[0.6; 0.7]	[1.03; 1.15]* 1.06	[0.96; 1.11] 1.01	[-0.15; 0.03] -0.05
Italy	[1.09; 1.18] 1.28	[1.10; 1.27] 1.27	[-0.04; 0.15] -0.01	[0.4; 0.4]	[0.3; 0.4]	[1.02; 1.11]* 0.94	[0.95; 1.09] 0.95	[-0.13; 0.04] 0.01
Jamaica	[1.12; 1.48]	[1.11; 1.48]	[-0.16; 0.14]	[1.0; 4.3]	[0.8; 3.4]	[0.81; 1.07]	[0.81; 1.08]	[-0.10; 0.12]
Japan	1.29 [1.25; 1.33]	1.13 [1.06; 1.20]	-0.16 [-0.24; -0.09]†	0.6 [0.6; 0.6]	0.5 [0.5; 0.6]	0.93 [0.90; 0.96]*	1.07 [1.01; 1.13]*	0.14 [0.07; 0.21]†
Jordan	1.11 [1.01; 1.21]	1.17 [1.05; 1.29]	0.06 [-0.07; 0.19]	2.2 [1.6; 3.4]	1.9 [1.3; 2.9]	1.05 [0.96; 1.16]	1.03 [0.93; 1.15]	-0.02 [-0.14; 0.10]
Kazakhstan	1.17 [1.03; 1.32]	1.23 [1.08; 1.41]	0.06 [-0.08; 0.20]	1.3 [1.2; 1.3]	1.0 [0.9; 1.1]	0.97 [0.85; 1.11]	0.98 [0.85; 1.11]	0.01 [-0.11; 0.13]
Kenya	1.05	1.13	0.08	10.0	8.8	0.96	0.99	0.03
Kiribati	[0.99; 1.12] 1.02	[1.03; 1.25] 1.11	[-0.03; 0.20] 0.10	[7.3; 13.8] 10.9	[6.5; 12.2] 9.8	[0.90; 1.02] 1.00	[0.89; 1.10] 1.00	[-0.08; 0.14] 0.00
Democratic People's Republic of	[0.89; 1.17]	[0.96; 1.29]	[-0.03; 0.22] 0.09	[4.3; 27.5] 5.8	[3.8; 24.5]	[0.87; 1.16] 1.00	[0.83; 1.18] 0.99	[-0.15; 0.15] 0.00
Korea	[0.95; 1.30] 1.18	[1.02; 1.39] 1.19	[-0.05; 0.22] 0.00	[4.5; 7.5] 0.5	[3.7; 6.3]	[0.85; 1.17] 1.02	[0.85; 1.17] 1.01	[-0.13; 0.12] 0.00
Republic of Korea	[1.09; 1.29]	[1.11; 1.27]	[-0.12; 0.13]	[0.4; 0.5]	[0.4; 0.4]	[0.94; 1.11]	[0.94; 1.08]	[-0.11; 0.10]
Kosovo	0.92 [0.75; 1.07]	1.00 [0.85; 1.16]	0.08 [-0.01; 0.20]	0.9 [0.8; 1.1]	0.9 [0.8; 1.1]	1.14 [0.98; 1.44]	1.18 [1.03; 1.42]*	0.04 [-0.12; 0.17]
Kuwait	1.14 [1.09; 1.20]	1.21 [1.11; 1.32]	0.07 [-0.04; 0.17]	1.4 [1.2; 1.5]	1.1 [1.0; 1.3]	0.99 [0.94; 1.04]	0.99 [0.91; 1.08]	0.00 [-0.08; 0.10]
Kyrgyzstan	1.11 [0.99; 1.28]	1.22 [1.07; 1.40]	0.11 [-0.03; 0.24]	2.1 [1.9; 2.2]	1.7 [1.5; 1.8]	0.98 [0.85; 1.12]	0.98 [0.86; 1.12]	0.00 [-0.12; 0.12]
Lao People's Democratic Republic	1.01	1.14	0.13	9.1	8.0	1.00	1.00	0.00
Latvia	[0.91; 1.11] 1.29	[1.01; 1.27] 1.27	[0.00; 0.25]	[5.2; 15.5] 0.6	[4.6; 13.7] 0.5	[0.90; 1.10] 0.93	[0.88; 1.14] 0.94	[-0.12; 0.14] 0.01
	[1.20; 1.38]	[1.15; 1.41] 1.20	[-0.15; 0.13] -0.01	[0.5; 0.7]	[0.4; 0.5]	[0.87; 1.00] 0.98	[0.85; 1.05]	[-0.09; 0.11] 0.01
Lebanon	[1.07; 1.38] 1.10	[1.07; 1.40] 1.11	[-0.13; 0.15] 0.01	[1.1; 1.6] 17.9	[0.9; 1.3]	[0.85; 1.11] 0.95	[0.86; 1.12] 0.95	[-0.11; 0.13] 0.00
Lesotho	[0.99; 1.22]	[0.99; 1.25]	[-0.12; 0.14]	[10.6; 31.0]	[9.5; 28.1]	[0.85; 1.06]	[0.83; 1.08]	[-0.12; 0.13]
Liberia	1.05 [0.98; 1.13]	1.07 [0.96; 1.18]	0.01 [-0.10; 0.13]	21.1 [13.2; 33.2]	19.8 [12.6; 30.7]	0.96 [0.89; 1.02]	0.98 [0.87; 1.09]	0.02 [-0.09; 0.14]
Libya	1.05 [0.91; 1.18]	1.09 [0.93; 1.27]	0.04 [-0.07; 0.18]	1.6 [0.9; 2.9]	1.5 [0.8; 2.6]	1.12 [0.99; 1.30]	1.09 [0.95; 1.28]	-0.03 [-0.16; 0.11]
Lithuania	1.29 [1.22; 1.36]	1.26 [1.15; 1.38]	-0.03 [-0.16; 0.10]	0.7	0.5 [0.5; 0.6]	0.93 [0.88; 0.99]*	0.96 [0.87; 1.05]	0.02 [-0.07; 0.12]
Luxembourg	1.22 [1.09; 1.37]	1.24 [1.10; 1.39]	0.02	0.6	0.4	0.98 [0.87; 1.10]	0.97	-0.01 [-0.13; 0.10]
Macedonia	1.07	1.24	0.17	0.7	0.6	1.12	0.97	-0.15
	[1.01; 1.14] 1.05	[1.15; 1.34] 1.08	[0.06; 0.28]† 0.03	[0.6; 0.9] 22.6	[0.5; 0.8] 20.9	[1.05; 1.19]* 0.96	[0.90; 1.04] 0.95	[-0.24; -0.06]† -0.01
Madagascar	[0.99; 1.11] 1.09	[0.98; 1.20] 1.19	[-0.07; 0.15] 0.10	[17.5; 29.4] 11.9	[16.1; 27.2] 10.1	[0.90; 1.02] 0.92	[0.86; 1.06] 0.92	[-0.11; 0.10] 0.00
Malawi¶	[1.04; 1.15] 1.17	[1.09; 1.31] 1.16	[-0.01; 0.23] -0.01	[6.2; 23.8] 1.2	[5.1; 19.9] 1.0	[0.87; 0.97]* 1.03	[0.82; 1.04]	[-0.11; 0.12] 0.01
Malaysia	[1.04; 1.31]	[1.05; 1.28]	[-0.14; 0.13]	[1.1; 1.3]	[0.9; 1.1]	[0.92; 1.15]	[0.94; 1.14]	[-0.11; 0.12]
Maldives	1.01 [0.90; 1.15]	1.18 [1.04; 1.34]	0.17 [0.03; 0.30]†	0.9 [0.8; 1.1]	0.8 [0.7; 1.0]	1.01 [0.89; 1.14]	1.02 [0.90; 1.15]	0.00 [-0.12; 0.13]
Mali	1.01 [0.97; 1.06]	1.00 [0.92; 1.10]	-0.01 [-0.10; 0.09]	37.9 [26.8; 52.8]	37.7 [26.6; 52.4]	0.99 [0.95; 1.04]	1.00 [0.92; 1.10]	0.01 [-0.09; 0.11]
Malta	1.15 [1.03; 1.28]	1.17 [1.03; 1.32]	0.02 [-0.11; 0.15]	0.8	0.7 [0.6; 0.8]	1.04 [0.94; 1.17]	1.03 [0.91; 1.16]	-0.01 [-0.13; 0.11]
Marshall Islands	1.09	1.16	0.08	5.4	4.7	1.02	1.00	-0.02
Mauritania	[0.94; 1.25]	[1.01; 1.35]	[-0.05; 0.22] 0.14	[2.7; 12.2] 9.3	[2.3; 10.4] 7.8	[0.88; 1.19] 0.96	[0.86; 1.17] 0.95	[-0.17; 0.12] -0.01
	[0.96; 1.14] 1.10	[1.07; 1.32] 1.11	[0.01; 0.26]† 0.01	[5.5; 15.2] 1.4	[4.6; 12.8]	[0.88; 1.05] 1.08	[0.84; 1.07] 1.08	[-0.12; 0.11] 0.00
Mauritius	[1.03; 1.19] 1.05	[1.00; 1.22] 1.14	[-0.11; 0.12] 0.09	[1.2; 1.7] 2.0	[1.0; 1.5] 1.7	[1.01; 1.17]* 1.07	[0.98; 1.20] 1.06	[-0.11; 0.12] -0.01
Mexico	[0.96; 1.15]	[1.07; 1.21]	[-0.02; 0.20]	[1.7; 2.3]	[1.5; 2.1]	[0.97; 1.17]	[0.99; 1.12]	[-0.13; 0.10]
Republic of Moldova	1.18 [1.02; 1.36]	1.20 [1.04; 1.39]	0.03 [-0.11; 0.17]	2.2 [1.6; 3.3]	1.8 [1.3; 2.8]	1.00 [0.86; 1.15]	1.00 [0.87; 1.15]	0.00 [-0.12; 0.13]
Monaco	1.25 [1.16; 1.34]	1.24 [1.14; 1.37]	-0.01 [-0.14; 0.13]	2.2 [1.4; 3.4]	1.7 [1.1; 2.8]	0.96 [0.89; 1.03]	0.96 [0.87; 1.06]	0.00 [-0.10; 0.11]
Mongolia	1.07 [0.97; 1.17]	1.20 [1.11; 1.29]	0.13 [0.01; 0.25]†	2.3 [2.1; 2.5]	1.9 [1.7; 2.1]	0.95 [0.86; 1.05]	1.00 [0.93; 1.08]	0.05 [-0.05; 0.15]
Montenegro	1.16	1.18	0.03	0.4	0.3	1.04	1.02	-0.02
Montserrat	[1.01; 1.33]	[1.04; 1.35]	[-0.11; 0.16]	[0.3; 0.5]	[0.3; 0.4]	[0.90; 1.19]	[0.89; 1.16]	[-0.14; 0.10] -0.03
Morocco	[0.94; 1.15] 0.97	[0.94; 1.21] 1.12	[-0.09; 0.15] 0.15	[0.3; 2.1]	[0.3; 1.9]	[1.04; 1.27]* 1.08	[0.99; 1.29] 1.07	[-0.16; 0.11] -0.02
	[0.90; 1.05] 1.06	[1.00; 1.27] 1.07	[0.04; 0.29]† 0.02	[1.9; 3.9] 20.2	[1.7; 3.5] 18.8	[1.00; 1.18] 0.95	[0.95; 1.19] 0.97	[-0.14; 0.10] 0.02
Mozambique	[0.99; 1.13]	[0.98; 1.19]	[-0.10; 0.13] 0.13	[10.8; 38.5] 8.8	[10.2; 35.7] 7.8	[0.89; 1.01] 1.01	[0.87; 1.09]	[-0.09; 0.15] -0.01
Myanmar	[0.90; 1.11]	[0.99; 1.27]	[0.00; 0.26]†	[4.5; 16.7]	[4.1; 14.5]	[0.90; 1.13]	[0.87; 1.17]	[-0.14; 0.14]
Namibia	1.08 [0.98; 1.19]	1.16 [1.04; 1.31]	0.08 [-0.04; 0.21]	10.7 [5.0; 28.7]	9.2 [4.2; 24.5]	0.95 [0.86; 1.04]	0.95 [0.82; 1.10]	0.01 [-0.13; 0.15]
¶: Sex ratio is outlying in 1990. §: Sex								

¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

	Table 14 – continued from previous page									
	1990	Sex ratio CM 2021	Change	Male Male	MR in 2021 (per 1,000) Female	1990	imated/Expected	Change		
	1.06	1.19	1990–2021 0.14	4.9	4.1	1.00	0.98	1990–2021 -0.02		
Nauru	[0.91; 1.23]	[1.03; 1.40]	[0.01; 0.28]†	[2.1; 13.1]	[1.8; 10.9]	[0.85; 1.18]	[0.83; 1.15]	[-0.16; 0.12]		
Nepal¶	0.80 [0.75; 0.86]	1.00 [0.90; 1.12]	0.20 [0.09; 0.31]†	4.5 [3.1; 6.6]	4.5 [3.1; 6.6]	1.25 [1.17; 1.34]*	1.19 [1.06; 1.34]*	-0.06 [-0.19; 0.08]		
Netherlands	1.25 [1.19; 1.31]	1.25 [1.15; 1.35]	0.00 [-0.12; 0.11]	0.6 [0.6; 0.6]	0.5 [0.5; 0.5]	0.96 [0.91; 1.01]	0.97 [0.89; 1.04]	0.01 [-0.08; 0.10]		
New Zealand	1.27 [1.20; 1.36]	1.20 [1.09; 1.32]	-0.07 [-0.20; 0.05]	0.9 [0.8; 1.0]	0.7 [0.6; 0.8]	0.94 [0.88; 1.00]	1.00 [0.91; 1.10]	0.06 [-0.04; 0.17]		
Nicaragua	1.08	1.21 [1.08; 1.36]	0.13	2.0 [1.8; 2.4]	1.7 [1.4; 2.0]	0.98	0.99	0.01 [-0.10; 0.13]		
Niger¶	0.97	0.98	0.02	58.6	59.7	1.04	1.02	-0.02		
Nigeria	[0.93; 1.01]	[0.90; 1.08] 1.01	[-0.07; 0.12] -0.02	[43.0; 79.7] 43.5	[43.8; 81.1] 43.0	[1.00; 1.09]* 0.97	[0.93; 1.12] 1.00	[-0.12; 0.08] 0.03		
-	[0.99; 1.08]	[0.94; 1.09]	[-0.11; 0.06] -0.02	[29.1; 65.5] 4.1	[29.0; 64.9] 3.5	[0.92; 1.02] 1.00	[0.93; 1.08] 0.98	[-0.06; 0.12] -0.02		
Niue	[1.03; 1.40] 1.29	[1.03; 1.40] 1.23	[-0.14; 0.15] -0.06	[1.6; 14.7] 0.4	[1.3; 12.2] 0.4	[0.86; 1.16]	[0.82; 1.15] 0.97	[-0.16; 0.11] 0.04		
Norway	[1.20; 1.39]	[1.12; 1.37]	[-0.19; 0.08] 0.09	[0.4; 0.5]	[0.3; 0.4]	[0.86; 1.00]*	[0.88; 1.07]	[-0.06; 0.15] -0.04		
Oman	1.04 [0.88; 1.19]	1.13 [0.94; 1.30]	[-0.04; 0.21]	1.5 [1.3; 1.7]	1.4 [1.2; 1.6]	1.10 [0.96; 1.32]	[0.93; 1.28]	[-0.17; 0.09]		
Pakistan¶§	0.84 [0.79; 0.90]	0.93 [0.84; 1.04]	0.09 [-0.01; 0.19]	10.7 [7.5; 15.2]	11.5 [8.0; 16.3]	1.20 [1.12; 1.29]*	1.19 [1.06; 1.35]*	-0.01 [-0.15; 0.14]		
Palau	1.21 [1.04; 1.39]	1.20 [1.04; 1.40]	0.00 [-0.14; 0.15]	1.2	1.0 [0.5; 2.2]	0.98 [0.85; 1.14]	1.00 [0.86; 1.15]	0.01 [-0.11; 0.13]		
Panama	1.19 [1.05; 1.37]	1.21 [1.05; 1.38]	0.02 [-0.13; 0.15]	2.1 [1.1; 5.1]	1.8 [0.9; 4.2]	0.99 [0.86; 1.13]	0.99 [0.87; 1.14]	0.00 [-0.11; 0.12]		
Papua New Guinea	1.04	1.13	0.09	9.2	8.1	0.99	0.99	0.01		
Paraguay	[0.92; 1.18]	[1.00; 1.29] 1.21	[-0.03; 0.22] 0.11	[5.1; 16.4] 2.9	[4.5; 14.5] 2.4	[0.87; 1.12] 1.01	[0.86; 1.15] 0.99	[-0.12; 0.14] -0.02		
	[0.99; 1.25] 0.97	[1.06; 1.37] 1.20	[-0.04; 0.24] 0.23	[1.4; 8.0] 3.5	[1.2; 6.7]	[0.89; 1.14] 1.05	[0.87; 1.13]	[-0.14; 0.11] -0.06		
Peru	[0.92; 1.03]	[1.09; 1.33] 1.19	[0.12; 0.36]† 0.13	[2.8; 4.5] 5.8	[2.3; 3.7] 4.9	[1.00; 1.12] 1.00	[0.91; 1.10] 0.99	[-0.16; 0.05] 0.00		
Philippines	[0.99; 1.13]	[1.07; 1.32] 1.25	[0.01; 0.26]†	[4.1; 9.6] 0.7	[3.4; 8.0] 0.6	[0.93; 1.07]	[0.88; 1.11]	[-0.12; 0.11] 0.01		
Poland	[1.22; 1.31]	[1.17; 1.33]	[-0.10; 0.08]	[0.7; 0.7]	[0.5; 0.6]	0.95 [0.92; 0.99]*	[0.90; 1.03]	[-0.06; 0.09]		
Portugal	1.30 [1.24; 1.36]	1.25 [1.14; 1.36]	-0.05 [-0.17; 0.07]	0.6 [0.6; 0.7]	0.5 [0.4; 0.5]	0.92 [0.88; 0.97]*	0.96 [0.89; 1.05]	0.04 [-0.05; 0.14]		
Qatar	1.15 [1.02; 1.29]	1.15 [1.02; 1.30]	-0.01 [-0.12; 0.14]	0.8 [0.7; 0.9]	0.7 [0.6; 0.8]	1.04 [0.93; 1.18]	1.04 [0.93; 1.18]	0.00 [-0.12; 0.11]		
Romania	1.16 [1.13; 1.20]	1.15 [1.08; 1.23]	-0.01 [-0.09; 0.07]	1.3 [1.2; 1.3]	1.1 [1.0; 1.2]	0.99 [0.97; 1.02]	1.04 [0.98; 1.11]	0.05 [-0.03; 0.12]		
Russian Federation	1.30	1.23	-0.07	1.1	0.9	0.92	0.98	0.06		
Rwanda¶	[1.27; 1.33] 1.09	[1.17; 1.29] 1.12	[-0.14; -0.01]† 0.03	[1.0; 1.1] 10.6	[0.8; 0.9] 9.5	[0.90; 0.94]* 0.92	[0.93; 1.03] 0.98	[0.01; 0.11]† 0.06		
Saint Kitts and Nevis	[1.03; 1.15] 1.18	[1.02; 1.25] 1.19	[-0.08; 0.16] 0.01	[5.3; 23.2] 2.5	[4.8; 20.0]	[0.87; 0.97]* 1.01	[0.86; 1.12] 1.00	[-0.06; 0.20] 0.00		
	[1.03; 1.36] 1.20	[1.03; 1.38] 1.20	[-0.13; 0.15] 0.00	[1.7; 3.9]	[1.4; 3.3] 2.2	[0.87; 1.17] 1.01	[0.87; 1.17] 1.01	[-0.12; 0.12] 0.00		
Saint Lucia	[1.08; 1.33] 1.16	[1.06; 1.34] 1.16	[-0.14; 0.13] 0.00	[2.2; 3.1] 2.6	[1.9; 2.6]	[0.90; 1.11] 1.03	[0.90; 1.13] 1.03	[-0.11; 0.12] 0.00		
Samoa	[1.02; 1.32]	[1.02; 1.32]	[-0.13; 0.13]	[1.7; 4.0]	[1.5; 3.5]	[0.90; 1.17]	[0.91; 1.18]	[-0.12; 0.12]		
San Marino	1.32 [1.18; 1.51]	1.32 [1.15; 1.51]	0.00 [-0.17; 0.13]	0.2 [0.1; 0.4]	0.2 [0.1; 0.3]	0.91 [0.80; 1.02]	0.92 [0.80; 1.04]	0.01 [-0.09; 0.12]		
Sao Tome and Principe	0.99 [0.88; 1.11]	1.19 [1.04; 1.34]	0.20 [0.06; 0.33]†	3.6 [2.1; 6.1]	3.0 [1.8; 5.2]	1.02 [0.91; 1.15]	1.02 [0.89; 1.16]	0.00 [-0.12; 0.12]		
Saudi Arabia	0.96 [0.79; 1.12]	1.04 [0.85; 1.20]	0.08 [-0.05; 0.19]	1.0 [0.7; 1.4]	1.0 [0.7; 1.3]	1.17 [1.00; 1.45]	1.16 [1.00; 1.41]*	-0.01 [-0.17; 0.13]		
Senegal¶	1.05 [1.01; 1.10]	1.10 [1.01; 1.21]	0.04 [-0.06; 0.16]	10.2 [5.9; 16.8]	9.3 [5.4; 15.2]	0.95 [0.91; 1.00]*	1.01 [0.91; 1.13]	0.06 [-0.05; 0.18]		
Serbia	1.09	1.13	0.04	0.8	0.7	1.10	1.06	-0.04		
Seychelles	[1.04; 1.14]	[1.04; 1.25] 1.18	[-0.06; 0.16] 0.01	[0.7; 0.9]	[0.6; 0.8]	[1.05; 1.15]* 1.02	[0.96; 1.16] 1.01	[-0.14; 0.06] -0.01		
Sierra Leone	[1.04; 1.31] 1.05	[1.04; 1.34] 1.05	[-0.12; 0.15] 0.00	[1.6; 2.9] 29.5	[1.4; 2.4] 27.9	[0.91; 1.16] 0.95	[0.90; 1.16] 0.96	[-0.13; 0.11] 0.01		
	[0.98; 1.14]	[0.96; 1.16] 1.15	[-0.11; 0.12] 0.02	[20.5; 42.2] 0.4	[19.7; 39.5] 0.3	[0.89; 1.02]	[0.88; 1.06] 1.04	[-0.09; 0.12] -0.02		
Singapore	[1.05; 1.21] 1.17	[1.04; 1.28] 1.22	[-0.10; 0.16] 0.04	[0.3; 0.5] 1.1	[0.3; 0.4] 0.9	[0.99; 1.14] 1.02	[0.94; 1.15] 0.99	[-0.13; 0.09] -0.04		
Slovakia	[1.10; 1.25]	[1.11; 1.32]	[-0.07; 0.16]	[1.0; 1.2]	[0.8; 1.0]	[0.96; 1.09]	[0.91; 1.08]	[-0.13; 0.06]		
Slovenia	1.21 [1.09; 1.33]	1.18 [1.06; 1.32]	-0.03 [-0.15; 0.10]	0.5 [0.4; 0.5]	0.4 [0.3; 0.5]	0.99 [0.91; 1.10]	1.02 [0.91; 1.14]	0.02 [-0.09; 0.13]		
Solomon Islands	1.15 [1.00; 1.32]	1.20 [1.04; 1.37]	0.05 [-0.09; 0.19]	3.0 [1.8; 5.5]	2.5 [1.5; 4.6]	1.00 [0.87; 1.17]	1.00 [0.87; 1.16]	0.00 [-0.13; 0.12]		
Somalia	1.03 [0.92; 1.16]	1.02 [0.90; 1.16]	-0.01 [-0.13; 0.11]	43.9 [14.9; 120.3]	43.1 [14.5; 117.1]	0.97 [0.87; 1.09]	0.99 [0.87; 1.14]	0.02 [-0.10; 0.15]		
South Africa	1.12 [1.03; 1.22]	1.18	0.06	7.1 [6.3; 8.1]	6.0 [5.3; 6.8]	0.95	0.98	0.03 [-0.07; 0.13]		
South Sudan	0.98	0.99	0.02	37.3	37.6	1.03	1.04	0.01		
Spain	[0.85; 1.12]	[0.85; 1.14]	[-0.11; 0.13]	[8.1; 107.5] 0.5	[8.3; 109.6] 0.4	[0.90; 1.19]	[0.89; 1.24]	[-0.12; 0.17] 0.02		
Sri Lanka	[1.17; 1.27] 1.00	[1.13; 1.29] 1.18	[-0.12; 0.08] 0.17	[0.5; 0.6]	[0.4; 0.5]	[0.94; 1.02] 1.20	[0.93; 1.07] 1.03	[-0.06; 0.10] -0.17		
	[0.97; 1.04] 1.19	[1.09; 1.26] 1.19	[0.08; 0.26]† 0.00	[0.8; 1.4] 1.3	[0.7; 1.2] 1.1	[1.16; 1.24]* 1.01	[0.95; 1.11] 1.00	[-0.26; -0.08]† 0.00		
Saint Vincent and the Grenadines	[1.08; 1.32] 1.13	[1.06; 1.34] 1.26	[-0.13; 0.14] 0.13	[0.9; 1.7] 2.3	[0.8; 1.5] 1.9	[0.91; 1.12] 0.99	[0.89; 1.13] 0.95	[-0.12; 0.12] -0.04		
State of Palestine	[1.03; 1.24] 1.01	[1.14; 1.40]	[0.00; 0.27]†	[1.7; 3.4] 17.1	[1.3; 2.7] 16.1	[0.90; 1.09]	[0.85; 1.06]	[-0.15; 0.07] 0.00		
Sudan	[0.94; 1.08]	[0.95; 1.19]	[-0.06; 0.18]	[9.2; 30.0]	[8.9; 27.3]	[0.93; 1.08]	[0.88; 1.14]	[-0.12; 0.14]		
Suriname	1.15 [1.00; 1.35]	1.20 [1.03; 1.39]	0.05 [-0.10; 0.18]	2.0 [1.3; 3.6]	1.7 [1.1; 3.0]	1.01 [0.86; 1.18]	1.00 [0.86; 1.16]	-0.01 [-0.13; 0.12]		
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	n 2021. *: The ra	tio of estimated to e	xpected female mo	ortality is significantly diff	erent from one. †:	Change is signific	antly different from zero.		

Table 14 – continued from previous page

	Table 14 – continued from previous page Sex ratio CMR Sex-specific CMR in 2021 (per 1,000) Estimated/Expected female CM							
	1990	2021	Change	Male	Female	1990	2021	Change
			1990-2021					1990-2021
Eswatini	1.05	1.10	0.04	12.1	11.0	1.00	1.00	0.01
	[0.94; 1.18]	[0.96; 1.23]	[-0.10; 0.17]	[5.7; 25.6]	[5.4; 22.7]	[0.89; 1.12]	[0.86; 1.18]	[-0.14; 0.17]
Sweden	1.22 [1.14; 1.30]	1.18	-0.04 [-0.16; 0.08]	0.5	0.4	0.99 [0.92; 1.05]	1.02 [0.93; 1.11]	0.04 [-0.07; 0.14]
0.5.1.1	1.27	1.22	-0.05	0.5	0.4	0.95	0.98	0.03
Switzerland	[1.19; 1.35]	[1.12; 1.34]	[-0.17; 0.08]	[0.5; 0.5]	[0.4; 0.4]	[0.89; 1.01]	[0.90; 1.07]	[-0.06; 0.13]
Syria	1.07	1.10	0.03	4.1	3.7	1.08	1.04	-0.04
•	[0.97; 1.18]	[0.99; 1.23]	[-0.08; 0.15] 0.18	[2.0; 6.4]	[1.8; 5.7]	[0.97; 1.22]	[0.94; 1.17] 0.99	[-0.16; 0.07] -0.01
Tajikistan	[0.88; 1.16]	[1.04; 1.37]	[0.04; 0.31]†	[2.2; 9.6]	[1.8; 8.0]	[0.88; 1.18]	[0.86; 1.16]	[-0.14; 0.11]
Tanzania	1.06	1.11	0.04	14.1	12.8	0.94	0.98	0.03
idiizailia	[1.00; 1.13]	[1.00; 1.22]	[-0.07; 0.16]	[7.9; 25.7]	[7.2; 23.0]	[0.89; 1.00]	[0.87; 1.10]	[-0.08; 0.16]
Thailand	1.15	1.19	0.04	1.3	1.1	1.01	1.01	0.00
	[1.03; 1.28]	[1.05; 1.35]	[-0.10; 0.18] 0.11	[1.1; 1.7] 8.3	[0.9; 1.4]	[0.90; 1.13]	[0.89; 1.15] 1.00	[-0.11; 0.13] 0.00
Timor Leste	[0.91; 1.12]	[1.01; 1.28]	[0.01; 0.26]†	[4.5; 15.8]	[3.9; 13.8]	[0.89; 1.11]	[0.87; 1.15]	[-0.13; 0.14]
Togo	1.07	1.08	0.02	20.9	19.3	0.94	0.96	0.02
10g0	[1.00; 1.14]	[0.99; 1.19]	[-0.10; 0.13]	[13.6; 30.9]	[12.5; 28.6]	[0.88; 1.00]	[0.86; 1.07]	[-0.08; 0.13]
Tonga	1.26 [1.10; 1.45]	1.25 [1.10; 1.45]	-0.01 [-0.15; 0.15]	1.8 [1.0; 3.2]	1.4 [0.8; 2.5]	0.96 [0.83; 1.09]	0.96 [0.83; 1.09]	0.00 [-0.12; 0.11]
	1.11	1.11	0.00	1.9	1.7	1.08	1.06	-0.02
Trinidad and Tobago	[0.95; 1.27]	[0.96; 1.30]	[-0.11; 0.15]	[0.8; 6.1]	[0.7; 5.5]	[0.95; 1.27]	[0.92; 1.25]	[-0.15; 0.11]
Tunisia¶	0.97	1.12	0.14	2.4	2.2	1.12	1.07	-0.05
Tunisia	[0.89; 1.06]	[1.03; 1.21]	[0.03; 0.25]†	[2.0; 3.0]	[1.8; 2.7]	[1.02; 1.24]*	[0.99; 1.17]	[-0.17; 0.07]
Turkey¶	0.95 [0.88; 1.03]	1.12 [1.06; 1.18]	0.16 [0.07; 0.26]†	1.4 [1.2; 1.6]	1.2 [1.1; 1.4]	1.10 [1.01; 1.19]*	1.08 [1.02; 1.13]*	-0.02 [-0.13; 0.08]
	1.12	1.24	0.12	6.4	5.1	0.95	0.95	0.00
Turkmenistan	[0.98; 1.27]	[1.08; 1.43]	[-0.02; 0.26]	[3.5; 12.2]	[2.8; 9.8]	[0.83; 1.08]	[0.80; 1.09]	[-0.13; 0.12]
Turks and Caicos Islands	1.25	1.77	0.52	0.8	0.5	0.96	0.70	-0.26
	[1.16; 1.35]	[1.56; 1.90]	[0.31; 0.65]† 0.11	[0.5; 1.4]	[0.3; 0.8]	[0.89; 1.04]	[0.63; 0.77]*	[-0.35; -0.18]†
Tuvalu	0.92 [0.68; 1.11]	1.03 [0.75; 1.24]	[-0.01; 0.23]	3.2 [1.7; 7.2]	3.1 [1.6; 7.0]	[0.98; 1.66]	1.13 [0.96; 1.60]	-0.03 [-0.19; 0.12]
II J. me	1.16	1.26	0.10	12.6	10.0	0.87	0.88	0.01
Uganda¶§	[1.10; 1.23]	[1.13; 1.37]	[-0.03; 0.22]	[7.4; 21.4]	[5.9; 17.1]	[0.82; 0.92]*	[0.78; 0.98]*	[-0.10; 0.12]
Ukraine	1.13	1.15	0.02	1.3	1.1	1.05	1.04	-0.01
	[0.98; 1.31]	[0.98; 1.33]	[-0.12; 0.15] 0.00	[1.2; 1.4] 1.0	[1.0; 1.2] 0.8	[0.92; 1.22] 1.00	[0.91; 1.22]	[-0.14; 0.11] 0.00
United Arab Emirates	[1.09; 1.35]	[1.10; 1.34]	[-0.14; 0.14]	[0.9; 1.2]	[0.7; 1.0]	[0.89; 1.11]	[0.90; 1.10]	[-0.12; 0.11]
United Kingdom	1.21	1.17	-0.04	0.6	0.5	0.99	1.03	0.04
Onited Kingdom	[1.17; 1.25]	[1.10; 1.24]	[-0.13; 0.05]	[0.5; 0.6]	[0.5; 0.5]	[0.96; 1.03]	[0.97; 1.10]	[-0.04; 0.11]
United States of America	1.25	1.25	0.00	1.0	0.8	0.96	0.96	0.00
	[1.22; 1.28]	[1.19; 1.32] 1.16	[-0.06; 0.07] 0.02	[0.9; 1.0]	[0.7; 0.8]	[0.94; 0.98]*	[0.91; 1.01] 1.04	[-0.05; 0.05] -0.02
Uruguay	[1.08; 1.21]	[1.06; 1.26]	[-0.09; 0.13]	[0.8; 1.0]	[0.7; 0.9]	[0.99; 1.12]	[0.95; 1.13]	[-0.12; 0.09]
Uzbekistan	1.09	1.20	0.11	1.6	1.4	1.00	1.00	0.00
Ozbekistan	[0.95; 1.24]	[1.05; 1.38]	[-0.01; 0.26]	[1.5; 1.9]	[1.2; 1.6]	[0.87; 1.14]	[0.87; 1.15]	[-0.12; 0.12]
Vanuatu	1.14 [0.98; 1.31]	1.19 [1.02; 1.36]	0.04 [-0.09; 0.18]	3.9 [2.0; 9.1]	3.3 [1.7; 7.6]	1.02 [0.88; 1.19]	1.01 [0.87; 1.17]	-0.01 [-0.15; 0.12]
	1.11	1.11	0.00	3.4	3.1	1.08	1.05	-0.03
Venezuela (Bolivarian Republic of)	[1.07; 1.15]	[1.03; 1.21]	[-0.09; 0.11]	[2.4; 5.1]	[2.2; 4.6]	[1.04; 1.11]*	[0.96; 1.14]	[-0.12; 0.07]
Vietnam¶§	1.52	1.97	0.45	5.6	2.8	0.69	0.60	-0.08
	[1.37; 1.69]	[1.73; 2.22]	[0.23; 0.66]†	[5.0; 6.3]	[2.5; 3.3]	[0.62; 0.77]*	[0.54; 0.69]*	[-0.16; -0.01]†
Yemen¶	0.93 [0.87; 0.98]	1.01 [0.89; 1.13]	0.08 [-0.04; 0.20]	16.1 [4.9; 47.5]	16.0 [5.3; 44.5]	1.09 [1.02; 1.16]*	1.06 [0.92; 1.25]	-0.03 [-0.17; 0.16]
7 1 6	1.06	1.16	0.10	19.5	16.9	0.95	0.91	-0.04
Zambia¶	[1.01; 1.11]	[1.06; 1.27]	[-0.01; 0.22]	[11.6; 31.3]	[10.0; 27.2]	[0.90; 1.00]*	[0.82; 1.00]	[-0.14; 0.06]
Zimbabwe	1.04	1.10	0.06	15.0	13.6	0.97	0.97	0.00
	[0.97; 1.13]	[1.00; 1.22]	[-0.06; 0.18]	[8.6; 26.0]	[7.8; 23.6]	[0.90; 1.05]	[0.87; 1.09]	[-0.11; 0.13]

Table 15: Estimates and 90% uncertainty intervals for sex ratios for U5MR in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific U5MR in 2021, and ratios of estimated to expected female U5MR and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio U5M			5MR in 2021 (per 1,000)		nated/Expected fe	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World¶8	1.06	1.13	0.07	40.3	35.7	1.06	1.03	-0.03
	[1.05; 1.07] 0.97	[1.11; 1.15] 1.05	[0.05; 0.09]† 0.08	[37.4; 43.8]	[33.1; 39.0]	[1.05; 1.07]* 1.16	[1.01; 1.05]* 1.16	[-0.06; -0.01]† 0.00
South Asia¶§	[0.95; 0.99]	[1.01; 1.09]	[0.04; 0.12]†	[34.6; 41.7]	[33.0; 39.8]	[1.13; 1.18]*	[1.11; 1.20]*	[-0.05; 0.05]
Europe and Central Asia	1.21 [1.19; 1.23]	1.24 [1.21; 1.27]	0.03 [0.00; 0.06]†	8.4 [7.9; 9.3]	6.8 [6.4; 7.5]	0.99 [0.97; 1.01]	0.98 [0.96; 1.00]	-0.01 [-0.03; 0.02]
Middle East and North Africa¶	1.07 [1.05; 1.08]	1.16 [1.12; 1.20]	0.10 [0.05; 0.14]†	23.5 [19.0; 32.2]	20.3 [16.4; 27.7]	1.10 [1.08; 1.12]*	1.05 [1.00; 1.09]	-0.05 [-0.10; -0.01]†
Sub-Saharan Africa¶	1.11	1.16	0.05	78.2	67.5	0.98	0.98	0.00
Latin America and Caribbean	[1.10; 1.12] 1.18	[1.13; 1.18] 1.22	[0.02; 0.08]† 0.04	[71.6; 91.8] 17.5	[61.5; 79.7] 14.3	[0.97; 0.99]* 1.00	[0.96; 1.01] 1.00	[-0.02; 0.03] 0.00
	[1.15; 1.22]	[1.19; 1.26] 1.20	[0.00; 0.08]	[16.3; 19.2] 16.0	[13.3; 15.7] 13.3	[0.97; 1.03] 1.05	[0.97; 1.03] 1.01	[-0.03; 0.03] -0.04
East Asia and Pacific¶	[1.08; 1.17] 1.25	[1.16; 1.24] 1.20	[0.02; 0.13]† -0.05	[14.2; 17.7] 6.7	[11.8; 14.7] 5.6	[1.01; 1.09]* 0.97	[0.97; 1.04] 0.99	[-0.09; 0.01] 0.02
North America	[1.24; 1.27]	[1.16; 1.24]	[-0.09; -0.01]†	[6.3; 7.0]	[5.3; 5.9]	[0.96; 0.99]*	[0.96; 1.03]	[-0.01; 0.05]
Afghanistan	1.04 [1.00; 1.09]	1.13 [1.06; 1.21]	0.09 [0.00; 0.18]†	59.1 [43.4; 78.9]	52.2 [38.2; 69.6]	1.05 [1.00; 1.10]	1.05 [0.98; 1.13]	0.00 [-0.08; 0.09]
Albania	1.24 [1.15; 1.32]	1.17 [1.09; 1.24]	-0.07 [-0.18; 0.03]	10.2 [9.3; 11.0]	8.7 [8.0; 9.5]	0.99 [0.92; 1.06]	1.05 [0.99; 1.11]	0.06 [-0.04; 0.15]
Algeria§	1.17	1.16	-0.01	24.0	20.6	1.03	1.06	0.03
Andorra¶	[1.13; 1.22] 1.43	[1.09; 1.24] 1.29	[-0.09; 0.08] -0.15	[21.1; 27.3]	[18.1; 23.5] 2.4	[0.99; 1.07] 0.84	[1.00; 1.13]* 0.93	[-0.04; 0.11] 0.10
-	[1.31; 1.57]	[1.16; 1.45] 1.19	[-0.28; 0.00]† 0.08	[0.8; 11.6] 75.2	[0.6; 9.1] 63.3	[0.76; 0.92]*	[0.82; 1.04]	[0.00; 0.20]
Angola	[1.06; 1.15] 1.09	[1.11; 1.28] 0.99	[-0.01; 0.17] -0.11	[31.7; 148.7] 4.0	[26.9; 125.2] 4.1	[0.93; 1.01] 1.13	[0.89; 1.06] 1.21	[-0.08; 0.09] 0.08
Anguilla¶	[1.03; 1.16]	[0.90; 1.08]	[-0.20; -0.01]†	[1.9; 8.4]	[1.9; 8.6]	[1.06; 1.20]*	[1.10; 1.33]*	[-0.03; 0.20]
Antigua and Barbuda	1.19 [1.10; 1.30]	1.17 [1.06; 1.29]	-0.02 [-0.14; 0.10]	6.6 [4.3; 10.2]	5.6 [3.7; 8.8]	1.03 [0.95; 1.12]	1.02 [0.93; 1.12]	-0.01 [-0.10; 0.10]
Argentina	1.24 [1.22; 1.26]	1.29 [1.24; 1.33]	0.05 [0.00; 0.10]†	7.8 [7.4; 8.2]	6.0 [5.7; 6.4]	1.00 [0.98; 1.02]	0.93 [0.90; 0.97]*	-0.07 [-0.10; -0.03]†
Armenia	1.23 [1.14; 1.32]	1.22 [1.11; 1.34]	0.00 [-0.12; 0.12]	11.8 [9.2; 14.8]	9.6 [7.5; 12.1]	0.99 [0.91; 1.06]	1.00 [0.91; 1.10]	0.02 [-0.08; 0.11]
Australia	1.28	1.20	-0.08	4.0	3.4	0.95	0.99	0.04
	[1.24; 1.31]	[1.14; 1.25] 1.20	[-0.14; -0.01]† -0.05	[3.8; 4.3]	[3.2; 3.6]	[0.93; 0.98]*	[0.95; 1.04] 0.99	[-0.01; 0.09] 0.02
Austria	[1.21; 1.30] 1.13	[1.14; 1.28] 1.21	[-0.13; 0.03] 0.08	[3.6; 4.5] 20.3	[3.0; 3.7] 16.8	[0.93; 1.01] 1.02	[0.93; 1.05] 1.02	[-0.05; 0.09] 0.00
Azerbaijan	[1.07; 1.20]	[1.11; 1.33]	[-0.03; 0.20]	[12.1; 34.5]	[9.9; 28.7]	[0.96; 1.08]	[0.93; 1.12]	[-0.09; 0.11]
Bahamas¶	1.16 [1.10; 1.23]	1.17 [1.08; 1.26]	0.01 [-0.09; 0.11]	14.2 [12.1; 16.5]	12.1 [10.3; 14.2]	1.07 [1.01; 1.13]*	1.05 [0.98; 1.14]	-0.01 [-0.10; 0.08]
Bahrain¶	1.06 [1.01; 1.11]	1.10 [1.02; 1.17]	0.04 [-0.05; 0.12]	7.2 [6.2; 8.5]	6.6 [5.6; 7.8]	1.17 [1.12; 1.23]*	1.09 [1.02; 1.17]*	-0.08 [-0.16; 0.01]
Bangladesh¶§	1.05 [1.02; 1.08]	1.16 [1.10; 1.23]	0.11	29.2 [26.3; 32.4]	25.2 [22.6; 28.0]	1.06 [1.03; 1.09]*	1.06 [1.01; 1.13]*	0.01 [-0.06; 0.08]
Barbados	1.21	1.18	-0.02	12.9	10.9	1.03	1.04	0.01
Belarus¶	[1.13; 1.29] 1.35	[1.08; 1.30] 1.27	[-0.14; 0.10] -0.08	[8.5; 19.8] 3.0	[7.1; 16.8]	[0.96; 1.10] 0.91	[0.95; 1.14] 0.93	[-0.09; 0.12] 0.02
-	[1.31; 1.39] 1.32	[1.20; 1.35] 1.26	[-0.16; 0.01] -0.05	[2.6; 3.5] 4.6	[2.0; 2.8]	[0.89; 0.94]* 0.93	[0.88; 0.99]* 0.94	[-0.04; 0.08] 0.01
Belgium	[1.27; 1.36]	[1.19; 1.33]	[-0.14; 0.03]	[4.1; 5.1]	[3.2; 4.0]	[0.90; 0.96]*	[0.89; 1.00]*	[-0.04; 0.07]
Belize	1.22 [1.13; 1.31]	1.20 [1.11; 1.29]	-0.02 [-0.13; 0.10]	12.2 [9.8; 15.0]	10.2 [8.2; 12.5]	1.00 [0.93; 1.08]	1.02 [0.95; 1.10]	0.02 [-0.08; 0.12]
Benin	1.09 [1.05; 1.13]	1.16 [1.09; 1.23]	0.07 [-0.01; 0.15]	89.4 [72.6; 110.9]	77.4 [62.6; 95.6]	1.00 [0.97; 1.04]	0.98 [0.92; 1.04]	-0.02 [-0.09; 0.05]
Bhutan	1.08 [1.01; 1.15]	1.20 [1.10; 1.32]	0.12	29.0 [17.2; 48.5]	24.2 [14.2; 40.7]	1.04 [0.97; 1.11]	1.02	-0.02 [-0.12; 0.08]
Bolivia (Plurinational State of)	1.11	1.21	0.10	27.0	22.3	1.01	1.02	0.01
Bosnia and Herzegovina	[1.07; 1.15] 1.25	[1.12; 1.31] 1.22	[0.01; 0.21]† -0.03	[18.9; 38.5] 6.1	[15.6; 31.9] 5.0	[0.97; 1.05] 0.99	[0.94; 1.10] 0.98	[-0.07; 0.10] -0.01
	[1.20; 1.30] 1.21	[1.14; 1.31] 1.22	[-0.12; 0.07] 0.01	[4.8; 7.9] 38.2	[3.9; 6.4] 31.4	[0.95; 1.03] 0.99	[0.91; 1.05] 1.00	[-0.09; 0.06] 0.01
Botswana	[1.12; 1.30]	[1.11; 1.32] 1.25	[-0.11; 0.12] 0.04	[11.6; 127.5] 16.0	[9.4; 103.9] 12.7	[0.92; 1.06]	[0.90; 1.09]	[-0.10; 0.11] 0.00
Brazil	[1.13; 1.29]	[1.14; 1.38]	[-0.07; 0.17]	[13.5; 18.8]	[10.8; 15.1]	[0.92; 1.05]	[0.90; 1.08]	[-0.09; 0.10]
British Virgin Islands	1.26 [1.19; 1.33]	1.20 [1.10; 1.31]	-0.06 [-0.18; 0.06]	11.4 [5.1; 25.0]	9.5 [4.3; 20.6]	0.99 [0.94; 1.04]	1.02 [0.93; 1.12]	0.03 [-0.06; 0.14]
Brunei	1.19 [1.12; 1.26]	1.20 [1.11; 1.29]	0.01 [-0.09; 0.12]	12.5 [10.4; 15.0]	10.4 [8.7; 12.5]	1.03 [0.97; 1.09]	1.02 [0.95; 1.10]	-0.01 [-0.10; 0.08]
Bulgaria	1.27	1.17	-0.10	6.8	5.8	0.97	1.02	0.05
Burkina Faso	[1.24; 1.31] 1.08	[1.12; 1.24] 1.12	[-0.17; -0.03]† 0.05	[6.3; 7.3] 87.4	[5.4; 6.2] 77.7	[0.94; 1.00]* 0.99	[0.97; 1.07] 1.01	[-0.01; 0.10] 0.01
	[1.04; 1.11] 1.10	[1.06; 1.20] 1.19	[-0.03; 0.12] 0.09	[59.6; 129.1] 57.2	[53.0; 115.1] 47.9	[0.96; 1.03] 0.99	[0.94; 1.08] 0.98	[-0.06; 0.09] 0.00
Burundi	[1.05; 1.16]	[1.11; 1.28]	[0.00; 0.19]†	[35.1; 92.6]	[29.3; 77.5]	[0.94; 1.04]	[0.91; 1.06]	[-0.09; 0.08] 0.00
Cambodia	1.15 [1.11; 1.20]	1.26 [1.16; 1.36]	[0.00; 0.22]†	27.6 [13.5; 56.4]	21.8 [10.8; 44.5]	0.98 [0.94; 1.02]	0.98 [0.90; 1.06]	[-0.09; 0.09]
Cameroon	1.13 [1.08; 1.17]	1.18 [1.11; 1.26]	0.05 [-0.03; 0.14]	75.4 [58.0; 96.7]	63.8 [48.9; 82.0]	0.98 [0.94; 1.02]	0.97 [0.91; 1.04]	-0.01 [-0.08; 0.07]
Canada	1.25 [1.22; 1.28]	1.16 [1.11; 1.21]	-0.09 [-0.14; -0.03]†	5.4 [5.1; 5.7]	4.7 [4.4; 4.9]	0.97 [0.95; 1.00]*	1.02	0.05
¶: Sex ratio is outlying in 1990. §: Se	x ratio is outlying ir	2021. *: The ra	tio of estimated to e	xpected female mo	ortality is significantly differ	ent from one. †: C	hange is significat	ntly different from zero.

		Sex ratio USIVI	K	Sex-specific U.	5NIK IN 2021 (Der 1.000)	L ESHI	nated/Expected 14	Table 15 - continued from previous page Sex ratio U5MR Sex-specific U5MR in 2021 (per 1,000) Estimated/Expected female U5MR											
	1990	2021	Change	Male	Female	1990	2021	Change											
Com Virale	1.15	1.20	1990-2021 0.05	14.8	12.3	1.02	1.02	1990-2021 0.00											
Cape Verde	[1.11; 1.20] 1.10	[1.12; 1.30] 1.15	[-0.04; 0.15] 0.05	[11.3; 19.3] 106.7	[9.4; 16.0] 92.7	[0.98; 1.07] 1.00	[0.95; 1.10] 0.99	[-0.08; 0.08] 0.00											
Central African Republic	[1.05; 1.14]	[1.08; 1.23]	[-0.03; 0.14]	[83.8; 135.3]	[72.8; 118.1]	[0.95; 1.04]	[0.92; 1.07]	[-0.08; 0.08]											
Chad [1.10 [1.06; 1.14]	1.13 [1.06; 1.21]	0.04 [-0.04; 0.12]	113.7 [79.3; 161.2]	100.1 [69.9; 141.8]	0.98 [0.94; 1.01]	0.98 [0.92; 1.05]	0.01 [-0.06; 0.08]											
Chile	1.22 [1.20; 1.25]	1.18 [1.12; 1.25]	-0.04 [-0.11; 0.04]	7.1 [5.9; 8.5]	6.0 [5.0; 7.1]	1.01 [0.99; 1.03]	1.01 [0.95; 1.07]	0.00 [-0.06; 0.06]											
China	1.09 [1.02; 1.16]	1.12 [1.04; 1.21]	0.03	7.3 [6.6; 8.2]	6.5 [5.8; 7.3]	1.10 [1.03; 1.18]*	1.07	-0.03 [-0.13; 0.06]											
Colombia	1.25	1.24	-0.01	14.2	11.5	0.98	0.99	0.01											
Comoros	[1.19; 1.31] 1.09	[1.14; 1.35] 1.12	[-0.12; 0.11] 0.03	[9.3; 21.6] 52.4	[7.5; 17.5] 46.8	[0.93; 1.03] 1.02	[0.91; 1.08] 1.07	[-0.08; 0.10] 0.05											
L	[1.02; 1.17] 1.13	[1.02; 1.21] 1.20	[-0.07; 0.12] 0.07	[39.1; 70.4] 46.8	[34.8; 63.2] 38.9	[0.95; 1.10] 1.00	[0.98; 1.18] 0.99	[-0.04; 0.15] -0.01											
Congo [[1.07; 1.20] 1.09	[1.12; 1.30] 1.19	[-0.03; 0.18] 0.10	[26.3; 84.5] 85.5	[21.9; 70.2] 72.1	[0.94; 1.06] 1.00	[0.91; 1.08] 0.98	[-0.10; 0.09] -0.02											
Democratic Republic of the Congo	[1.04; 1.13]	[1.10; 1.28]	[0.01; 0.20]†	[50.8; 142.7]	[42.9; 120.4]	[0.96; 1.05]	[0.90; 1.07]	[-0.11; 0.08]											
Cook Islands¶	1.10 [1.01; 1.20]	1.04 [0.94; 1.15]	-0.06 [-0.16; 0.04]	7.3 [4.0; 13.6]	7.0 [3.9; 13.1]	1.13 [1.03; 1.23]*	1.16 [1.05; 1.27]*	0.03 [-0.09; 0.14]											
Costa Rica	1.27 [1.23; 1.31]	1.14 [1.09; 1.20]	-0.12 [-0.19; -0.05]†	8.1 [7.5; 8.8]	7.1 [6.6; 7.7]	0.98 [0.95; 1.01]	1.05 [1.00; 1.11]*	0.08 [0.02; 0.14]†											
Cote d'Ivoire¶	1.17 [1.13; 1.23]	1.24 [1.15; 1.33]	0.06 [-0.03; 0.16]	82.5 [61.6; 110.4]	66.7 [49.7; 89.6]	0.94 [0.90; 0.98]*	0.93 [0.87; 1.01]	0.00 [-0.08; 0.08]											
Croatia	1.30	1.18	-0.12 [-0.21; -0.03]†	5.0	4.3	0.95	1.01	0.06											
Cuba	[1.25; 1.35] 1.31	[1.11; 1.25] 1.23	-0.09	[4.6; 5.5] 5.5	[3.9; 4.7]	[0.91; 0.99]* 0.94	[0.95; 1.07] 0.97	[-0.01; 0.13] 0.03											
	[1.28; 1.35] 1.22	[1.17; 1.29] 1.18	[-0.15; -0.01]† -0.04	[4.5; 7.0] 3.0	[3.6; 5.6]	[0.91; 0.96]* 1.01	[0.92; 1.02] 1.01	[-0.02; 0.09] 0.00											
	[1.14; 1.29] 1.30	[1.08; 1.27] 1.28	[-0.14; 0.06] -0.02	[2.2; 4.3]	[1.9; 3.6]	[0.95; 1.07] 0.95	[0.93; 1.10] 0.93	[-0.08; 0.09] -0.02											
Czech Republic	[1.24; 1.37]	[1.21; 1.35]	[-0.11; 0.07] -0.09	[2.8; 3.3]	[2.2; 2.6]	[0.90; 0.99]*	[0.88; 0.98]*	[-0.08; 0.05] 0.05											
Denmark [1.28 [1.23; 1.33]	1.19 [1.12; 1.27]	[-0.17; 0.00]†	[3.6; 4.2]	[3.0; 3.5]	0.95 [0.91; 0.98]*	[0.94; 1.06]	[-0.02; 0.12]											
Djibouti [1.14 [1.06; 1.23]	1.20 [1.10; 1.31]	0.06 [-0.05; 0.17]	58.8 [32.4; 103.7]	49.0 [26.9; 87.3]	0.99 [0.91; 1.07]	1.00 [0.91; 1.10]	0.01 [-0.09; 0.11]											
Dominica	1.16 [1.07; 1.24]	1.16 [1.05; 1.28]	0.01 [-0.11; 0.13]	38.5 [32.6; 45.5]	33.1 [27.9; 39.3]	1.06 [0.99; 1.15]	1.06 [0.96; 1.17]	-0.01 [-0.11; 0.10]											
Dominican Republic	1.16 [1.11; 1.22]	1.19 [1.11; 1.29]	0.03	35.8 [26.4; 48.2]	30.0 [22.1; 40.4]	1.02 [0.97; 1.07]	1.03 [0.95; 1.11]	0.01 [-0.08; 0.10]											
Equador	1.23	1.25	0.02	13.8	11.1	0.97	0.98	0.02											
Egypt¶§	[1.15; 1.32] 0.99	[1.15; 1.36] 1.14	[-0.09; 0.13] 0.15	[12.1; 15.7] 20.2	[9.6; 12.6] 17.7	[0.90; 1.04] 1.16	[0.91; 1.07] 1.08	[-0.07; 0.11] -0.08											
U1	[0.96; 1.03] 1.17	[1.05; 1.24] 1.21	[0.05; 0.25]† 0.05	[13.0; 31.1] 13.6	[11.4; 27.3] 11.2	[1.12; 1.20]* 1.01	[1.00; 1.18]* 1.01	[-0.17; 0.02] 0.00											
El Salvador [[1.09; 1.25] 1.11	[1.11; 1.33] 1.17	[-0.07; 0.16] 0.07	[8.1; 23.2] 82.6	[6.7; 19.1] 70.4	[0.94; 1.09]	[0.92; 1.11] 0.99	[-0.10; 0.10] 0.00											
Equatorial Guinea [[1.02; 1.20]	[1.07; 1.28]	[-0.04; 0.17]	[45.3; 147.4]	[38.3; 125.7]	[0.91; 1.07]	[0.90; 1.09]	[-0.09; 0.10]											
Eritrea¶ [1.21 [1.16; 1.26]	1.29 [1.19; 1.39]	0.08 [-0.03; 0.18]	42.7 [23.6; 77.3]	33.2 [18.2; 60.6]	0.91 [0.87; 0.95]*	0.94 [0.86; 1.02]	0.03 [-0.05; 0.11]											
Estonia [1.30 [1.24; 1.36]	1.22 [1.13; 1.32]	-0.08 [-0.18; 0.03]	2.2 [1.8; 2.7]	1.8 [1.4; 2.2]	0.95 [0.91; 0.99]*	0.97 [0.90; 1.05]	0.02 [-0.06; 0.11]											
Ethiopia¶	1.14 [1.10; 1.18]	1.27 [1.19; 1.37]	0.14 [0.04; 0.24]†	52.2 [40.6; 67.6]	41.0 [31.8; 53.1]	0.95 [0.91; 0.99]*	0.93 [0.86; 1.00]	-0.02 [-0.09; 0.06]											
Federated States of Micronesia	1.28	1.30	0.03	28.0	21.5	0.94	0.94 [0.85; 1.03]	0.00											
Fiiid	[1.17; 1.39] 1.15	[1.19; 1.44] 1.18	0.03	[12.6; 61.5] 29.9	[9.6; 46.7] 25.4	[0.86; 1.02] 1.07	1.05	-0.02											
Finland	[1.08; 1.23] 1.23	[1.11; 1.26] 1.19	[-0.08; 0.13] -0.04	[26.7; 33.5] 2.4	[22.6; 28.5]	[1.00; 1.14]* 0.97	[0.98; 1.12] 1.00	[-0.12; 0.07] 0.02											
	[1.18; 1.28] 1.34	[1.12; 1.27] 1.22	[-0.13; 0.05] -0.12	[2.1; 2.6] 4.8	[1.8; 2.2] 3.9	[0.94; 1.01] 0.91	[0.93; 1.06] 0.97	[-0.05; 0.10] 0.07											
	[1.31; 1.37] 1.17	[1.17; 1.27] 1.23	[-0.18; -0.06]† 0.06	[4.4; 5.2] 43.7	[3.6; 4.3] 35.6	[0.89; 0.93]* 0.96	[0.93; 1.01] 0.97	[0.02; 0.11]† 0.01											
Gabon [[1.10; 1.25]	[1.13; 1.34]	[-0.04; 0.16]	[26.0; 74.0]	[21.4; 59.8]	[0.90; 1.03]	[0.89; 1.06]	[-0.08; 0.10]											
The Gambia	1.12 [1.07; 1.18]	1.22 [1.14; 1.31]	0.10 [0.01; 0.20]†	52.6 [40.7; 67.6]	43.0 [33.2; 55.2]	0.96 [0.91; 1.01]	0.96 [0.90; 1.04]	0.00 [-0.07; 0.08]											
Georgia	1.26 [1.16; 1.37]	1.25 [1.13; 1.38]	-0.01 [-0.13; 0.12]	10.5 [9.3; 11.8]	8.4 [7.4; 9.5]	0.96 [0.88; 1.05]	0.98 [0.89; 1.08]	0.01 [-0.08; 0.11]											
Germany	1.30 [1.27; 1.32]	1.17 [1.13; 1.20]	-0.13 [-0.18; -0.08]†	3.8 [3.7; 4.0]	3.3 [3.2; 3.4]	0.93 [0.91; 0.95]*	1.02 [0.99; 1.05]	0.09 [0.05; 0.12]†											
Chana	1.13 [1.09; 1.18]	1.23	0.10	48.4 [36.6; 64.7]	39.3 [29.6; 52.4]	0.97	0.96	-0.01 [-0.08; 0.07]											
Greece	1.17	[1.16; 1.32] 1.17	0.00	4.0	3.4	1.04	1.01	-0.03											
Grenada¶ .	[1.14; 1.21] 1.14	[1.11; 1.24] 1.17	[-0.08; 0.08] 0.03	[3.5; 4.5] 17.4	[3.0; 3.9]	[1.01; 1.08]* 1.08	[0.96; 1.07] 1.06	[-0.10; 0.04] -0.03											
-	[1.06; 1.22] 1.16	[1.07; 1.27] 1.23	[-0.08; 0.14] 0.08	[14.2; 21.4] 25.3	[12.1; 18.3] 20.6	[1.01; 1.16]* 1.00	[0.97; 1.16] 1.00	[-0.12; 0.08] 0.00											
	[1.11; 1.21]	[1.14; 1.33]	[-0.02; 0.18]	[18.1; 35.0]	[14.6; 28.5] 91.0	[0.96; 1.04]	[0.93; 1.08]	[-0.08; 0.09] -0.04											
Guinea [1.07 [1.04; 1.11]	1.17 [1.10; 1.24]	0.10 [0.02; 0.17]†	106.1 [86.2; 132.3]	[73.9; 114.0]	1.00 [0.97; 1.04]	[0.90; 1.02]	[-0.11; 0.03]											
Guinea-Bissau	1.10 [1.06; 1.15]	1.18 [1.10; 1.27]	0.08 [-0.01; 0.17]	80.2 [46.1; 132.5]	67.8 [39.2; 112.2]	0.97 [0.93; 1.02]	0.97 [0.89; 1.05]	-0.01 [-0.09; 0.08]											
Guyana¶	1.27 [1.19; 1.35]	1.29 [1.18; 1.40]	0.02 [-0.10; 0.14]	31.0 [17.9; 54.0]	24.1 [14.0; 42.0]	0.93 [0.87; 0.99]*	0.95 [0.87; 1.04]	0.02 [-0.06; 0.12]											
Haiti	1.13	1.20 [1.11; 1.30]	0.07	63.9 [44.8; 92.6]	53.1 [37.0; 76.9]	0.98	0.98	0.00											
Honduras	1.20	1.24	0.04	18.3	14.7	0.98	0.99	0.01											
Hungary	[1.14; 1.28] 1.24	[1.15; 1.35] 1.20	[-0.07; 0.15] -0.05	[13.9; 24.8] 4.3	[11.2; 19.9] 3.6	[0.92; 1.04] 0.99	[0.92; 1.08] 0.99	[-0.08; 0.10] 0.00											
	[1.21; 1.28] 1.17	[1.13; 1.27] 1.17	[-0.12; 0.03] 0.00	[3.8; 4.9]	[3.2; 4.1]	[0.97; 1.02] 1.02	[0.94; 1.05] 1.01	[-0.06; 0.06] -0.01											
Iceland ¶: Sex ratio is outlying in 1990. §: Sex ratio	[1.08; 1.26]	[1.07; 1.28]	[-0.11; 0.12]	[2.2; 3.7]	[1.9; 3.1]	[0.95; 1.10]	[0.93; 1.11]	[-0.10; 0.09]											

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 15 – continued from previous page Sex ratio U5MR Sex-specific U5MR in 2021 (per 1,000) Estimated/Expected female U5MR											
	1990	Sex ratio U5M 2021	R Change	Sex-specific Us Male	5MR in 2021 (per 1,000) Female	1990	mated/Expected f	emale U5MR Change			
	0.94	0.98	1990-2021 0.04	30.3	31.0	1.19	1.26	1990–2021 0.07			
India¶§	[0.92; 0.96]	[0.92; 1.04]	[-0.02; 0.10]	[27.2; 33.6]	[27.8; 34.4]	[1.17; 1.22]*	[1.19; 1.34]*	[-0.01; 0.15]			
Indonesia	1.17 [1.12; 1.21]	1.23 [1.14; 1.33]	0.07 [-0.03; 0.17]	24.4 [19.1; 31.4]	19.8 [15.6; 25.5]	0.99 [0.95; 1.02]	1.01 [0.93; 1.09]	0.02 [-0.06; 0.10]			
Iran (Islamic Republic of)¶§	1.01 [0.96; 1.06]	1.10 [1.01; 1.20]	0.09 [0.00; 0.20]	[7.4; 23.3]	12.0 [6.7; 21.2]	1.18 [1.12; 1.24]*	1.11 [1.02; 1.21]*	-0.07 [-0.17; 0.04]			
Iraq	1.16 [1.10; 1.22]	1.21 [1.12; 1.32]	0.05 [-0.05; 0.17]	26.8 [19.5; 36.1]	22.1 [16.1; 29.8]	1.03 [0.97; 1.09]	1.02 [0.94; 1.10]	-0.01 [-0.10; 0.08]			
Ireland	1.25	1.19	-0.06	3.4	2.9	0.98	1.00	0.02			
Israel	[1.20; 1.30] 1.13	[1.11; 1.27] 1.18	[-0.15; 0.03] 0.05	[2.9; 3.9] 3.6	[2.5; 3.3]	[0.94; 1.01] 1.08	[0.94; 1.07] 1.00	[-0.05; 0.10] -0.08			
	[1.10; 1.17] 1.22	[1.13; 1.24] 1.17	[-0.01; 0.12] -0.04	[3.4; 3.8] 2.8	[2.9; 3.2]	[1.05; 1.11]* 1.00	[0.96; 1.05] 1.01	[-0.13; -0.02]† 0.01			
Italy	[1.19; 1.24] 1.33	[1.12; 1.23] 1.30	[-0.10; 0.02] -0.03	[2.6; 3.0] 14.0	[2.2; 2.6]	[0.98; 1.02] 0.93	[0.97; 1.06] 0.95	[-0.04; 0.06] 0.02			
Jamaica	[1.23; 1.44]	[1.18; 1.42]	[-0.16; 0.10]	[7.2; 27.3]	[5.5; 21.2]	[0.85; 1.01]	[0.86; 1.04]	[-0.07; 0.11]			
Japan	1.20 [1.18; 1.22]	1.11 [1.07; 1.15]	-0.09 [-0.13; -0.05]†	2.4 [2.3; 2.5]	2.2 [2.1; 2.3]	0.99 [0.97; 1.01]	1.07 [1.04; 1.11]*	0.08 [0.04; 0.12]†			
Jordan¶	1.13 [1.08; 1.19]	1.23 [1.12; 1.33]	0.09 [-0.02; 0.20]	16.0 [11.1; 23.3]	13.1 [9.1; 19.0]	1.08 [1.02; 1.14]*	1.01 [0.93; 1.10]	-0.07 [-0.16; 0.02]			
Kazakhstan¶	1.30 [1.21; 1.39]	1.29 [1.18; 1.42]	-0.01 [-0.13; 0.12]	11.5 [11.0; 12.2]	8.9 [8.4; 9.5]	0.93 [0.87; 1.00]*	0.95 [0.87; 1.04]	0.02 [-0.07; 0.11]			
Kenya	1.12	1.20	0.08	40.4	33.7 [27.1; 41.8]	1.00	1.00	0.01			
Kiribati	[1.08; 1.16] 1.14	[1.12; 1.28] 1.20	[-0.01; 0.17] 0.06	[32.7; 50.1] 52.5	43.6	[0.96; 1.04] 1.00	[0.94; 1.08] 0.99	0.00			
Democratic People's Republic of	[1.08; 1.21] 1.20	[1.11; 1.31] 1.22	[-0.04; 0.17] 0.01	[27.9; 97.9] 16.9	[23.0; 81.4] 13.9	[0.94; 1.06] 1.00	[0.91; 1.09] 1.00	[-0.10; 0.09] 0.00			
Korea	[1.09; 1.33] 1.18	[1.11; 1.34] 1.20	[-0.10; 0.12] 0.03	[13.2; 21.6] 3.2	[10.8; 17.9]	[0.91; 1.10] 1.05	[0.91; 1.10] 0.99	[-0.09; 0.09] -0.06			
Republic of Korea	[1.10; 1.26]	[1.15; 1.26]	[-0.07; 0.12] 0.05	[3.0; 3.3]	[2.5; 2.7]	[0.98; 1.12] 1.04	[0.94; 1.03]	[-0.14; 0.02] 0.01			
Kosovo	1.11 [1.02; 1.20]	1.16 [1.06; 1.26]	[-0.06; 0.17]	10.7 [9.3; 12.3]	[8.0; 10.6]	[0.95; 1.14]	[0.97; 1.15]	[-0.09; 0.12]			
Kuwait	1.16 [1.11; 1.20]	1.21 [1.14; 1.28]	0.05 [-0.03; 0.13]	9.5 [8.6; 10.6]	7.9 [7.1; 8.8]	1.05 [1.01; 1.09]*	1.00 [0.95; 1.06]	-0.04 [-0.11; 0.03]			
Kyrgyzstan	1.20 [1.12; 1.30]	1.25 [1.14; 1.37]	0.05 [-0.07; 0.17]	19.3 [18.2; 20.5]	15.4 [14.4; 16.5]	0.99 [0.91; 1.06]	0.99 [0.90; 1.09]	0.01 [-0.09; 0.11]			
Lao People's Democratic Republic	1.12	1.24	0.12	46.9	37.8	0.98	0.98	-0.01			
Latvia	[1.06; 1.18] 1.29	[1.14; 1.34] 1.18	[0.01; 0.22]† -0.11	[32.2; 66.9]	[25.9; 54.3]	[0.93; 1.04] 0.96	[0.90; 1.06] 1.01	[-0.09; 0.08] 0.05			
	[1.24; 1.34] 1.10	[1.09; 1.26] 1.13	[-0.21; -0.01]† 0.03	[3.4; 4.7] 8.7	[2.9; 4.0]	[0.92; 0.99]*	[0.94; 1.08]	[-0.02; 0.13] -0.05			
Lebanon¶	[1.03; 1.17] 1.19	[1.02; 1.23] 1.20	[-0.08; 0.14] 0.01	[7.0; 10.8] 79.3	[6.2; 9.6] 66.1	[1.05; 1.20]* 0.98	[0.98; 1.18]	[-0.15; 0.06] 0.00			
Lesotho	[1.13; 1.25]	[1.11; 1.29]	[-0.09; 0.11]	[55.1; 117.7]	[45.7; 97.7]	[0.92; 1.03]	[0.90; 1.05]	[-0.09; 0.09]			
Liberia	1.12 [1.07; 1.16]	1.17 [1.10; 1.25]	0.05 [-0.03; 0.14]	81.9 [60.3; 112.2]	69.9 [51.5; 96.2]	0.97 [0.93; 1.01]	0.99 [0.92; 1.06]	0.02 [-0.06; 0.10]			
Libya	1.19 [1.12; 1.27]	1.21 [1.11; 1.33]	0.02 [-0.08; 0.14]	11.8 [6.7; 20.6]	9.7 [5.5; 17.0]	1.03 [0.96; 1.10]	1.00 [0.92; 1.10]	-0.02 [-0.12; 0.07]			
Lithuania	1.26 [1.21; 1.30]	1.20 [1.12; 1.28]	-0.06 [-0.14; 0.04]	3.6 [3.1; 4.2]	3.0 [2.6; 3.5]	0.98 [0.95; 1.01]	0.99 [0.93; 1.06]	0.01 [-0.06; 0.08]			
Luxembourg	1.23 [1.14; 1.32]	1.21 [1.11; 1.31]	-0.02 [-0.14; 0.09]	3.0 [2.3; 3.9]	2.5 [1.9; 3.3]	0.99 [0.92; 1.06]	0.99 [0.91; 1.07]	0.00 [-0.09; 0.10]			
Macedonia¶	1.12	1.12	-0.01	5.6	5.0	1.10	1.06	-0.03			
Madagascar	[1.07; 1.19] 1.10	[1.05; 1.20] 1.18	[-0.09; 0.09] 0.08	[4.5; 7.1] 71.4	[4.0; 6.4] 60.6	[1.04; 1.16]* 0.99	[1.00; 1.13] 0.98	[-0.12; 0.05] -0.02			
	[1.06; 1.14] 1.10	[1.10; 1.26] 1.25	[0.00; 0.16] 0.15	[60.0; 86.3] 46.4	[50.9; 73.4] 37.1	[0.96; 1.03] 0.98	[0.91; 1.05] 0.95	[-0.09; 0.06] -0.02			
Malawi	[1.06; 1.13] 1.23	[1.17; 1.34] 1.19	[0.07; 0.25]†	[29.3; 73.4] 8.2	[23.2; 58.3] 6.9	[0.95; 1.01] 1.01	[0.89; 1.03] 1.01	[-0.10; 0.06] 0.01			
Malaysia	[1.12; 1.35]	[1.10; 1.29]	[-0.16; 0.08]	[7.4; 9.1]	[6.2; 7.7]	[0.92; 1.10]	[0.94; 1.10]	[-0.10; 0.11]			
Maldives	1.15 [1.07; 1.23]	1.19 [1.09; 1.28]	0.04 [-0.07; 0.14]	6.5 [5.4; 7.7]	5.4 [4.6; 6.5]	1.00 [0.93; 1.07]	1.01 [0.93; 1.09]	0.01 [-0.08; 0.10]			
Mali	1.08 [1.05; 1.11]	1.11 [1.05; 1.18]	0.03	102.0 [81.5; 127.8]	91.9 [73.4; 114.9]	0.99 [0.96; 1.02]	1.01 [0.95; 1.07]	0.02 [-0.04; 0.09]			
Malta	1.21 [1.12; 1.30]	1.16 [1.06; 1.26]	-0.05 [-0.16; 0.07]	6.2 [5.2; 7.5]	5.4 [4.5; 6.5]	1.02 [0.95; 1.09]	1.03 [0.95; 1.12]	0.01 [-0.09; 0.11]			
Marshall Islands	1.21	1.26	0.05	33.0	26.2	0.99	0.97	-0.02			
Mauritania	[1.11; 1.32]	[1.15; 1.39] 1.23	[-0.07; 0.17] 0.08	[19.4; 57.0] 44.6	[15.5; 45.1] 36.2	[0.90; 1.09] 0.96	[0.88; 1.07] 0.98	[-0.12; 0.08] 0.02			
Mauritius	[1.09; 1.21] 1.29	[1.15; 1.32] 1.23	[-0.01; 0.18] -0.07	[34.1; 58.4] 18.3	[27.6; 47.7] 14.9	[0.92; 1.01] 0.96	[0.91; 1.06] 1.01	[-0.06; 0.10] 0.05			
	[1.24; 1.35] 1.18	[1.15; 1.31] 1.21	[-0.16; 0.03] 0.03	[15.2; 21.9] 14.5	[12.4; 17.8] 12.0	[0.92; 1.00]* 1.02	[0.95; 1.08] 1.02	[-0.02; 0.13] 0.00			
Mexico	[1.11; 1.26]	[1.15; 1.27]	[-0.07; 0.12] -0.01	[12.3; 16.9]	[10.2; 14.0]	[0.96; 1.09]	[0.97; 1.07]	[-0.09; 0.08] 0.02			
Republic of Moldova	1.26 [1.16; 1.37]	1.25 [1.13; 1.37]	[-0.14; 0.11]	15.7 [11.1; 22.6]	12.6 [8.9; 18.1]	[0.89; 1.06]	[0.90; 1.09]	[-0.08; 0.11]			
Monaco	1.25 [1.19; 1.31]	1.24 [1.16; 1.33]	-0.01 [-0.10; 0.09]	3.2 [2.0; 5.1]	2.6 [1.6; 4.1]	0.96 [0.91; 1.01]	0.96 [0.90; 1.03]	0.01 [-0.07; 0.08]			
Mongolia¶	1.28 [1.22; 1.34]	1.25 [1.19; 1.32]	-0.03 [-0.12; 0.06]	16.3 [15.0; 17.8]	13.1 [12.0; 14.3]	0.88 [0.84; 0.92]*	0.99 [0.94; 1.04]	0.11 [0.04; 0.17]†			
Montenegro¶	1.13	1.14	0.01	2.4	2.1	1.10	1.04	-0.06			
Montserrat¶	[1.06; 1.20]	[1.05; 1.23]	[-0.09; 0.12]	[2.0; 2.9] 5.2	[1.7; 2.6]	[1.04; 1.17]* 1.35	[0.96; 1.13]	[-0.15; 0.04] -0.11			
Morocco	[0.85; 0.98]	[0.86; 1.09] 1.22	[-0.04; 0.16] 0.09	[1.9; 14.0] 19.7	[2.0; 14.5] 16.2	[1.26; 1.44]* 1.03	[1.09; 1.40]* 1.02	[-0.23; 0.03] -0.02			
	[1.07; 1.18] 1.08	[1.11; 1.33] 1.14	[-0.02; 0.20] 0.06	[13.6; 27.8] 73.9	[11.2; 22.8] 64.9	[0.98; 1.09] 1.00	[0.93; 1.11] 1.02	[-0.11; 0.08] 0.01			
Mozambique	[1.04; 1.12]	[1.07; 1.22]	[-0.02; 0.15]	[47.8; 117.1]	[41.8; 102.4]	[0.97; 1.04]	[0.94; 1.10]	[-0.07; 0.10] 0.01			
Myanmar	1.15 [1.08; 1.22]	[1.12; 1.32]	0.07 [-0.04; 0.18]	45.8 [29.4; 69.9]	37.6 [23.9; 57.3]	0.98 [0.92; 1.04]	0.99 [0.91; 1.08]	[-0.08; 0.11]			
Namibia	1.15 [1.09; 1.22]	1.21 [1.12; 1.31]	0.06 [-0.04; 0.16]	42.7 [22.9; 83.0]	35.3 [19.0; 68.2]	0.99 [0.94; 1.05]	0.99 [0.90; 1.08]	0.00 [-0.10; 0.09]			
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	n 2021. *: The ra	tio of estimated to e	xpected female mo	ortality is significantly differ	rent from one. †: 0	Change is significa	ntly different from zero.			

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 15 – continued from previous page Sex ratio U5MR Sex-specific U5MR in 2021 (per 1,000) Estimated/Expected female U5MR											
	1990	2021	Change	Male	Female	1990	2021	Change			
	1.17	1.24	1990–2021 0.06	30.4	24.6	1.00	0.99	1990–2021 -0.01			
Nauru	[1.07; 1.29]	[1.12; 1.37]	[-0.05; 0.19]	[15.4; 58.7]	[12.5; 47.8]	[0.91; 1.10]	[0.89; 1.10]	[-0.11; 0.10]			
Nepal¶	1.01 [0.98; 1.05]	1.17 [1.08; 1.26]	0.16 [0.06; 0.25]†	29.2 [22.5; 38.5]	25.0 [19.2; 32.9]	1.10 [1.06; 1.15]*	1.06 [0.98; 1.14]	-0.04 [-0.13; 0.05]			
Netherlands	1.30 [1.26; 1.34]	1.21 [1.15; 1.27]	-0.09 [-0.16; -0.03]†	4.4 [4.2; 4.6]	3.7 [3.5; 3.9]	0.93 [0.90; 0.96]*	0.98 [0.94; 1.03]	0.05 [0.00; 0.11]†			
New Zealand	1.27 [1.23; 1.32]	1.19 [1.11; 1.27]	-0.08 [-0.17; 0.01]	5.1 [4.6; 5.7]	4.3 [3.9; 4.8]	0.96 [0.92; 0.99]*	1.00 [0.93; 1.07]	0.04 [-0.03; 0.12]			
Nicaragua	1.19	1.25 [1.15; 1.36]	0.06 [-0.05; 0.18]	14.7 [12.6; 16.9]	11.8 [10.1; 13.6]	0.98 [0.94; 1.03]	0.98	0.00			
Niger¶	1.01	1.07	0.06	118.8	111.2	1.04	1.03	-0.01			
Nigeria	[0.98; 1.04]	[1.01; 1.13] 1.12	[-0.01; 0.13] 0.01	[95.4; 149.0] 116.9	[89.4; 139.6] 104.3	[1.01; 1.06]* 0.97	[0.97; 1.09] 1.00	[-0.07; 0.06] 0.03			
-	[1.08; 1.14] 1.24	[1.06; 1.18] 1.24	[-0.06; 0.08] 0.00	[86.1; 161.1] 26.6	[76.8; 144.5] 21.6	[0.94; 1.00]	[0.94; 1.06] 0.99	[-0.04; 0.09] -0.01			
Niue	[1.12; 1.37] 1.28	[1.12; 1.37] 1.22	[-0.13; 0.13] -0.06	[11.4; 63.5] 2.4	[9.1; 51.5] 2.0	[0.90; 1.11] 0.95	[0.89; 1.10] 0.97	[-0.11; 0.09] 0.03			
Norway	[1.23; 1.33]	[1.14; 1.30]	[-0.14; 0.03]	[2.1; 2.6]	[1.8; 2.2]	[0.91; 0.99]*	[0.91; 1.04]	[-0.04; 0.10]			
Oman	1.18 [1.09; 1.28]	1.21 [1.09; 1.33]	0.02 [-0.09; 0.14]	11.1 [9.9; 12.3]	9.2 [8.2; 10.3]	1.03 [0.95; 1.12]	1.01 [0.92; 1.12]	-0.02 [-0.11; 0.08]			
Pakistan¶	1.05 [1.01; 1.09]	1.15 [1.08; 1.22]	0.10 [0.02; 0.18]†	67.5 [53.9; 84.6]	58.8 [46.8; 73.4]	1.07 [1.03; 1.11]*	1.04 [0.97; 1.11]	-0.03 [-0.11; 0.05]			
Palau	1.24 [1.12; 1.37]	1.24 [1.11; 1.39]	0.00 [-0.13; 0.15]	18.0 [8.5; 38.2]	14.4 [6.9; 30.8]	0.99 [0.90; 1.10]	0.99 [0.89; 1.11]	0.00 [-0.11; 0.11]			
Panama	1.23	1.22	0.00	15.2 [7.7; 31.0]	12.5 [6.2; 25.2]	1.00	1.00	0.00			
Papua New Guinea	1.11	1.18	0.07	46.2	39.3	1.04	1.03	-0.01			
Paraguay	[1.04; 1.18] 1.18	[1.08; 1.28] 1.22	[-0.03; 0.17] 0.04	[31.0; 67.9] 19.9	[26.4; 58.0] 16.3	[0.97; 1.11] 1.02	[0.94; 1.12] 1.01	[-0.10; 0.09] -0.02			
	[1.09; 1.27]	[1.11; 1.35]	[-0.07; 0.16] 0.10	[9.7; 42.3] 15.4	[7.9; 34.7] 12.8	[0.94; 1.11] 1.04	[0.91; 1.11] 1.01	[-0.11; 0.08] -0.02			
Peru¶	[1.07; 1.14] 1.22	[1.13; 1.30] 1.23	[0.01; 0.20]† 0.01	[12.3; 19.7] 28.3	[10.1; 16.3] 23.0	[1.00; 1.07]* 0.96	[0.94; 1.09]	[-0.10; 0.06] 0.04			
Philippines	[1.17; 1.27]	[1.14; 1.33]	[-0.09; 0.11]	[19.9; 40.1]	[16.1; 32.7]	[0.92; 1.00]	[0.93; 1.08]	[-0.04; 0.13]			
Poland	1.28 [1.26; 1.30]	1.20 [1.15; 1.24]	-0.08 [-0.14; -0.03]†	4.7 [4.5; 4.9]	3.9 [3.8; 4.1]	0.97 [0.95; 0.99]*	0.99 [0.95; 1.03]	0.02 [-0.02; 0.07]			
Portugal	1.26 [1.22; 1.30]	1.21 [1.14; 1.27]	-0.05 [-0.13; 0.02]	3.4 [3.1; 3.7]	2.8 [2.6; 3.0]	0.98 [0.95; 1.00]	0.98 [0.93; 1.04]	0.01 [-0.05; 0.07]			
Qatar	1.18 [1.10; 1.26]	1.13 [1.06; 1.22]	-0.04 [-0.15; 0.06]	5.6 [5.0; 6.3]	5.0 [4.4; 5.6]	1.05 [0.98; 1.12]	1.05 [0.98; 1.12]	-0.01 [-0.10; 0.09]			
Romania	1.24 [1.22; 1.26]	1.16	-0.08 [-0.13; -0.03]†	6.9 [6.6; 7.2]	5.9 [5.6; 6.2]	0.99	1.03	0.04			
Russian Federation¶	1.35	1.23	-0.12	5.6	4.5	0.92	0.96	0.05			
Rwanda	[1.33; 1.36] 1.12	[1.19; 1.27] 1.19	[-0.16; -0.07]† 0.07	[5.3; 5.9] 42.8	[4.3; 4.8] 35.9	[0.91; 0.93]* 0.98	[0.93; 0.99]* 1.01	[0.02; 0.08]†			
	[1.08; 1.16] 1.22	[1.11; 1.28] 1.22	[-0.02; 0.16] 0.00	[26.0; 71.0] 16.0	[21.8; 59.3] 13.1	[0.94; 1.01] 1.01	[0.93; 1.09] 1.01	[-0.05; 0.12] 0.00			
Saint Kitts and Nevis	[1.13; 1.33] 1.22	[1.11; 1.34] 1.21	[-0.12; 0.12] -0.01	[10.7; 24.6] 27.1	[8.6; 20.0] 22.4	[0.93; 1.09] 1.02	[0.92; 1.11] 1.03	[-0.09; 0.10] 0.01			
Saint Lucia	[1.15; 1.29]	[1.11; 1.32]	[-0.12; 0.11]	[23.0; 31.8]	[19.0; 26.4]	[0.96; 1.08]	[0.94; 1.12]	[-0.09; 0.11]			
Samoa	1.20 [1.11; 1.30]	1.22 [1.13; 1.33]	0.02 [-0.10; 0.14]	18.3 [12.7; 26.3]	15.0 [10.4; 21.6]	1.02 [0.95; 1.11]	1.01 [0.93; 1.10]	-0.01 [-0.11; 0.09]			
San Marino	1.24 [1.12; 1.38]	1.19 [1.08; 1.33]	-0.05 [-0.18; 0.09]	1.9 [0.9; 3.8]	1.6 [0.7; 3.2]	0.99 [0.89; 1.10]	0.99 [0.89; 1.10]	0.00 [-0.11; 0.11]			
Sao Tome and Principe	1.13 [1.06; 1.20]	1.24 [1.14; 1.35]	0.12	17.1 [9.7; 29.7]	13.7 [7.8; 23.9]	0.99 [0.93; 1.06]	0.99 [0.91; 1.07]	0.00 [-0.09; 0.08]			
Saudi Arabia¶	1.09 [1.00; 1.18]	1.05 [0.96; 1.14]	-0.04 [-0.14; 0.06]	6.9 [5.2; 9.5]	6.6 [4.9; 9.0]	1.11 [1.03; 1.21]*	1.14 [1.05; 1.25]*	0.03 [-0.08; 0.14]			
Senegal	1.11	1.23	0.12	42.4	34.5	0.98	0.98	0.00			
Serbia¶	[1.07; 1.14]	[1.15; 1.31] 1.21	[0.04; 0.21]† 0.09	[31.9; 56.1] 6.0	[25.9; 45.7] 4.9	[0.95; 1.01] 1.10	[0.91; 1.05] 0.98	[-0.08; 0.07] -0.12			
Seychelles	[1.10; 1.15]	[1.15; 1.28]	[0.02; 0.16]† 0.01	[5.6; 6.5] 15.0	[4.6; 5.3] 12.8	[1.07; 1.12]* 1.06	[0.93; 1.04] 1.05	[-0.18; -0.06]† -0.01			
•	[1.07; 1.26] 1.10	[1.07; 1.28] 1.14	[-0.11; 0.12] 0.04	[11.5; 19.7] 111.4	[9.8; 16.8] 97.6	[0.98; 1.15] 0.98	[0.97; 1.15] 0.99	[-0.11; 0.10] 0.02			
Sierra Leone	[1.06; 1.14] 1.17	[1.08; 1.21] 1.18	[-0.03; 0.12] 0.01	[90.9; 136.9] 2.3	[79.3; 119.8] 1.9	[0.94; 1.01] 1.03	[0.93; 1.06] 1.01	[-0.05; 0.09] -0.02			
Singapore	[1.12; 1.22]	[1.10; 1.26]	[-0.08; 0.10]	[1.8; 2.7]	[1.6; 2.3]	[0.99; 1.07]	[0.94; 1.08]	[-0.09; 0.07]			
Slovakia	1.28 [1.24; 1.33]	1.21 [1.15; 1.27]	-0.08 [-0.15; 0.00]†	6.2 [5.8; 6.5]	5.1 [4.8; 5.4]	0.96 [0.93; 0.99]*	0.99 [0.94; 1.04]	0.03 [-0.03; 0.08]			
Slovenia	1.25 [1.19; 1.32]	1.18 [1.09; 1.27]	-0.07 [-0.17; 0.03]	2.3 [2.0; 2.7]	2.0 [1.7; 2.3]	0.98 [0.93; 1.03]	1.01 [0.94; 1.09]	0.03 [-0.05; 0.12]			
Solomon Islands	1.18 [1.07; 1.28]	1.20 [1.09; 1.32]	0.02 [-0.09; 0.14]	20.4 [12.5; 32.3]	17.0 [10.4; 26.9]	1.03 [0.95; 1.14]	1.03 [0.94; 1.13]	-0.01 [-0.11; 0.10]			
Somalia	1.09	1.11	0.02	117.0	105.4 [48.1; 234.3]	1.00	1.00	0.00			
South Africa	[1.01; 1.17]	[1.03; 1.20]	-0.01	[53.2; 260.2] 35.3	30.3	[0.93; 1.07]	1.05	0.05			
South Sudan	[1.12; 1.25] 1.05	[1.11; 1.23]	[-0.10; 0.07] 0.05	[32.3; 38.8] 103.6	[27.6; 33.2] 93.9	[0.94; 1.06] 1.02	[1.00; 1.10] 1.02	[-0.03; 0.13] 0.00			
	[0.98; 1.13] 1.23	[1.02; 1.20] 1.20	[-0.03; 0.14] -0.02	[36.3; 240.0] 3.3	[33.1; 217.7] 2.8	[0.95; 1.10] 0.99	[0.93; 1.13] 0.99	[-0.09; 0.10] 0.00			
Spain	[1.20; 1.26] 1.19	[1.15; 1.26] 1.22	[-0.09; 0.04] 0.02	[3.1; 3.5] 7.4	[2.6; 2.9]	[0.97; 1.01] 1.04	[0.94; 1.03]	[-0.05; 0.05] -0.05			
Sri Lanka	[1.17; 1.22]	[1.14; 1.29] 1.20	[-0.05; 0.10] 0.03	[5.5; 9.9]	[4.5; 8.1]	[1.02; 1.06]* 1.06	[0.93; 1.05] 1.03	[-0.11; 0.01]			
Saint Vincent and the Grenadines	1.17 [1.09; 1.24]	[1.09; 1.32]	[-0.08; 0.15]	14.9 [10.9; 20.3]	12.4 [9.1; 17.1]	[1.00; 1.13]	[0.94; 1.13]	-0.03 [-0.13; 0.07]			
State of Palestine¶	1.11 [1.05; 1.18]	1.19 [1.10; 1.29]	0.08 [-0.03; 0.19]	16.1 [11.6; 22.3]	13.5 [9.8; 18.9]	1.08 [1.02; 1.15]*	1.03 [0.95; 1.12]	-0.05 [-0.15; 0.05]			
Sudan	1.13 [1.08; 1.18]	1.20 [1.12; 1.29]	0.07 [-0.02; 0.16]	59.7 [40.6; 87.8]	49.8 [33.7; 73.5]	0.98 [0.93; 1.02]	0.98 [0.91; 1.05]	0.00 [-0.08; 0.08]			
Suriname	1.23 [1.14; 1.35]	1.27 [1.15; 1.40]	0.04 [-0.09; 0.16]	19.1 [12.1; 30.8]	15.1 [9.5; 24.6]	0.99 [0.90; 1.07]	0.98 [0.88; 1.07]	-0.01 [-0.11; 0.09]			
¶: Sex ratio is outlying in 1990. §: Sex											

^{| [1.14; 1.35] | [1.15; 1.40] | [-0.09; 0.16] | [12.1; 30.8] | [9.3, 24.0] | [0.30, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.50, 1.07] | [0.5}

Table 15 – continued from previous page

	Table 15 – continued from previous page Sex ratio U5MR Sex-specific U5MR in 2021 (per 1,000) Estimated/Expected female U5							
	1990	2021	Change	Male	Female	1990	2021	Change
			1990-2021					1990-2021
Eswatini	1.20	1.21	0.00	57.4	47.6	0.97	0.99	0.02
	[1.13; 1.28]	[1.11; 1.30]	[-0.11; 0.10]	[34.8; 93.0]	[29.0; 78.6]	[0.91; 1.04]	[0.91; 1.08]	[-0.07; 0.12]
Sweden	1.24 [1.20; 1.29]	1.19 [1.13; 1.26]	-0.05 [-0.13; 0.03]	2.7 [2.5; 2.9]	2.2 [2.1; 2.4]	0.97	0.99 [0.94; 1.05]	0.03 [-0.03; 0.09]
	1.27	1.18	-0.09	4.1	3.5	0.95	1.01	0.05
Switzerland	[1.22; 1.31]	[1.11; 1.24]	[-0.17; -0.01]†	[3.9; 4.4]	[3.3; 3.8]	[0.92; 0.99]*	[0.95; 1.07]	[-0.01; 0.12]
Syria	1.17	1.21	0.04	24.3	20.1	1.05	1.01	-0.04
Syria	[1.11; 1.23]	[1.11; 1.32]	[-0.07; 0.16]	[12.6; 33.9]	[10.4; 27.9]	[0.99; 1.11]	[0.93; 1.10]	[-0.13; 0.06]
Tajikistan	1.17	1.28	0.11	35.1	27.4	0.98	0.96	-0.02
	[1.10; 1.24] 1.08	[1.18; 1.40] 1.17	[0.00; 0.24]†	[20.7; 60.9] 50.7	[16.0; 47.6] 43.4	[0.92; 1.04] 1.01	[0.88; 1.05]	[-0.11; 0.07] 0.00
Tanzania	[1.04; 1.12]	[1.09; 1.25]	[0.01; 0.18]†	[34.4; 76.0]	[29.4; 64.7]	[0.97; 1.05]	[0.94; 1.09]	[-0.08; 0.09]
Thailand	1.23	1.22	-0.01	9.1	7.4	0.99	0.99	0.00
Thanand	[1.16; 1.32]	[1.11; 1.34]	[-0.13; 0.10]	[7.6; 12.0]	[6.2; 9.8]	[0.93; 1.06]	[0.91; 1.09]	[-0.09; 0.10]
Timor Leste	1.08	1.18	0.10	54.6	46.2	1.02	1.02	0.00
	[1.02; 1.15] 1.13	[1.09; 1.29] 1.18	[0.00; 0.21]† 0.04	[35.8; 82.4] 67.5	[30.2; 69.7]	[0.96; 1.09] 0.97	[0.93; 1.11] 0.99	[-0.10; 0.10] 0.02
Togo	[1.09; 1.18]	[1.10; 1.25]	[-0.04; 0.13]	[50.6; 89.4]	[43.1; 76.5]	[0.93; 1.01]	[0.92; 1.06]	[-0.06; 0.10]
	1.28	1.27	-0.01	12.4	9.8	0.97	0.96	0.00
Tonga	[1.16; 1.40]	[1.16; 1.38]	[-0.14; 0.12]	[6.7; 21.7]	[5.2; 17.1]	[0.89; 1.06]	[0.88; 1.05]	[-0.10; 0.09]
Trinidad and Tobago	1.18	1.21	0.03	17.8	14.7	1.04	1.02	-0.03
Timuad and Tobago	[1.08; 1.29]	[1.10; 1.34]	[-0.09; 0.15]	[7.3; 45.3]	[6.0; 37.5]	[0.96; 1.14]	[0.92; 1.12]	[-0.14; 0.08]
Tunisia	1.13	1.19	0.05	17.7	14.9	1.05	1.04	-0.01
	[1.07; 1.20] 1.07	[1.13; 1.25]	[-0.03; 0.14] 0.07	[14.9; 20.9] 9.6	[12.5; 17.7] 8.4	[0.99; 1.11] 1.09	[0.99; 1.10] 1.06	[-0.09; 0.07] -0.02
Turkey¶	[1.03; 1.12]	[1.10; 1.19]	[0.01; 0.14]†	[8.2; 11.3]	[7.2; 9.9]	[1.04; 1.14]*	[1.02; 1.10]*	[-0.09; 0.04]
To do on interest	1.28	1.32	0.04	47.0	35.5	0.91	0.92	0.02
Turkmenistan¶	[1.19; 1.40]	[1.20; 1.46]	[-0.09; 0.17]	[30.7; 70.9]	[23.1; 54.0]	[0.83; 0.99]*	[0.83; 1.02]	[-0.08; 0.11]
Turks and Caicos Islands¶	1.48	1.13	-0.35	4.8	4.2	0.83	1.05	0.22
д	[1.40; 1.56]	[1.06; 1.21]	[-0.45; -0.24]†	[2.8; 8.1]	[2.5; 7.2]	[0.79; 0.88]*	[0.99; 1.13]	[0.14; 0.30]†
Tuvalu	1.18 [1.08; 1.28]	1.23 [1.12; 1.34]	0.05	23.3 [13.0; 41.0]	19.0 [10.7; 33.6]	1.01 [0.93; 1.12]	1.01 [0.92; 1.10]	-0.01 [-0.11; 0.09]
**	1.14	1.24	0.10	46.5	37.5	0.95	0.96	0.02
Uganda¶	[1.10; 1.18]	[1.16; 1.33]	[0.01; 0.19]†	[32.4; 66.3]	[26.1; 53.2]	[0.91; 0.98]*	[0.89; 1.03]	[-0.06; 0.09]
Ukraine	1.24	1.21	-0.03	9.0	7.4	1.00	1.00	0.00
CRIAIIC	[1.14; 1.36]	[1.10; 1.34]	[-0.16; 0.09]	[8.4; 9.6]	[6.9; 8.0]	[0.91; 1.09]	[0.91; 1.10]	[-0.10; 0.10]
United Arab Emirates	1.28 [1.19; 1.38]	1.22	-0.06 [-0.18; 0.05]	7.0	5.7	0.97 [0.90; 1.04]	0.98 [0.91; 1.06]	0.02 [-0.07; 0.11]
	1.29	[1.13; 1.31] 1.20	-0.09	[5.9; 8.2] 4.6	[4.9; 6.8]	0.95	0.99	0.04
United Kingdom	[1.26; 1.31]	[1.15; 1.25]	[-0.14; -0.03]†	[4.3; 4.8]	[3.6; 4.0]	[0.93; 0.96]*	[0.95; 1.03]	[0.00; 0.09]†
United States of America	1.25	1.20	-0.05	6.8	5.7	0.97	0.99	0.02
Offited States of America	[1.24; 1.27]	[1.16; 1.25]	[-0.09; -0.01]†	[6.4; 7.2]	[5.3; 6.0]	[0.96; 0.99]*	[0.96; 1.03]	[-0.02; 0.05]
Uruguay	1.24	1.22	-0.02	6.4	5.2	1.00	0.98	-0.02
	[1.20; 1.28] 1.28	[1.15; 1.29] 1.30	[-0.10; 0.06] 0.02	[5.8; 7.0] 15.9	[4.7; 5.8]	[0.97; 1.03] 0.92	[0.92; 1.04] 0.95	[-0.08; 0.04] 0.03
Uzbekistan¶	[1.20; 1.37]	[1.19; 1.44]	[-0.10; 0.15]	[14.3; 18.2]	[10.9; 14.0]	[0.86; 0.98]*	[0.86; 1.04]	[-0.06; 0.12]
**	1.17	1.18	0.01	25.1	21.3	1.05	1.05	0.00
Vanuatu	[1.05; 1.28]	[1.06; 1.29]	[-0.11; 0.12]	[14.1; 45.0]	[12.0; 38.4]	[0.95; 1.17]	[0.95; 1.17]	[-0.10; 0.11]
Venezuela (Bolivarian Republic of)	1.22	1.18	-0.04	26.1	22.1	1.01	1.00	-0.01
	[1.20; 1.24]	[1.11; 1.25]	[-0.11; 0.03]	[19.2; 35.6]	[16.3; 30.2]	[0.99; 1.03]	[0.94; 1.06]	[-0.07; 0.05]
Vietnam¶§	1.37 [1.30; 1.45]	1.42 [1.33; 1.51]	0.05	24.1 [21.3; 27.3]	17.0 [15.0; 19.3]	0.85 [0.80; 0.90]*	0.87 [0.81; 0.93]*	0.02 [-0.05; 0.08]
	1.09	1.14	0.05	66.3	58.0	1.03	1.02	0.00
Yemen	[1.05; 1.13]	[1.06; 1.23]	[-0.04; 0.15]	[29.5; 141.0]	[25.6; 122.5]	[0.99; 1.06]	[0.94; 1.12]	[-0.09; 0.10]
Zambia	1.10	1.19	0.09	62.5	52.6	0.99	0.98	-0.01
Zamora	[1.06; 1.13]	[1.11; 1.27]	[0.01; 0.18]†	[44.4; 87.3]	[37.4; 73.7]	[0.96; 1.02]	[0.91; 1.05]	[-0.08; 0.07]
Zimbabwe	1.18	1.21	0.02	54.0	44.8	0.96	0.98	0.02
	[1.13; 1.24]	[1.13; 1.29]	[-0.07; 0.11]	[37.1; 78.4]	[30.8; 65.2]	[0.91; 1.01]	[0.91; 1.05]	[-0.06; 0.10]

Table 16: Estimates and 90% uncertainty intervals for sex ratios for 5q5 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 5q5 in 2021, and ratios of estimated to expected female 5q5 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio 5q5			q5 in 2021 (per 1,000)		stimated/Expected	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World	1.04	1.13	0.08	3.7	3.3	1.04	1.02	-0.03
	[1.01; 1.07] 0.92	[1.07; 1.17] 1.23	[0.03; 0.12]† 0.31	[3.5; 3.9]	[3.1; 3.5]	[1.01; 1.07]* 1.13	[0.97; 1.06] 1.13	[-0.06; 0.03] 0.00
South Asia¶	[0.87; 0.98]	[1.10; 1.37]	[0.16; 0.47]†	[2.1; 2.7]	[1.7; 2.2]	[1.06; 1.21]*	[1.00; 1.27]*	[-0.15; 0.16]
Europe and Central Asia	1.41 [1.35; 1.46]	1.31 [1.27; 1.35]	-0.10 [-0.17; -0.03]†	0.7 [0.7; 0.8]	0.6 [0.6; 0.6]	0.93 [0.89; 0.97]*	1.03 [1.00; 1.06]*	0.10 [0.05; 0.16]†
Middle East and North Africa	1.15 [1.09; 1.20]	1.35 [1.25; 1.45]	0.20 [0.08; 0.32]†	2.3 [2.0; 2.5]	1.7 [1.5; 1.9]	0.99 [0.94; 1.05]	1.02 [0.94; 1.11]	0.03 [-0.07; 0.13]
Sub-Saharan Africa	1.07 [1.03; 1.12]	1.09 [1.02; 1.14]	0.01 [-0.07; 0.08]	9.9 [9.1; 10.6]	9.1 [8.4; 9.7]	0.99 [0.95; 1.02]	0.99 [0.94; 1.05]	0.00 [-0.06; 0.09]
Latin America and Caribbean	1.25	1.24	-0.01	1.3	1.1	1.04	1.09	0.05
East Asia and Pacific	[1.22; 1.29] 1.17	[1.17; 1.31] 1.41	[-0.09; 0.07] 0.24	[1.3; 1.4] 1.6	[1.0; 1.2] 1.1	[1.01; 1.07]* 1.01	[1.02; 1.15]* 0.98	[-0.03; 0.12] -0.04
	[1.10; 1.25] 1.36	[1.27; 1.56] 1.19	[0.07; 0.42]†	[1.3; 1.8] 0.6	[1.0; 1.3]	[0.93; 1.09]	[0.88; 1.08]	[-0.17; 0.10] 0.05
North America	[1.32; 1.41]	[1.10; 1.29] 1.49	[-0.27; -0.06]† 0.44	[0.6; 0.6]	[0.5; 0.5]	[0.99; 1.07] 1.00	[1.00; 1.17]* 0.97	[-0.04; 0.15] -0.03
Afghanistan	[0.92; 1.19]	[1.19; 1.84]	[0.09; 0.84]†	[1.9; 3.4]	[1.3; 2.3]	[0.88; 1.15]	[0.78; 1.21]	[-0.28; 0.25]
Albania	1.37 [1.26; 1.49]	1.09 [0.90; 1.31]	-0.28 [-0.51; -0.03]†	0.9 [0.8; 1.0]	0.8 [0.7; 0.9]	0.98 [0.90; 1.07]	1.24 [1.04; 1.48]*	0.26 [0.03; 0.53]†
Algeria	1.33 [1.21; 1.45]	1.17 [1.08; 1.27]	-0.15 [-0.31; 0.00]†	1.5 [1.5; 1.6]	1.3 [1.2; 1.4]	0.91 [0.82; 1.02]	1.21 [1.11; 1.31]*	0.30 [0.16; 0.43]†
Andorra	1.43 [1.26; 1.62]	1.30 [1.02; 1.65]	-0.13 [-0.49; 0.28]	0.4	0.3	0.99 [0.87; 1.12]	0.98 [0.77; 1.24]	-0.01 [-0.27; 0.29]
Angola	1.03	1.10	0.07	9.9	9.0	1.00	0.97	-0.03
Anguilla	[0.91; 1.17] 1.42	[0.88; 1.38] 1.27	[-0.21; 0.39] -0.15	[7.5; 12.9] 0.5	[6.8; 11.8] 0.4	[0.88; 1.13]	[0.76; 1.25]	[-0.29; 0.29] 0.00
	[1.25; 1.61]	[1.00; 1.62] 1.39	[-0.51; 0.26] -0.03	[0.4; 0.7] 0.7	[0.3; 0.5]	[0.88; 1.13] 0.99	[0.79; 1.27] 0.95	[-0.26; 0.31] -0.04
Antigua and Barbuda	[1.25; 1.61]	[1.09; 1.76]	[-0.41; 0.39] -0.23	[0.6; 0.9]	[0.4; 0.7] 0.6	[0.88; 1.12]	[0.76; 1.20]	[-0.28; 0.24]
Argentina	1.38 [1.31; 1.46]	1.16 [1.05; 1.27]	[-0.36; -0.09]†	[0.6; 0.7]	[0.5; 0.6]	[0.98; 1.09]	1.13 [1.03; 1.24]*	0.10 [-0.02; 0.22]
Armenia	1.44 [1.31; 1.58]	1.29 [1.09; 1.53]	-0.15 [-0.41; 0.14]	1.1 [0.9; 1.2]	0.8 [0.7; 0.9]	1.00 [0.91; 1.10]	1.07 [0.91; 1.26]	0.07 [-0.13; 0.29]
Australia	1.38 [1.28; 1.48]	1.27 [1.12; 1.45]	-0.11 [-0.29; 0.10]	0.4	0.3 [0.3; 0.3]	1.00 [0.93; 1.07]	1.00 [0.87; 1.13]	0.00 [-0.15; 0.16]
Austria	1.37	1.15	-0.22	0.3	0.3	1.00	1.10	0.10
Azerbaijan	[1.25; 1.51] 1.30	[0.97; 1.35] 1.29	[-0.46; 0.04] -0.01	[0.3; 0.4]	[0.3; 0.3]	[0.92; 1.10] 1.06	[0.94; 1.31] 1.10	[-0.10; 0.33] 0.04
Bahamas	[1.22; 1.39]	[1.16; 1.44] 1.35	[-0.17; 0.16] -0.09	[1.6; 1.8] 1.1	[1.2; 1.4] 0.8	[0.98; 1.15]	[0.99; 1.23] 1.03	[-0.11; 0.19] 0.02
	[1.26; 1.62] 1.44	[1.07; 1.70] 1.33	[-0.45; 0.33] -0.11	[0.8; 1.5] 1.0	[0.6; 1.1] 0.7	[0.88; 1.14] 1.00	[0.82; 1.28]	[-0.24; 0.32] 0.02
Bahrain	[1.28; 1.63]	[1.12; 1.57]	[-0.40; 0.19] 0.49	[0.8; 1.2] 2.9	[0.6; 0.9]	[0.89; 1.12] 1.05	[0.87; 1.21] 0.99	[-0.18; 0.24]
Bangladesh	0.98 [0.89; 1.08]	1.46 [1.24; 1.72]	[0.24; 0.76]†	[2.6; 3.2]	[1.7; 2.3]	[0.95; 1.16]	[0.84; 1.16]	-0.06 [-0.26; 0.15]
Barbados	1.43 [1.26; 1.62]	1.28 [1.00; 1.64]	-0.15 [-0.50; 0.27]	0.5 [0.3; 0.9]	0.4 [0.2; 0.7]	0.99 [0.88; 1.12]	1.00 [0.79; 1.28]	0.01 [-0.26; 0.32]
Belarus	1.66 [1.55; 1.78]	1.33 [1.13; 1.57]	-0.33 [-0.56; -0.07]†	0.6	0.4 [0.4; 0.5]	0.87 [0.81; 0.94]*	0.96 [0.83; 1.12]	0.09 [-0.06; 0.26]
Belgium	1.33	1.29	-0.04 [-0.27; 0.20]	0.4	0.3	1.04	0.99	-0.06
Belize	[1.22; 1.46] 1.44	[1.11; 1.50] 1.32	-0.12	1.4	[0.3; 0.3]	1.00	[0.85; 1.15] 1.07	[-0.23; 0.13] 0.06
	[1.27; 1.63] 1.03	[1.05; 1.67] 1.05	[-0.47; 0.28] 0.02	[1.1; 1.7]	[0.8; 1.3]	[0.88; 1.14] 1.01	[0.85; 1.33]	[-0.20; 0.37] -0.02
Benin	[0.92; 1.16]	[0.87; 1.28]	[-0.22; 0.28] 0.43	[9.4; 15.4] 3.0	[8.9; 14.7] 2.1	[0.91; 1.12] 1.00	[0.81; 1.21] 0.95	[-0.24; 0.24] -0.06
Bhutan	[0.91; 1.18]	[1.16; 1.86]	[0.07; 0.86]†	[1.1; 6.3]	[0.8; 4.3]	[0.88; 1.16]	[0.71; 1.22]	[-0.37; 0.25]
Bolivia (Plurinational State of)	1.09 [0.96; 1.23]	1.42 [1.12; 1.81]	0.33 [-0.02; 0.75]	2.4 [1.3; 3.5]	1.7 [0.9; 2.5]	1.03 [0.90; 1.19]	1.01 [0.79; 1.28]	-0.02 [-0.31; 0.29]
Bosnia and Herzegovina	1.51 [1.35; 1.69]	1.31 [1.12; 1.54]	-0.20 [-0.48; 0.09]	0.6 [0.5; 0.7]	0.4 [0.4; 0.5]	0.94 [0.84; 1.05]	0.98 [0.84; 1.14]	0.04 [-0.15; 0.24]
Botswana	1.04 [0.91; 1.18]	1.43 [1.14; 1.80]	0.39 [0.05; 0.80]†	4.7 [2.9; 6.6]	3.3 [2.0; 4.7]	1.00 [0.88; 1.14]	0.92 [0.70; 1.20]	-0.08 [-0.36; 0.24]
Brazil	1.43	1.28	-0.15 [-0.39; 0.10]	1.0	0.8	1.01	1.07	0.06 [-0.12; 0.25]
British Virgin Islands	[1.30; 1.58]	[1.11; 1.48] 1.38	-0.05	[1.0; 1.1]	[0.7; 0.9]	[0.92; 1.11]	[0.93; 1.23]	0.00
Brunei	[1.26; 1.62] 1.46	[1.08; 1.77] 1.36	[-0.41; 0.39] -0.10	[0.9; 1.5]	[0.6; 1.1] 0.9	[0.88; 1.13] 0.99	[0.78; 1.26] 1.02	[-0.26; 0.29] 0.04
	[1.29; 1.65] 1.43	[1.08; 1.72] 1.23	[-0.46; 0.32] -0.20	[0.9; 1.5] 0.8	[0.7; 1.1] 0.7	[0.88; 1.12] 1.01	[0.81; 1.28] 1.09	[-0.23; 0.33] 0.08
Bulgaria	[1.33; 1.54]	[1.07; 1.43]	[-0.41; 0.02]	[0.7; 0.9]	[0.6; 0.7]	[0.94; 1.08]	[0.94; 1.25]	[-0.09; 0.26]
Burkina Faso	1.07 [0.96; 1.19]	1.10 [0.88; 1.37]	0.03 [-0.24; 0.34]	11.9 [7.4; 15.5]	10.8 [6.7; 14.2]	0.98 [0.88; 1.08]	0.96 [0.76; 1.22]	-0.02 [-0.26; 0.28]
Burundi	1.07 [0.94; 1.22]	1.07 [0.87; 1.32]	0.00 [-0.27; 0.30]	11.4 [8.0; 14.8]	10.6 [7.4; 13.9]	1.01 [0.90; 1.14]	0.98 [0.79; 1.24]	-0.03 [-0.27; 0.26]
Cambodia	0.99 [0.88; 1.11]	1.49 [1.17; 1.88]	0.50 [0.14; 0.92]†	3.2 [1.6; 4.6]	2.2 [1.1; 3.1]	1.04 [0.93; 1.16]	0.95 [0.74; 1.22]	-0.09 [-0.36; 0.22]
Cameroon	1.03	1.15	0.12	14.2	12.3	1.00	0.90	-0.10
Canada	[0.92; 1.16]	[0.94; 1.40] 1.14	[-0.14; 0.41] -0.17	[10.4; 17.8] 0.4	[9.0; 15.5] 0.3	[0.89; 1.12] 1.06	[0.73; 1.11] 1.11	[-0.31; 0.15] 0.05
¶: Sex ratio is outlying in 1990. §: Se:	[1.22; 1.40]	[1.01; 1.29]	[-0.32; 0.00]	[0.3; 0.4]	[0.3; 0.4]	[0.99; 1.13]	[0.99; 1.26]	[-0.10; 0.21]

Table 16 – continued from previous page

	Table 16 – continued from previous page Sex ratio 5q5 Sex-specific 5q5 in 2021 (per 1,000) Estimated/Expected female 5q5							
	1990	Sex ratio 5q5	Change	Male	Female	1990	2021	Change
	1.40	1.08	1990–2021 -0.32	0.9	0.8	0.99	1.25	1990–2021 0.25
Cape Verde	[1.24; 1.58]	[0.89; 1.32]	[-0.59; -0.02]†	[0.7; 1.1]	[0.7; 1.0]	[0.87; 1.14]	[1.03; 1.50]*	[-0.02; 0.54]
Central African Republic	1.04 [0.92; 1.17]	0.93 [0.75; 1.16]	-0.11 [-0.35; 0.16]	12.6 [8.5; 17.0]	13.5 [9.1; 18.2]	0.99 [0.88; 1.11]	1.12 [0.89; 1.43]	0.13 [-0.14; 0.48]
Chad	1.06 [0.95; 1.20]	1.03 [0.85; 1.24]	-0.04 [-0.27; 0.21]	12.5 [9.2; 16.2]	12.2 [9.0; 15.8]	1.00 [0.90; 1.12]	1.01 [0.84; 1.24]	0.01 [-0.21; 0.28]
Chile	1.43 [1.34; 1.52]	1.20 [1.04; 1.37]	-0.23 [-0.42; -0.03]†	0.6 [0.6; 0.6]	0.5 [0.5; 0.5]	1.00 [0.94; 1.07]	1.07 [0.94; 1.22]	0.07 [-0.08; 0.24]
China	1.29	1.51	0.23	1.0	0.7	1.00	0.90	-0.10
Colombia	[1.14; 1.46]	[1.22; 1.88]	[-0.14; 0.65] -0.10	[0.7; 1.4]	[0.5; 0.9] 0.9	[0.86; 1.16] 1.01	[0.73; 1.11]	[-0.35; 0.17] 0.03
Comoros	[1.28; 1.60] 1.01	[1.14; 1.54] 1.27	[-0.36; 0.17] 0.27	[1.1; 1.2] 4.0	[0.8; 1.0] 3.2	[0.91; 1.13] 1.04	[0.91; 1.21] 1.08	[-0.16; 0.23] 0.04
	[0.89; 1.14]	[1.01; 1.60] 1.39	[-0.05; 0.63] 0.36	[2.5; 5.5] 4.0	[1.9; 4.3] 2.9	[0.91; 1.19] 1.00	[0.82; 1.39] 0.98	[-0.27; 0.39] -0.02
Congo	[0.91; 1.17] 1.04	[1.09; 1.75] 1.03	[0.02; 0.76]† 0.00	[2.1; 6.2] 11.0	[1.5; 4.5] 10.7	[0.89; 1.14] 1.00	[0.75; 1.28]	[-0.32; 0.31] 0.02
Democratic Republic of the Congo	[0.91; 1.18]	[0.84; 1.27]	[-0.26; 0.28]	[7.4; 14.8]	[7.1; 14.3]	[0.88; 1.13]	[0.82; 1.29]	[-0.23; 0.33]
Cook Islands	1.46 [1.29; 1.66]	1.38 [1.08; 1.77]	-0.08 [-0.46; 0.37]	1.0 [0.8; 1.4]	0.7 [0.6; 1.0]	0.97 [0.85; 1.11]	0.99 [0.78; 1.25]	0.02 [-0.26; 0.33]
Costa Rica	1.34 [1.21; 1.49]	1.23 [1.05; 1.46]	-0.11 [-0.36; 0.17]	0.8	0.6 [0.5; 0.7]	1.06 [0.96; 1.18]	1.08 [0.92; 1.26]	0.02 [-0.19; 0.24]
Cote d'Ivoire	1.05 [0.93; 1.18]	0.96 [0.78; 1.20]	-0.08 [-0.32; 0.19]	13.2 [9.3; 17.6]	13.7 [9.7; 18.4]	0.98 [0.87; 1.10]	1.07 [0.86; 1.35]	0.10 [-0.16; 0.41]
Croatia	1.42 [1.29; 1.56]	1.36	-0.06 [-0.33; 0.26]	0.8	0.6	1.00	0.98	-0.02 [-0.22; 0.19]
Cuba	1.45	[1.14; 1.64]	-0.18	0.9	0.7	0.99	1.07	0.08
Cyprus	[1.34; 1.58] 1.39	[1.11; 1.45] 1.24	[-0.39; 0.04] -0.15	[0.9; 1.0] 0.6	[0.7; 0.8] 0.5	[0.91; 1.07] 1.00	[0.94; 1.21]	[-0.08; 0.24] 0.04
	[1.23; 1.57] 1.46	[0.98; 1.57]	[-0.49; 0.24] -0.35	[0.5; 0.8]	[0.4; 0.6]	[0.89; 1.13] 0.97	[0.83; 1.30]	[-0.23; 0.34] 0.17
Czech Republic	[1.35; 1.59] 1.42	[0.96; 1.29] 1.17	[-0.55; -0.13]† -0.25	[0.4; 0.5]	[0.3; 0.4]	[0.89; 1.05] 0.97	[0.98; 1.32] 1.08	[-0.02; 0.37] 0.12
Denmark	[1.28; 1.58]	[0.97; 1.40]	[-0.52; 0.04]	[0.3; 0.4]	[0.2; 0.3]	[0.88; 1.07]	[0.90; 1.30]	[-0.10; 0.37]
Djibouti	1.03 [0.91; 1.17]	1.12 [0.87; 1.44]	0.09 [-0.21; 0.44]	7.7 [5.8; 10.1]	6.9 [5.2; 9.1]	1.00 [0.88; 1.13]	1.01 [0.76; 1.35]	0.01 [-0.29; 0.38]
Dominica	1.46 [1.29; 1.65]	1.42 [1.11; 1.80]	-0.04 [-0.42; 0.39]	1.7 [0.9; 2.6]	1.2 [0.6; 1.9]	0.98 [0.87; 1.11]	1.00 [0.79; 1.27]	0.02 [-0.24; 0.32]
Dominican Republic	1.29 [1.14; 1.46]	1.43 [1.13; 1.79]	0.14 [-0.22; 0.55]	1.8 [1.2; 2.6]	1.3 [0.8; 1.8]	1.02 [0.88; 1.17]	1.00 [0.80; 1.26]	-0.02 [-0.29; 0.29]
Ecuador	1.25 [1.17; 1.33]	1.23 [1.11; 1.36]	-0.02 [-0.17; 0.13]	1.2 [1.1; 1.2]	0.9 [0.9; 1.0]	1.09 [1.01; 1.17]*	1.13 [1.03; 1.25]*	0.04 [-0.09; 0.18]
Egypt	1.16	1.52	0.36	2.5	1.7	1.03	0.95	-0.07
El Salvador	[1.06; 1.28] 1.33	[1.30; 1.79] 1.27	[0.11; 0.65]† -0.06	[2.4; 2.7] 1.4	[1.5; 1.8] 1.1	[0.92; 1.14] 1.06	[0.81; 1.11] 1.11	[-0.26; 0.12] 0.05
	[1.23; 1.44] 1.03	[1.10; 1.47] 1.07	[-0.27; 0.17] 0.05	[1.3; 1.5] 9.3	[1.0; 1.2] 8.7	[0.98; 1.16] 1.00	[0.96; 1.28]	[-0.13; 0.24] 0.00
Equatorial Guinea	[0.90; 1.17] 1.06	[0.84; 1.38]	[-0.25; 0.39] 0.38	[7.0; 12.2] 4.1	[6.5; 11.4] 2.8	[0.88; 1.13] 0.98	[0.77; 1.33]	[-0.29; 0.36] -0.04
Eritrea	[0.94; 1.20]	[1.14; 1.84]	[0.04; 0.80]†	[2.2; 6.3]	[1.5; 4.4] 0.4	[0.88; 1.10]	[0.70; 1.22]	[-0.32; 0.27] 0.07
Estonia	[1.32; 1.63]	[0.98; 1.47]	[-0.56; 0.06]	[0.4; 0.6]	[0.3; 0.5]	[0.89; 1.10]	[0.87; 1.29]	[-0.16; 0.33]
Ethiopia	1.14 [1.00; 1.30]	1.37 [1.09; 1.71]	0.23 [-0.11; 0.61]	4.8 [3.1; 6.4]	3.5 [2.3; 4.7]	0.98 [0.87; 1.09]	0.96 [0.74; 1.25]	-0.02 [-0.28; 0.30]
Federated States of Micronesia	1.23 [1.08; 1.39]	1.43 [1.11; 1.83]	0.20 [-0.18; 0.64]	3.3 [2.5; 4.3]	2.3 [1.7; 3.1]	1.00 [0.85; 1.18]	0.99 [0.76; 1.29]	0.00 [-0.30; 0.34]
Fiji	1.15 [1.01; 1.30]	1.43 [1.20; 1.70]	0.28 [-0.01; 0.59]	2.5 [2.2; 2.9]	1.8 [1.5; 2.1]	1.01 [0.88; 1.18]	1.02 [0.86; 1.20]	0.00 [-0.24; 0.25]
Finland	1.39 [1.26; 1.54]	1.06 [0.89; 1.28]	-0.33 [-0.57; -0.06]†	0.3	0.3 [0.3; 0.3]	0.99 [0.90; 1.09]	1.19 [0.99; 1.43]	0.20 [-0.04; 0.46]
France	1.32	1.32	0.00	0.4	0.3	1.05	0.96	-0.08
Gabon	[1.25; 1.39] 1.08	[1.18; 1.47] 1.24	[-0.16; 0.17] 0.17	[0.4; 0.4] 5.6	[0.3; 0.3]	[0.99; 1.11] 0.99	[0.86; 1.08]	[-0.21; 0.04] 0.02
The Gambia	[0.95; 1.22] 1.03	[0.98; 1.58]	[-0.15; 0.54] 0.20	[2.3; 9.9] 5.8	[1.8; 8.0] 4.7	[0.86; 1.17] 1.00	[0.73; 1.37]	[-0.33; 0.42] 0.00
	[0.91; 1.17] 1.45	[0.99; 1.53] 1.34	[-0.10; 0.54] -0.10	[4.5; 7.6] 0.9	[3.6; 6.2]	[0.88; 1.13]	[0.77; 1.29] 1.01	[-0.28; 0.33] 0.01
Georgia	[1.30; 1.61] 1.33	[1.12; 1.62] 1.29	[-0.40; 0.23] -0.04	[0.8; 1.0] 0.4	[0.6; 0.8]	[0.89; 1.11] 1.04	[0.84; 1.20]	[-0.20; 0.24] -0.05
Germany	[1.26; 1.40]	[1.17; 1.42]	[-0.18; 0.10]	[0.4; 0.4]	[0.3; 0.3]	[0.99; 1.10]	[0.89; 1.09]	[-0.16; 0.06] 0.10
Ghana	1.09 [0.97; 1.22]	1.16 [0.94; 1.43]	0.07 [-0.20; 0.38]	6.0 [4.5; 7.7]	5.2 [3.9; 6.6]	0.94 [0.84; 1.06]	1.05 [0.81; 1.35]	[-0.17; 0.44]
Greece	1.32 [1.21; 1.44]	1.34 [1.14; 1.58]	0.02 [-0.22; 0.29]	0.4 [0.4; 0.4]	0.3 [0.3; 0.3]	1.04 [0.96; 1.13]	0.95 [0.80; 1.11]	-0.09 [-0.27; 0.10]
Grenada	1.43 [1.26; 1.62]	1.46 [1.14; 1.84]	0.02 [-0.37; 0.46]	2.1 [1.4; 2.9]	1.4 [1.0; 2.1]	1.00 [0.87; 1.14]	0.99 [0.78; 1.26]	-0.01 [-0.28; 0.30]
Guatemala¶	0.97 [0.93; 1.01]	1.14 [1.01; 1.28]	0.17 [0.04; 0.32]†	1.5 [1.4; 1.6]	1.4 [1.3; 1.5]	1.17 [1.11; 1.25]*	1.25 [1.11; 1.40]*	0.07 [-0.08; 0.24]
Guinea	1.03	1.02 [0.82; 1.25]	-0.01 [-0.26; 0.27]	12.0 [8.7; 15.0]	11.9	1.02 [0.91; 1.14]	1.03	0.01
Guinea-Bissau	1.08	1.15	0.08	8.1	7.0	0.99	0.98	-0.02
Guyana	[0.94; 1.23]	[0.92; 1.44]	[-0.21; 0.40] -0.07	[4.6; 11.9]	[4.0; 10.4]	[0.87; 1.13] 1.03	[0.76; 1.30]	[-0.29; 0.31] 0.05
Haiti	[1.25; 1.56] 1.02	[1.08; 1.65] 1.01	[-0.39; 0.30] -0.02	[1.7; 2.7] 6.8	[1.3; 2.1] 6.8	[0.92; 1.16] 1.00	[0.88; 1.33]	[-0.21; 0.33] 0.14
	[0.91; 1.16] 1.17	[0.79; 1.27] 1.39	[-0.28; 0.29] 0.22	[4.5; 9.2] 2.1	[4.4; 9.2] 1.5	[0.89; 1.12] 1.03	[0.85; 1.53] 1.03	[-0.19; 0.55] 0.00
Honduras	[1.04; 1.32]	[1.11; 1.75]	[-0.13; 0.62] -0.14	[1.3; 3.1]	[1.0; 2.3]	[0.89; 1.20]	[0.82; 1.29]	[-0.28; 0.32] 0.00
Hungary	[1.28; 1.50]	[1.07; 1.46]	[-0.36; 0.10]	[0.4; 0.5]	[0.3; 0.4]	[0.94; 1.10]	[0.87; 1.19]	[-0.17; 0.19]
Iceland	1.40 [1.23; 1.58]	1.29 [1.02; 1.64]	-0.11 [-0.46; 0.29]	0.2 [0.1; 0.3]	0.2 [0.1; 0.2]	0.99 [0.88; 1.12]	0.98 [0.78; 1.24]	-0.01 [-0.26; 0.29]
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	n 2021. *: The ra	tio of estimated to e	xpected female n	nortality is significantly d	ifferent from one.	†: Change is signif	icantly different from zero.

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

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Table 16 – continued from previous page										
	1990	Sex ratio 5q5 2021	Change	Sex-specific 5 Male	q5 in 2021 (per 1,000) Female	1990	stimated/Expected	Change		
India¶	0.90	1.23	1990–2021 0.33	1.9	1.5	1.15	1.16 [1.00; 1.36]	0.02		
Indonesia	[0.83; 0.97]	[1.05; 1.44] 1.39	0.36	[1.5; 2.2]	[1.2; 1.8]	[1.06; 1.25]* 1.04	1.02	[-0.18; 0.23] -0.02		
Iran (Islamic Republic of)	[0.93; 1.15]	[1.13; 1.72]	0.06; 0.71]†	[2.3; 4.1]	[1.6; 3.0]	[0.93; 1.17] 0.99	[0.82; 1.28]	[-0.27; 0.26] 0.12		
Iraq	[0.93; 1.19] 1.18	[1.08; 1.54] 1.37	[-0.03; 0.53] 0.19	[1.5; 1.9] 2.9	[1.2; 1.5]	[0.86; 1.14] 0.99	[0.93; 1.32] 1.05	[-0.13; 0.38] 0.06		
Ireland	[1.04; 1.35]	[1.09; 1.72] 1.40	[-0.15; 0.59] -0.08	[1.9; 4.1] 0.3	[1.4; 3.0] 0.2	[0.85; 1.16] 0.94	[0.82; 1.32] 0.91	[-0.24; 0.38] -0.03		
	[1.33; 1.64] 1.26	[1.19; 1.64] 1.36	[-0.35; 0.22] 0.10	[0.3; 0.4]	[0.2; 0.3]	[0.85; 1.03] 1.10	[0.77; 1.07] 0.93	[-0.20; 0.16] -0.17		
Israel	[1.15; 1.37] 1.33	[1.18; 1.57] 1.20	[-0.12; 0.35] -0.13	[0.4; 0.5]	[0.3; 0.3]	[1.01; 1.20]* 1.03	[0.81; 1.08] 1.06	[-0.33; 0.01] 0.03		
Italy	[1.25; 1.41] 1.45	[1.07; 1.35] 1.36	[-0.29; 0.04] -0.10	[0.3; 0.3]	[0.2; 0.3]	[0.97; 1.09] 0.99	[0.94; 1.19] 1.03	[-0.11; 0.18] 0.04		
Jamaica	[1.27; 1.64]	[1.06; 1.72] 1.19	[-0.47; 0.33] -0.29	[1.0; 1.6]	[0.7; 1.2]	[0.88; 1.13]	[0.82; 1.30]	[-0.23; 0.34] 0.13		
Japan	[1.41; 1.55]	[1.09; 1.30]	[-0.41; -0.16]†	[0.3; 0.4]	[0.3; 0.3]	[0.89; 0.98]*	[0.97; 1.17]	[0.02; 0.25]†		
Jordan	1.45 [1.28; 1.64]	1.41 [1.10; 1.80]	-0.04 [-0.42; 0.40]	1.6 [0.8; 2.3]	1.1 [0.6; 1.7]	0.98 [0.86; 1.12]	1.00 [0.79; 1.27]	0.02 [-0.25; 0.33]		
Kazakhstan	1.66 [1.57; 1.76]	1.45 [1.34; 1.58]	-0.21 [-0.36; -0.06]†	1.4 [1.4; 1.5]	1.0 [0.9; 1.0]	0.84 [0.79; 0.89]*	0.97 [0.89; 1.05]	0.14 [0.04; 0.23]†		
Kenya	1.07 [0.95; 1.20]	1.16 [0.93; 1.44]	0.09 [-0.20; 0.41]	5.3 [3.4; 7.3]	4.6 [2.9; 6.4]	0.97 [0.87; 1.10]	1.10 [0.84; 1.45]	0.13 [-0.18; 0.50]		
Kiribati	1.07 [0.94; 1.21]	1.24 [0.96; 1.57]	0.18 [-0.16; 0.55]	5.8 [4.4; 7.5]	4.6 [3.5; 6.2]	1.00 [0.87; 1.16]	0.99 [0.75; 1.34]	-0.01 [-0.31; 0.36]		
Democratic People's Republic of Korea	1.27 [1.12; 1.44]	1.44 [1.13; 1.83]	0.17 [-0.21; 0.61]	2.1 [1.6; 2.8]	1.5 [1.1; 2.0]	1.00 [0.85; 1.17]	1.00 [0.79; 1.27]	0.00 [-0.29; 0.32]		
Republic of Korea	1.43	1.31	-0.12 [-0.37; 0.14]	0.4	0.3	1.01 [0.91; 1.12]	0.97	-0.04		
Kosovo	1.32	[1.12; 1.52]	0.07	[0.4; 0.4]	[0.3; 0.3]	1.00	[0.84; 1.13] 1.00	[-0.23; 0.16]		
Kuwait	[1.16; 1.49] 1.29	[1.08; 1.76] 1.35	[-0.30; 0.50] 0.06	[0.9; 1.5]	[0.6; 1.1] 0.7	[0.85; 1.17] 0.99	[0.79; 1.27] 1.01	[-0.28; 0.32] 0.02		
	[1.16; 1.44] 1.41	[1.14; 1.60] 1.67	[-0.21; 0.35] 0.26	[0.9; 1.1] 1.5	[0.6; 0.8] 0.9	[0.89; 1.11] 1.00	[0.86; 1.18] 0.85	[-0.19; 0.23] -0.15		
Kyrgyzstan	[1.31; 1.52] 1.06	[1.49; 1.86] 1.43	[0.04; 0.48]† 0.37	[1.4; 1.6] 3.0	[0.8; 1.0] 2.1	[0.92; 1.08]	[0.76; 0.95]* 0.99	[-0.27; -0.02]† 0.01		
Lao People's Democratic Republic	[0.94; 1.21]	[1.14; 1.78] 1.12	[0.02; 0.76]†	[1.8; 4.6] 0.5	[1.2; 3.2]	[0.87; 1.11] 0.86	[0.78; 1.26]	[-0.25; 0.31] 0.27		
Latvia	[1.49; 1.79]	[0.92; 1.38]	[-0.78; -0.21]† -0.01	[0.4; 0.6]	[0.4; 0.5] 0.8	[0.78; 0.95]*	[0.93; 1.37]	[0.04; 0.54]† -0.01		
Lebanon	[1.25; 1.60]	[1.09; 1.78]	[-0.39; 0.42]	[0.9; 1.5]	[0.6; 1.1]	[0.87; 1.14]	[0.78; 1.26]	[-0.28; 0.31]		
Lesotho	1.06 [0.94; 1.21]	1.26 [1.00; 1.57]	0.19 [-0.12; 0.55]	5.0 [3.5; 6.8]	4.0 [2.8; 5.4]	1.01 [0.88; 1.17]	1.03 [0.78; 1.34]	0.01 [-0.29; 0.37]		
Liberia	1.01 [0.89; 1.15]	1.23 [0.99; 1.55]	0.23 [-0.08; 0.57]	10.3 [7.2; 13.6]	8.3 [5.8; 11.2]	1.02 [0.90; 1.15]	0.86 [0.68; 1.11]	-0.16 [-0.40; 0.14]		
Libya	1.27 [1.13; 1.44]	1.41 [1.10; 1.80]	0.13 [-0.23; 0.56]	1.4 [0.4; 2.7]	1.0 [0.3; 1.9]	0.98 [0.82; 1.15]	0.98 [0.77; 1.25]	0.01 [-0.28; 0.32]		
Lithuania	1.58 [1.45; 1.72]	1.22 [1.02; 1.46]	-0.36 [-0.62; -0.08]†	0.7	0.5 [0.5; 0.6]	0.92 [0.84; 1.00]*	1.06 [0.90; 1.26]	0.15 [-0.04; 0.37]		
Luxembourg	1.40 [1.24; 1.59]	1.28 [1.01; 1.63]	-0.12 [-0.48; 0.28]	0.2 [0.1; 0.3]	0.2 [0.1; 0.2]	0.98 [0.87; 1.10]	0.99 [0.78; 1.26]	0.01 [-0.25; 0.31]		
Macedonia	1.43 [1.28; 1.60]	1.26 [1.01; 1.56]	-0.18 [-0.50; 0.18]	0.8	0.6 [0.5; 0.7]	1.00 [0.90; 1.12]	1.06 [0.86; 1.30]	0.05 [-0.19; 0.33]		
Madagascar	1.05 [0.94; 1.19]	1.02 [0.85; 1.22]	-0.04 [-0.26; 0.21]	13.3 [10.6; 16.2]	13.1 [10.5; 15.9]	0.98	1.02	0.04 [-0.18; 0.29]		
Malawi	1.03	1.22	0.19	7.9	6.5	1.00	0.92	-0.09		
Malaysia	[0.92; 1.15]	[1.01; 1.46]	[-0.07; 0.47] -0.09	[6.3; 9.7] 0.9	[5.1; 8.0]	[0.90; 1.12]	[0.74; 1.14] 1.04	[-0.31; 0.16]		
Maldives	[1.29; 1.50]	[1.19; 1.41] 1.26	[-0.24; 0.07] 0.14	[0.8; 0.9] 0.7	[0.6; 0.7] 0.5	[0.97; 1.13] 1.10	[0.95; 1.13] 1.04	[-0.13; 0.11] -0.06		
Mali	[0.99; 1.26] 1.05	[0.99; 1.58] 1.09	[-0.18; 0.50] 0.04	[0.5; 0.9] 13.5	[0.4; 0.7]	[0.96; 1.27] 0.99	[0.83; 1.30] 0.95	[-0.34; 0.25] -0.04		
Malta	[0.94; 1.17] 1.39	[0.89; 1.33]	[-0.20; 0.31] -0.08	[10.1; 17.0] 0.4	[9.2; 15.7] 0.3	[0.89; 1.10] 0.94	[0.77; 1.17] 0.97	[-0.25; 0.21] 0.03		
	[1.23; 1.58] 1.24	[1.04; 1.66] 1.38	[-0.43; 0.33] 0.14	[0.2; 0.6]	[0.2; 0.4]	[0.82; 1.07] 1.00	[0.77; 1.23] 1.00	[-0.22; 0.32] 0.00		
Marshall Islands	[1.10; 1.41] 1.03	[1.08; 1.78] 1.33	[-0.22; 0.58] 0.30	[2.9; 5.0] 5.3	[2.1; 3.7] 4.0	[0.85; 1.17] 1.01	[0.75; 1.31] 0.96	[-0.30; 0.35] -0.04		
Mauritania	[0.91; 1.16]	[1.07; 1.64] 1.34	[-0.01; 0.64] -0.02	[3.2; 6.9]	[2.4; 5.3]	[0.89; 1.14]	[0.75; 1.24] 1.00	[-0.31; 0.27] -0.04		
Mauritius	[1.22; 1.53]	[1.07; 1.67]	[-0.36; 0.35]	[0.7; 1.1]	[0.5; 0.8]	[0.93; 1.17]	[0.81; 1.24]	[-0.28; 0.24]		
Mexico	1.26 [1.22; 1.30]	1.25 [1.16; 1.34]	-0.02 [-0.11; 0.09]	1.2 [1.1; 1.2]	0.9 [0.9; 1.0]	1.15 [1.11; 1.19]*	1.11 [1.03; 1.19]*	-0.03 [-0.12; 0.05]		
Republic of Moldova	1.59 [1.46; 1.73]	1.39 [1.17; 1.64]	-0.20 [-0.47; 0.10]	1.3 [1.1; 1.4]	0.9 [0.8; 1.0]	0.88 [0.80; 0.97]*	1.00 [0.85; 1.19]	0.13 [-0.06; 0.34]		
Monaco	1.37 [1.20; 1.55]	1.27 [0.99; 1.63]	-0.09 [-0.45; 0.31]	0.4 [0.3; 0.5]	0.3 [0.2; 0.4]	1.00 [0.88; 1.13]	1.00 [0.78; 1.28]	0.00 [-0.26; 0.32]		
Mongolia	1.16 [1.04; 1.30]	1.57 [1.33; 1.87]	0.41 [0.11; 0.74]†	1.7 [1.6; 1.9]	1.1 [1.0; 1.2]	0.99 [0.88; 1.13]	0.91 [0.76; 1.07]	-0.08 [-0.29; 0.12]		
Montenegro	1.41 [1.25; 1.60]	1.31 [1.03; 1.65]	-0.10 [-0.46; 0.29]	0.4 [0.3; 0.6]	0.3 [0.2; 0.4]	1.00 [0.89; 1.13]	0.97 [0.77; 1.23]	-0.03 [-0.28; 0.26]		
Montserrat	1.45 [1.28; 1.64]	1.51 [1.19; 1.91]	0.05	0.7	0.5	0.99	0.87	-0.11 [-0.35; 0.15]		
Morocco	1.18 [1.04; 1.33]	1.43	0.26	1.7	1.2	1.01 [0.88; 1.17]	0.99	-0.35, 0.15] -0.02 [-0.30; 0.28]		
Mozambique	1.08	[1.14; 1.82]	0.08	[1.0; 2.4] 8.1	6.9	1.00	[0.78; 1.25]	-0.03		
Myanmar	[0.95; 1.24]	[0.93; 1.47]	[-0.23; 0.43]	[4.4; 11.7]	[3.7; 10.1]	[0.89; 1.13]	[0.74; 1.32]	[-0.31; 0.33]		
Namibia	[0.90; 1.17] 1.09	[1.17; 1.85] 1.13	[0.10; 0.86]† 0.04	[1.3; 4.2] 6.9	[0.9; 2.9]	[0.88; 1.14] 0.99	[0.76; 1.22] 1.04	[-0.30; 0.26] 0.06		
¶: Sex ratio is outlying in 1990. §: Sex	[0.96; 1.23] ratio is outlying in	[0.89; 1.41] n 2021. *: The ra	[-0.25; 0.37] tio of estimated to e	[4.4; 9.9] xpected female n	[3.8; 8.9] nortality is significantly d	[0.86; 1.14] ifferent from one.	[0.79; 1.40] †: Change is signifi	[-0.26; 0.44] cantly different from zero.		

Table 16 – continued from previous page

	Table 16 – continued from previous page Sex ratio 5q5 Sex-specific 5q5 in 2021 (per 1,000)					100	-t't1/Et-	0.99 -0.05 78; 1.25] [-0.30; 0.22] 1.22 0.26 06; 1.41]* [0.07; 0.46]† 0.91 -0.15 79; 1.05] [-0.32; 0.03] 1.00 0.00 79; 1.28] [-0.28; 0.33] 1.03 0.07 86; 1.24] [-0.15; 0.31] 0.97 -0.01 81; 1.15] [-0.22; 0.19] 0.99 0.02 76; 1.27] [-0.26; 0.33] 1.17 0.16 97; 1.40] [-0.08; 0.42] 1.00 0.00 78; 1.27] [-0.28; 0.33] 1.15 0.01 89; 1.48] [-0.30; 0.38] 0.99 0.02 78; 1.26] [-0.26; 0.34] 1.17 0.13 00; 1.35] [-0.09; 0.35] 1.03 0.03 78; 1.27] [-0.26; 0.34] 1.17 0.13 00; 1.35] [-0.09; 0.35] 1.03 0.03		
	1990	2021	Change	Male Sex-specific 5	Female	1990		Change		
Nauru	1.12	1.40	1990-2021 0.28	3.6	2.6	1.01	1.00			
	[0.99; 1.28] 0.98	[1.10; 1.80] 1.43	[-0.08; 0.70] 0.46	[2.8; 4.7] 3.2	[1.9; 3.4] 2.2	[0.87; 1.19] 1.05	[0.76; 1.29]			
Nepal	[0.88; 1.08]	[1.15; 1.79] 1.04	[0.15; 0.83]† -0.38	[2.2; 4.2] 0.3	[1.5; 2.9] 0.3	[0.95; 1.16] 0.97	[0.78; 1.25]	[-0.30; 0.22]		
Netherlands	[1.31; 1.54]	[0.90; 1.20]	[-0.57; -0.19]†	[0.3; 0.3]	[0.3; 0.3]	[0.89; 1.05]	[1.06; 1.41]*	[0.07; 0.46]†		
New Zealand	1.33 [1.21; 1.47]	1.40 [1.21; 1.61]	0.07 [-0.17; 0.32]	0.5 [0.4; 0.5]	0.3 [0.3; 0.4]	1.06 [0.96; 1.17]	[0.79; 1.05]	[-0.32; 0.03]		
Nicaragua	1.27 [1.12; 1.43]	1.39 [1.10; 1.77]	0.13 [-0.24; 0.56]	1.5 [0.6; 2.7]	1.1 [0.4; 1.9]	1.00 [0.85; 1.17]	1.00 [0.79; 1.28]			
Niger	1.15 [1.03; 1.28]	0.99 [0.82; 1.20]	-0.15 [-0.38; 0.09]	20.8 [15.6; 27.3]	20.9 [15.5; 27.6]	0.97 [0.87; 1.07]	1.03 [0.86; 1.24]			
Nigeria	1.05 [0.94; 1.19]	1.07 [0.91; 1.27]	0.02	13.3 [10.5; 16.1]	12.4 [9.8; 15.0]	0.98	0.97	-0.01		
Niue	1.46	1.44	-0.01	3.3	2.3	0.97	0.99	0.02		
Norway	[1.29; 1.65] 1.36	[1.13; 1.84] 1.09	[-0.40; 0.43] -0.27	[2.5; 4.3]	[1.7; 3.0]	[0.84; 1.11] 1.01	1.17	0.16		
Oman	[1.22; 1.51] 1.38	[0.91; 1.31] 1.41	[-0.53; 0.00] 0.03	[0.2; 0.3]	[0.2; 0.3]	[0.92; 1.12] 1.00	[0.97; 1.40]			
	[1.22; 1.56] 0.97	[1.10; 1.82] 1.16	[-0.35; 0.48] 0.19	[1.1; 1.8] 4.4	[0.7; 1.3]	[0.86; 1.15] 1.14	[0.78; 1.27]			
Pakistan¶	[0.88; 1.07]	[0.93; 1.44] 1.45	[-0.07; 0.50] 0.09	[3.4; 5.6]	[2.9; 4.8]	[1.02; 1.27]* 0.97	[0.89; 1.48]	[-0.30; 0.38]		
Palau	[1.21; 1.55]	[1.14; 1.86]	[-0.30; 0.53]	[1.7; 2.9]	[1.1; 2.0]	[0.83; 1.13]	[0.78; 1.26]	[-0.26; 0.34]		
Panama	1.39 [1.25; 1.56]	1.21 [1.05; 1.42]	-0.17 [-0.42; 0.09]	1.5 [1.4; 1.7]	1.3 [1.1; 1.4]	1.04 [0.93; 1.16]	[1.00; 1.35]	[-0.09; 0.35]		
Papua New Guinea	1.08 [0.95; 1.23]	1.23 [0.97; 1.57]	0.15 [-0.16; 0.53]	5.1 [3.9; 6.7]	4.2 [3.1; 5.5]	1.00 [0.87; 1.17]	1.03 [0.78; 1.37]			
Paraguay	1.32 [1.16; 1.50]	1.43 [1.12; 1.81]	0.11 [-0.27; 0.54]	1.0 [0.4; 1.8]	0.7 [0.3; 1.3]	0.97 [0.83; 1.13]	0.95 [0.75; 1.20]			
Peru	1.21 [1.09; 1.36]	1.40 [1.12; 1.74]	0.18	1.4 [1.1; 1.9]	1.0	0.97 [0.85; 1.11]	1.01	0.04		
Philippines	1.30	1.34	0.04	2.6	2.0	0.99	1.09	0.10		
Poland	[1.17; 1.44] 1.46	[1.14; 1.56] 1.19	[-0.22; 0.31] -0.27	[2.5; 2.8] 0.4	[1.8; 2.2] 0.4	[0.88; 1.11] 0.97	[0.93; 1.27] 1.06			
	[1.38; 1.54] 1.47	[1.07; 1.33] 1.09	[-0.41; -0.11]† -0.38	[0.4; 0.5]	[0.3; 0.4]	[0.92; 1.03] 0.98	[0.95; 1.19] 1.17	[-0.04; 0.23] 0.19		
Portugal	[1.37; 1.58] 1.46	[0.93; 1.26] 1.26	[-0.58; -0.18]† -0.20	[0.3; 0.4] 0.8	[0.3; 0.4]	[0.91; 1.06] 0.98	[1.01; 1.36]* 1.05	[0.00; 0.40]† 0.07		
Qatar	[1.29; 1.66]	[1.02; 1.55]	[-0.53; 0.15]	[0.6; 0.9]	[0.5; 0.7]	[0.87; 1.11]	[0.86; 1.29]	[-0.17; 0.34]		
Romania	1.47 [1.39; 1.56]	1.32 [1.18; 1.48]	-0.15 [-0.32; 0.02]	0.8 [0.7; 0.9]	0.6 [0.5; 0.7]	0.96 [0.90; 1.02]	1.01 [0.91; 1.13]	0.06 [-0.07; 0.19]		
Russian Federation	1.85 [1.79; 1.91]	1.36 [1.25; 1.46]	-0.50 [-0.61; -0.38]†	0.8 [0.8; 0.9]	0.6 [0.6; 0.7]	0.76 [0.73; 0.79]*	0.99 [0.92; 1.07]	0.23 [0.15; 0.31]†		
Rwanda	1.12 [1.01; 1.24]	1.17 [0.96; 1.43]	0.05 [-0.21; 0.35]	9.2 [7.0; 11.5]	7.9 [5.9; 10.0]	0.97 [0.88; 1.07]	0.93 [0.74; 1.17]	-0.05 [-0.27; 0.22]		
Saint Kitts and Nevis	1.50 [1.33; 1.70]	1.64 [1.30; 2.09]	0.14 [-0.28; 0.64]	1.6 [1.2; 2.0]	1.0 [0.7; 1.3]	0.96 [0.84; 1.08]	0.86 [0.68; 1.08]	-0.10 [-0.33; 0.17]		
Saint Lucia	1.45	1.45	-0.01	2.0	1.3	0.99	0.99	0.00		
Samoa	[1.28; 1.65] 1.31	[1.14; 1.84] 1.38	[-0.39; 0.44] 0.07	[1.4; 2.6] 1.4	[0.9; 1.9] 1.0	[0.87; 1.12] 1.03	[0.78; 1.25]	[-0.26; 0.30] -0.02		
San Marino	[1.15; 1.49] 1.41	[1.09; 1.74] 1.27	[-0.30; 0.49] -0.13	[0.7; 2.3]	[0.5; 1.7]	[0.87; 1.21] 1.01	[0.80; 1.28]	[-0.30; 0.31] -0.01		
	[1.24; 1.59] 1.05	[1.00; 1.63] 1.32	[-0.48; 0.28] 0.28	[0.2; 0.3]	[0.1; 0.3]	[0.90; 1.14] 0.99	[0.78; 1.27]	[-0.28; 0.29] 0.09		
Sao Tome and Principe	[0.92; 1.19] 1.35	[1.05; 1.68] 1.36	[-0.06; 0.67] 0.02	[1.3; 2.2] 1.0	[1.0; 1.7] 0.7	[0.87; 1.13] 1.00	[0.85; 1.35] 1.00	[-0.19; 0.41] 0.00		
Saudi Arabia	[1.18; 1.53]	[1.06; 1.75]	[-0.35; 0.45]	[0.8; 1.3]	[0.5; 1.0]	[0.85; 1.17]	[0.79; 1.27]	[-0.29; 0.32]		
Senegal	1.04 [0.94; 1.15]	1.52 [1.26; 1.83]	0.48 [0.19; 0.82]†	5.3 [4.2; 6.5]	3.5 [2.7; 4.3]	0.99 [0.90; 1.10]	0.83 [0.67; 1.04]	-0.16 [-0.36; 0.07]		
Serbia	1.36 [1.23; 1.51]	1.36 [1.13; 1.63]	-0.01 [-0.30; 0.31]	0.6 [0.5; 0.6]	0.4 [0.4; 0.5]	1.05 [0.95; 1.16]	0.94 [0.79; 1.12]	-0.11 [-0.31; 0.11]		
Seychelles	1.46 [1.30; 1.66]	1.52 [1.20; 1.91]	0.06	1.2 [0.7; 1.7]	0.8 [0.5; 1.2]	0.99 [0.87; 1.11]	0.91 [0.73; 1.15]	-0.08 [-0.32; 0.21]		
Sierra Leone	1.06 [0.93; 1.21]	0.95 [0.79; 1.13]	-0.12 [-0.35; 0.12]	14.9 [10.9; 19.0]	15.7 [11.6; 20.1]	0.98 [0.87; 1.11]	1.09 [0.91; 1.32]	0.11 [-0.13; 0.37]		
Singapore	1.36 [1.21; 1.53]	1.16 [0.93; 1.44]	-0.20 [-0.51; 0.14]	0.3	0.3	1.02 [0.91; 1.14]	1.10 [0.88; 1.37]	0.08		
Slovakia	1.38	1.23	-0.15	0.6	0.5	1.03	1.05	0.03		
Slovenia	1.36	[1.05; 1.46]	[-0.39; 0.11]	0.6; 0.7]	[0.5; 0.6]	[0.94; 1.12] 1.03	[0.90; 1.22]	[-0.16; 0.23]		
Solomon Islands	[1.22; 1.53] 1.31	[0.93; 1.48] 1.42	[-0.50; 0.16] 0.11	[0.3; 0.4]	[0.2; 0.3]	[0.93; 1.15] 1.00	[0.86; 1.36] 1.02	[-0.21; 0.36] 0.02		
	[1.15; 1.48] 1.03	[1.11; 1.80] 1.02	[-0.26; 0.54] -0.01	[2.0; 3.3] 15.8	[1.4; 2.4] 15.5	[0.85; 1.16] 1.01	[0.80; 1.29] 1.01	[-0.27; 0.35] 0.00		
Somalia	[0.91; 1.17]	[0.80; 1.30]	[-0.29; 0.32] 0.15	[11.9; 20.8] 2.9	[11.8; 20.4] 2.1	[0.89; 1.13]	[0.79; 1.29]	[-0.28; 0.32] 0.04		
South Africa	[1.10; 1.41]	[1.20; 1.62]	[-0.12; 0.42]	[2.6; 3.3]	[1.9; 2.4]	[0.86; 1.17]	[0.89; 1.20]	[-0.20; 0.26]		
South Sudan	1.07 [0.94; 1.22]	1.04 [0.82; 1.33]	-0.03 [-0.32; 0.30]	14.0 [10.6; 18.4]	13.5 [10.1; 17.6]	1.00 [0.88; 1.13]	0.99 [0.77; 1.28]	0.00 [-0.27; 0.31]		
Spain	1.38 [1.30; 1.47]	1.18 [1.04; 1.32]	-0.20 [-0.36; -0.03]†	0.3 [0.3; 0.4]	0.3 [0.3; 0.3]	1.01 [0.95; 1.08]	1.08 [0.96; 1.22]	0.06 [-0.08; 0.22]		
Sri Lanka	1.20 [1.09; 1.33]	1.21 [1.01; 1.47]	0.01 [-0.25; 0.30]	0.7 [0.6; 0.9]	0.6 [0.5; 0.7]	1.16 [1.04; 1.30]*	1.08 [0.91; 1.30]	-0.08 [-0.32; 0.18]		
Saint Vincent and the Grenadines	1.44 [1.27; 1.64]	1.53	0.09	1.8	1.2	1.00	0.93 [0.74; 1.17]	-0.07 [-0.33; 0.22]		
State of Palestine	1.38	1.37	-0.02 [-0.38; 0.39]	1.9	1.4 [0.9; 2.1]	1.01 [0.88; 1.16]	1.04	0.03 [-0.24; 0.36]		
Sudan	0.99	[1.08; 1.73]	0.24	5.3	4.3	1.03	[0.83; 1.32]	0.00		
Suriname	[0.89; 1.12]	[0.99; 1.54] 1.00	[-0.05; 0.58] -0.43	[3.4; 7.0] 1.9	[2.7; 5.8]	[0.92; 1.16] 1.01	[0.78; 1.35]	[-0.29; 0.36] 0.42		
¶: Sex ratio is outlying in 1990. §: Sex	[1.27; 1.61] ratio is outlying in	[0.84; 1.18] n 2021. *: The ra	[-0.68; -0.17]† tio of estimated to e	[1.6; 2.2] xpected female n	[1.6; 2.2] nortality is significantly di	[0.89; 1.14] fferent from one.	[1.22; 1.69]* †: Change is signif	[0.16; 0.71]† icantly different from zero.		

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 16 – continued from previous page

	Table 16 – continued from previous page Sex ratio 5q5 Sex-specific 5q5 in 2021 (per 1,000) Estimated/Expected female 5q5							
	1990	2021	Change	Male Male	Female	1990	2021	Change
	1330		1990-2021		1 ciliate	2330		1990-2021
Eswatini	1.24	1.11	-0.14	10.0	9.0	1.00	1.01	0.01
	[1.10; 1.41]	[0.87; 1.43]	[-0.44; 0.23]	[3.4; 12.3]	[3.0; 11.2]	[0.79; 1.24]	[0.76; 1.41]	[-0.38; 0.53]
Sweden	1.41 [1.28; 1.56]	1.10 [0.94; 1.30]	-0.31 [-0.55; -0.06]†	0.3	0.3	0.95 [0.86; 1.04]	1.15 [0.98; 1.35]	0.21 [0.00; 0.43]
	1.43	1.17	-0.27	0.3	0.3	0.96	1.09	0.12
Switzerland	[1.30; 1.58]	[0.99; 1.37]	[-0.52; 0.00]†	[0.3; 0.4]	[0.3; 0.3]	[0.88; 1.06]	[0.92; 1.28]	[-0.08; 0.35]
Syria	1.17	1.20	0.03	2.8	2.3	1.03	1.11	0.08
,	[1.04; 1.31] 1.43	[1.00; 1.43] 1.35	[-0.22; 0.31] -0.08	[2.0; 3.5]	[1.7; 3.0]	[0.90; 1.17] 0.89	[0.93; 1.32] 1.03	[-0.16; 0.34] 0.14
Tajikistan	[1.33; 1.53]	[1.22; 1.49]	[-0.25; 0.09]	[1.1; 1.2]	[0.8; 0.9]	[0.82; 0.97]*	[0.93; 1.13]	[0.01; 0.27]†
Tanzania	1.05	1.03	-0.02	9.1	8.8	0.98	1.06	0.08
Tanzama	[0.94; 1.17]	[0.83; 1.28]	[-0.27; 0.26]	[6.5; 11.2]	[6.4; 11.0]	[0.87; 1.09]	[0.84; 1.36]	[-0.18; 0.41]
Thailand	1.38	1.48	0.11	2.0	1.4	0.99	0.97	-0.02
	[1.24; 1.53]	[1.26; 1.74] 1.21	[-0.18; 0.40] 0.20	[1.9; 2.2] 6.0	[1.2; 1.5] 4.9	[0.88; 1.11] 1.02	[0.83; 1.13] 1.01	[-0.21; 0.19] -0.01
Timor Leste	[0.89; 1.15]	[0.95; 1.54]	[-0.11; 0.56]	[4.6; 7.7]	[3.7; 6.4]	[0.90; 1.15]	[0.76; 1.33]	[-0.31; 0.35]
Togo	1.07	1.04	-0.03	6.9	6.6	0.96	1.12	0.16
Togo	[0.95; 1.21]	[0.84; 1.30]	[-0.29; 0.26]	[4.6; 9.3]	[4.4; 9.0]	[0.86; 1.08]	[0.86; 1.48]	[-0.14; 0.54]
Tonga	1.42 [1.25; 1.61]	1.54 [1.23; 1.93]	0.12 [-0.27; 0.57]	1.6 [1.0; 2.2]	1.1 [0.7; 1.5]	1.01 [0.89; 1.14]	0.92 [0.74; 1.15]	-0.09 [-0.33; 0.18]
	1.36	1.32	-0.27, 0.37]	1.0	0.7, 1.5]	1.06	1.04	-0.02
Trinidad and Tobago	[1.22; 1.51]	[1.10; 1.56]	[-0.32; 0.25]	[0.8; 1.2]	[0.6; 0.9]	[0.95; 1.18]	[0.88; 1.23]	[-0.23; 0.21]
Tunisia	1.30	1.35	0.05	1.8	1.3	1.03	1.06	0.02
Tumou	[1.16; 1.46]	[1.11; 1.63]	[-0.25; 0.38]	[1.5; 2.0]	[1.1; 1.5]	[0.91; 1.17]	[0.88; 1.28]	[-0.22; 0.29]
Turkey	1.14 [1.00; 1.29]	1.24 [1.12; 1.36]	0.10 [-0.09; 0.28]	0.8	0.7 [0.6; 0.7]	0.99 [0.86; 1.13]	1.09 [0.99; 1.19]	0.10 [-0.08; 0.26]
	1.29	1.39	0.10	2.1	1.5	1.03	1.03	0.01
Turkmenistan	[1.16; 1.42]	[1.16; 1.67]	[-0.19; 0.42]	[1.7; 2.4]	[1.2; 1.8]	[0.92; 1.15]	[0.86; 1.24]	[-0.22; 0.25]
Turks and Caicos Islands	1.52	1.25	-0.27	0.5	0.4	0.93	1.03	0.10
	[1.34; 1.72] 1.21	[0.97; 1.59]	[-0.63; 0.12] 0.28	[0.4; 0.7]	[0.3; 0.6]	[0.82; 1.05]	[0.81; 1.30] 0.97	[-0.15; 0.41] -0.03
Tuvalu	[1.07; 1.37]	[1.18; 1.89]	[-0.09; 0.72]	[2.2; 3.8]	[1.5; 2.6]	[0.84; 1.17]	[0.75; 1.23]	[-0.31; 0.29]
Haanda	1.03	1.08	0.05	8.2	7.5	0.99	1.03	0.04
Uganda	[0.92; 1.16]	[0.88; 1.33]	[-0.21; 0.33]	[5.6; 10.8]	[5.1; 10.0]	[0.89; 1.11]	[0.81; 1.34]	[-0.23; 0.38]
Ukraine	1.67	1.26	-0.40	0.8	0.7	0.87	1.06	0.19
	[1.59; 1.75] 1.43	[1.16; 1.38] 1.35	[-0.54; -0.26]† -0.08	[0.8; 0.9]	[0.6; 0.7]	[0.82; 0.91]*	[0.97; 1.16] 1.00	[0.09; 0.30]† 0.00
United Arab Emirates	[1.27; 1.63]	[1.06; 1.73]	[-0.46; 0.34]	[0.7; 1.2]	[0.5; 0.9]	[0.88; 1.13]	[0.79; 1.27]	[-0.26; 0.31]
United Kingdom	1.39	1.24	-0.16	0.3	0.3	0.98	1.03	0.04
Olitea Kingaolii	[1.31; 1.47]	[1.11; 1.37]	[-0.31; 0.00]	[0.3; 0.4]	[0.2; 0.3]	[0.93; 1.04]	[0.93; 1.14]	[-0.08; 0.18]
United States of America	1.37 [1.32; 1.41]	1.19 [1.10; 1.30]	-0.17 [-0.28; -0.05]†	0.6 [0.6; 0.6]	0.5 [0.5; 0.5]	1.03 [0.99; 1.07]	1.08 [0.99; 1.17]	0.05 [-0.04; 0.16]
**	1.43	1.13	-0.29	0.7	0.6	1.00	1.15	0.15
Uruguay	[1.29; 1.58]	[0.95; 1.36]	[-0.55; -0.01]†	[0.6; 0.8]	[0.5; 0.7]	[0.90; 1.11]	[0.97; 1.36]	[-0.07; 0.39]
Uzbekistan	1.36	1.33	-0.03	1.7	1.3	0.99	1.07	0.08
	[1.23; 1.50] 1.33	[1.16; 1.52] 1.42	[-0.26; 0.20] 0.09	[1.6; 1.8]	[1.2; 1.4]	[0.89; 1.11] 1.00	[0.94; 1.22] 1.01	[-0.10; 0.27] 0.01
Vanuatu	[1.17; 1.51]	[1.11; 1.81]	[-0.29; 0.52]	[2.4; 4.0]	[1.6; 2.9]	[0.85; 1.16]	[0.78; 1.29]	[-0.28; 0.34]
Variable (Belleville Brenklin 6	1.43	1.30	-0.13	1.7	1.3	1.01	1.10	0.08
Venezuela (Bolivarian Republic of)	[1.29; 1.58]	[1.08; 1.55]	[-0.42; 0.17]	[1.5; 2.0]	[1.1; 1.5]	[0.92; 1.12]	[0.92; 1.31]	[-0.14; 0.33]
Vietnam	1.13	1.68	0.55	1.4	0.8	0.98	0.84	-0.14
	[0.99; 1.28] 1.06	[1.37; 2.06] 1.25	[0.20; 0.97]† 0.18	[1.1; 1.9] 4.9	[0.6; 1.1]	[0.85; 1.13] 0.98	[0.68; 1.02] 0.99	[-0.37; 0.09] 0.01
Yemen	[0.95; 1.19]	[0.98; 1.58]	[-0.13; 0.55]	[2.9; 6.5]	[2.3; 5.3]	[0.87; 1.10]	[0.76; 1.28]	[-0.27; 0.34]
Zambia	1.01	1.18	0.17	7.0	5.9	1.01	1.00	-0.01
Zamou	[0.91; 1.13]	[0.96; 1.45]	[-0.10; 0.47]	[3.7; 9.4]	[3.1; 8.0]	[0.91; 1.13]	[0.77; 1.33]	[-0.28; 0.35]
Zimbabwe	1.06 [0.94; 1.20]	1.21 [0.98; 1.50]	0.14 [-0.14; 0.47]	4.9 [2.6; 6.8]	4.1 [2.2; 5.6]	1.03 [0.90; 1.18]	1.08 [0.82; 1.39]	0.05 [-0.26; 0.40]
	[0.54, 1.20]	[0.76, 1.50]	[-0.14, 0.47]	[2.0, 0.0]	[4.4, 3.0]	[0.50, 1.18]	[0.02, 1.39]	[-0.20, 0.40]

Table 17: Estimates and 90% uncertainty intervals for sex ratios for 5q10 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 5q10 in 2021, and ratios of estimated to expected female 5q10 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio 5q1	0	Sex-specific	5q10 in 2021 (per 1,000)	Est	Estimated/Expected female 5q10 1990 2021 Change			
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021		
World	1.11 [1.06; 1.15]	1.22 [1.14; 1.28]	0.11	2.9 [2.8; 3.6]	2.4 [2.2; 3.0]	1.01 [0.96; 1.06]	0.99 [0.92; 1.05]	-0.02 [-0.08; 0.05]		
South Asia	0.98	1.30	0.33	2.8	2.1	1.06	1.13	0.07		
Europe and Central Asia	[0.90; 1.05] 1.67	[1.15; 1.48] 1.41	[0.15; 0.52]† -0.26	[2.2; 3.7]	[1.7; 3.0]	[0.97; 1.17] 0.91	[0.95; 1.31] 1.05	[-0.15; 0.28] 0.14		
	[1.62; 1.70] 1.15	[1.36; 1.45] 1.54	[-0.31; -0.20]† 0.38	[0.9; 0.9]	[0.6; 0.7] 1.4	[0.87; 0.94]* 0.98	[1.02; 1.08]* 0.95	[0.10; 0.19]† -0.03		
Middle East and North Africa	[1.09; 1.22] 1.00	[1.41; 1.67] 1.11	[0.23; 0.53]†	[1.8; 3.1] 6.4	[1.1; 2.0] 5.8	[0.87; 1.07] 1.00	[0.78; 1.07] 0.95	[-0.22; 0.13] -0.05		
Sub-Saharan Africa	[0.94; 1.07] 1.45	[1.03; 1.19] 1.38	[0.00; 0.21]	[5.6; 8.8] 1.7	[5.0; 7.9] 1.3	[0.96; 1.05]	[0.87; 1.04] 1.07	[-0.14; 0.05] 0.08		
Latin America and Caribbean	[1.40; 1.51]	[1.30; 1.46]	[-0.17; 0.03]	[1.6; 2.0]	[1.2; 1.5]	[0.95; 1.04]	[0.98; 1.15]	[-0.02; 0.17]		
East Asia and Pacific	1.36 [1.23; 1.47]	1.57 [1.40; 1.75]	0.21 [0.00; 0.45]	1.6 [1.2; 2.3]	1.0 [0.8; 1.5]	1.00 [0.83; 1.11]	0.93 [0.80; 1.06]	-0.07 [-0.24; 0.14]		
North America	1.63 [1.58; 1.69]	1.39 [1.28; 1.51]	-0.24 [-0.37; -0.11]†	0.9 [0.8; 1.0]	0.6 [0.6; 0.7]	0.97 [0.94; 1.01]	1.03 [0.95; 1.11]	0.06 [-0.03; 0.15]		
Afghanistan	1.01 [0.88; 1.15]	1.78 [1.41; 2.26]	0.77 [0.36; 1.28]†	2.2 [0.3; 7.0]	1.2 [0.2; 3.9]	1.04 [0.86; 1.61]	0.79 [0.52; 1.06]	-0.25 [-0.88; 0.08]		
Albania	1.56 [1.42; 1.71]	1.20 [1.00; 1.44]	-0.36 [-0.62; -0.07]†	1.1 [0.8; 1.4]	0.9 [0.7; 1.2]	0.99 [0.89; 1.10]	1.24 [1.04; 1.47]*	0.25 [0.01; 0.51]†		
Algeria	1.36	1.29	-0.07	1.6	1.2	0.96	1.23	0.27		
Andorra	[1.23; 1.50] 1.59	[1.18; 1.41] 1.27	[-0.25; 0.10] -0.32	[1.5; 1.8] 0.5	[1.1; 1.4] 0.4	[0.81; 1.14] 1.00	[1.13; 1.34]* 1.01	[0.06; 0.46]† 0.02		
	[1.39; 1.82] 1.03	[0.98; 1.65] 1.00	[-0.72; 0.13] -0.03	[0.3; 0.6]	[0.3; 0.5]	[0.87; 1.13]	[0.79; 1.31] 1.06	[-0.26; 0.35] 0.06		
Angola	[0.88; 1.20] 1.60	[0.78; 1.29] 1.41	[-0.33; 0.31] -0.18	[4.7; 8.2] 0.8	[4.7; 8.2] 0.6	[0.87; 1.15] 1.00	[0.80; 1.47] 1.00	[-0.26; 0.51] 0.00		
Anguilla	[1.40; 1.83]	[1.09; 1.84]	[-0.61; 0.31] -0.10	[0.6; 1.1]	[0.4; 0.8]	[0.87; 1.14]	[0.78; 1.27]	[-0.28; 0.31] 0.00		
Antigua and Barbuda	[1.40; 1.82]	[1.15; 1.93]	[-0.54; 0.40]	[0.8; 1.4]	[0.5; 1.0]	[0.87; 1.14]	[0.79; 1.27]	[-0.27; 0.32]		
Argentina	1.61 [1.52; 1.70]	1.22 [1.11; 1.35]	-0.38 [-0.53; -0.23]†	0.9 [0.8; 1.1]	0.8 [0.6; 0.9]	1.00 [0.94; 1.05]	1.18 [1.07; 1.29]*	0.18 [0.06; 0.31]†		
Armenia	1.82 [1.63; 2.02]	1.49 [1.25; 1.77]	-0.33 [-0.66; 0.01]	1.1 [0.9; 1.4]	0.8 [0.6; 1.0]	0.88 [0.79; 0.98]*	1.01 [0.85; 1.20]	0.13 [-0.06; 0.35]		
Australia	1.56 [1.44; 1.68]	1.25 [1.11; 1.43]	-0.31 [-0.51; -0.09]†	0.5 [0.4; 0.5]	0.4 [0.3; 0.4]	0.97 [0.91; 1.05]	1.03 [0.90; 1.17]	0.06 [-0.10; 0.22]		
Austria	1.51 [1.37; 1.66]	1.26 [1.07; 1.49]	-0.25 [-0.51; 0.04]	0.5 [0.4; 0.6]	0.4 [0.3; 0.5]	0.99 [0.91; 1.09]	1.02 [0.86; 1.21]	0.03 [-0.17; 0.24]		
Azerbaijan	1.48	1.45	-0.03	1.9	1.3	1.07	1.10	0.03		
Bahamas	[1.37; 1.61]	[1.30; 1.62]	[-0.23; 0.18]	[1.7; 2.1]	[1.2; 1.5]	[0.98; 1.17] 0.99	[0.98; 1.23]	[-0.13; 0.19]		
Bahrain	[1.40; 1.83] 1.58	[1.19; 1.98] 1.42	[-0.49; 0.44] -0.17	[0.8; 2.4]	[0.5; 1.6] 0.8	[0.85; 1.13] 1.01	[0.78; 1.29] 1.05	[-0.26; 0.34] 0.04		
	[1.39; 1.80] 0.99	[1.19; 1.68] 1.42	[-0.50; 0.18] 0.43	[0.7; 1.6]	[0.5; 1.2]	[0.88; 1.14] 1.02	[0.88; 1.25] 1.10	[-0.19; 0.30] 0.08		
Bangladesh	[0.88; 1.11] 1.58	[1.18; 1.71] 1.66	[0.15; 0.75]† 0.08	[1.4; 3.6]	[1.0; 2.6] 0.9	[0.90; 1.21] 0.98	[0.89; 1.33] 0.92	[-0.22; 0.36] -0.06		
Barbados	[1.38; 1.80] 1.76	[1.29; 2.14] 1.15	[-0.38; 0.62] -0.61	[0.7; 2.5]	[0.4; 1.5]	[0.83; 1.13]	[0.71; 1.19] 1.15	[-0.34; 0.26] 0.24		
Belarus	[1.63; 1.90]	[0.98; 1.35]	[-0.83; -0.37]†	[0.4; 0.8]	[0.4; 0.7]	[0.84; 0.98]*	[0.98; 1.35]	[0.06; 0.45]†		
Belgium	1.42 [1.30; 1.55]	1.29 [1.10; 1.51]	-0.13 [-0.37; 0.13]	0.5 [0.4; 0.6]	0.4 [0.3; 0.4]	1.07 [0.99; 1.17]	1.00 [0.86; 1.18]	-0.07 [-0.25; 0.13]		
Belize	1.56 [1.37; 1.78]	1.54 [1.21; 1.96]	-0.02 [-0.44; 0.47]	1.9 [1.0; 2.9]	1.2 [0.7; 1.9]	1.00 [0.84; 1.16]	1.02 [0.80; 1.30]	0.02 [-0.27; 0.37]		
Benin	0.99 [0.86; 1.14]	1.09 [0.87; 1.37]	0.10 [-0.19; 0.42]	7.0 [1.8; 14.2]	6.4 [1.7; 13.1]	1.00 [0.87; 1.19]	0.99 [0.75; 1.56]	-0.01 [-0.35; 0.57]		
Bhutan	1.58 [1.38; 1.81]	1.15 [0.89; 1.50]	-0.43 [-0.80; 0.00]†	5.1 [1.3; 10.9]	4.4 [1.2; 9.4]	0.72 [0.56; 1.06]	1.04 [0.71; 1.59]	0.32 [-0.20; 0.93]		
Bolivia (Plurinational State of)	1.18	1.56	0.37	2.4	1.5	1.03	0.95	-0.08		
Bosnia and Herzegovina	[1.03; 1.35]	[1.21; 2.00]	[-0.04; 0.86]	[0.5; 5.8]	[0.4; 3.7]	0.81; 1.41]	[0.65; 1.27]	[-0.59; 0.33]		
Botswana	[1.45; 1.82] 1.04	[1.03; 1.42] 1.50	[-0.69; -0.12]† 0.47	[0.5; 1.0]	[0.4; 0.8]	[0.87; 1.09] 1.04	[0.97; 1.33] 0.91	[-0.05; 0.39] -0.13		
Brazil	[0.90; 1.19] 1.62	[1.17; 1.93] 1.50	[0.07; 0.94]† -0.12	[0.8; 7.8]	[0.5; 5.2]	[0.85; 1.57] 0.98	[0.60; 1.28] 1.05	[-0.77; 0.30] 0.07		
	[1.46; 1.80] 1.60	[1.29; 1.74] 1.58	[-0.40; 0.18] -0.02	[1.4; 1.7] 1.5	[0.9; 1.1] 1.0	[0.88; 1.09]	[0.91; 1.21] 0.99	[-0.11; 0.27] 0.00		
British Virgin Islands	[1.40; 1.83] 1.59	[1.21; 2.05]	[-0.48; 0.52] -0.05	[1.2; 2.0]	[0.7; 1.3]	[0.87; 1.14]	[0.77; 1.29]	[-0.28; 0.33] -0.02		
Brunei	[1.39; 1.82]	[1.20; 1.97]	[-0.48; 0.44]	[0.5; 1.9]	[0.3; 1.2]	[0.84; 1.13]	[0.75; 1.24]	[-0.29; 0.30]		
Bulgaria	1.62 [1.50; 1.75]	1.42 [1.22; 1.65]	-0.20 [-0.44; 0.07]	1.0 [0.8; 1.2]	0.7 [0.6; 0.9]	0.99 [0.91; 1.07]	1.03 [0.89; 1.19]	0.04 [-0.12; 0.22]		
Burkina Faso	0.99 [0.87; 1.13]	1.10 [0.85; 1.41]	0.11 [-0.19; 0.46]	5.8 [1.0; 17.2]	5.3 [0.9; 15.7]	1.03 [0.88; 1.54]	1.01 [0.73; 1.61]	-0.02 [-0.53; 0.59]		
Burundi	0.99 [0.83; 1.18]	1.08 [0.85; 1.38]	0.09 [-0.23; 0.45]	8.3 [1.5; 26.1]	7.7 [1.4; 24.1]	1.01 [0.88; 1.19]	0.99 [0.73; 1.57]	-0.02 [-0.36; 0.58]		
Cambodia	1.00 [0.88; 1.15]	1.49 [1.15; 1.92]	0.49	2.0 [0.4; 5.6]	1.3 [0.2; 3.8]	1.03 [0.87; 1.59]	0.98 [0.68; 1.32]	-0.05 [-0.70; 0.33]		
Cameroon	0.99	1.15	0.16	8.4	7.4	1.01	0.92	-0.10		
Canada	[0.86; 1.13]	[0.90; 1.46]	[-0.15; 0.51]	[2.1; 16.7]	[1.8; 14.6]	[0.87; 1.22] 0.99	[0.69; 1.42] 1.09	[-0.42; 0.43]		
¶: Sex ratio is outlying in 1990. §: Sex	[1.46; 1.67] ratio is outlying in	[1.07; 1.35] 2021. *: The ra	[-0.53; -0.18]† tio of estimated to e	[0.5; 0.7] xpected female	[0.4; 0.6] mortality is significantly dif	[0.93; 1.06] ferent from one, †:	[0.97; 1.22] Change is signific	[-0.04; 0.24] cantly different from zero.		

	Table 17 – continued from previous page										
	1990	Sex ratio 5q1	0 Change	Sex-specific Male	5q10 in 2021 (per 1,000) Female	1990	timated/Expected 2021	female 5q10 Change			
	1.47	1.49	1990-2021 0.02	1.2	0.8	1.00	1.01	1990–2021 0.01			
Cape Verde	[1.29; 1.68]	[1.21; 1.82]	[-0.35; 0.41]	[0.6; 1.8]	[0.4; 1.2]	[0.79; 1.19]	[0.81; 1.24]	[-0.27; 0.33]			
Central African Republic	1.00 [0.87; 1.14]	0.89 [0.69; 1.13]	-0.11 [-0.36; 0.17]	9.9 [2.3; 22.1]	11.2 [2.6; 24.6]	1.00 [0.87; 1.29]	1.17 [0.88; 1.79]	0.16 [-0.23; 0.79]			
Chad	0.99 [0.86; 1.14]	1.00 [0.80; 1.24]	0.01 [-0.25; 0.29]	10.5 [4.3; 18.1]	10.5 [4.2; 18.2]	1.02 [0.87; 1.41]	1.01 [0.80; 1.39]	-0.01 [-0.43; 0.41]			
Chile	1.61 [1.50; 1.73]	1.23 [1.08; 1.42]	-0.38 [-0.58; -0.16]†	0.8 [0.7; 0.9]	0.6 [0.5; 0.7]	0.99 [0.93; 1.06]	1.13 [0.99; 1.29]	0.14 [-0.02; 0.31]			
China	1.54	1.63	0.09	1.1	0.7	0.98	0.92	-0.06			
Colombia	[1.35; 1.76] 1.61	[1.29; 2.04] 1.45	[-0.33; 0.57] -0.16	[0.6; 2.1]	[0.4; 1.3]	[0.73; 1.15] 0.96	[0.72; 1.16]	[-0.34; 0.28] 0.14			
Comoros	[1.43; 1.81] 1.17	[1.24; 1.68] 1.59	[-0.47; 0.15] 0.42	[1.4; 1.7]	[0.9; 1.2]	[0.83; 1.09] 1.00	[0.94; 1.27] 0.91	[-0.07; 0.36] -0.08			
	[1.01; 1.34] 1.01	[1.24; 2.06] 1.43	[0.01; 0.93]† 0.42	[0.3; 5.6]	[0.2; 3.5]	[0.77; 1.46] 1.02	[0.63; 1.23]	[-0.65; 0.33] -0.10			
Congo	[0.88; 1.17]	[1.12; 1.86] 1.04	[0.05; 0.88]† 0.05	[0.9; 8.9] 9.4	[0.6; 6.2] 9.1	[0.85; 1.56] 1.04	[0.60; 1.33]	[-0.75; 0.36] -0.05			
Democratic Republic of the Congo	[0.85; 1.13]	[0.81; 1.32]	[-0.23; 0.37]	[3.2; 17.8]	[3.2; 17.1]	[0.88; 1.58]	[0.75; 1.48]	[-0.62; 0.45]			
Cook Islands	1.58 [1.38; 1.80]	1.51 [1.17; 1.96]	-0.06 [-0.51; 0.43]	1.1 [0.9; 1.5]	0.8 [0.6; 1.0]	0.99 [0.85; 1.14]	0.99 [0.78; 1.26]	0.00 [-0.28; 0.32]			
Costa Rica	1.50 [1.34; 1.68]	1.26 [1.07; 1.49]	-0.24 [-0.51; 0.05]	1.1 [0.9; 1.2]	0.8 [0.7; 1.0]	1.06 [0.95; 1.18]	1.17 [1.00; 1.37]*	0.11 [-0.11; 0.34]			
Cote d'Ivoire	1.00 [0.87; 1.14]	0.94 [0.73; 1.21]	-0.06 [-0.32; 0.25]	10.0 [2.5; 23.7]	10.6 [2.7; 25.5]	1.00 [0.87; 1.23]	1.10 [0.83; 1.70]	0.10 [-0.29; 0.71]			
Croatia	1.69	1.32	-0.37	0.6	0.5	0.94	1.01 [0.83; 1.23]	0.07			
Cuba	[1.53; 1.88] 1.55	[1.08; 1.62] 1.43	[-0.68; -0.02]† -0.13	[0.4; 0.9]	[0.3; 0.7]	[0.85; 1.04] 1.03	1.05	[-0.14; 0.32] 0.02			
	[1.43; 1.68] 1.42	[1.24; 1.63] 1.46	[-0.35; 0.11] 0.04	[0.9; 1.4] 0.7	[0.6; 1.0]	[0.95; 1.12] 0.99	[0.92; 1.20] 0.94	[-0.14; 0.20] -0.04			
Cyprus	[1.24; 1.61] 1.66	[1.14; 1.88] 1.27	[-0.35; 0.51] -0.39	[0.4; 1.1]	[0.3; 0.8]	[0.85; 1.14] 0.94	[0.73; 1.21]	[-0.32; 0.26] 0.08			
Czech Republic	[1.53; 1.80] 1.49	[1.09; 1.49]	[-0.63; -0.13]† -0.17	[0.4; 0.6]	[0.3; 0.5]	[0.87; 1.02]	[0.87; 1.19]	[-0.09; 0.27] -0.03			
Denmark	[1.34; 1.66]	[1.10; 1.58]	[-0.47; 0.14]	[0.3; 0.5]	[0.2; 0.4]	[0.91; 1.11]	0.98 [0.82; 1.18]	[-0.23; 0.20]			
Djibouti	0.99 [0.86; 1.14]	1.12 [0.87; 1.46]	0.13 [-0.18; 0.51]	5.4 [4.1; 7.1]	4.8 [3.6; 6.4]	1.00 [0.87; 1.16]	1.01 [0.73; 1.45]	0.01 [-0.33; 0.48]			
Dominica	1.57 [1.37; 1.80]	1.63 [1.26; 2.12]	0.06 [-0.40; 0.60]	1.9 [0.5; 4.4]	1.2 [0.3; 2.7]	0.97 [0.75; 1.14]	0.92 [0.67; 1.22]	-0.05 [-0.37; 0.33]			
Dominican Republic	1.50 [1.31; 1.70]	1.58 [1.23; 2.04]	0.08	2.0 [0.7; 4.3]	1.2 [0.4; 2.8]	0.99 [0.75; 1.18]	0.96 [0.70; 1.25]	-0.03 [-0.37; 0.36]			
Ecuador	1.33	1.26	-0.07	1.5	1.2	1.02	1.24	0.22			
Egypt	[1.25; 1.42] 1.14	[1.14; 1.40] 1.75	[-0.22; 0.09] 0.61	[1.3; 1.7] 2.5	[1.0; 1.3]	[0.93; 1.13] 1.00	[1.13; 1.37]* 0.91	[0.06; 0.38]† -0.08			
	[1.03; 1.26] 1.40	[1.48; 2.05] 1.49	[0.30; 0.95]† 0.08	[2.2; 2.9]	[1.2; 1.7]	[0.88; 1.13]	[0.77; 1.08]	[-0.29; 0.13] 0.03			
El Salvador	[1.29; 1.52] 0.98	[1.28; 1.72] 1.03	[-0.16; 0.35] 0.05	[2.5; 3.4] 6.7	[1.7; 2.3] 6.4	[0.91; 1.13] 1.00	[0.89; 1.23] 1.01	[-0.17; 0.25] 0.01			
Equatorial Guinea	[0.85; 1.14]	[0.80; 1.35]	[-0.25; 0.41] 0.34	[5.0; 8.8] 4.1	[4.8; 8.6] 3.1	[0.87; 1.15]	[0.75; 1.39]	[-0.30; 0.42] -0.06			
Eritrea	[0.86; 1.14]	[1.03; 1.73]	[-0.01; 0.77]	[0.9; 12.4]	[0.6; 9.3]	[0.87; 1.40]	[0.62; 1.43]	[-0.55; 0.44]			
Estonia	1.68 [1.51; 1.89]	1.15 [0.93; 1.43]	-0.53 [-0.85; -0.18]†	0.6 [0.4; 0.9]	0.5 [0.3; 0.8]	0.94 [0.83; 1.05]	1.15 [0.93; 1.41]	0.21 [-0.05; 0.51]			
Ethiopia	1.04 [0.88; 1.24]	1.47 [1.15; 1.88]	0.43	3.5 [0.6; 8.4]	2.4 [0.4; 5.8]	0.97 [0.84; 1.21]	0.90 [0.59; 1.29]	-0.06 [-0.47; 0.35]			
Federated States of Micronesia	1.29 [1.13; 1.47]	1.57 [1.22; 2.04]	0.28 [-0.14; 0.79]	2.9 [2.2; 3.8]	1.8 [1.4; 2.5]	1.00 [0.80; 1.25]	0.99 [0.74; 1.30]	-0.01 [-0.36; 0.37]			
Fiji	1.10	1.43	0.34	3.3 [2.4; 4.2]	2.3	1.03	1.05	0.01 [-0.51; 0.35]			
Finland	[0.96; 1.26]	[1.20; 1.72]	[0.04; 0.67]†	0.4	[1.7; 3.0]	[0.83; 1.50]	[0.81; 1.30]	0.18			
France	[1.38; 1.69] 1.42	[0.94; 1.34] 1.30	[-0.67; -0.13]† -0.12	[0.3; 0.5]	[0.3; 0.5]	[0.88; 1.08] 1.07	[0.97; 1.38] 0.99	[-0.05; 0.43] -0.08			
	[1.34; 1.50] 1.00	[1.17; 1.45] 1.04	[-0.28; 0.06] 0.04	[0.4; 0.5]	[0.3; 0.4]	[1.01; 1.13]* 1.05	[0.89; 1.11] 1.06	[-0.20; 0.06] 0.01			
Gabon	[0.87; 1.15] 0.98	[0.81; 1.35] 1.25	[-0.25; 0.38] 0.27	[1.4; 18.6] 5.0	[1.4; 18.0] 4.0	[0.87; 1.62] 1.01	[0.76; 1.69] 0.94	[-0.67; 0.70] -0.07			
The Gambia	[0.85; 1.13]	[0.98; 1.59]	[-0.05; 0.65]	[3.8; 6.6]	[3.1; 5.3]	[0.88; 1.16]	[0.69; 1.35]	[-0.38; 0.36]			
Georgia	1.70 [1.51; 1.93]	1.53 [1.27; 1.85]	-0.17 [-0.54; 0.22]	1.2 [1.0; 1.4]	0.8 [0.6; 1.0]	0.94 [0.83; 1.06]	0.99 [0.83; 1.19]	0.06 [-0.16; 0.29]			
Germany	1.49 [1.40; 1.57]	1.17 [1.06; 1.28]	-0.32 [-0.46; -0.18]†	0.4 [0.4; 0.5]	0.4 [0.3; 0.4]	1.01 [0.95; 1.07]	1.11 [1.00; 1.22]*	0.10 [-0.02; 0.23]			
Ghana	1.00 [0.88; 1.15]	1.16 [0.91; 1.47]	0.15 [-0.15; 0.50]	4.7 [1.9; 8.6]	4.1 [1.7; 7.4]	1.01 [0.87; 1.31]	1.06 [0.74; 1.58]	0.05 [-0.41; 0.61]			
Greece	1.51 [1.39; 1.65]	1.38	-0.13	0.5	0.3	1.00	0.93	-0.06			
Grenada	1.64	[1.18; 1.62]	[-0.39; 0.14]	[0.4; 0.6]	[0.3; 0.4]	[0.92; 1.08]	[0.80; 1.10]	[-0.23; 0.12] -0.04			
Guatemala	[1.43; 1.87] 1.06	[1.30; 2.16] 1.25	[-0.44; 0.59] 0.19	[1.1; 4.5]	[0.6; 2.8]	[0.79; 1.10] 1.07	[0.66; 1.20] 1.28	[-0.35; 0.31] 0.21			
	[1.01; 1.12] 1.01	[1.11; 1.42] 1.04	[0.04; 0.36]† 0.03	[2.0; 2.4] 6.0	[1.5; 1.9] 5.8	[0.98; 1.16] 0.99	[1.13; 1.44]* 1.08	[0.03; 0.39]† 0.09			
Guinea	[0.87; 1.17]	[0.82; 1.32]	[-0.27; 0.35] 0.04	[1.5; 13.8] 5.8	[1.4; 13.3] 5.5	[0.85; 1.18]	[0.79; 1.69]	[-0.29; 0.73] 0.06			
Guinea-Bissau	[0.89; 1.18]	[0.83; 1.37]	[-0.25; 0.38]	[1.2; 13.5]	[1.1; 12.7]	[0.82; 1.49]	[0.76; 1.67]	[-0.49; 0.71]			
Guyana	1.48 [1.32; 1.67]	1.44 [1.16; 1.77]	-0.05 [-0.40; 0.35]	3.2 [2.1; 4.9]	2.2 [1.4; 3.4]	1.03 [0.89; 1.18]	1.04 [0.74; 1.34]	0.01 [-0.33; 0.35]			
Haiti	0.99 [0.86; 1.14]	1.13 [0.85; 1.44]	0.14 [-0.21; 0.52]	5.4 [1.3; 12.1]	4.8 [1.2; 10.6]	1.01 [0.87; 1.27]	1.02 [0.68; 1.56]	0.00 [-0.44; 0.57]			
Honduras	1.41 [1.23; 1.61]	1.28 [1.00; 1.63]	-0.12 [-0.50; 0.28]	3.3 [1.4; 6.9]	2.6 [1.1; 5.5]	0.99 [0.72; 1.23]	1.11 [0.72; 1.53]	0.12 [-0.35; 0.64]			
Hungary	1.54 [1.42; 1.67]	1.41 [1.20; 1.66]	-0.13 [-0.38; 0.15]	0.6 [0.5; 0.7]	0.4 [0.3; 0.5]	1.03	0.93	-0.09 [-0.25; 0.09]			
Iceland	1.49	1.27	-0.22	0.4	0.3	0.99	1.02	0.03			
¶: Sex ratio is outlying in 1990. §: Sex	[1.31; 1.70] ratio is outlying in	[0.99; 1.65] n 2021. *: The ra	[-0.59; 0.22] tio of estimated to e	[0.2; 0.7] expected female	[0.1; 0.5] mortality is significantly dif	[0.86; 1.13] ferent from one. †	[0.79; 1.31] : Change is signific	[-0.26; 0.36] cantly different from zero.			

[1.31; 1.70] [0.99; 1.65] [-0.59; 0.22] [0.2; 0.7] [0.1; 0.3] [0.00, 1.13] [0.12, 1

	Table 17 - continued from previous page Sex ratio 5q10 Sex-specific 5q10 in 2021 (per 1,000) Estimated/Expected female 5q10										
	1990	Sex ratio 5q10 2021	Change	Male Male	5q10 in 2021 (per 1,000) Female	1990	timated/Expected 2021	Change			
	0.06	1.34	1990-2021	2.7	2.0	1.00	1 10	1990-2021			
India	0.96 [0.87; 1.06]	[1.14; 1.58]	0.38 [0.16; 0.64]†	[2.1; 3.4]	2.0 [1.5; 2.5]	1.08 [0.96; 1.22]	1.18 [0.98; 1.39]	0.10 [-0.15; 0.35]			
Indonesia	1.09 [0.96; 1.24]	1.63 [1.29; 2.07]	0.54 [0.16; 1.01]†	2.5 [0.9; 5.1]	1.5 [0.5; 3.2]	1.13 [0.90; 1.51]	0.92 [0.65; 1.19]	-0.21 [-0.67; 0.17]			
Iran (Islamic Republic of)	1.03	1.39	0.37	1.9	1.4	0.99	1.15	0.15			
Iraq	[0.90; 1.17] 1.20	[1.16; 1.68] 1.51	[0.08; 0.69]†	[1.5; 2.4]	[1.1; 1.7]	[0.75; 1.26] 1.02	[0.95; 1.38] 0.93	[-0.18; 0.50] -0.09			
	[1.04; 1.37] 1.51	[1.18; 1.93] 1.59	[-0.08; 0.78] 0.08	[0.9; 9.0] 0.4	[0.6; 6.0]	[0.77; 1.42] 1.01	[0.59; 1.28] 0.81	[-0.66; 0.36] -0.19			
Ireland	[1.36; 1.67]	[1.34; 1.88]	[-0.23; 0.41]	[0.3; 0.5]	[0.2; 0.3]	[0.92; 1.11]	[0.69; 0.96]*	[-0.36; -0.01]†			
Israel	1.47 [1.33; 1.62]	1.33 [1.16; 1.54]	-0.14 [-0.37; 0.12]	0.5 [0.4; 0.6]	0.4 [0.3; 0.4]	1.02 [0.93; 1.12]	0.97 [0.84; 1.12]	-0.05 [-0.22; 0.13]			
Italy	1.59 [1.50; 1.69]	1.32 [1.18; 1.49]	-0.27 [-0.45; -0.08]†	0.4 [0.3; 0.5]	0.3 [0.2; 0.4]	0.95 [0.90; 1.01]	0.97 [0.86; 1.10]	0.02 [-0.10; 0.16]			
Jamaica	1.58	1.58	0.00	1.7	1.1	0.99	1.00	0.01			
Tomon	[1.38; 1.80] 1.49	[1.23; 2.05] 1.26	[-0.43; 0.52] -0.24	[1.3; 2.2] 0.4	[0.8; 1.5]	[0.85; 1.14] 0.95	[0.78; 1.28]	[-0.27; 0.34] 0.07			
Japan	[1.42; 1.57] 1.59	[1.15; 1.37] 1.56	[-0.37; -0.10]† -0.03	[0.4; 0.5]	[0.3; 0.4] 0.8	[0.91; 1.01] 0.97	[0.93; 1.13] 0.95	[-0.03; 0.19] -0.02			
Jordan	[1.40; 1.82]	[1.20; 2.03]	[-0.47; 0.50]	[0.2; 3.3]	[0.1; 2.1]	[0.79; 1.12]	[0.70; 1.25]	[-0.33; 0.34]			
Kazakhstan	1.88 [1.77; 2.00]	1.58 [1.45; 1.72]	-0.30 [-0.47; -0.11]†	1.7 [1.5; 1.8]	1.0 [1.0; 1.1]	0.79 [0.73; 0.85]*	1.00 [0.92; 1.10]	0.22 [0.11; 0.33]†			
Kenya	1.12 [0.98; 1.28]	1.27 [0.99; 1.62]	0.15 [-0.19; 0.54]	4.7 [0.9; 12.8]	3.7 [0.7; 10.3]	1.03 [0.82; 1.48]	0.96 [0.66; 1.45]	-0.07 [-0.64; 0.48]			
Kiribati	1.06	1.26	0.20	4.3	3.4	1.01	1.04	0.03			
Democratic People's Republic of	[0.92; 1.22]	[0.97; 1.63] 1.58	[-0.14; 0.61]	[3.2; 5.6]	[2.5; 4.5]	[0.85; 1.23] 0.99	[0.72; 1.48]	[-0.33; 0.48] 0.02			
Korea	[1.19; 1.56] 1.53	[1.22; 2.06] 1.33	[-0.21; 0.74] -0.20	[1.5; 2.6] 0.5	[1.0; 1.7] 0.3	[0.78; 1.22] 1.05	[0.77; 1.30] 0.97	[-0.33; 0.39] -0.08			
Republic of Korea	[1.37; 1.70]	[1.14; 1.56]	[-0.46; 0.09]	[0.4; 0.5]	[0.3; 0.4]	[0.94; 1.16]	[0.83; 1.13]	[-0.27; 0.12]			
Kosovo	1.41 [1.23; 1.61]	1.53 [1.18; 1.99]	0.12 [-0.30; 0.63]	1.3 [1.0; 1.7]	0.9 [0.6; 1.1]	1.00 [0.79; 1.21]	1.01 [0.78; 1.29]	0.01 [-0.33; 0.39]			
Kuwait	1.61	1.30	-0.31	1.0	0.8	0.96	1.13 [0.95; 1.35]	0.17			
Kyrgyzstan	[1.42; 1.84] 1.71	[1.09; 1.55] 1.55	[-0.64; 0.02] -0.16	[0.8; 1.4] 1.9	[0.6; 1.1]	[0.84; 1.10] 0.90	1.03	[-0.06; 0.43] 0.13			
	[1.57; 1.86] 0.98	[1.39; 1.73] 1.31	[-0.38; 0.07] 0.33	[1.7; 2.0] 4.8	[1.1; 1.3]	[0.81; 0.99]* 1.04	[0.92; 1.15] 0.94	[-0.01; 0.29] -0.10			
Lao People's Democratic Republic	[0.85; 1.13]	[1.03; 1.65]	[0.00; 0.72]	[1.7; 8.6]	[1.3; 6.6]	[0.87; 1.56]	[0.65; 1.39]	[-0.69; 0.39]			
Latvia	1.79 [1.62; 1.98]	1.06 [0.86; 1.30]	-0.73 [-1.02; -0.41]†	0.5 [0.3; 0.7]	0.4 [0.3; 0.7]	0.85 [0.74; 0.95]*	1.22 [1.00; 1.50]*	0.38 [0.12; 0.69]†			
Lebanon	1.36 [1.19; 1.56]	1.50 [1.16; 1.95]	0.14 [-0.28; 0.65]	1.1 [0.9; 1.5]	0.8 [0.6; 1.0]	1.00 [0.79; 1.23]	1.00 [0.78; 1.27]	0.00 [-0.36; 0.38]			
Lesotho	1.03	1.27	0.24	4.3	3.4	1.01	1.01	0.00			
Liberia	[0.89; 1.18] 0.99	[0.98; 1.65] 1.09	[-0.09; 0.66] 0.11	[1.5; 8.1] 8.1	[1.1; 6.4] 7.4	[0.85; 1.45] 1.02	[0.68; 1.49] 0.97	[-0.53; 0.51] -0.05			
	[0.86; 1.13] 1.55	[0.86; 1.39]	[-0.18; 0.45] 0.07	[2.0; 19.2] 1.8	[1.8; 17.6] 1.1	[0.87; 1.36] 0.91	[0.72; 1.52] 0.90	[-0.46; 0.51] -0.01			
Libya	[1.36; 1.77]	[1.25; 2.10]	[-0.39; 0.61]	[0.3; 6.9]	[0.2; 4.4]	[0.63; 1.12]	[0.60; 1.21]	[-0.37; 0.40]			
Lithuania	1.66 [1.51; 1.82]	1.30 [1.08; 1.56]	-0.35 [-0.63; -0.04]†	0.8 [0.6; 1.0]	0.6 [0.4; 0.8]	0.96 [0.87; 1.06]	1.07 [0.90; 1.27]	0.11 [-0.10; 0.33]			
Luxembourg	1.45 [1.26; 1.65]	1.34 [1.04; 1.73]	-0.11 [-0.49; 0.34]	0.2 [0.0; 0.4]	0.1 [0.0; 0.3]	0.99 [0.86; 1.14]	0.96 [0.75; 1.24]	-0.03 [-0.30; 0.30]			
Macedonia	1.54	1.38	-0.17	1.0	0.7	1.03	1.05	0.02			
Madagascar	[1.37; 1.74] 0.97	[1.11; 1.72] 1.09	[-0.53; 0.23] 0.12	[0.7; 1.3] 8.5	[0.5; 1.0]	[0.92; 1.16] 1.02	[0.85; 1.30] 0.97	[-0.23; 0.31] -0.05			
	[0.85; 1.12] 0.97	[0.88; 1.36] 1.20	[-0.15; 0.43] 0.22	[2.0; 20.4] 5.4	[1.7; 18.6] 4.5	[0.89; 1.19] 1.03	[0.74; 1.50] 0.97	[-0.36; 0.51] -0.05			
Malawi	[0.84; 1.11]	[0.96; 1.49]	[-0.06; 0.57]	[2.5; 9.2]	[2.1; 7.7]	[0.90; 1.21]	[0.71; 1.47]	[-0.41; 0.46]			
Malaysia	1.56 [1.44; 1.70]	1.44 [1.32; 1.56]	-0.13 [-0.30; 0.05]	1.2 [1.1; 1.3]	0.8 [0.7; 0.9]	0.99 [0.90; 1.08]	1.05 [0.97; 1.14]	0.07 [-0.06; 0.19]			
Maldives	1.29 [1.13; 1.47]	1.44 [1.12; 1.83]	0.14 [-0.24; 0.59]	1.0 [0.5; 1.5]	0.7 [0.4; 1.0]	1.06 [0.83; 1.30]	1.01 [0.78; 1.29]	-0.05 [-0.39; 0.33]			
Mali	0.95	0.93	-0.02	8.1	8.7	1.05	1.12	0.08			
Malta	[0.84; 1.08] 1.39	[0.74; 1.17] 1.35	[-0.26; 0.25] -0.04	[2.5; 15.6] 0.7	[2.7; 16.8] 0.5	[0.91; 1.25] 1.00	[0.86; 1.73] 1.00	[-0.28; 0.69] 0.00			
	[1.22; 1.60] 1.31	[1.05; 1.75] 1.52	[-0.43; 0.41] 0.21	[0.3; 1.1]	[0.2; 0.8]	[0.85; 1.19] 0.99	[0.77; 1.29] 0.99	[-0.32; 0.34] 0.00			
Marshall Islands	[1.15; 1.50]	[1.18; 1.97]	[-0.20; 0.71]	[2.5; 4.2]	[1.6; 2.8]	[0.79; 1.24]	[0.72; 1.32]	[-0.35; 0.38]			
Mauritania	1.03 [0.90; 1.18]	1.35 [1.07; 1.69]	0.32 [-0.01; 0.71]	4.0 [0.8; 9.0]	3.0 [0.6; 6.7]	1.02 [0.86; 1.54]	0.96 [0.64; 1.38]	-0.07 [-0.65; 0.38]			
Mauritius	1.48 [1.31; 1.67]	1.33 [1.07; 1.65]	-0.16 [-0.49; 0.23]	1.1 [0.8; 1.4]	0.8 [0.6; 1.1]	1.08 [0.95; 1.22]	1.12 [0.91; 1.37]	0.04 [-0.23; 0.34]			
Mexico	1.53	1.36	-0.16	1.6	1.2	1.02	1.16	0.15			
Republic of Moldova	[1.48; 1.58] 1.57	[1.27; 1.47] 1.43	[-0.27; -0.05]† -0.14	[1.5; 1.8] 1.6	[1.1; 1.3]	[0.97; 1.06] 1.00	[1.08; 1.25]* 1.10	[0.05; 0.25]† 0.10			
•	[1.43; 1.72] 1.50	[1.20; 1.70] 1.29	[-0.42; 0.18] -0.21	[1.2; 1.9] 0.5	[0.9; 1.4] 0.4	[0.91; 1.11] 1.00	[0.93; 1.30] 1.00	[-0.11; 0.33] 0.00			
Monaco	[1.31; 1.71]	[0.99; 1.68]	[-0.60; 0.25]	[0.4; 0.6]	[0.3; 0.5]	[0.87; 1.14]	[0.78; 1.30]	[-0.27; 0.34]			
Mongolia	1.20 [1.06; 1.34]	1.77 [1.48; 2.10]	0.57 [0.23; 0.95]†	2.3 [1.8; 2.7]	1.3 [1.0; 1.6]	0.98 [0.83; 1.18]	0.90 [0.76; 1.08]	-0.07 [-0.33; 0.17]			
Montenegro	1.55 [1.36; 1.77]	1.36 [1.05; 1.76]	-0.19 [-0.59; 0.27]	0.5 [0.2; 0.9]	0.4 [0.2; 0.7]	1.00 [0.86; 1.14]	0.97 [0.75; 1.25]	-0.03 [-0.30; 0.29]			
Montserrat	1.62	1.58	-0.04	0.8	0.5	0.99	0.90	-0.09			
Morocco	[1.42; 1.85] 1.34	[1.22; 2.03] 1.42	[-0.49; 0.48] 0.08	[0.6; 1.1] 1.1	[0.4; 0.7] 0.8	[0.87; 1.12] 1.01	[0.71; 1.14] 1.03	[-0.34; 0.19] 0.02			
	[1.17; 1.52] 0.99	[1.11; 1.84] 1.04	[-0.30; 0.55] 0.05	[0.2; 2.8] 6.0	[0.2; 2.0] 5.8	[0.76; 1.27] 1.02	[0.77; 1.35] 1.08	[-0.36; 0.45] 0.06			
Mozambique	[0.84; 1.17]	[0.80; 1.35]	[-0.27; 0.42]	[1.3; 15.4]	[1.2; 14.8]	[0.88; 1.40]	[0.77; 1.73]	[-0.42; 0.73]			
Myanmar	1.05 [0.91; 1.20]	1.57 [1.21; 2.02]	0.52 [0.11; 1.00]†	2.4 [0.4; 6.3]	1.5 [0.3; 4.1]	1.01 [0.82; 1.56]	0.92 [0.61; 1.25]	-0.09 [-0.73; 0.30]			
Namibia	1.14 [0.99; 1.30]	1.01 [0.79; 1.30]	-0.13 [-0.41; 0.22]	6.4 [1.9; 13.0]	6.4 [1.9; 12.9]	1.00 [0.80; 1.46]	1.09 [0.79; 1.72]	0.09 [-0.51; 0.76]			
¶: Sex ratio is outlying in 1990. §: Sex											

	Table 17 – continued from previous page Sex ratio 5q10 Sex-specific 5q10 in 2021 (per 1,000) Estimated/Expected female 5q10											
	1990	Sex ratio 5q1	Change	Sex-specific Male	5q10 in 2021 (per 1,000) Female	1990	timated/Expected	Change				
	1.16	1.55	1990-2021 0.40	3.1	2.0	1.00	0.99	1990–2021 -0.01				
Nauru	[1.00; 1.33] 1.03	[1.20; 2.00] 1.43	[-0.02; 0.90] 0.40	[2.3; 4.0] 2.4	[1.5; 2.6] 1.7	[0.82; 1.27]	[0.73; 1.31] 1.04	[-0.37; 0.35] 0.04				
Nepal	[0.91; 1.18]	[1.12; 1.81]	[0.04; 0.81]†	[0.7; 5.9]	[0.5; 4.2]	[0.86; 1.47]	[0.70; 1.37]	[-0.49; 0.40]				
Netherlands	1.30 [1.19; 1.41]	1.34 [1.17; 1.54]	0.04 [-0.16; 0.27]	0.5 [0.4; 0.6]	0.4 [0.3; 0.4]	1.14 [1.06; 1.23]*	0.96 [0.84; 1.10]	-0.18 [-0.34; -0.01]†				
New Zealand	1.58 [1.43; 1.75]	1.29 [1.12; 1.49]	-0.29 [-0.53; -0.03]†	0.7 [0.5; 0.8]	0.5 [0.4; 0.6]	1.01 [0.91; 1.11]	1.05 [0.91; 1.20]	0.04 [-0.14; 0.23]				
Nicaragua	1.52 [1.33; 1.74]	1.58 [1.22; 2.05]	0.06 [-0.38; 0.59]	2.5 [0.7; 6.0]	1.6 [0.4; 3.8]	0.95 [0.68; 1.15]	0.93 [0.62; 1.25]	-0.02 [-0.41; 0.41]				
Niger	0.98 [0.85; 1.14]	0.98 [0.78; 1.23]	0.00 [-0.27; 0.29]	11.9 [3.0; 23.5]	12.2 [3.1; 23.9]	1.02 [0.88; 1.23]	1.05 [0.81; 1.53]	0.02 [-0.31; 0.53]				
Nigeria	0.98	1.11 [0.91; 1.36]	0.13	7.2 [2.0; 14.3]	6.5 [1.8; 13.0]	1.02	0.97	-0.05 [-0.36; 0.49]				
Niue	1.76	1.65	-0.11	2.9	1.7	0.88	0.94	0.07				
Norway	[1.55; 2.01] 1.60	[1.27; 2.14]	[-0.58; 0.45] -0.55	[2.2; 3.7]	[1.3; 2.3]	[0.73; 1.01]	[0.70; 1.24]	[-0.21; 0.40]				
Oman	[1.43; 1.78] 1.23	[0.87; 1.25] 1.57	[-0.82; -0.28]† 0.34	[0.3; 0.5]	[0.3; 0.5]	[0.84; 1.04] 1.01	[1.04; 1.48]* 0.99	[0.07; 0.57]† -0.01				
Pakistan	[1.07; 1.42] 1.07	[1.20; 2.04] 1.13	[-0.10; 0.86] 0.05	[1.1; 1.8]	[0.7; 1.2]	[0.81; 1.28] 1.02	[0.77; 1.28]	[-0.39; 0.36] 0.18				
	[0.97; 1.19]	[0.89; 1.43] 1.65	[-0.22; 0.38] 0.15	[1.1; 8.9]	[1.0; 8.0] 1.3	[0.89; 1.19] 0.96	[0.79; 1.67] 0.97	[-0.28; 0.68] 0.01				
Palau	[1.31; 1.71] 1.46	[1.27; 2.14] 1.39	[-0.30; 0.70] -0.07	[1.7; 2.8] 1.9	[1.0; 1.8] 1.4	[0.76; 1.14] 1.09	[0.74; 1.25] 1.15	[-0.29; 0.37] 0.06				
Panama	[1.30; 1.64] 1.08	[1.19; 1.63]	[-0.35; 0.23]	[1.6; 2.2]	[1.2; 1.6] 3.1	[0.96; 1.23]	[0.98; 1.34]	[-0.16; 0.30] 0.09				
Papua New Guinea	[0.94; 1.24]	[0.97; 1.63]	0.18 [-0.17; 0.59]	3.9 [3.0; 5.1]	[2.3; 4.1]	1.01 [0.85; 1.23]	[0.76; 1.53]	[-0.29; 0.55]				
Paraguay	1.52 [1.32; 1.74]	1.59 [1.23; 2.07]	0.07 [-0.37; 0.61]	2.2 [0.7; 4.8]	1.4 [0.4; 3.0]	0.97 [0.70; 1.16]	0.95 [0.67; 1.26]	-0.02 [-0.37; 0.40]				
Peru	1.31 [1.15; 1.49]	1.27 [1.01; 1.61]	-0.03 [-0.37; 0.35]	1.4 [0.6; 2.5]	1.1 [0.5; 2.0]	1.00 [0.78; 1.28]	1.20 [0.94; 1.52]	0.20 [-0.19; 0.60]				
Philippines	1.27 [1.13; 1.43]	1.49 [1.26; 1.75]	0.22 [-0.07; 0.53]	2.7 [2.3; 3.1]	1.8 [1.5; 2.1]	1.04 [0.87; 1.25]	1.06 [0.89; 1.26]	0.02 [-0.26; 0.30]				
Poland	1.71 [1.61; 1.81]	1.11 [1.00; 1.24]	-0.60 [-0.75; -0.44]†	0.6 [0.5; 0.6]	0.5 [0.5; 0.6]	0.93 [0.88; 0.99]*	1.17 [1.06; 1.30]*	0.24 [0.11; 0.38]†				
Portugal	1.68 [1.56; 1.80]	1.19 [1.02; 1.38]	-0.49	0.5	0.4 [0.3; 0.5]	0.95	1.09	0.13				
Qatar	1.59	1.39	[-0.71; -0.26]† -0.20	0.7	0.5	0.99	0.98	-0.01				
Romania	[1.39; 1.82] 1.72	[1.10; 1.78] 1.43	[-0.60; 0.26] -0.29	[0.4; 1.0]	[0.3; 0.8]	[0.85; 1.14] 0.91	[0.77; 1.24] 1.04	[-0.28; 0.30] 0.13				
Russian Federation	[1.62; 1.82] 1.99	[1.28; 1.59] 1.49	[-0.48; -0.10]† -0.50	[0.9; 1.3]	[0.6; 0.9] 0.8	[0.85; 0.97]* 0.77	[0.94; 1.16] 1.02	[0.00; 0.26]† 0.25				
	[1.92; 2.06] 1.02	[1.38; 1.61] 1.05	[-0.64; -0.36]† 0.03	[1.1; 1.4] 7.0	[0.7; 0.9] 6.6	[0.74; 0.81]* 0.98	[0.95; 1.11] 1.04	[0.16; 0.34]† 0.05				
Rwanda	[0.86; 1.19]	[0.83; 1.33] 1.60	[-0.27; 0.36] -0.05	[1.1; 23.1] 1.9	[1.0; 21.7] 1.2	[0.86; 1.14] 0.94	[0.76; 1.65] 1.00	[-0.28; 0.69] 0.06				
Saint Kitts and Nevis	[1.44; 1.88]	[1.22; 2.06] 1.59	[-0.52; 0.48] -0.02	[1.5; 2.5] 1.5	[0.9; 1.6] 0.9	[0.79; 1.09]	[0.77; 1.29]	[-0.23; 0.40] 0.00				
Saint Lucia	[1.40; 1.83]	[1.23; 2.05]	[-0.46; 0.51]	[0.4; 3.0]	[0.2; 1.9]	[0.76; 1.12]	[0.71; 1.24]	[-0.30; 0.35]				
Samoa	1.50 [1.31; 1.72]	1.51 [1.17; 1.95]	0.01 [-0.41; 0.51]	1.5 [0.4; 3.0]	1.0 [0.2; 2.0]	0.96 [0.68; 1.17]	1.00 [0.75; 1.31]	0.04 [-0.30; 0.44]				
San Marino	1.59 [1.39; 1.81]	1.29 [1.00; 1.67]	-0.30 [-0.69; 0.16]	0.3 [0.2; 0.4]	0.2 [0.2; 0.3]	1.00 [0.88; 1.14]	1.00 [0.77; 1.29]	0.00 [-0.29; 0.33]				
Sao Tome and Principe	1.00 [0.87; 1.15]	1.51 [1.17; 1.95]	0.51 [0.12; 0.97]†	2.2 [1.7; 2.8]	1.4 [1.1; 1.9]	1.00 [0.87; 1.16]	1.06 [0.82; 1.36]	0.06 [-0.25; 0.40]				
Saudi Arabia	1.17 [1.02; 1.35]	1.43 [1.10; 1.86]	0.26 [-0.14; 0.73]	0.9 [0.7; 1.2]	0.6 [0.5; 0.8]	1.00 [0.82; 1.27]	1.00 [0.78; 1.28]	0.00 [-0.38; 0.37]				
Senegal	1.00 [0.87; 1.13]	1.41 [1.13; 1.76]	0.42 [0.08; 0.81]†	4.2 [1.2; 8.3]	3.0 [0.8; 5.9]	1.01 [0.87; 1.30]	0.91 [0.63; 1.30]	-0.10 [-0.50; 0.33]				
Serbia	1.54 [1.39; 1.72]	1.49 [1.23; 1.79]	-0.05 [-0.38; 0.31]	0.8 [0.6; 1.0]	0.5 [0.4; 0.7]	1.03 [0.93; 1.15]	0.94 [0.79; 1.12]	-0.10 [-0.30; 0.13]				
Seychelles	1.60	1.69	0.09	1.6	1.0	0.97	0.90	-0.07 [-0.36; 0.26]				
Sierra Leone	[1.39; 1.82] 0.99	[1.32; 2.16]	[-0.37; 0.62]	[0.5; 3.4] 9.5	[0.3; 2.0]	[0.81; 1.12]	[0.68; 1.17]	0.10				
Singapore	[0.86; 1.15] 1.54	[0.74; 1.14] 1.28	[-0.32; 0.19] -0.27	[2.7; 20.5] 0.4	[2.9; 22.5]	[0.86; 1.53] 1.03	[0.88; 1.72] 1.01	[-0.44; 0.73] -0.02				
Slovakia	[1.37; 1.74] 1.61	[1.02; 1.60]	[-0.62; 0.12] -0.34	[0.3; 0.5]	[0.2; 0.4]	[0.91; 1.15] 0.98	[0.81; 1.27]	[-0.27; 0.28] 0.10				
	[1.47; 1.76] 1.60	[1.07; 1.50] 1.30	[-0.59; -0.06]† -0.30	[0.6; 0.9]	[0.4; 0.7]	[0.90; 1.07] 0.97	[0.92; 1.26] 0.99	[-0.10; 0.31] 0.02				
Slovenia	[1.41; 1.80] 1.42	[1.02; 1.66] 1.56	[-0.66; 0.11] 0.14	[0.3; 0.6]	[0.2; 0.4] 1.5	[0.86; 1.09]	[0.78; 1.26]	[-0.23; 0.32] 0.03				
Solomon Islands	[1.24; 1.62] 0.99	[1.21; 2.02]	[-0.29; 0.67] 0.00	[1.8; 3.0] 9.2	[1.1; 2.0] 9.3	[0.79; 1.21]	[0.78; 1.32]	[-0.31; 0.40] 0.01				
Somalia	[0.85; 1.14]	[0.76; 1.28]	[-0.28; 0.33]	[6.9; 12.2]	[7.0; 12.3]	[0.87; 1.14]	[0.77; 1.32]	[-0.28; 0.36]				
South Africa	1.58 [1.39; 1.80]	1.39 [1.19; 1.61]	-0.19 [-0.50; 0.12]	3.5 [2.7; 4.5]	2.5 [2.0; 3.2]	0.90 [0.63; 1.10]	1.05 [0.83; 1.28]	0.15 [-0.16; 0.53]				
South Sudan	1.00 [0.85; 1.17]	1.00 [0.77; 1.31]	0.01 [-0.30; 0.36]	8.4 [6.3; 11.0]	8.3 [6.2; 11.0]	1.00 [0.87; 1.15]	1.00 [0.76; 1.34]	0.00 [-0.30; 0.38]				
Spain	1.50 [1.42; 1.59]	1.28 [1.13; 1.44]	-0.22 [-0.40; -0.04]†	0.4 [0.4; 0.5]	0.3 [0.3; 0.4]	1.03 [0.98; 1.10]	1.01 [0.89; 1.15]	-0.03 [-0.16; 0.12]				
Sri Lanka	1.39 [1.25; 1.54]	1.24 [1.02; 1.52]	-0.15 [-0.43; 0.18]	0.9 [0.7; 1.3]	0.7 [0.5; 1.0]	1.07 [0.94; 1.21]	1.16 [0.96; 1.40]	0.09 [-0.17; 0.38]				
Saint Vincent and the Grenadines	1.58 [1.39; 1.81]	1.43 [1.10; 1.85]	-0.16 [-0.57; 0.33]	3.7	2.6 [1.3; 4.2]	0.98 [0.83; 1.13]	0.99	0.00				
State of Palestine	1.60	1.60	0.00	2.2	1.4	0.95	0.94	-0.01				
Sudan	[1.40; 1.82]	[1.25; 2.07]	[-0.43; 0.54]	[0.6; 4.8]	[0.4; 3.1]	[0.73; 1.11]	0.67; 1.24]	[-0.34; 0.36]				
Suriname§	[0.89; 1.16]	[1.15; 1.88] 0.71	[0.08; 0.90]†	[0.6; 9.3]	[0.4; 6.4]	[0.87; 1.59] 0.98	[0.59; 1.28]	[-0.77; 0.29] 1.23				
¶: Sex ratio is outlying in 1990. §: Sex	[1.35; 1.75] ratio is outlying in	[0.60; 0.85] n 2021. *: The ra	[-1.08; -0.58]† tio of estimated to e	[1.1; 2.4] xpected female	[1.6; 3.3] mortality is significantly dif	[0.81; 1.14] ferent from one. †:	[1.85; 2.63]* : Change is signifi	[0.82; 1.69]† cantly different from zero.				

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 17 – continued from previous page

		Sex ratio 5q1		Sex-specific	5q10 in 2021 (per 1,000)	Fet	Estimated/Expected female 5q10			
	1990	2021	Change	Male Male	Female	1990	2021	Change		
			1990-2021					1990-2021		
Eswatini	1.07	1.60	0.53	2.0	1.3	1.02	0.73	-0.29		
	[0.93; 1.22]	[1.24; 2.05]	[0.11; 1.03]†	[0.6; 18.6]	[0.4; 11.7]	[0.82; 1.55]	[0.51; 1.14]	[-0.92; 0.19]		
Sweden	1.35 [1.23; 1.49]	1.24 [1.07; 1.45]	[-0.35; 0.15]	0.4 [0.4; 0.5]	[0.3; 0.4]	1.05 [0.96; 1.15]	1.04 [0.89; 1.21]	-0.01 [-0.20; 0.19]		
Switzerland	1.57	1.11	-0.46	0.4	0.4	0.97	1.16	0.19		
Switzerland	[1.42; 1.74]	[0.94; 1.31]	[-0.71; -0.20]†	[0.3; 0.5]	[0.3; 0.5]	[0.88; 1.06]	[0.98; 1.38]	[-0.02; 0.44]		
Syria	1.26 [1.12; 1.43]	1.55 [1.26; 1.96]	0.29 [-0.07; 0.73]	2.7 [0.8; 5.5]	1.7 [0.5; 3.6]	1.06 [0.82; 1.33]	0.96 [0.68; 1.21]	-0.10 [-0.49; 0.27]		
	1.68	1.36	-0.31	1.2	0.9	0.78	1.12	0.34		
Tajikistan	[1.54; 1.82]	[1.21; 1.53]	[-0.53; -0.09]†	[1.1; 1.3]	[0.8; 1.0]	[0.69; 0.88]*	[1.00; 1.25]*	[0.18; 0.50]†		
Tanzania	0.98	1.39	0.41	4.2	3.0	1.05	0.86	-0.18		
	[0.86; 1.12]	[1.08; 1.79] 1.76	[0.05; 0.83]† 0.26	[0.7; 17.2]	[0.5; 12.4] 1.8	[0.89; 1.50] 1.00	[0.59; 1.33] 0.87	[-0.67; 0.31] -0.13		
Thailand	[1.35; 1.69]	[1.49; 2.09]	[-0.09; 0.63]	[2.8; 3.6]	[1.6; 2.1]	[0.87; 1.13]	[0.71; 1.05]	[-0.34; 0.10]		
Timor Leste	0.98	1.22	0.24	4.3	3.5	1.01	1.06	0.05		
Timor Leste	[0.85; 1.13]	[0.94; 1.59]	[-0.10; 0.64]	[3.3; 5.6]	[2.6; 4.7]	[0.88; 1.17]	[0.74; 1.53]	[-0.32; 0.54]		
Togo	1.00 [0.88; 1.15]	1.11 [0.87; 1.41]	0.10 [-0.20; 0.45]	5.1 [1.3; 10.1]	4.6 [1.2; 9.1]	1.03 [0.87; 1.55]	1.07 [0.75; 1.64]	0.05 [-0.58; 0.65]		
m.	1.63	1.43	-0.20	0.9	0.6	0.95	1.01	0.06		
Tonga	[1.43; 1.86]	[1.11; 1.86]	[-0.61; 0.30]	[0.2; 2.1]	[0.1; 1.5]	[0.77; 1.10]	[0.76; 1.33]	[-0.25; 0.44]		
Trinidad and Tobago	1.45	1.32	-0.12	1.5	1.1	1.10	1.17	0.07		
	[1.29; 1.62] 1.46	[1.10; 1.60] 1.52	[-0.42; 0.20] 0.06	[1.0; 2.0] 1.9	[0.8; 1.5]	[0.98; 1.24] 1.00	[0.98; 1.40] 1.05	[-0.18; 0.34] 0.05		
Tunisia	[1.28; 1.66]	[1.24; 1.86]	[-0.30; 0.46]	[1.5; 2.5]	[0.9; 1.7]	[0.83; 1.18]	[0.86; 1.29]	[-0.23; 0.36]		
Turkey	1.54	1.48	-0.06	1.2	0.8	0.98	1.02	0.04		
Turkey	[1.35; 1.75]	[1.34; 1.64]	[-0.32; 0.19]	[1.0; 1.3]	[0.7; 0.9]	[0.75; 1.15]	[0.93; 1.13]	[-0.15; 0.30]		
Turkmenistan	1.36 [1.22; 1.51]	1.44 [1.19; 1.75]	0.08 [-0.22; 0.44]	2.2 [1.6; 3.0]	1.5 [1.1; 2.1]	1.05 [0.91; 1.21]	1.11 [0.90; 1.34]	0.05 [-0.22; 0.34]		
	1.61	1.41	-0.19	0.9	0.6	0.99	1.01	0.02		
Turks and Caicos Islands	[1.41; 1.83]	[1.10; 1.83]	[-0.61; 0.29]	[0.7; 1.2]	[0.5; 0.8]	[0.87; 1.13]	[0.79; 1.28]	[-0.25; 0.33]		
Tuvalu	1.25	1.59	0.34	2.6	1.6	1.00	0.99	-0.01		
	[1.09; 1.43] 0.98	[1.22; 2.06]	[-0.09; 0.85] 0.15	[2.0; 3.3] 5.4	[1.2; 2.2]	[0.80; 1.27] 1.03	[0.75; 1.30]	[-0.37; 0.37] -0.01		
Uganda	[0.85; 1.12]	[0.89; 1.44]	[-0.15; 0.50]	[1.3; 11.5]	[1.2; 10.2]	[0.89; 1.40]	[0.73; 1.59]	[-0.47; 0.60]		
Ukraine	1.79	1.54	-0.26	1.1	0.7	0.89	0.97	0.08		
Ckraine	[1.71; 1.88]	[1.41; 1.68]	[-0.41; -0.09]†	[1.0; 1.2]	[0.6; 0.8]	[0.84; 0.94]*	[0.89; 1.06]	[-0.01; 0.18]		
United Arab Emirates	1.60 [1.39; 1.82]	1.42 [1.10; 1.85]	-0.18 [-0.60; 0.33]	0.9	0.6 [0.4; 0.8]	1.00 [0.87; 1.14]	1.00 [0.78; 1.27]	0.00 [-0.28; 0.32]		
Heisel Riveles	1.50	1.37	-0.13	0.5	0.3	1.01	0.94	-0.07		
United Kingdom	[1.42; 1.59]	[1.24; 1.52]	[-0.30; 0.05]	[0.4; 0.5]	[0.3; 0.4]	[0.95; 1.06]	[0.84; 1.05]	[-0.18; 0.06]		
United States of America	1.64	1.40	-0.24	0.9	0.6 [0.6; 0.7]	0.97 [0.93; 1.01]	1.02	0.06		
	[1.58; 1.70] 1.68	[1.28; 1.54] 1.36	[-0.37; -0.09]† -0.33	[0.8; 1.0]	0.7	0.95	[0.94; 1.12] 1.07	[-0.04; 0.15] 0.12		
Uruguay	[1.51; 1.87]	[1.14; 1.62]	[-0.63; 0.01]	[0.7; 1.2]	[0.5; 0.9]	[0.85; 1.06]	[0.90; 1.27]	[-0.09; 0.35]		
Uzbekistan	1.45	1.35	-0.10	1.9	1.4	1.00	1.18	0.19		
CESCRISTAIN	[1.31; 1.61] 1.45	[1.18; 1.55] 1.60	[-0.35; 0.16] 0.15	[1.8; 2.1]	[1.3; 1.6]	[0.87; 1.13] 0.99	[1.03; 1.36]* 0.98	[-0.03; 0.41] -0.01		
Vanuatu	[1.27; 1.67]	[1.23; 2.08]	[-0.31; 0.68]	[2.1; 3.6]	[1.3; 2.3]	[0.79; 1.19]	[0.74; 1.29]	[-0.33; 0.37]		
Venezuela (Bolivarian Republic of)	1.58	1.54	-0.04	2.5	1.6	1.00	1.03	0.03		
venezueia (Bonvarian Republic 01)	[1.41; 1.76]	[1.27; 1.85]	[-0.38; 0.33]	[1.8; 3.3]	[1.2; 2.2]	[0.89; 1.12]	[0.84; 1.25]	[-0.20; 0.29]		
Vietnam	1.49 [1.31; 1.70]	1.81 [1.42; 2.30]	0.32 [-0.14; 0.86]	2.1 [1.2; 3.2]	1.1 [0.7; 1.8]	0.97 [0.68; 1.18]	0.87 [0.68; 1.11]	-0.10 [-0.40; 0.28]		
V	1.03	1.54	0.51	3.0	2.0	1.02	0.90	-0.12		
Yemen	[0.90; 1.17]	[1.14; 2.21]	[-0.04; 1.20]	[0.5; 8.8]	[0.2; 5.9]	[0.87; 1.41]	[0.55; 1.28]	[-0.64; 0.29]		
Zambia	1.00	1.37	0.36	4.3	3.2	1.01	0.90	-0.11		
	[0.88; 1.14]	[1.07; 1.76] 1.01	[0.01; 0.78]†	[0.8; 10.6] 6.7	[0.6; 7.8]	[0.87; 1.33]	[0.61; 1.34] 1.08	[-0.55; 0.37] 0.05		
Zimbabwe	[1.00; 1.30]	[0.80; 1.28]	[-0.41; 0.19]	[2.4; 12.2]	[2.4; 12.1]	[0.81; 1.46]	[0.80; 1.67]	[-0.46; 0.66]		

Table 18: Estimates and 90% uncertainty intervals for sex ratios for 10q5 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 10q5 in 2021, and ratios of estimated to expected female 10q5 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio 10q			0q5 in 2021 (per 1,000)		timated/Expected	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World	1.06	1.16	0.10	6.6	5.7	1.03	1.00	-0.03
	[1.04; 1.09]	[1.12; 1.20] 1.27	0.33	[6.4; 7.3] 5.2	[5.5; 6.3] 4.1	[1.00; 1.06]* 1.10	[0.96; 1.04]	[-0.06; 0.01] 0.02
South Asia¶	[0.89; 0.98]	[1.16; 1.38]	[0.21; 0.45]†	[4.6; 6.1]	[3.6; 4.9]	[1.05; 1.17]*	[1.01; 1.24]*	[-0.11; 0.15]
Europe and Central Asia	1.51 [1.47; 1.54]	1.36 [1.33; 1.39]	-0.14 [-0.19; -0.10]†	1.7 [1.6; 1.7]	1.2 [1.2; 1.2]	0.92 [0.89; 0.95]*	1.04 [1.02; 1.06]*	0.12 [0.08; 0.16]†
Middle East and North Africa	1.15 [1.11; 1.19]	1.43 [1.35; 1.52]	0.28 [0.19; 0.38]†	4.4 [4.0; 5.4]	3.1 [2.8; 3.7]	0.99 [0.93; 1.03]	0.98 [0.87; 1.06]	0.00 [-0.12; 0.10]
Sub-Saharan Africa	1.05	1.09	0.04	16.2	14.8	0.99	0.97	-0.02
Latin America and Caribbean	[1.01; 1.09]	[1.04; 1.14] 1.32	[-0.03; 0.10] -0.02	[15.4; 18.6] 3.1	[14.1; 16.9] 2.3	[0.97; 1.02] 1.02	[0.93; 1.03] 1.08	[-0.08; 0.05] 0.06
	[1.31; 1.37]	[1.27; 1.37] 1.49	[-0.09; 0.04] 0.25	[2.9; 3.3]	[2.2; 2.5] 2.1	[0.99; 1.04] 1.00	[1.02; 1.13]* 0.95	[0.00; 0.12] -0.05
East Asia and Pacific	[1.16; 1.30] 1.50	[1.37; 1.61] 1.30	[0.12; 0.40]†	[2.7; 4.0] 1.5	[1.8; 2.7] 1.1	[0.93; 1.07] 1.00	[0.87; 1.04] 1.05	[-0.16; 0.07] 0.05
North America	[1.46; 1.53]	[1.23; 1.38]	[-0.28; -0.11]†	[1.4; 1.5]	[1.1; 1.2]	[0.97; 1.02]	[0.99; 1.11]	[-0.01; 0.12]
Afghanistan	1.03 [0.93; 1.14]	1.60 [1.34; 1.92]	0.58 [0.14; 0.92]†	4.9 [2.8; 9.7]	3.0 [1.8; 5.9]	1.01 [0.90; 1.14]	0.89 [0.63; 1.09]	-0.12 [-0.42; 0.11]
Albania	1.44 [1.36; 1.53]	1.15 [1.01; 1.31]	-0.29 [-0.47; -0.11]†	2.0 [1.7; 2.3]	1.7 [1.5; 2.0]	0.98 [0.92; 1.05]	1.24 [1.10; 1.40]*	0.26 [0.09; 0.43]†
Algeria	1.34	1.23	-0.11 [-0.23; 0.00]	3.1 [3.0; 3.3]	2.5	0.93	1.22	0.29 [0.18; 0.40]†
Andorra	[1.25; 1.43]	[1.16; 1.30] 1.28	-0.22	0.8	[2.4; 2.7] 0.7	[0.85; 1.02] 0.99	[1.15; 1.29]* 1.00	0.00
	[1.38; 1.65] 1.03	[1.08; 1.53] 1.06	[-0.50; 0.08] 0.03	[0.7; 1.1] 16.2	[0.5; 0.9] 15.2	[0.91; 1.09] 1.00	[0.84; 1.19] 1.01	[-0.19; 0.22] 0.01
Angola	[0.93; 1.14]	[0.90; 1.26] 1.36	[-0.18; 0.26] -0.16	[12.3; 20.8] 1.3	[11.6; 19.7] 1.0	[0.91; 1.10] 1.00	[0.83; 1.23] 1.00	[-0.20; 0.27] 0.00
Anguilla	[1.38; 1.66]	[1.13; 1.63]	[-0.45; 0.16]	[1.0; 1.7]	[0.8; 1.3]	[0.91; 1.09]	[0.84; 1.19]	[-0.19; 0.22]
Antigua and Barbuda	1.51 [1.38; 1.66]	1.45 [1.20; 1.73]	-0.07 [-0.37; 0.26]	1.8 [1.4; 2.3]	1.3 [1.0; 1.6]	1.00 [0.91; 1.09]	0.98 [0.82; 1.16]	-0.02 [-0.21; 0.20]
Argentina	1.49 [1.44; 1.55]	1.20 [1.12; 1.28]	-0.30 [-0.40; -0.20]†	1.6 [1.5; 1.7]	1.3 [1.2; 1.5]	1.01 [0.97; 1.06]	1.16 [1.08; 1.23]*	0.14 [0.06; 0.23]†
Armenia	1.60	1.38	-0.22	2.2	1.6	0.94	1.04	0.10
Australia	[1.49; 1.72] 1.47	[1.22; 1.56] 1.26	[-0.43; 0.00] -0.21	[2.0; 2.5]	[1.4; 1.8] 0.7	[0.88; 1.01] 0.99	[0.93; 1.17] 1.02	[-0.04; 0.25] 0.03
	[1.39; 1.55]	[1.15; 1.39] 1.21	[-0.34; -0.06]† -0.23	[0.8; 0.9]	[0.6; 0.7]	[0.94; 1.04] 1.00	[0.92; 1.11] 1.06	[-0.08; 0.14] 0.06
Austria	[1.34; 1.54]	[1.08; 1.36] 1.37	[-0.40; -0.04]† 0.00	[0.7; 0.9]	[0.6; 0.8]	[0.94; 1.06] 1.06	[0.94; 1.19] 1.10	[-0.08; 0.21] 0.04
Azerbaijan	[1.30; 1.44]	[1.27; 1.48]	[-0.12; 0.13]	3.6 [3.4; 3.8]	2.6 [2.4; 2.8]	[1.00; 1.13]*	[1.02; 1.19]*	[-0.07; 0.14]
Bahamas	1.49 [1.35; 1.64]	1.45 [1.21; 1.73]	-0.04 [-0.33; 0.28]	2.6 [1.9; 3.6]	1.8 [1.4; 2.5]	1.00 [0.90; 1.10]	1.02 [0.86; 1.21]	0.02 [-0.18; 0.24]
Bahrain	1.50 [1.38; 1.64]	1.37 [1.22; 1.55]	-0.13 [-0.35; 0.10]	2.1 [1.7; 2.6]	1.5 [1.2; 1.9]	1.00 [0.92; 1.10]	1.04 [0.92; 1.17]	0.04 [-0.12; 0.20]
Bangladesh	0.98	1.44	0.46	5.3	3.7	1.04	1.04	0.00
Barbados	[0.91; 1.06] 1.50	[1.28; 1.63] 1.54	[0.27; 0.67]† 0.04	[4.3; 6.5] 1.9	[2.9; 4.6]	[0.96; 1.13] 0.99	[0.91; 1.18] 0.95	[-0.17; 0.16] -0.04
	[1.37; 1.64]	[1.27; 1.86] 1.23	[-0.28; 0.41] -0.47	[1.2; 3.1]	[0.8; 2.0]	[0.90; 1.09] 0.89	[0.78; 1.15]	[-0.25; 0.19] 0.17
Belarus	[1.62; 1.79] 1.38	[1.10; 1.38] 1.29	[-0.63; -0.30]† -0.09	[1.0; 1.4] 0.9	[0.8; 1.2] 0.7	[0.84; 0.94]* 1.06	[0.94; 1.18] 1.00	[0.04; 0.31]† -0.06
Belgium	[1.29; 1.46]	[1.15; 1.43]	[-0.25; 0.08]	[0.8; 1.0]	[0.6; 0.7]	[1.00; 1.12]	[0.89; 1.11]	[-0.19; 0.08]
Belize	1.49 [1.36; 1.64]	1.44 [1.22; 1.69]	-0.06 [-0.33; 0.25]	3.3 [2.4; 4.3]	2.3 [1.7; 3.0]	1.00 [0.89; 1.10]	1.05 [0.88; 1.23]	0.05 [-0.16; 0.27]
Benin	1.02 [0.93; 1.12]	1.06 [0.92; 1.24]	0.04 [-0.14; 0.24]	19.2 [14.4; 26.3]	18.0 [13.6; 24.6]	1.01 [0.92; 1.10]	0.98 [0.83; 1.17]	-0.03 [-0.21; 0.19]
Bhutan	1.09 [1.00; 1.37]	1.25 [1.02; 1.55]	0.16 [-0.18; 0.54]	8.1 [4.7; 14.4]	6.5 [3.6; 11.7]	0.90 [0.74; 1.08]	0.98 [0.74; 1.29]	0.07 [-0.23; 0.43]
Bolivia (Plurinational State of)	1.12	1.48	0.36	4.7	3.2	1.02	0.98	-0.04
Bosnia and Herzegovina	[1.02; 1.23] 1.56	[1.25; 1.76] 1.26	[0.09; 0.67]†	[2.8; 8.4]	[1.9; 5.6] 1.1	[0.90; 1.16] 0.96	[0.74; 1.19] 1.06	[-0.33; 0.22] 0.11
	[1.44; 1.69] 1.04	[1.12; 1.41] 1.46	[-0.51; -0.11]† 0.42	[1.1; 1.6] 8.1	[0.9; 1.3] 5.5	[0.88; 1.03] 1.01	[0.95; 1.19] 0.89	[-0.03; 0.27] -0.12
Botswana	[0.94; 1.14]	[1.22; 1.74]	[0.14; 0.74]†	[5.8; 12.2]	[4.0; 8.4]	[0.90; 1.13]	[0.68; 1.13]	[-0.37; 0.15]
Brazil	1.53 [1.42; 1.64]	1.40 [1.26; 1.56]	-0.12 [-0.31; 0.07]	2.6 [2.4; 2.7]	1.8 [1.7; 2.0]	0.99 [0.92; 1.07]	1.06 [0.96; 1.17]	0.07 [-0.06; 0.20]
British Virgin Islands	1.52 [1.38; 1.66]	1.49 [1.24; 1.79]	-0.03 [-0.34; 0.31]	2.7 [2.0; 3.4]	1.8 [1.4; 2.4]	1.00 [0.91; 1.09]	1.00 [0.83; 1.19]	0.00 [-0.20; 0.22]
Brunei	1.52 [1.39; 1.66]	1.44 [1.22; 1.71]	-0.08 [-0.37; 0.23]	2.3 [1.8; 3.1]	1.6 [1.2; 2.1]	0.99 [0.89; 1.09]	1.00 [0.85; 1.19]	0.02 [-0.18; 0.23]
Bulgaria	1.52	1.33	-0.19	1.8	1.4	1.00	1.06	0.06
Burkina Faso	[1.44; 1.60] 1.05	[1.20; 1.47] 1.10	[-0.35; -0.02]† 0.05	[1.6; 2.0] 17.6	[1.2; 1.5] 16.0	[0.95; 1.05] 0.99	[0.96; 1.17] 0.96	[-0.06; 0.18] -0.03
	[0.96; 1.15] 1.04	[0.92; 1.30] 1.07	[-0.16; 0.28] 0.03	[11.3; 29.9] 19.6	[10.2; 27.3] 18.3	[0.90; 1.08] 1.01	[0.79; 1.19] 0.97	[-0.23; 0.23] -0.04
Burundi	[0.94; 1.16]	[0.91; 1.27]	[-0.18; 0.27]	[12.4; 37.5]	[11.6; 35.2]	[0.92; 1.11]	[0.81; 1.18]	[-0.24; 0.19]
Cambodia	0.99 [0.91; 1.09]	1.49 [1.25; 1.77]	0.49 [0.22; 0.80]†	5.2 [3.3; 8.9]	3.5 [2.2; 6.0]	1.03 [0.94; 1.14]	0.96 [0.74; 1.17]	-0.07 [-0.33; 0.18]
Cameroon	1.02 [0.93; 1.11]	1.15 [0.98; 1.34]	0.13 [-0.07; 0.35]	22.5 [16.4; 30.4]	19.6 [14.1; 26.5]	1.00 [0.91; 1.09]	0.90 [0.76; 1.07]	-0.10 [-0.28; 0.10]
Canada	1.43 [1.37; 1.50]	1.18 [1.08; 1.28]	-0.26 [-0.38; -0.14]†	1.0	0.8	1.03 [0.98; 1.07]	1.10 [1.01; 1.20]*	0.07 [-0.03; 0.18]
¶: Sex ratio is outlying in 1990. §: Se	x ratio is outlying ir	2021. *: The rat	io of estimated to e	xpected female m	ortality is significantly dif	ferent from one. †:	: Change is signific	cantly different from zero.

	Table 18 – continued from previous page										
	1990	Sex ratio 10q 2021	Change	Sex-specific 1 Male	0q5 in 2021 (per 1,000) Female	1990	timated/Expected 2021	female 10q5 Change			
	1.43	1.28	1990-2021 -0.15	2.1	1.6	0.99	1.13	1990–2021 0.14			
Cape Verde	[1.31; 1.56] 1.02	[1.10; 1.48] 0.91	[-0.39; 0.09] -0.11	[1.6; 2.7] 22.4	[1.3; 2.1] 24.5	[0.87; 1.11]	[0.98; 1.29]	[-0.06; 0.35] 0.14			
Central African Republic	[0.94; 1.12]	[0.77; 1.07]	[-0.29; 0.08]	[15.3; 34.1]	[16.8; 37.8]	[0.90; 1.09]	[0.94; 1.37]	[-0.08; 0.40]			
Chad	1.04 [0.95; 1.14]	1.01 [0.88; 1.16]	-0.03 [-0.21; 0.16]	22.8 [17.4; 30.1]	22.5 [17.1; 29.8]	1.01 [0.92; 1.10]	1.01 [0.87; 1.18]	0.00 [-0.17; 0.20]			
Chile	1.52 [1.45; 1.59]	1.22 [1.11; 1.34]	-0.30 [-0.44; -0.15]†	1.4 [1.3; 1.5]	1.1 [1.0; 1.2]	1.00 [0.95; 1.04]	1.11 [1.01; 1.21]*	0.11 [0.00; 0.23]			
China	1.37 [1.24; 1.51]	1.57 [1.34; 1.85]	0.20 [-0.09; 0.52]	2.2 [1.4; 3.4]	1.4 [0.9; 2.1]	0.98 [0.84; 1.10]	0.91 [0.77; 1.08]	-0.07 [-0.26; 0.16]			
Colombia	1.52 [1.40; 1.65]	1.39 [1.25; 1.55]	-0.13 [-0.33; 0.07]	2.7 [2.5; 2.9]	1.9 [1.8; 2.1]	0.98 [0.89; 1.07]	1.07 [0.97; 1.19]	0.09 [-0.06; 0.24]			
Comoros	1.05	1.36 [1.14; 1.63]	0.32	6.1	4.5 [3.3; 6.5]	1.01 [0.89; 1.16]	1.01	0.00			
Congo	1.02	1.41	0.38	7.8	5.5	1.00	0.92	-0.08			
Democratic Republic of the Congo	[0.92; 1.13]	[1.17; 1.69]	0.01	[4.7; 13.1]	[3.4; 9.3]	[0.90; 1.13]	[0.69; 1.18]	[-0.34; 0.22]			
Cook Islands	[0.92; 1.13]	[0.88; 1.22] 1.45	[-0.19; 0.23] -0.06	[14.3; 29.0] 2.2	[13.8; 27.9]	[0.91; 1.12] 0.98	[0.84; 1.20] 0.99	[-0.21; 0.22] 0.01			
Costa Rica	[1.38; 1.65]	[1.21; 1.72] 1.25	[-0.36; 0.26] -0.17	[1.7; 2.8] 1.8	[1.1; 2.0]	[0.88; 1.08] 1.06	[0.84; 1.18]	[-0.19; 0.24] 0.07			
	[1.32; 1.53] 1.03	[1.11; 1.41] 0.96	[-0.36; 0.03] -0.07	[1.7; 2.0] 23.1	[1.3; 1.6] 24.2	[0.98; 1.14] 0.99	[1.01; 1.26]* 1.08	[-0.08; 0.23] 0.09			
Cote d'Ivoire	[0.94; 1.13] 1.54	[0.81; 1.13] 1.34	[-0.25; 0.12] -0.20	[15.6; 37.3] 1.4	[16.3; 39.5] 1.1	[0.90; 1.08] 0.97	[0.90; 1.30] 1.00	[-0.12; 0.33] 0.02			
Croatia	[1.44; 1.66]	[1.17; 1.54]	[-0.41; 0.03] -0.15	[1.2; 1.6]	[0.9; 1.2]	[0.91; 1.04] 1.01	[0.87; 1.13]	[-0.13; 0.18] 0.05			
Cuba	[1.42; 1.59]	[1.23; 1.49]	[-0.31; 0.01]	[1.8; 2.3]	[1.4; 1.7]	[0.95; 1.07]	[0.97; 1.16]	[-0.06; 0.17]			
Cyprus	1.40 [1.28; 1.53]	1.36 [1.14; 1.61]	-0.05 [-0.31; 0.25]	1.3 [1.0; 1.7]	1.0 [0.8; 1.3]	1.00 [0.91; 1.10]	0.99 [0.84; 1.17]	-0.01 [-0.20; 0.20]			
Czech Republic	1.55 [1.46; 1.64]	1.19 [1.07; 1.33]	-0.36 [-0.52; -0.19]†	0.9 [0.8; 1.0]	0.8 [0.7; 0.9]	0.96 [0.90; 1.01]	1.08 [0.97; 1.20]	0.12 [-0.01; 0.26]			
Denmark	1.46 [1.35; 1.57]	1.25 [1.10; 1.42]	-0.21 [-0.41; 0.00]	0.7	0.6 [0.5; 0.7]	0.99 [0.92; 1.06]	1.03 [0.91; 1.17]	0.04 [-0.11; 0.21]			
Djibouti	1.01 [0.92; 1.11]	1.12 [0.94; 1.34]	0.11 [-0.11; 0.35]	13.1 [10.0; 17.0]	11.7 [9.0; 15.2]	1.00 [0.91; 1.10]	1.01 [0.81; 1.27]	0.01 [-0.22; 0.29]			
Dominica	1.52	1.52	0.00	3.6 [2.2; 6.1]	2.4 [1.5; 3.9]	0.97	0.97	-0.01 [-0.24; 0.26]			
Dominican Republic	1.36	1.50	0.14	3.8	2.5	0.99	0.99	-0.01			
Ecuador	[1.25; 1.49]	[1.26; 1.77]	[-0.14; 0.44]	[2.5; 6.3]	[1.7; 4.1]	[0.86; 1.12]	[0.79; 1.18]	[-0.25; 0.23]			
Egypt	[1.23; 1.35] 1.15	[1.16; 1.34] 1.63	[-0.15; 0.07] 0.47	[2.5; 2.8] 5.0	[2.0; 2.3]	[0.99; 1.12] 1.01	[1.11; 1.28]* 0.93	[0.03; 0.24]† -0.08			
El Salvador	[1.07; 1.23] 1.36	[1.45; 1.82] 1.41	[0.28; 0.69]† 0.04	[4.6; 5.5] 4.4	[2.8; 3.4]	[0.93; 1.10] 1.04	[0.83; 1.04] 1.07	[-0.22; 0.06] 0.03			
	[1.29; 1.44] 1.01	[1.26; 1.57] 1.06	[-0.13; 0.22] 0.04	[3.9; 4.8] 15.9	[2.8; 3.5] 15.0	[0.97; 1.11] 1.00	[0.95; 1.20] 1.01	[-0.11; 0.18] 0.01			
Equatorial Guinea	[0.92; 1.12] 1.04	[0.88; 1.27]	[-0.17; 0.29] 0.35	[12.3; 20.7] 8.2	[11.5; 19.6] 5.9	[0.91; 1.10] 0.99	[0.82; 1.25]	[-0.22; 0.28] -0.07			
Eritrea	[0.95; 1.14]	[1.17; 1.65] 1.17	[0.09; 0.64]†	[4.5; 17.0] 1.1	[3.2; 12.6]	[0.90; 1.09] 0.96	[0.69; 1.20]	[-0.32; 0.23] 0.15			
Estonia	[1.45; 1.69]	[1.01; 1.36]	[-0.61; -0.16]†	[0.9; 1.4]	[0.7; 1.2]	[0.89; 1.04]	[0.96; 1.29]	[-0.04; 0.35]			
Ethiopia	1.11 [1.00; 1.23]	1.41 [1.19; 1.66]	0.30 [0.04; 0.58]†	8.3 [5.3; 13.1]	5.9 [3.8; 9.2]	0.98 [0.89; 1.07]	0.91 [0.69; 1.16]	-0.07 [-0.31; 0.21]			
Federated States of Micronesia	1.25 [1.14; 1.38]	1.49 [1.25; 1.78]	0.24 [-0.05; 0.55]	6.2 [4.8; 8.0]	4.2 [3.1; 5.4]	1.00 [0.85; 1.16]	0.99 [0.81; 1.20]	-0.01 [-0.24; 0.25]			
Fiji	1.12 [1.02; 1.24]	1.43 [1.26; 1.62]	0.31 [0.09; 0.54]†	5.8 [5.0; 6.8]	4.1 [3.5; 4.8]	1.02 [0.89; 1.18]	1.03 [0.87; 1.19]	0.01 [-0.22; 0.22]			
Finland	1.45 [1.35; 1.57]	1.09 [0.96; 1.24]	-0.36 [-0.54; -0.17]†	0.7 [0.6; 0.9]	0.7 [0.6; 0.8]	0.98 [0.92; 1.05]	1.17 [1.03; 1.33]*	0.19 [0.02; 0.36]†			
France	1.37 [1.31; 1.42]	1.31 [1.21; 1.41]	-0.06 [-0.17; 0.06]	0.8	0.6 [0.6; 0.7]	1.06 [1.02; 1.10]*	0.98 [0.90; 1.06]	-0.08 [-0.17; 0.01]			
Gabon	1.04 [0.95; 1.15]	1.13 [0.94; 1.34]	0.08	12.2 [6.3; 25.4]	10.9	1.00 [0.90; 1.13]	1.00	0.00			
The Gambia	1.01	1.24	0.23	10.8	8.8 [6.8; 11.4]	1.00	0.97	-0.03			
Georgia	[0.92; 1.11]	1.44	[0.00; 0.47]†	2.1	1.5	[0.91; 1.10] 0.97	[0.79; 1.22]	[-0.25; 0.24]			
Germany	[1.44; 1.69] 1.40	[1.26; 1.65] 1.22	[-0.35; 0.14] -0.18	[1.9; 2.4] 0.8	[1.3; 1.7] 0.7	[0.90; 1.05] 1.02	[0.88; 1.13]	[-0.12; 0.19] 0.02			
Ghana	[1.35; 1.46]	[1.14; 1.31] 1.16	[-0.28; -0.08]† 0.10	[0.8; 0.9]	[0.6; 0.7]	[0.98; 1.06] 0.96	[0.98; 1.12]	[-0.06; 0.11] 0.07			
	[0.97; 1.16] 1.41	[0.99; 1.35] 1.36	[-0.11; 0.32] -0.05	[8.1; 14.6] 0.9	[6.9; 12.7] 0.6	[0.88; 1.06] 1.02	[0.83; 1.28] 0.94	[-0.16; 0.34] -0.08			
Greece	[1.33; 1.50] 1.51	[1.22; 1.53] 1.57	[-0.23; 0.14] 0.06	[0.8; 1.0]	[0.6; 0.7]	[0.96; 1.08] 0.98	[0.84; 1.06]	[-0.20; 0.06] -0.03			
Grenada	[1.37; 1.65] 1.00	[1.31; 1.87]	[-0.26; 0.41] 0.20	[3.3; 6.6]	[2.1; 4.2]	[0.87; 1.08]	[0.75; 1.15]	[-0.27; 0.20] 0.13			
Guatemala¶	[0.97; 1.04]	[1.10; 1.31]	[0.09; 0.31]†	[3.5; 3.9]	[2.9; 3.3]	[1.08; 1.19]*	[1.16; 1.37]*	[0.01; 0.26]†			
Guinea	1.02 [0.93; 1.12]	1.02 [0.87; 1.20]	0.00 [-0.19; 0.21]	18.0 [13.6; 25.3]	17.6 [13.3; 24.7]	1.01 [0.92; 1.10]	1.03 [0.86; 1.24]	0.02 [-0.18; 0.26]			
Guinea-Bissau	1.07 [0.95; 1.18]	1.11 [0.93; 1.33]	0.05 [-0.24; 0.34]	13.9 [9.5; 21.2]	12.4 [8.4; 19.4]	0.99 [0.88; 1.11]	0.99 [0.81; 1.23]	0.00 [-0.23; 0.27]			
Guyana	1.44 [1.33; 1.56]	1.39 [1.19; 1.62]	-0.05 [-0.29; 0.22]	5.4 [4.0; 7.4]	3.9 [2.9; 5.3]	1.03 [0.94; 1.12]	1.05 [0.83; 1.25]	0.02 [-0.22; 0.25]			
Haiti	1.01 [0.92; 1.11]	1.06 [0.88; 1.27]	0.04	12.2 [8.0; 19.0]	11.5 [7.9; 17.5]	1.00	1.04 [0.81; 1.37]	0.04 [-0.22; 0.39]			
Honduras	1.25 [1.13; 1.37]	1.32 [1.10; 1.58]	0.07	5.5	4.1 [2.7; 7.0]	0.99 [0.86; 1.14]	1.07	0.08			
Hungary	1.46	1.34	-0.13	1.1	0.8	1.02	0.97	-0.05			
Iceland	[1.38; 1.55]	[1.19; 1.49] 1.28	[-0.30; 0.05]	0.6	[0.7; 0.9]	[0.97; 1.08]	[0.87; 1.08]	[-0.17; 0.08]			
¶: Sex ratio is outlying in 1990. §: Sex	[1.31; 1.57] ratio is outlying in	[1.06; 1.53] n 2021. *: The ra	[-0.42; 0.14] tio of estimated to e	[0.4; 0.9] expected female n	[0.3; 0.7] nortality is significantly dif	[0.91; 1.09] ferent from one. †	[0.84; 1.21] : Change is signific	[-0.19; 0.24] cantly different from zero.			

	Table 18 — continued from previous page										
	1990	Sex ratio 10q 2021	5 Change	Sex-specific 1 Male	0q5 in 2021 (per 1,000) Female	1990	timated/Expected 2021	female 10q5 Change			
	0.92	1.29	1990-2021 0.37	4.5	3.5	1.12	1.17	1990–2021 0.05			
India¶	[0.87; 0.98]	[1.15; 1.44]	[0.22; 0.54]†	[4.0; 5.1]	[3.1; 4.0]	[1.05; 1.21]*	[1.04; 1.32]*	[-0.12; 0.21]			
Indonesia	1.05 [0.97; 1.14]	1.49 [1.26; 1.75]	0.44 [0.18; 0.72]†	5.6 [4.1; 8.2]	3.8 [2.8; 5.4]	1.06 [0.96; 1.18]	0.98 [0.77; 1.17]	-0.09 [-0.33; 0.14]			
Iran (Islamic Republic of)	1.04 [0.95; 1.14]	1.34 [1.18; 1.52]	0.30 [0.10; 0.52]†	3.6 [3.1; 4.2]	2.7 [2.3; 3.2]	0.98 [0.84; 1.12]	1.13 [0.99; 1.28]	0.14 [-0.06; 0.36]			
Iraq	1.19 [1.08; 1.30]	1.44 [1.22; 1.70]	0.25 [-0.01; 0.54]	6.1 [3.6; 12.1]	4.2 [2.5; 8.3]	0.98 [0.85; 1.14]	0.97 [0.69; 1.21]	-0.01 [-0.34; 0.28]			
Ireland	1.49 [1.39; 1.60]	1.50 [1.34; 1.69]	0.01 [-0.20; 0.22]	0.7	0.5 [0.4; 0.5]	0.97 [0.91; 1.04]	0.85 [0.76; 0.96]*	-0.12 [-0.24; 0.01]			
Israel	1.35	1.34	-0.01	0.9	0.7	1.06	0.95	-0.11			
Italy	[1.26; 1.45] 1.46	[1.22; 1.49] 1.27	[-0.17; 0.17] -0.20	[0.8; 1.0] 0.7	[0.6; 0.7]	[1.00; 1.13] 0.99	[0.86; 1.06] 1.01	[-0.23; 0.01] 0.02			
	[1.40; 1.53] 1.52	[1.17; 1.38] 1.48	[-0.32; -0.07]† -0.04	[0.6; 0.8]	[0.5; 0.6]	[0.95; 1.03] 0.99	[0.93; 1.10] 1.01	[-0.07; 0.13] 0.02			
Jamaica	[1.38; 1.66] 1.49	[1.24; 1.76] 1.23	[-0.33; 0.28] -0.26	[2.3; 3.8] 0.8	[1.6; 2.6] 0.7	[0.90; 1.09] 0.94	[0.86; 1.21] 1.04	[-0.17; 0.25] 0.10			
Japan	[1.44; 1.54]	[1.15; 1.30]	[-0.35; -0.17]†	[0.8; 0.8]	[0.6; 0.7]	[0.91; 0.98]*	[0.98; 1.12]	[0.03; 0.18]†			
Jordan	1.50 [1.38; 1.65]	1.47 [1.23; 1.76]	-0.03 [-0.33; 0.29]	2.8 [1.7; 5.0]	1.9 [1.2; 3.3]	0.97 [0.85; 1.08]	0.99 [0.81; 1.19]	0.01 [-0.20; 0.26]			
Kazakhstan	1.76 [1.69; 1.83]	1.52 [1.43; 1.61]	-0.24 [-0.36; -0.12]†	3.1 [3.0; 3.2]	2.0 [1.9; 2.1]	0.81 [0.77; 0.86]*	0.99 [0.93; 1.05]	0.17 [0.10; 0.25]†			
Kenya	1.08 [0.99; 1.19]	1.21 [1.02; 1.42]	0.12 [-0.10; 0.36]	9.9 [6.0; 18.4]	8.2 [5.0; 15.2]	0.98 [0.88; 1.10]	1.00 [0.77; 1.32]	0.02 [-0.25; 0.36]			
Kiribati	1.06	1.25	0.19	10.0	8.0	1.00	1.01	0.01			
Democratic People's Republic of	[0.97; 1.17]	[1.04; 1.49] 1.50	[-0.06; 0.45] 0.20	[7.7; 12.9] 4.2	[6.1; 10.5] 2.8	[0.90; 1.14] 0.99	[0.80; 1.29] 1.00	[-0.23; 0.29] 0.01			
Korea	[1.19; 1.43]	[1.26; 1.79]	[-0.09; 0.52] -0.15	[3.2; 5.4]	[2.1; 3.6]	[0.85; 1.15]	[0.84; 1.20] 0.97	[-0.23; 0.26] -0.05			
Republic of Korea	[1.36; 1.58] 1.36	[1.18; 1.47] 1.46	[-0.33; 0.04] 0.10	[0.8; 0.9]	[0.6; 0.7] 1.7	[0.95; 1.11] 1.00	[0.87; 1.08]	[-0.19; 0.09] 0.00			
Kosovo	[1.23; 1.48]	[1.22; 1.73]	[-0.18; 0.41]	[1.9; 3.2] 2.0	[1.3; 2.2] 1.5	[0.85; 1.14]	[0.85; 1.19]	[-0.23; 0.27] 0.09			
Kuwait	1.43 [1.32; 1.55]	1.32 [1.17; 1.50]	-0.10 [-0.31; 0.11]	[1.8; 2.3]	[1.3; 1.8]	[0.90; 1.06]	1.07 [0.95; 1.21]	[-0.06; 0.26]			
Kyrgyzstan	1.54 [1.45; 1.63]	1.60 [1.48; 1.73]	0.06 [-0.09; 0.22]	3.3 [3.1; 3.5]	2.1 [1.9; 2.2]	0.95 [0.89; 1.02]	0.94 [0.87; 1.02]	-0.01 [-0.10; 0.09]			
Lao People's Democratic Republic	1.04 [0.94; 1.15]	1.35 [1.14; 1.60]	0.31 [0.05; 0.58]†	7.8 [5.0; 11.5]	5.8 [3.6; 8.7]	1.00 [0.90; 1.11]	0.94 [0.72; 1.21]	-0.05 [-0.31; 0.24]			
Latvia	1.70 [1.59; 1.82]	1.09 [0.95; 1.26]	-0.61 [-0.81; -0.39]†	1.0 [0.8; 1.2]	0.9	0.85 [0.79; 0.92]*	1.18 [1.02; 1.36]*	0.32 [0.14; 0.52]†			
Lebanon	1.38	1.45	0.06	2.3	1.6	1.00	1.00	0.00			
Lesotho	[1.26; 1.52] 1.05	[1.21; 1.73] 1.26	[-0.23; 0.38]	[1.8; 3.0] 9.3	[1.2; 2.1] 7.4	[0.85; 1.14] 1.01	[0.84; 1.18] 1.00	[-0.24; 0.26] -0.01			
	[0.95; 1.15] 1.00	[1.06; 1.49] 1.17	[-0.02; 0.48] 0.17	[6.5; 13.1] 18.3	[5.2; 10.5] 15.6	[0.91; 1.14] 1.02	[0.78; 1.27]	[-0.28; 0.29] -0.12			
Liberia	[0.91; 1.10] 1.36	[0.98; 1.39] 1.52	[-0.06; 0.43] 0.16	[12.5; 29.4] 3.2	[10.4; 25.8] 2.1	[0.92; 1.12] 0.92	[0.74; 1.09]	[-0.32; 0.10] 0.02			
Libya	[1.22; 1.51]	[1.25; 1.87]	[-0.20; 0.56] -0.35	[1.5; 8.8]	[1.0; 5.6]	[0.75; 1.07]	[0.67; 1.16]	[-0.28; 0.29]			
Lithuania	1.61 [1.51; 1.72]	1.27 [1.11; 1.44]	[-0.55; -0.14]†	[1.2; 1.7]	1.1 [1.0; 1.3]	[0.88; 1.00]	1.07 [0.95; 1.21]	0.13 [-0.01; 0.29]			
Luxembourg	1.42 [1.30; 1.56]	1.31 [1.10; 1.56]	-0.11 [-0.37; 0.17]	0.4 [0.2; 0.6]	0.3 [0.2; 0.5]	0.99 [0.90; 1.08]	0.98 [0.82; 1.17]	-0.01 [-0.20; 0.21]			
Macedonia	1.48 [1.37; 1.61]	1.32 [1.13; 1.54]	-0.16 [-0.41; 0.10]	1.7 [1.4; 2.0]	1.3 [1.1; 1.6]	1.02 [0.94; 1.10]	1.06 [0.91; 1.23]	0.04 [-0.14; 0.24]			
Madagascar	1.02 [0.94; 1.12]	1.04 [0.91; 1.20]	0.02 [-0.15; 0.21]	21.6 [15.4; 33.3]	20.7 [15.0; 31.2]	0.99 [0.91; 1.08]	0.99 [0.84; 1.17]	0.00 [-0.19; 0.20]			
Malawi	1.01	1.21	0.19	13.2	10.9	1.01	0.93	-0.08			
Malaysia	[0.93; 1.11] 1.48	[1.05; 1.39] 1.37	[0.00; 0.41] -0.10	[10.7; 16.9] 2.0	[8.8; 13.9] 1.5	[0.93; 1.10] 1.01	[0.78; 1.11]	[-0.27; 0.13] 0.03			
Maldives	[1.40; 1.56] 1.18	[1.29; 1.46] 1.36	[-0.22; 0.01] 0.17	[1.9; 2.1] 1.6	[1.4; 1.6] 1.2	[0.95; 1.08] 1.08	[0.99; 1.11] 1.03	[-0.05; 0.12] -0.05			
	[1.08; 1.30] 1.02	[1.13; 1.61] 1.03	[-0.09; 0.46] 0.00	[1.2; 2.1] 21.5	[0.9; 1.6] 20.9	[0.95; 1.21] 1.00	[0.87; 1.22]	[-0.26; 0.19] 0.00			
Mali	[0.94; 1.11]	[0.88; 1.19] 1.34	[-0.17; 0.19] -0.06	[16.3; 28.6] 1.0	[15.5; 28.5] 0.8	[0.93; 1.09] 0.98	[0.86; 1.19] 0.99	[-0.18; 0.20] 0.01			
Malta	[1.27; 1.53]	[1.11; 1.61]	[-0.33; 0.25]	[0.7; 1.4]	[0.5; 1.1]	[0.88; 1.11]	[0.83; 1.20]	[-0.21; 0.26]			
Marshall Islands	1.27 [1.16; 1.39]	1.44 [1.20; 1.73]	0.17 [-0.12; 0.49]	7.0 [5.4; 9.1]	4.9 [3.7; 6.4]	0.99 [0.85; 1.16]	0.99 [0.80; 1.22]	0.00 [-0.23; 0.26]			
Mauritania	1.03 [0.94; 1.13]	1.34 [1.15; 1.56]	0.31 [0.08; 0.56]†	9.2 [6.2; 13.8]	6.9 [4.6; 10.4]	1.01 [0.91; 1.13]	0.93 [0.73; 1.17]	-0.08 [-0.31; 0.18]			
Mauritius	1.43 [1.31; 1.55]	1.33 [1.14; 1.55]	-0.09 [-0.34; 0.16]	2.0 [1.7; 2.3]	1.5 [1.2; 1.8]	1.06 [0.98; 1.15]	1.07 [0.92; 1.24]	0.01 [-0.18; 0.21]			
Mexico	1.38 [1.35; 1.42]	1.31 [1.25; 1.38]	-0.07 [-0.14; 0.01]	2.8	2.1 [2.0; 2.2]	1.08	1.14 [1.08; 1.20]*	0.06			
Republic of Moldova	1.58	1.41	-0.16	2.8	2.0	0.93	1.06	0.13			
Monaco	[1.48; 1.68]	[1.25; 1.60] 1.28	[-0.36; 0.05] -0.15	[2.5; 3.2] 0.9	[1.8; 2.3]	[0.87; 0.99]* 1.00	[0.94; 1.19] 1.00	[-0.02; 0.28] 0.00			
	[1.30; 1.57] 1.18	[1.07; 1.54] 1.68	[-0.42; 0.14] 0.50	[0.7; 1.1] 4.0	[0.5; 0.9] 2.4	[0.91; 1.10] 0.98	[0.84; 1.20] 0.91	[-0.19; 0.22] -0.08			
Mongolia	[1.09; 1.27] 1.48	[1.48; 1.90] 1.34	[0.27; 0.74]†	[3.5; 4.5]	[2.1; 2.7]	[0.89; 1.09]	[0.80; 1.02]	[-0.24; 0.08] -0.03			
Montenegro	[1.35; 1.61]	[1.12; 1.60]	[-0.41; 0.16]	[0.7; 1.3]	[0.5; 0.9]	[0.91; 1.10]	[0.82; 1.16]	[-0.22; 0.18]			
Montserrat	1.53 [1.40; 1.68]	1.54 [1.29; 1.84]	0.01 [-0.30; 0.35]	1.6 [1.2; 2.0]	1.0 [0.8; 1.3]	0.99 [0.90; 1.08]	0.89 [0.75; 1.05]	-0.10 [-0.28; 0.09]			
Morocco	1.24 [1.13; 1.35]	1.43 [1.20; 1.70]	0.19 [-0.07; 0.50]	2.8 [1.8; 4.7]	2.0 [1.2; 3.3]	1.00 [0.87; 1.13]	1.02 [0.84; 1.23]	0.02 [-0.21; 0.27]			
Mozambique	1.05 [0.95; 1.17]	1.11 [0.93; 1.32]	0.05	14.0 [8.6; 24.4]	12.6 [7.6; 22.4]	1.01 [0.92; 1.11]	0.99 [0.80; 1.27]	-0.01 [-0.25; 0.27]			
Myanmar	1.03	1.51	0.48	5.1	3.3	1.00	0.94	-0.05			
Namibia	[0.93; 1.15]	1.07	[0.15; 0.84]†	[2.9; 8.9]	[1.9; 5.9]	[0.89; 1.12] 0.98	[0.69; 1.16]	[-0.33; 0.20]			
¶: Sex ratio is outlying in 1990. §: Sex	[1.00; 1.21] ratio is outlying in	[0.90; 1.26] n 2021. *: The ra	[-0.24; 0.19] tio of estimated to e	[9.2; 19.8] xpected female n	[8.4; 19.0] nortality is significantly dif	[0.87; 1.12] ferent from one. †	[0.85; 1.31] : Change is signific	[-0.19; 0.36] cantly different from zero.			

	Table 18 – continued from previous page										
	1990	Sex ratio 10q 2021	Change	Sex-specific 1 Male	0q5 in 2021 (per 1,000) Female	1990	timated/Expected 2021	female 10q5 Change			
	1.14	1.47	1990-2021 0.33	6.7	4.5	1.00	0.99	1990–2021 -0.01			
Nauru	[1.03; 1.25] 0.99	[1.23; 1.75] 1.43	[0.05; 0.64]† 0.44	[5.2; 8.6] 5.5	[3.5; 6.0]	[0.88; 1.17]	[0.80; 1.21]	[-0.25; 0.23] -0.02			
Nepal	[0.91; 1.08]	[1.20; 1.70]	[0.19; 0.72]†	[3.8; 9.3]	[2.6; 6.5]	[0.95; 1.14]	[0.78; 1.22]	[-0.28; 0.21]			
Netherlands	1.36 [1.28; 1.44]	1.20 [1.09; 1.32]	-0.15 [-0.29; -0.01]†	0.8 [0.7; 0.9]	0.6 [0.6; 0.7]	1.05 [0.99; 1.11]	1.07 [0.97; 1.18]	0.02 [-0.10; 0.14]			
New Zealand	1.45 [1.36; 1.57]	1.33 [1.21; 1.48]	-0.12 [-0.30; 0.06]	1.2 [1.0; 1.3]	0.9 [0.8; 1.0]	1.03 [0.96; 1.10]	0.99 [0.89; 1.09]	-0.04 [-0.17; 0.09]			
Nicaragua	1.35 [1.21; 1.49]	1.51 [1.24; 1.83]	0.16 [-0.17; 0.53]	3.9 [2.0; 8.1]	2.6 [1.4; 5.3]	0.96 [0.81; 1.10]	0.96 [0.70; 1.19]	0.00 [-0.30; 0.28]			
Niger	1.10 [1.00; 1.20]	0.99 [0.86; 1.14]	-0.11 [-0.29; 0.08]	32.4 [25.2; 42.9]	32.9 [25.5; 43.6]	0.98 [0.90; 1.07]	1.03 [0.89; 1.20]	0.05 [-0.13; 0.25]			
Nigeria	1.03 [0.94; 1.12]	1.08	0.06	20.4 [15.6; 27.5]	18.8 [14.5; 25.1]	0.99	0.96 [0.83; 1.11]	-0.04 [-0.20; 0.14]			
Niue	1.58	1.53	-0.05	6.1	4.0	0.93	0.97	0.04			
Norway	[1.45; 1.73]	[1.28; 1.82]	[-0.36; 0.29]	[4.7; 7.9]	[3.1; 5.2] 0.6	[0.82; 1.03]	[0.79; 1.17]	[-0.16; 0.26] 0.23			
Oman	[1.36; 1.58] 1.29	[0.93; 1.21] 1.49	[-0.60; -0.22]† 0.19	[0.6; 0.8]	[0.6; 0.7] 1.9	[0.91; 1.05] 1.00	[1.06; 1.38]* 1.00	[0.06; 0.43]† -0.01			
Pakistan	[1.18; 1.43] 1.01	[1.24; 1.77] 1.14	[-0.11; 0.52] 0.13	[2.1; 3.6] 8.1	[1.4; 2.4] 7.1	[0.86; 1.18] 1.09	[0.83; 1.19] 1.14	[-0.26; 0.26] 0.06			
	[0.94; 1.09]	[0.97; 1.35] 1.54	[-0.06; 0.36] 0.12	[5.4; 13.6] 4.4	[4.6; 11.9] 2.8	[1.00; 1.19] 0.96	[0.88; 1.43]	[-0.24; 0.37] 0.02			
Palau	[1.30; 1.56] 1.42	[1.29; 1.84] 1.31	[-0.19; 0.46] -0.11	[3.4; 5.7]	[2.2; 3.7] 2.6	[0.83; 1.10] 1.06	[0.82; 1.17] 1.16	[-0.21; 0.26] 0.09			
Panama	[1.31; 1.54] 1.08	[1.17; 1.46]	[-0.30; 0.08] 0.17	[3.2; 3.7]	[2.4; 2.9] 7.2	[0.97; 1.15]	[1.04; 1.29]* 1.06	[-0.06; 0.26] 0.05			
Papua New Guinea	[0.98; 1.19]	[1.04; 1.48]	[-0.07; 0.43]	[7.0; 11.6]	[5.6; 9.4]	[0.90; 1.15]	[0.84; 1.33]	[-0.19; 0.33]			
Paraguay	1.39 [1.27; 1.53]	1.54 [1.27; 1.87]	0.14 [-0.17; 0.51]	3.2 [1.7; 5.9]	2.1 [1.1; 3.8]	0.95 [0.81; 1.08]	0.96 [0.73; 1.17]	0.00 [-0.26; 0.27]			
Peru	1.25 [1.15; 1.36]	1.33 [1.14; 1.57]	0.09 [-0.15; 0.35]	2.8 [2.0; 4.0]	2.1 [1.5; 3.1]	0.97 [0.86; 1.09]	1.10 [0.93; 1.30]	0.13 [-0.09; 0.36]			
Philippines	1.28 [1.19; 1.39]	1.41 [1.25; 1.58]	0.12 [-0.07; 0.33]	5.3 [4.9; 5.8]	3.8 [3.5; 4.2]	1.01 [0.91; 1.12]	1.08 [0.96; 1.21]	0.07 [-0.11; 0.24]			
Poland	1.57 [1.52; 1.64]	1.14 [1.06; 1.23]	-0.43 [-0.54; -0.32]†	1.0 [0.9; 1.1]	0.9 [0.8; 0.9]	0.96 [0.92; 0.99]*	1.13 [1.04; 1.22]*	0.17 [0.08; 0.27]†			
Portugal	1.57 [1.49; 1.65]	1.14	-0.42 [-0.58; -0.27]†	0.9	0.8	0.97	1.12 [1.01; 1.25]*	0.15 [0.03; 0.30]†			
Qatar	1.53	1.32	-0.21	1.5	1.1	0.99	1.02	0.04			
Romania	[1.40; 1.68] 1.57	[1.12; 1.55] 1.38	[-0.47; 0.07] -0.20	[1.2; 1.8] 1.9	[0.9; 1.4] 1.4	[0.89; 1.08] 0.94	[0.88; 1.20] 1.03	[-0.15; 0.25] 0.09			
Russian Federation¶	[1.51; 1.64] 1.91	[1.27; 1.49] 1.43	[-0.32; -0.07]† -0.48	[1.7; 2.1]	[1.3; 1.5]	[0.90; 0.98]* 0.77	[0.95; 1.11] 1.01	[0.00; 0.18]† 0.24			
	[1.87; 1.96] 1.08	[1.35; 1.51] 1.11	[-0.57; -0.39]† 0.03	[1.9; 2.2] 16.1	[1.3; 1.5] 14.5	[0.74; 0.79]* 0.98	[0.96; 1.07] 0.96	[0.18; 0.31]† -0.02			
Rwanda	[0.99; 1.18] 1.57	[0.94; 1.31] 1.62	[-0.18; 0.28] 0.05	[10.1; 32.2] 3.5	[8.7; 29.7] 2.1	[0.90; 1.06] 0.95	[0.79; 1.16] 0.93	[-0.21; 0.21] -0.02			
Saint Kitts and Nevis	[1.44; 1.72] 1.53	[1.35; 1.93] 1.50	[-0.27; 0.40] -0.02	[2.7; 4.5]	[1.6; 2.8] 2.3	[0.85; 1.05]	[0.78; 1.11]	[-0.21; 0.19] 0.01			
Saint Lucia	[1.39; 1.67]	[1.26; 1.79]	[-0.32; 0.31]	[2.4; 4.9]	[1.6; 3.2]	[0.84; 1.08]	[0.81; 1.18]	[-0.20; 0.26]			
Samoa	1.34 [1.22; 1.53]	1.45 [1.20; 1.74]	0.10 [-0.24; 0.46]	2.9 [2.0; 4.3]	2.0 [1.4; 3.0]	1.00 [0.77; 1.15]	1.02 [0.85; 1.23]	0.02 [-0.22; 0.32]			
San Marino	1.49 [1.36; 1.63]	1.28 [1.07; 1.54]	-0.21 [-0.48; 0.09]	0.6 [0.4; 0.7]	0.4 [0.3; 0.6]	1.01 [0.92; 1.10]	1.00 [0.83; 1.19]	-0.01 [-0.21; 0.21]			
Sao Tome and Principe	1.03 [0.93; 1.13]	1.42 [1.19; 1.69]	0.39 [0.13; 0.69]†	3.9 [3.0; 5.0]	2.7 [2.1; 3.6]	0.99 [0.90; 1.10]	1.07 [0.90; 1.27]	0.07 [-0.14; 0.30]			
Saudi Arabia	1.25 [1.13; 1.37]	1.40 [1.17; 1.66]	0.15 [-0.12; 0.45]	1.9 [1.5; 2.4]	1.4 [1.0; 1.8]	1.00 [0.86; 1.18]	1.00 [0.84; 1.18]	0.00 [-0.26; 0.25]			
Senegal	1.03 [0.95; 1.11]	1.47 [1.27; 1.69]	0.44 [0.22; 0.69]†	9.5 [6.5; 13.6]	6.4 [4.3; 9.4]	1.00 [0.92; 1.08]	0.85 [0.69; 1.04]	-0.15 [-0.34; 0.06]			
Serbia	1.44 [1.34; 1.56]	1.43 [1.25; 1.64]	-0.01 [-0.24; 0.22]	1.3	0.9 [0.8; 1.1]	1.04 [0.97; 1.12]	0.94 [0.83; 1.07]	-0.10 [-0.25; 0.05]			
Seychelles	1.52	1.61	0.09	2.8	1.8	0.98	0.91	-0.07			
Sierra Leone	[1.39; 1.67]	[1.36; 1.91] 0.93	[-0.22; 0.43]	[1.7; 4.5]	[1.1; 2.8]	[0.88; 1.08]	[0.76; 1.09]	[-0.26; 0.15]			
Singapore	[0.94; 1.14] 1.46	[0.81; 1.07] 1.22	[-0.27; 0.07] -0.24	[18.0; 34.7] 0.7	[19.2; 37.3] 0.6	[0.90; 1.11] 1.02	[0.94; 1.28] 1.05	[-0.09; 0.32] 0.03			
Slovakia	[1.34; 1.59] 1.48	[1.04; 1.43] 1.25	[-0.48; 0.02] -0.23	[0.6; 0.8]	[0.5; 0.7] 1.1	[0.94; 1.11] 1.00	[0.89; 1.23]	[-0.17; 0.23] 0.06			
	[1.39; 1.58] 1.47	[1.11; 1.41] 1.24	[-0.41; -0.04]† -0.23	[1.2; 1.5] 0.7	[0.9; 1.2] 0.6	[0.94; 1.07] 1.00	[0.95; 1.19] 1.03	[-0.08; 0.20] 0.03			
Slovenia	[1.35; 1.59] 1.36	[1.05; 1.47] 1.48	[-0.47; 0.04] 0.13	[0.6; 0.9] 4.9	[0.5; 0.7]	[0.93; 1.09] 1.00	[0.88; 1.22] 1.02	[-0.16; 0.24] 0.02			
Solomon Islands	[1.23; 1.48]	[1.24; 1.76] 1.01	[-0.16; 0.45] -0.01	[3.8; 6.3] 24.8	[2.5; 4.3] 24.6	[0.85; 1.14]	[0.86; 1.21]	[-0.21; 0.27] 0.00			
Somalia	[0.92; 1.12]	[0.84; 1.20]	[-0.22; 0.23]	[19.0; 32.3]	[19.0; 32.0]	[0.92; 1.10]	[0.84; 1.21]	[-0.21; 0.24]			
South Africa	1.33 [1.21; 1.47]	1.39 [1.25; 1.55]	0.06 [-0.14; 0.26]	6.4 [5.7; 7.4]	4.6 [4.1; 5.3]	0.95 [0.77; 1.10]	1.04 [0.90; 1.19]	0.09 [-0.12; 0.32]			
South Sudan	1.05 [0.94; 1.16]	1.03 [0.86; 1.23]	-0.02 [-0.24; 0.22]	22.3 [17.0; 28.8]	21.7 [16.6; 28.2]	1.00 [0.91; 1.10]	1.00 [0.83; 1.20]	0.00 [-0.21; 0.23]			
Spain	1.44 [1.38; 1.50]	1.23 [1.13; 1.34]	-0.21 [-0.33; -0.08]†	0.7 [0.7; 0.8]	0.6 [0.5; 0.7]	1.02 [0.98; 1.07]	1.04 [0.95; 1.14]	0.02 [-0.08; 0.13]			
Sri Lanka	1.29 [1.20; 1.38]	1.23 [1.07; 1.41]	-0.06 [-0.25; 0.16]	1.7 [1.3; 2.1]	1.3 [1.0; 1.7]	1.12 [1.03; 1.21]*	1.13 [0.99; 1.29]	0.01 [-0.17; 0.20]			
Saint Vincent and the Grenadines	1.49 [1.36; 1.64]	1.46	-0.04 [-0.35; 0.31]	5.5 [3.8; 7.8]	3.8 [2.6; 5.5]	1.00	0.96 [0.71; 1.21]	-0.04 [-0.31; 0.24]			
State of Palestine	1.47	1.48	0.01	4.1	2.8	0.98	1.00	0.02			
Sudan	[1.33; 1.61]	[1.23; 1.78]	[-0.30; 0.36]	[2.6; 6.8] 8.6	[1.8; 4.5] 6.5	[0.83; 1.10]	[0.78; 1.21]	[-0.24; 0.28] -0.07			
Suriname§	[0.91; 1.10] 1.48	[1.09; 1.58] 0.84	[0.04; 0.60]†	[5.6; 14.8] 3.6	[4.4; 10.8]	[0.93; 1.15] 0.99	[0.72; 1.23]	[-0.34; 0.23] 0.80			
¶: Sex ratio is outlying in 1990. §: Sex	[1.36; 1.62] ratio is outlying in	[0.74; 0.94] n 2021. *: The ra	[-0.82; -0.47]† tio of estimated to e	[3.0; 4.3] xpected female n	[3.5; 5.2] nortality is significantly diff	[0.88; 1.10] ferent from one. †	[1.57; 2.03]* : Change is signific	[0.55; 1.07]† cantly different from zero.			

Table 18 – continued from previous page

Table 18 – continued from previous page Sex ratio 10q5 Sex-specific 10q5 in 2021 (per 1,000) Estimated/Expected female 10q5									
	1000	Sex ratio 10q			0q5 in 2021 (per 1,000)				
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021	
Eswatini	1.15	1.17	0.02	12.0	10.2	0.97	0.86	-0.11	
	[1.04; 1.26] 1.38	[0.95; 1.45] 1.18	[-0.23; 0.33] -0.20	[8.0; 26.9] 0.7	[6.4; 19.7] 0.6	[0.83; 1.18]	[0.65; 1.17]	[-0.41; 0.25] 0.09	
Sweden	[1.29; 1.48]	[1.06; 1.32]	[-0.37; -0.02]†	[0.7; 0.8]	[0.6; 0.7]	[0.93; 1.07]	[0.97; 1.22]	[-0.05; 0.24]	
Switzerland	1.50	1.14	-0.36	0.7	0.7	0.97	1.13	0.16	
Switzerialid	[1.40; 1.61]	[1.01; 1.28]	[-0.54; -0.18]†	[0.7; 0.8]	[0.6; 0.7]	[0.90; 1.03]	[1.00; 1.27]*	[0.01; 0.33]†	
Syria	1.20 [1.10; 1.31]	1.35 [1.16; 1.55]	0.14 [-0.08; 0.38]	5.4 [3.7; 8.2]	4.0 [2.8; 5.9]	1.03 [0.90; 1.16]	1.04 [0.81; 1.21]	0.01 [-0.26; 0.23]	
Tajikistan¶	1.53	1.36	-0.17	2.4	1.7	0.84	1.07	0.23	
Tajikistang	[1.45; 1.61]	[1.25; 1.46]	[-0.30; -0.04]†	[2.2; 2.5]	[1.6; 1.9]	[0.79; 0.90]*	[0.99; 1.15]	[0.13; 0.33]†	
Tanzania	1.03	1.12	0.09	13.3	11.8	1.00	0.96	-0.03	
	[0.94; 1.12]	[0.95; 1.33] 1.64	[-0.12; 0.33] 0.21	[9.2; 26.3] 5.2	[8.6; 21.4] 3.2	[0.91; 1.09]	[0.75; 1.25]	[-0.28; 0.27] -0.08	
Thailand	[1.32; 1.55]	[1.46; 1.85]	[-0.02; 0.45]	[4.8; 5.6]	[2.9; 3.5]	[0.91; 1.08]	[0.80; 1.03]	[-0.23; 0.07]	
Timor Leste	1.00	1.22	0.22	10.2	8.4	1.01	1.03	0.02	
Timor Desic	[0.91; 1.10]	[1.02; 1.45]	[-0.02; 0.48] 0.02	[7.9; 13.2]	[6.4; 10.9]	[0.92; 1.12]	[0.81; 1.30]	[-0.24; 0.31]	
Togo	1.05 [0.96; 1.16]	1.07 [0.91; 1.26]	[-0.19; 0.24]	12.0 [8.5; 16.7]	11.2 [8.0; 15.6]	0.98 [0.89; 1.08]	1.07 [0.86; 1.35]	0.09 [-0.15; 0.40]	
m.	1.52	1.50	-0.02	2.5	1.7	0.98	0.96	-0.02	
Tonga	[1.38; 1.66]	[1.26; 1.78]	[-0.31; 0.31]	[1.9; 3.6]	[1.2; 2.5]	[0.86; 1.09]	[0.80; 1.16]	[-0.22; 0.22]	
Trinidad and Tobago	1.40	1.32	-0.08	2.5	1.9	1.08	1.12	0.04	
Č	[1.30; 1.52] 1.37	[1.16; 1.50] 1.43	[-0.29; 0.14] 0.07	[2.0; 3.0]	[1.5; 2.3] 2.6	[1.00; 1.17]* 1.02	[0.98; 1.27]	[-0.13; 0.22] 0.04	
Tunisia	[1.25; 1.49]	[1.24; 1.64]	[-0.18; 0.32]	[3.1; 4.3]	[2.2; 3.0]	[0.91; 1.13]	[0.92; 1.21]	[-0.15; 0.24]	
Turkey	1.21	1.37	0.16	2.0	1.5	0.98	1.05	0.07	
Turkey	[1.08; 1.35]	[1.27; 1.47]	[-0.01; 0.33]	[1.9; 2.2]	[1.4; 1.6]	[0.86; 1.11]	[0.98; 1.12]	[-0.08; 0.21]	
Turkmenistan	1.32 [1.22; 1.42]	1.41 [1.24; 1.62]	0.09	4.3 [3.4; 5.3]	3.0 [2.4; 3.8]	1.04 [0.95; 1.13]	1.07 [0.93; 1.22]	0.03 [-0.14; 0.22]	
	1.57	1.34	-0.22	1.4	1.1	0.96	1.02	0.06	
Turks and Caicos Islands	[1.43; 1.72]	[1.12; 1.62]	[-0.51; 0.09]	[1.1; 1.9]	[0.8; 1.4]	[0.88; 1.05]	[0.85; 1.20]	[-0.14; 0.27]	
Tuvalu	1.23	1.53	0.31	5.5	3.6	1.00	0.98	-0.02	
	[1.12; 1.35]	[1.29; 1.82] 1.10	[0.02; 0.63]† 0.08	[4.2; 7.0] 13.5	[2.7; 4.7]	[0.85; 1.17]	[0.81; 1.17]	[-0.26; 0.22] 0.00	
Uganda	[0.93; 1.11]	[0.94; 1.29]	[-0.11; 0.30]	[9.5; 19.6]	[8.7; 17.8]	[0.92; 1.10]	[0.83; 1.25]	[-0.21; 0.27]	
Ukraine	1.72	1.40	-0.32	1.9	1.4	0.88	1.01	0.14	
Oktable	[1.67; 1.78]	[1.32; 1.50]	[-0.42; -0.21]†	[1.8; 2.0]	[1.3; 1.4]	[0.84; 0.91]*	[0.95; 1.07]	[0.07; 0.21]†	
United Arab Emirates	1.52 [1.38; 1.66]	1.39 [1.16; 1.65]	-0.13 [-0.42; 0.19]	1.8	1.3 [1.0; 1.7]	1.00 [0.91; 1.09]	1.00 [0.84; 1.19]	0.00 [-0.19; 0.22]	
**	1.45	1.31	-0.14	0.8	0.6	0.99	0.98	-0.02	
United Kingdom	[1.39; 1.51]	[1.22; 1.41]	[-0.26; -0.02]†	[0.7; 0.9]	[0.6; 0.7]	[0.96; 1.03]	[0.91; 1.06]	[-0.10; 0.08]	
United States of America	1.51	1.31	-0.20	1.5	1.2	1.00	1.05	0.05	
	[1.47; 1.54] 1.55	[1.23; 1.40] 1.26	[-0.28; -0.10]† -0.30	[1.4; 1.6] 1.6	[1.1; 1.2]	[0.97; 1.02] 0.98	[0.99; 1.11]	[-0.02; 0.12] 0.13	
Uruguay	[1.44; 1.67]	[1.11; 1.43]	[-0.50; -0.08]†	[1.4; 1.8]	[1.1; 1.5]	[0.91; 1.05]	[0.98; 1.25]	[-0.02; 0.30]	
Uzbekistan	1.40	1.34	-0.06	3.6	2.7	0.99	1.13	0.14	
OZOCKISTANI	[1.30; 1.51]	[1.22; 1.48]	[-0.23; 0.11]	[3.5; 3.8]	[2.5; 2.9]	[0.91; 1.08]	[1.02; 1.24]*	[0.00; 0.28]	
Vanuatu	1.38 [1.26; 1.51]	1.50 [1.25; 1.78]	0.12 [-0.18; 0.44]	5.8 [4.5; 7.5]	3.9 [3.0; 5.1]	0.99 [0.86; 1.13]	1.00 [0.82; 1.20]	0.00 [-0.22; 0.25]	
Vananuala (Palivarian Panuhlia af)	1.50	1.43	-0.08	4.2	2.9	1.01	1.06	0.05	
Venezuela (Bolivarian Republic of)	[1.39; 1.62]	[1.25; 1.63]	[-0.30; 0.17]	[3.5; 5.0]	[2.5; 3.5]	[0.93; 1.09]	[0.92; 1.21]	[-0.12; 0.23]	
Vietnam	1.21	1.75	0.54	3.4	2.0	0.96	0.86	-0.10	
	[1.09; 1.33] 1.05	[1.49; 2.05] 1.34	[0.24; 0.88]† 0.29	[2.8; 4.5] 7.9	[1.6; 2.6] 5.9	[0.83; 1.09]	[0.73; 1.01]	[-0.30; 0.10] -0.04	
Yemen	[0.96; 1.15]	[1.12; 1.62]	[0.02; 0.60]†	[4.7; 14.3]	[3.5; 10.4]	[0.90; 1.10]	[0.70; 1.18]	[-0.31; 0.22]	
Zambia	1.01	1.24	0.23	11.3	9.1	1.01	0.92	-0.09	
	[0.93; 1.10]	[1.05; 1.46] 1.08	[0.02; 0.47]† -0.01	[7.8; 16.7] 11.5	[6.4; 13.1]	[0.92; 1.11] 1.02	[0.73; 1.18]	[-0.30; 0.19] 0.04	
Zimbabwe	1.09 [0.99; 1.20]	[0.92; 1.28]	[-0.21; 0.22]	[7.3; 17.0]	10.7 [6.5; 15.9]	[0.90; 1.16]	1.06 [0.86; 1.34]	[-0.21; 0.35]	
	[0.77, 1.20]	[0.72, 1.20]	[0.21, 0.22]	[7.5, 17.0]	[0.0, 10.7]	[0.50, 1.10]	[0.00, 1.54]	[0.21, 0.55]	

Table 19: Estimates and 90% uncertainty intervals for sex ratios for 5q15 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 5q15 in 2021, and ratios of estimated to expected female 5q15 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

		Sex ratio 5q15			q15 in 2021 (per 1,000)		imated/Expected	
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021
World¶	1.22	1.55 [1.43; 1.66]	0.32	5.5	3.5	1.26	1.07	-0.19 [-0.35; -0.02]†
South Asia¶§	[1.15; 1.30]	1.30	0.49	[5.2; 5.9]	[3.3; 3.9]	[1.15; 1.36]*	[0.94; 1.21] 1.68	-0.57
Europe and Central Asia	[0.73; 0.90]	[1.07; 1.57] 1.91	[0.24; 0.77]† -0.32	[3.8; 5.0] 2.4	[2.9; 3.9]	[1.93; 2.60]* 0.94	[1.34; 2.08]* 1.19	[-1.06; -0.06]† 0.25
	[2.06; 2.39]	[1.82; 2.00] 2.43	[-0.51; -0.13]† 0.79	[2.3; 2.4] 5.5	[1.2; 1.3]	[0.74; 1.02] 1.12	[1.12; 1.25]* 1.00	[0.15; 0.46]† -0.12
Middle East and North Africa	[1.45; 1.83] 0.97	[2.05; 2.81] 1.33	[0.35; 1.22]† 0.36	[5.0; 6.1] 11.0	[2.0; 2.6] 8.2	[0.89; 1.32] 0.94	[0.85; 1.18] 0.97	[-0.38; 0.17] 0.03
Sub-Saharan Africa	[0.90; 1.05]	[1.19; 1.48]	[0.19; 0.53]†	[9.9; 12.4]	[7.4; 9.4]	[0.81; 1.07]	[0.78; 1.20]	[-0.19; 0.29]
Latin America and Caribbean§	2.09 [1.96; 2.21]	2.96 [2.68; 3.21]	0.87 [0.57; 1.15]†	6.7 [6.4; 7.0]	2.3 [2.1; 2.5]	0.87 [0.79; 0.96]*	0.61 [0.54; 0.70]*	-0.26 [-0.38; -0.14]†
East Asia and Pacific	1.74 [1.47; 2.06]	2.11 [1.71; 2.55]	0.36 [-0.17; 0.90]	3.2 [2.7; 3.8]	1.5 [1.2; 1.9]	1.13 [0.94; 1.37]	1.03 [0.84; 1.27]	-0.10 [-0.42; 0.21]
North America	2.73 [2.65; 2.80]	2.37 [2.02; 2.79]	-0.35 [-0.71; 0.07]	4.0 [3.7; 4.2]	1.7 [1.5; 1.9]	0.81 [0.78; 0.84]*	0.97 [0.82; 1.15]	0.16 [0.01; 0.34]†
Afghanistan§	0.84 [0.62; 1.13]	0.61 [0.40; 0.93]	-0.23 [-0.60; 0.18]	9.7 [5.8; 15.1]	15.9 [9.8; 23.9]	1.05 [0.63; 2.33]	3.03 [1.30; 5.32]*	1.98 [-0.22; 4.30]
Albania	2.40	1.52	-0.88	1.9	1.2 [1.0; 1.5]	0.95	1.47	0.52 [0.17; 0.94]†
Algeria	[2.09; 2.75]	[1.18; 1.93]	[-1.37; -0.35]†	3.0	1.8	[0.83; 1.10]	[1.16; 1.88]* 1.35	0.13
Andorra	[1.45; 2.19] 2.43	[1.49; 1.99] 3.06	[-0.53; 0.37] 0.63	[2.8; 3.3]	[1.6; 2.0] 0.6	[0.98; 1.53] 0.93	[1.16; 1.56]* 0.73	[-0.23; 0.45] -0.20
	[1.79; 3.29]	[1.89; 4.99] 1.88	[-0.93; 2.65] 1.18	[1.4; 2.4] 15.8	[0.4; 0.9] 8.4	[0.68; 1.28]	[0.45; 1.17] 0.53	[-0.66; 0.34] -0.47
Angola	[0.51; 0.97]	[1.20; 2.93] 2.30	[0.42; 2.26]† 0.06	[11.6; 20.9] 2.7	[5.7; 12.1] 1.2	[0.69; 1.78] 1.00	[0.27; 1.22] 1.00	[-1.22; 0.25] 0.00
Anguilla	[1.65; 3.06]	[1.27; 4.23]	[-1.31; 2.08]	[2.0; 3.6]	[0.7; 1.8]	[0.72; 1.38]	[0.55; 1.77]	[-0.59; 0.84]
Antigua and Barbuda	2.03 [1.48; 2.75]	2.52 [1.45; 4.30]	0.49 [-0.85; 2.45]	3.6 [2.2; 5.4]	1.4 [0.8; 2.5]	0.96 [0.53; 1.42]	0.91 [0.53; 1.58]	-0.05 [-0.68; 0.75]
Argentina	1.98 [1.85; 2.11]	2.18 [1.89; 2.52]	0.21 [-0.12; 0.57]	3.5 [3.3; 3.8]	1.6 [1.5; 1.8]	1.16 [1.08; 1.24]*	1.06 [0.92; 1.24]	-0.09 [-0.26; 0.09]
Armenia	2.26 [1.95; 2.63]	2.86 [2.22; 3.66]	0.59 [-0.13; 1.46]	3.1 [2.5; 3.7]	1.1 [0.8; 1.4]	1.03 [0.88; 1.20]	0.81 [0.63; 1.04]	-0.22 [-0.46; 0.05]
Australia	2.45 [2.26; 2.66]	2.09 [1.76; 2.47]	-0.36 [-0.75; 0.07]	2.2 [2.0; 2.4]	1.1 [0.9; 1.2]	0.93 [0.86; 1.02]	1.09 [0.91; 1.29]	0.15 [-0.04; 0.37]
Austria	3.12 [2.78; 3.50]	1.98	-1.14	1.7	0.9	0.73	1.11 [0.90; 1.40]	0.39
Azerbaijan	2.39	[1.58; 2.47]	[-1.68; -0.55]† -0.37	[1.5; 1.9] 5.0	[0.7; 1.0]	[0.64; 0.82]*	1.13	[0.15; 0.68]† 0.15
Bahamas	[2.15; 2.65]	[1.76; 2.32]	[-0.75; 0.01] 0.30	[4.6; 5.4] 4.4	[2.2; 2.8]	[0.87; 1.08] 1.08	[0.98; 1.30] 0.96	[-0.03; 0.36] -0.12
	[1.61; 2.69]	[1.60; 3.64] 1.80	[-0.75; 1.67] -0.27	[3.3; 5.7]	[1.2; 2.7]	[0.83; 1.42] 1.11	[0.62; 1.44]	[-0.61; 0.45] 0.14
Bahrain	[1.59; 2.71] 0.96	[1.40; 2.31] 1.20	[-1.02; 0.43] 0.24	[1.7; 2.6] 2.7	[0.9; 1.5]	[0.85; 1.47] 2.00	[0.99; 1.60] 1.90	[-0.30; 0.58] -0.10
Bangladesh¶§	[0.80; 1.16]	[0.89; 1.61]	[-0.13; 0.68] 0.34	[1.7; 3.9]	[1.4; 3.3] 1.3	[1.50; 2.56]* 1.18	[1.42; 2.57]* 1.03	[-0.84; 0.75] -0.15
Barbados	[1.46; 2.47]	[1.29; 3.82]	[-0.84; 2.01]	[1.8; 4.4]	[0.7; 2.2]	[0.89; 1.55]	[0.60; 1.78]	[-0.75; 0.68]
Belarus	2.40 [2.19; 2.63]	2.10 [1.65; 2.69]	-0.30 [-0.81; 0.31]	2.1 [1.8; 2.4]	1.0 [0.8; 1.2]	0.93 [0.84; 1.03]	1.07 [0.84; 1.36]	0.15 [-0.10; 0.45]
Belgium	2.61 [2.34; 2.90]	1.66 [1.33; 2.08]	-0.95 [-1.39; -0.45]†	1.2 [1.1; 1.4]	0.7 [0.6; 0.9]	0.88 [0.79; 0.99]*	1.28 [1.02; 1.62]*	0.40 [0.11; 0.75]†
Belize	2.40 [1.80; 3.24]	2.15 [1.48; 3.14]	-0.25 [-1.33; 0.95]	5.3 [3.9; 7.0]	2.5 [1.7; 3.5]	0.96 [0.71; 1.29]	1.05 [0.70; 1.54]	0.08 [-0.40; 0.64]
Benin	0.96 [0.75; 1.23]	1.09 [0.74; 1.60]	0.13	11.4 [7.1; 17.0]	10.5 [6.5; 15.9]	1.29 [0.73; 2.29]	1.50 [0.64; 2.67]	0.21 [-1.14; 1.53]
Bhutan	0.93	1.70	0.77	6.5	3.8	1.08	1.27	0.19
Bolivia (Plurinational State of)	[0.68; 1.26]	[1.01; 2.91] 1.71	[-0.03; 1.99] 0.58	[3.3; 10.5] 5.5	[1.9; 6.6]	[0.59; 2.42] 1.39	[0.68; 2.22]	[-1.31; 1.31] -0.09
Bosnia and Herzegovina	[0.88; 1.43]	[0.99; 2.90]	[-0.22; 1.80] 0.29	[2.7; 8.8]	[1.6; 5.6] 0.9	[0.82; 2.10] 1.09	[0.73; 2.31] 0.94	[-1.03; 1.10] -0.15
	[1.83; 2.47] 1.16	[1.70; 3.44] 2.00	[-0.52; 1.35] 0.84	[1.7; 2.9] 6.0	[0.6; 1.3]	[0.94; 1.28] 1.07	[0.67; 1.33]	[-0.49; 0.27] 0.02
Botswana	[0.87; 1.54]	[1.24; 3.23] 4.10	[-0.04; 2.12] 1.42	[3.4; 9.6] 7.6	[1.6; 5.1] 1.8	[0.56; 2.03] 0.77	[0.65; 1.83] 0.51	[-1.03; 0.94] -0.26
Brazil§	[2.29; 3.14]	[3.26; 5.18]	[0.45; 2.57]†	[7.0; 8.1]	[1.5; 2.2]	[0.65; 0.92]*	[0.40; 0.66]*	[-0.45; -0.07]† 0.00
British Virgin Islands	2.24 [1.62; 3.06]	2.31 [1.26; 4.17]	0.07 [-1.29; 2.05]	4.4 [3.2; 5.9]	1.9 [1.2; 3.0]	0.99 [0.71; 1.39]	[0.54; 1.84]	[-0.62; 0.92]
Brunei	2.18 [1.63; 2.93]	1.66 [1.02; 2.74]	-0.52 [-1.52; 0.75]	1.3 [0.8; 1.8]	0.8 [0.5; 1.1]	0.95 [0.68; 1.31]	1.29 [0.80; 2.07]	0.34 [-0.29; 1.19]
Bulgaria	2.09 [1.90; 2.31]	2.10 [1.76; 2.52]	0.01 [-0.39; 0.46]	3.2 [2.9; 3.5]	1.5 [1.3; 1.8]	1.09 [0.99; 1.21]	1.11 [0.92; 1.33]	0.01 [-0.20; 0.25]
Burkina Faso	0.81 [0.65; 1.02]	1.58 [0.97; 2.58]	0.77 [0.09; 1.80]†	8.6 [4.8; 13.3]	5.4 [2.9; 9.0]	1.22 [0.81; 2.05]	1.25 [0.60; 2.21]	0.02 [-1.04; 1.12]
Burundi	0.67 [0.49; 0.92]	1.53 [1.01; 2.35]	0.86	9.8	6.4 [3.8; 9.6]	1.02 [0.73; 1.77]	1.21 [0.58; 2.04]	0.20 [-0.78; 1.07]
Cambodia	1.05	2.02	0.97	4.5	2.2	0.80	1.12	0.32
Cameroon	[0.82; 1.34]	[1.20; 3.36] 1.20	[0.08; 2.32]† 0.19	[2.5; 7.4] 12.9	[1.1; 3.9] 10.7	[0.52; 1.43] 1.27	[0.66; 1.91] 1.14	[-0.47; 1.16] -0.13
Canada	[0.80; 1.29]	[0.80; 1.78] 1.77	[-0.32; 0.81] -0.96	[8.1; 19.7] 2.2	[6.7; 16.6] 1.2	[0.77; 2.12] 0.83	[0.49; 2.31] 1.28	[-1.26; 1.18] 0.45
¶: Sex ratio is outlying in 1990. §: Sex	[2.53; 2.94]	[1.51; 2.08]	[-1.29; -0.59]†	[2.1; 2.4]	[1.1; 1.4]	[0.77; 0.90]*	[1.09; 1.50]*	[0.24; 0.68]†

	Table 19 – continued from previous page										
	1990	Sex ratio 5q15	Change	Sex-specific 5 Male	q15 in 2021 (per 1,000) Female	1990	imated/Expected 2021	female 5q15 Change			
	2.09	1.25	1990-2021 -0.83	2.0	1.6	1.09	1.79	1990-2021 0.69			
Cape Verde	[1.58; 2.75]	[0.95; 1.66]	[-1.57; -0.18]†	[1.4; 2.7]	[1.1; 2.2]	[0.82; 1.45]	[1.36; 2.34]*	[0.13; 1.32]†			
Central African Republic	0.84 [0.67; 1.07]	1.52 [0.88; 2.67]	0.68 [-0.02; 1.84]	14.4 [6.4; 27.1]	9.5 [4.1; 18.4]	1.11 [0.72; 2.00]	1.09 [0.37; 2.57]	-0.02 [-1.16; 1.46]			
Chad	1.05 [0.85; 1.31]	1.20 [0.79; 1.84]	0.15 [-0.35; 0.81]	16.3 [9.6; 25.0]	13.5 [7.8; 21.0]	1.05 [0.73; 1.70]	0.82 [0.40; 2.05]	-0.23 [-1.04; 1.04]			
Chile	2.36 [2.17; 2.57]	2.24 [1.82; 2.76]	-0.12 [-0.59; 0.44]	3.1 [2.8; 3.3]	1.4 [1.2; 1.6]	0.97 [0.89; 1.06]	1.04 [0.84; 1.28]	0.07 [-0.15; 0.32]			
China	1.82	2.23	0.41	1.7	0.8	1.20	0.99	-0.21			
Colombia¶	[1.39; 2.40] 2.55	[1.45; 3.47] 3.28	[-0.62; 1.78] 0.73	[1.1; 2.5] 6.1	[0.5; 1.2]	[0.89; 1.61] 0.48	[0.64; 1.51]	[-0.77; 0.43] 0.19			
_	[1.99; 3.24] 1.15	[2.57; 4.19] 1.83	[-0.25; 1.79] 0.68	[5.7; 6.6] 4.6	[1.5; 2.3] 2.5	[0.32; 0.73]* 1.15	[0.52; 0.87]*	[-0.11; 0.45] 0.10			
Comoros	[0.85; 1.55] 0.87	[1.06; 3.15] 1.72	[-0.25; 2.08] 0.85	[2.8; 6.9] 5.8	[1.4; 4.1] 3.4	[0.59; 2.13] 0.82	[0.71; 2.17]	[-1.08; 1.22] 0.45			
Congo	[0.65; 1.17]	[1.04; 2.80]	[0.07; 1.99]†	[2.8; 10.4]	[1.5; 6.3]	[0.57; 1.90]	[0.71; 2.18]	[-0.75; 1.41]			
Democratic Republic of the Congo	0.93 [0.69; 1.27]	1.04 [0.67; 1.62]	0.11 [-0.42; 0.76]	17.4 [9.9; 26.9]	16.7 [9.6; 25.7]	0.87 [0.54; 2.12]	0.87 [0.43; 2.39]	0.00 [-1.34; 1.54]			
Cook Islands¶	2.83 [2.17; 3.71]	2.54 [1.43; 4.47]	-0.29 [-1.78; 1.81]	7.8 [3.9; 11.4]	3.1 [1.4; 5.1]	0.58 [0.31; 0.87]*	0.82 [0.42; 1.56]	0.24 [-0.28; 1.05]			
Costa Rica	1.96 [1.64; 2.32]	2.66 [2.10; 3.41]	0.71 [0.02; 1.52]†	3.5 [3.1; 3.8]	1.3 [1.1; 1.6]	1.19 [1.00; 1.42]	0.87 [0.68; 1.11]	-0.31 [-0.62; -0.01]†			
Cote d'Ivoire	1.20	1.35	0.15	11.8	8.7	1.03	1.15	0.12			
Croatia	[0.94; 1.52] 2.37	[0.82; 2.23]	[-0.50; 1.08] 0.51	[6.1; 20.0] 2.9	[4.4; 15.4] 1.0	[0.61; 1.80] 0.96	[0.41; 2.40] 0.81	[-1.03; 1.43] -0.16			
	[2.08; 2.70] 1.52	[2.29; 3.63] 1.65	[-0.16; 1.32] 0.12	[2.6; 3.3]	[0.8; 1.2]	[0.84; 1.10] 1.48	[0.64; 1.02]	[-0.37; 0.09] -0.08			
Cuba¶	[1.41; 1.65] 2.49	[1.37; 1.99] 2.17	[-0.18; 0.48] -0.32	[2.2; 2.7] 1.4	[1.3; 1.7] 0.7	[1.35; 1.61]* 0.93	[1.16; 1.68]* 1.00	[-0.36; 0.23] 0.07			
Cyprus	[1.89; 3.29]	[1.35; 3.54]	[-1.54; 1.23]	[1.1; 1.9]	[0.4; 1.0]	[0.70; 1.23]	[0.62; 1.58]	[-0.43; 0.72]			
Czech Republic	2.18 [1.98; 2.41]	2.19 [1.81; 2.64]	0.00 [-0.44; 0.50]	1.8 [1.6; 1.9]	0.8 [0.7; 0.9]	1.06 [0.95; 1.18]	1.02 [0.84; 1.23]	-0.04 [-0.25; 0.20]			
Denmark	2.22 [1.94; 2.54]	1.82 [1.46; 2.28]	-0.40 [-0.88; 0.14]	1.2 [1.0; 1.4]	0.7 [0.5; 0.8]	1.05 [0.91; 1.20]	1.17 [0.92; 1.49]	0.13 [-0.18; 0.47]			
Djibouti	0.91 [0.66; 1.25]	1.50 [0.82; 2.73]	0.58 [-0.21; 1.84]	12.2 [8.3; 16.8]	8.2 [5.1; 12.3]	1.02 [0.59; 2.06]	1.00 [0.37; 2.40]	-0.02 [-1.10; 1.42]			
Dominica	2.71	2.97	0.26	2.6	0.9	0.84	0.76 [0.46; 1.27]	-0.08			
Dominican Republic	[2.03; 3.61] 2.07	[1.76; 5.02] 2.41	[-1.30; 2.40] 0.34	[1.3; 4.7] 5.6	[0.4; 1.8]	[0.63; 1.13] 0.97	0.91	[-0.51; 0.49] -0.06			
•	[1.56; 2.73] 1.70	[1.41; 4.12] 1.96	[-0.91; 2.18] 0.26	[3.1; 9.0]	[1.2; 4.1]	[0.65; 1.37] 1.24	[0.51; 1.60]	[-0.66; 0.74] -0.06			
Ecuador	[1.57; 1.84] 1.33	[1.68; 2.28]	[-0.06; 0.60] 0.95	[3.7; 4.4] 5.1	[1.8; 2.3]	[1.13; 1.37]* 1.63	[1.01; 1.38]* 1.00	[-0.27; 0.17] -0.63			
Egypt¶	[1.13; 1.55] 3.31	[1.72; 2.98] 4.80	[0.34; 1.68]† 1.48	[4.5; 5.6] 6.9	[1.8; 2.7] 1.4	[1.38; 1.95]* 0.52	[0.76; 1.33]	[-1.03; -0.21]† -0.07			
El Salvador¶§	[2.95; 3.71]	[3.71; 6.21]	[0.33; 2.98]†	[6.1; 7.6]	[1.1; 1.8]	[0.43; 0.64]*	[0.34; 0.59]*	[-0.23; 0.09]			
Equatorial Guinea	0.86 [0.63; 1.18]	1.41 [0.78; 2.57]	0.55 [-0.18; 1.75]	12.6 [8.7; 17.3]	8.9 [5.4; 13.3]	1.00 [0.59; 2.00]	1.01 [0.37; 2.45]	0.00 [-1.06; 1.47]			
Eritrea	0.80 [0.59; 1.11]	1.84 [1.01; 3.39]	1.04 [0.13; 2.59]†	10.3 [7.3; 13.9]	5.6 [3.4; 8.6]	1.01 [0.62; 1.95]	0.98 [0.40; 2.02]	-0.04 [-1.06; 1.04]			
Estonia	2.62 [2.26; 3.04]	1.51 [1.08; 2.12]	-1.11 [-1.73; -0.39]†	2.0 [1.5; 2.4]	1.3 [1.0; 1.7]	0.80 [0.68; 0.94]*	1.49 [1.07; 2.05]*	0.69 [0.23; 1.27]†			
Ethiopia¶	1.07	1.89	0.81	9.9	5.2	0.71	0.98	0.26			
Federated States of Micronesia	[0.87; 1.33] 1.94	[1.19; 2.98] 2.18	[0.04; 1.93]† 0.24	[5.6; 14.4] 6.6	[2.8; 8.3]	[0.56; 0.95]* 0.99	[0.46; 1.74]	[-0.32; 1.05] 0.01			
	[1.42; 2.70] 1.86	[1.18; 4.00] 1.35	[-1.04; 2.11] -0.51	[4.7; 8.8] 4.6	[1.8; 4.8]	[0.64; 1.45]	[0.51; 1.91]	[-0.66; 0.99] 0.61			
Fiji§	[1.37; 2.51] 2.61	[0.94; 1.94]	[-1.30; 0.30] -0.45	[3.6; 5.8]	[2.5; 4.4]	[0.68; 1.56] 0.87	[1.16; 2.45]* 1.07	[-0.14; 1.48] 0.19			
Finland	[2.29; 2.96]	[1.77; 2.62]	[-0.99; 0.12] -0.26	[2.2; 2.7]	[1.0; 1.3] 0.6	[0.77; 1.00]* 0.96	[0.88; 1.30]	[-0.03; 0.45] 0.03			
France	2.41 [2.27; 2.55]	2.15 [1.83; 2.52]	[-0.60; 0.13]	1.4 [1.3; 1.5]	[0.6; 0.7]	[0.90; 1.03]	[0.84; 1.19]	[-0.14; 0.24]			
Gabon	1.45 [1.08; 1.93]	1.58 [0.93; 2.73]	0.13 [-0.72; 1.36]	8.2 [3.3; 14.4]	5.2 [2.0; 9.7]	1.21 [0.56; 1.85]	1.25 [0.53; 2.34]	0.04 [-0.99; 1.39]			
The Gambia	0.91 [0.67; 1.24]	1.92 [1.25; 2.97]	1.01 [0.23; 2.10]†	10.3 [7.6; 13.6]	5.4 [3.6; 7.6]	0.97 [0.58; 1.94]	0.93 [0.48; 1.61]	-0.04 [-0.99; 0.72]			
Georgia	2.47 [2.02; 3.01]	2.23 [1.74; 2.86]	-0.23 [-0.97; 0.56]	4.1 [3.6; 4.6]	1.8 [1.5; 2.2]	0.93 [0.75; 1.14]	1.03 [0.80; 1.34]	0.11 [-0.21; 0.46]			
Germany	2.46	2.08	-0.37	1.5	0.7	0.94	1.04	0.10			
Ghana	[2.32; 2.61]	[1.89; 2.30] 1.57	[-0.62; -0.12]† 0.34	[1.4; 1.5] 8.6	[0.7; 0.8]	[0.88; 1.01] 1.08	[0.92; 1.17] 1.26	[-0.04; 0.25] 0.18			
	[0.93; 1.64] 2.78	[0.95; 2.57]	[-0.46; 1.42] -0.70	[4.8; 13.0] 1.4	[2.9; 8.8]	[0.50; 2.04] 0.83	[0.63; 2.27]	[-1.06; 1.42] 0.20			
Greece	[2.51; 3.10] 1.99	[1.66; 2.62]	[-1.23; -0.11]† 1.38	[1.2; 1.5] 3.6	[0.5; 0.8]	[0.74; 0.93]* 1.13	[0.82; 1.29]	[-0.03; 0.48] -0.45			
Grenada	[1.49; 2.67]	[2.09; 5.44]	[-0.12; 3.55]	[2.2; 5.2]	[0.6; 1.8]	[0.83; 1.54]	[0.42; 1.10]	[-0.94; 0.08]			
Guatemala¶	1.44 [1.35; 1.53]	2.31 [1.78; 3.00]	0.87 [0.35; 1.57]†	8.5 [7.2; 9.8]	3.7 [2.9; 4.6]	1.37 [1.25; 1.49]*	0.87 [0.65; 1.17]	-0.50 [-0.74; -0.18]†			
Guinea	0.90 [0.70; 1.15]	1.08 [0.68; 1.73]	0.18 [-0.31; 0.87]	13.4 [7.7; 20.7]	12.4 [7.0; 19.7]	1.02 [0.65; 1.89]	1.22 [0.49; 2.74]	0.20 [-1.00; 1.81]			
Guinea-Bissau	0.78 [0.56; 1.07]	1.18 [0.73; 1.92]	0.40 [-0.16; 1.18]	11.4 [8.0; 15.6]	9.7 [6.6; 13.6]	1.01 [0.63; 1.94]	1.38 [0.58; 2.72]	0.37 [-0.77; 1.71]			
Guyana¶	1.63	1.64	0.01	6.8	4.1	1.33	1.32	-0.02			
Haiti	[1.39; 1.92]	[1.12; 2.40]	[-0.60; 0.82] 0.58	[4.7; 9.2] 7.4	[2.7; 5.9]	[1.11; 1.59]*	[0.85; 2.01]	[-0.56; 0.71] 0.28			
	[0.62; 1.06] 1.88	[0.87; 2.19]	[-0.02; 1.41] 0.41	[4.0; 12.2] 5.6	[2.8; 9.0]	[0.70; 2.47] 0.97	[0.81; 2.56]	[-1.17; 1.50] 0.00			
Honduras	[1.36; 2.56] 2.36	[1.27; 4.13] 2.30	[-0.89; 2.38] -0.06	[4.0; 7.4] 1.8	[1.5; 3.8] 0.8	[0.57; 1.45] 0.97	[0.52; 1.80] 0.97	[-0.68; 0.93] 0.00			
Hungary	[2.14; 2.59]	[1.82; 2.88]	[-0.59; 0.57]	[1.6; 2.0]	[0.6; 0.9]	[0.88; 1.07]	[0.78; 1.22]	[-0.23; 0.27]			
Iceland	2.34 [1.76; 3.11]	3.31 [2.17; 5.04]	0.97 [-0.43; 2.81]	1.9 [1.4; 2.6]	0.6 [0.4; 0.9]	0.98 [0.73; 1.31]	0.68 [0.45; 1.02]	-0.30 [-0.70; 0.13]			
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	2021. *: The rati	o of estimated to ex	pected female mo	ortality is significantly diffe	rent from one. †:	Change is significa	antly different from zero.			

	Table 19 – continued from previous page										
	1990	Sex ratio 5q15	Change	Sex-specific 5 Male	q15 in 2021 (per 1,000) Female	1990	imated/Expected 2021	Change			
T. W. (70)	0.75	1.25	1990–2021 0.50	3.9	3.1	2.55	1.84	1990–2021 -0.70			
India¶§	[0.66; 0.86]	[0.98; 1.62]	[0.20; 0.88]† 0.56	[3.3; 4.4]	[2.6; 3.6]	[2.12; 3.04]* 1.36	[1.42; 2.38]* 1.05	[-1.34; -0.01]† -0.31			
Indonesia¶	[1.20; 1.94]	[1.30; 3.37]	[-0.37; 1.96]	[3.6; 9.0]	[1.6; 4.7]	[1.02; 1.80]*	[0.62; 1.74]	[-0.97; 0.50]			
Iran (Islamic Republic of)	1.41 [1.03; 1.89]	2.30 [1.66; 3.20]	0.89 [0.05; 1.88]†	6.2 [5.3; 7.2]	2.7 [2.1; 3.5]	1.00 [0.61; 1.48]	0.96 [0.68; 1.36]	-0.05 [-0.61; 0.53]			
Iraq	2.11 [1.54; 2.89]	2.17 [1.22; 3.92]	0.06 [-1.22; 1.95]	5.2 [3.8; 7.0]	2.4 [1.5; 3.7]	1.00 [0.70; 1.41]	1.04 [0.56; 1.89]	0.04 [-0.62; 0.97]			
Ireland	2.45 [2.15; 2.80]	1.76	-0.70	1.1 [0.9; 1.2]	0.6	0.95	1.21	0.27			
Israel	2.47	2.46	[-1.18; -0.18]† -0.01	1.6	[0.5; 0.7]	[0.83; 1.08] 0.94	[0.96; 1.54] 0.88	-0.06			
Italy	[2.17; 2.81]	[2.06; 2.96] 2.14	[-0.53; 0.57] -1.01	[1.4; 1.7]	[0.5; 0.7]	[0.83; 1.08] 0.73	[0.74; 1.07] 0.99	[-0.26; 0.16] 0.26			
·	[2.96; 3.35] 2.14	[1.81; 2.54] 2.49	[-1.40; -0.57]† 0.34	[1.0; 1.2] 4.9	[0.4; 0.6] 2.0	[0.68; 0.78]* 0.99	[0.82; 1.21]	[0.08; 0.49]† -0.07			
Jamaica	[1.58; 2.94]	[1.42; 4.35]	[-1.06; 2.30]	[3.6; 6.5]	[1.2; 3.1]	[0.69; 1.38]	[0.51; 1.63]	[-0.65; 0.72]			
Japan	2.67 [2.55; 2.80]	1.65 [1.52; 1.79]	-1.02 [-1.21; -0.84]†	1.4 [1.3; 1.4]	0.8 [0.8; 0.9]	0.87 [0.82; 0.92]*	1.30 [1.16; 1.48]*	0.43 [0.28; 0.62]†			
Jordan	2.32 [1.74; 3.10]	2.15 [1.27; 3.67]	-0.17 [-1.35; 1.54]	4.2 [3.1; 5.6]	2.0 [1.2; 3.0]	0.95 [0.69; 1.28]	1.07 [0.62; 1.82]	0.12 [-0.47; 0.92]			
Kazakhstan	1.91 [1.78; 2.04]	1.83 [1.65; 2.02]	-0.08 [-0.30; 0.15]	3.8 [3.6; 4.0]	2.1 [1.9; 2.2]	1.12 [1.04; 1.22]*	1.27 [1.14; 1.41]*	0.15 [-0.01; 0.31]			
Kenya¶	1.17	1.63	0.46	7.4	4.5	1.63	1.28	-0.35			
Kiribati	[0.92; 1.49] 1.55	[1.00; 2.62] 1.95	[-0.27; 1.52] 0.40	[4.2; 11.5] 9.2	[2.5; 7.5]	[1.06; 2.23]* 0.99	[0.70; 2.20]	[-1.23; 0.76] 0.00			
Democratic People's Republic of	[1.14; 2.13] 1.97	[1.05; 3.58] 1.98	[-0.68; 2.08] 0.01	[6.5; 12.4] 4.9	[2.9; 7.3]	[0.52; 1.61] 1.01	[0.46; 2.01]	[-0.79; 1.08] 0.14			
Korea	[1.44; 2.71] 2.41	[1.11; 3.45] 1.67	[-1.16; 1.59] -0.75	[3.5; 6.5]	[1.5; 3.8] 0.8	[0.68; 1.44] 0.94	[0.64; 2.08]	[-0.53; 1.13] 0.35			
Republic of Korea	[2.04; 2.84]	[1.33; 2.08]	[-1.29; -0.18]†	[1.3; 1.5]	[0.7; 1.0]	[0.79; 1.12]	[1.03; 1.64]*	[0.03; 0.73]†			
Kosovo	2.16 [1.59; 2.95]	2.31 [1.26; 4.25]	0.15 [-1.22; 2.18]	3.3 [2.4; 4.4]	1.4 [0.8; 2.3]	1.00 [0.70; 1.39]	1.00 [0.54; 1.82]	0.01 [-0.60; 0.89]			
Kuwait	4.34 [3.48; 5.45]	3.31 [2.49; 4.45]	-1.02 [-2.45; 0.43]	2.9 [2.4; 3.5]	0.9 [0.7; 1.2]	0.83 [0.65; 1.03]	0.70 [0.52; 0.93]*	-0.13 [-0.40; 0.16]			
Kyrgyzstan§	1.71	1.33	-0.37	3.8	2.9	1.33	1.74 [1.52; 1.99]*	0.41 [0.14; 0.70]†			
Lao People's Democratic Republic	[1.53; 1.91]	[1.18; 1.51]	[-0.63; -0.12]† 0.52	5.4	[2.6; 3.1]	[1.18; 1.49]*	1.46	0.26			
1	[0.74; 1.34]	[0.90; 2.55]	[-0.21; 1.60] -0.45	[2.7; 10.1] 3.0	[1.7; 6.9]	[0.56; 2.65] 0.73	[0.80; 2.52] 1.01	[-1.43; 1.56] 0.27			
Latvia¶	[2.42; 3.13] 7.46	[1.75; 3.07] 2.33	[-1.13; 0.39] -5.12	[2.5; 3.5]	[1.0; 1.6] 1.4	[0.63; 0.85]* 1.00	[0.76; 1.33]	[-0.01; 0.60] 0.00			
Lebanon	[5.47; 10.21]	[1.27; 4.18]	[-8.12; -2.31]†	[2.4; 4.4]	[0.9; 2.3]	[0.71; 1.38]	[0.55; 1.82]	[-0.62; 0.88]			
Lesotho	1.22 [0.92; 1.62]	1.17 [0.74; 1.88]	-0.05 [-0.65; 0.74]	10.6 [5.6; 17.8]	9.0 [4.7; 15.2]	0.97 [0.49; 1.92]	1.47 [0.56; 2.78]	0.51 [-0.88; 1.92]			
Liberia	3.32 [2.50; 4.52]	1.27 [0.81; 1.98]	-2.06 [-3.36; -0.91]†	[8.2; 21.9]	11.1 [6.3; 17.6]	1.06 [0.57; 2.26]	0.95 [0.41; 2.24]	-0.11 [-1.51; 1.32]			
Libya	2.17 [1.59; 2.99]	2.34 [1.28; 4.26]	0.17 [-1.20; 2.16]	3.8 [2.8; 5.0]	1.6 [1.0; 2.6]	1.00 [0.71; 1.41]	0.99 [0.54; 1.81]	-0.01 [-0.63; 0.86]			
Lithuania	2.49 [2.22; 2.79]	2.37 [1.87; 3.03]	-0.12 [-0.71; 0.59]	2.9 [2.5; 3.4]	1.2 [1.0; 1.5]	0.86 [0.76; 0.98]*	0.98 [0.77; 1.24]	0.11 [-0.13; 0.39]			
Luxembourg	2.39	2.17	-0.22	1.7	0.8	0.93	1.01	0.08			
Macedonia	[1.82; 3.12] 2.25	[1.37; 3.46] 1.63	[-1.35; 1.20] -0.62	[1.2; 2.2] 1.8	[0.5; 1.1]	[0.70; 1.24] 1.03	[0.65; 1.58] 1.36	[-0.41; 0.70] 0.32			
	[1.84; 2.76] 0.97	[1.19; 2.24] 1.28	[-1.31; 0.12] 0.31	[1.5; 2.1] 11.5	[0.8; 1.4] 8.9	[0.84; 1.27] 1.24	[1.00; 1.84] 1.25	[-0.11; 0.84] 0.01			
Madagascar	[0.77; 1.21] 0.86	[0.77; 2.17] 1.61	[-0.28; 1.23] 0.74	[5.7; 18.6] 8.7	[4.4; 14.9] 5.4	[0.75; 2.13] 1.04	[0.44; 2.62]	[-1.27; 1.50] 0.20			
Malawi	[0.71; 1.05]	[1.08; 2.40]	[0.16; 1.54]†	[5.8; 12.3]	[3.4; 8.1]	[0.72; 1.68]	[0.70; 1.98]	[-0.64; 1.00]			
Malaysia	2.46 [2.14; 2.84]	2.59 [2.37; 2.82]	0.12 [-0.31; 0.51]	3.1 [3.0; 3.3]	1.2 [1.1; 1.3]	0.89 [0.76; 1.03]	0.90 [0.82; 0.99]*	0.01 [-0.15; 0.16]			
Maldives¶	1.47 [1.15; 1.90]	2.01 [1.26; 3.20]	0.55 [-0.36; 1.79]	[2.0; 3.4]	1.3 [0.9; 1.9]	1.48 [1.12; 1.95]*	1.14 [0.72; 1.82]	-0.34 [-0.97; 0.45]			
Mali	0.74 [0.59; 0.92]	1.27 [0.85; 1.90]	0.53 [0.06; 1.19]†	10.7 [6.7; 16.1]	8.4 [5.2; 13.0]	1.40 [0.89; 2.50]	1.37 [0.60; 2.37]	-0.03 [-1.38; 1.13]			
Malta	2.58	2.22	-0.35	1.3	0.6	0.90	0.97	0.07			
Marshall Islands	[1.92; 3.47] 1.96	[1.35; 3.64] 2.13	[-1.66; 1.28] 0.17	[0.9; 1.8] 7.1	[0.3; 0.9]	[0.67; 1.20] 0.99	[0.60; 1.58] 0.99	[-0.43; 0.73] 0.00			
	[1.43; 2.68] 1.57	[1.16; 3.95] 1.39	[-1.07; 2.07] -0.18	[5.1; 9.6] 7.8	[2.0; 5.3] 5.6	[0.65; 1.44] 1.06	[0.50; 1.93]	[-0.66; 1.00] 0.43			
Mauritania	[1.16; 2.14] 1.46	[0.90; 2.14] 1.99	[-0.93; 0.68] 0.53	[4.5; 12.1] 4.1	[3.1; 9.1]	[0.54; 1.66] 1.58	[0.81; 2.44]	[-0.49; 1.52] -0.42			
Mauritius¶	[1.23; 1.74]	[1.53; 2.61]	[-0.01; 1.20]	[3.5; 4.8]	[1.7; 2.6]	[1.32; 1.89]*	[0.88; 1.52]	[-0.85; 0.02]			
Mexico	2.28 [2.19; 2.36]	2.54 [2.23; 2.89]	0.26 [-0.06; 0.63]	6.3 [6.0; 6.6]	2.5 [2.2; 2.7]	0.96 [0.92; 1.01]	0.87 [0.75; 1.00]*	-0.10 [-0.22; 0.04]			
Republic of Moldova	2.04 [1.81; 2.31]	2.20 [1.72; 2.80]	0.15 [-0.41; 0.82]	4.0 [3.5; 4.5]	1.8 [1.5; 2.2]	1.08 [0.95; 1.23]	1.05 [0.82; 1.35]	-0.03 [-0.31; 0.30]			
Monaco	2.32 [1.70; 3.15]	2.23 [1.20; 4.17]	-0.09 [-1.45; 1.94]	1.8	0.8 [0.5; 1.3]	1.00 [0.74; 1.37]	0.99 [0.54; 1.79]	0.00 [-0.60; 0.83]			
Mongolia	1.70	2.01	0.31	4.2	2.1	1.25	1.14	-0.10			
Montenegro	[1.37; 2.10] 2.04	[1.51; 2.66] 1.87	[-0.34; 1.05] -0.17	[3.6; 4.9]	[1.7; 2.6]	[0.98; 1.59] 1.14	[0.86; 1.53]	[-0.56; 0.36] 0.07			
•	[1.54; 2.68]	[1.19; 2.93] 2.34	[-1.16; 1.03] 0.11	[1.5; 2.7] 2.8	[0.8; 1.6]	[0.87; 1.50] 0.99	[0.78; 1.86]	[-0.52; 0.81] 0.00			
Montserrat	[1.63; 3.04] 1.69	[1.26; 4.30] 2.02	[-1.25; 2.15] 0.33	[2.0; 3.8]	[0.7; 1.9]	[0.71; 1.39] 1.28	[0.54; 1.78]	[-0.62; 0.84] -0.15			
Morocco	[1.33; 2.15]	[1.19; 3.43]	[-0.66; 1.80]	[1.4; 4.5]	[0.7; 2.5]	[0.97; 1.66]	[0.67; 1.91]	[-0.77; 0.70]			
Mozambique	1.08 [0.85; 1.37]	1.65 [0.99; 2.75]	0.57 [-0.19; 1.69]	11.2 [5.1; 20.4]	6.8 [3.0; 12.9]	0.73 [0.49; 1.24]	0.98 [0.34; 2.05]	0.25 [-0.62; 1.35]			
Myanmar	1.08 [0.78; 1.48]	2.34 [1.40; 3.92]	1.26 [0.21; 2.87]†	5.2 [2.9; 8.5]	2.2 [1.2; 3.9]	1.04 [0.53; 2.18]	1.17 [0.70; 1.98]	0.13 [-1.11; 1.13]			
Namibia	1.41 [1.10; 1.79]	1.41 [0.85; 2.29]	0.00	8.3 [4.6; 13.1]	5.9 [3.2; 9.8]	0.93 [0.56; 1.53]	1.42 [0.69; 2.55]	0.49 [-0.48; 1.68]			
¶: Sex ratio is outlying in 1990. §: Sex											

	Table 19 – continued from previous page Sex ratio 5q15 Sex-specific 5q15 in 2021 (per 1,000) Estimated/Expected female 5q15										
	1990	Sex ratio 5q15 2021	Change	Sex-specific 5 Male	Female [4] [5] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	1990	imated/Expected 2021	Change			
	1.80	2.15	1990-2021 0.35	6.9	3.2	0.97	1.00	1990-2021 0.02			
Nauru	[1.30; 2.48]	[1.16; 3.91]	[-0.86; 2.20]	[4.9; 9.2]	[1.9; 5.0]	[0.54; 1.49]	[0.51; 1.94]	[-0.69; 1.03]			
Nepal¶	0.91 [0.71; 1.15]	1.45 [0.90; 2.34]	0.55 [-0.08; 1.46]	5.1 [2.9; 8.1]	3.5 [1.9; 5.8]	2.05 [1.31; 2.85]*	1.55 [0.93; 2.54]	-0.51 [-1.54; 0.77]			
Netherlands	2.02 [1.83; 2.23]	1.80 [1.54; 2.12]	-0.22 [-0.56; 0.15]	1.2	0.7 [0.6; 0.8]	1.14 [1.03; 1.27]*	1.19 [0.98; 1.42]	0.04 [-0.20; 0.31]			
New Zealand	2.50 [2.24; 2.80]	1.62 [1.37; 1.92]	-0.88 [-1.27; -0.48]†	2.4 [2.2; 2.7]	1.5 [1.3; 1.7]	0.86 [0.76; 0.97]*	1.41 [1.20; 1.68]*	0.56 [0.31; 0.84]†			
Nicaragua	1.93	2.28	0.35	4.9	2.2	0.99	1.00	0.01			
Niger	[1.42; 2.66] 0.83	[1.24; 4.21] 1.27	[-0.94; 2.32] 0.43	[3.6; 6.7]	[1.3; 3.5] 8.9	[0.56; 1.49] 1.05	[0.53; 1.87]	[-0.70; 0.96] 0.24			
-	[0.66; 1.07] 0.92	[0.79; 2.05]	[-0.12; 1.25] 0.34	[5.9; 18.5] 8.9	[4.6; 15.1] 7.0	[0.67; 1.82] 1.02	[0.48; 2.54]	[-0.88; 1.56] 0.52			
Nigeria	[0.69; 1.22]	[0.90; 1.78] 2.20	[-0.15; 0.93] 0.02	[5.9; 13.0] 6.9	[4.6; 10.4] 3.2	[0.60; 2.17] 1.00	[0.88; 2.36]	[-0.83; 1.46] -0.01			
Niue	[1.58; 2.96]	[1.21; 4.02]	[-1.26; 1.95]	[4.8; 9.5]	[2.0; 4.8]	[0.72; 1.40]	[0.50; 1.88]	[-0.65; 0.93]			
Norway	2.79 [2.44; 3.19]	1.97 [1.60; 2.45]	-0.81 [-1.36; -0.22]†	1.7 [1.5; 1.9]	0.8 [0.7; 1.0]	0.83 [0.72; 0.95]*	1.11 [0.90; 1.38]	0.29 [0.03; 0.57]†			
Oman	2.19 [1.60; 2.96]	2.31 [1.25; 4.30]	0.12	3.7 [2.7; 4.9]	1.6 [0.9; 2.5]	1.00 [0.72; 1.39]	1.00 [0.53; 1.85]	0.00 [-0.62; 0.89]			
Pakistan	1.16 [0.93; 1.44]	2.19 [1.37; 3.50]	1.03 [0.12; 2.41]†	7.2 [4.3; 10.8]	3.3 [1.8; 5.5]	1.47 [0.95; 2.03]	0.96 [0.55; 1.61]	-0.51 [-1.24; 0.37]			
Palau¶	2.82	1.30	-1.52	8.2	6.3	0.68	1.51	0.83			
Panama	[2.16; 3.66] 2.20	[0.97; 1.72] 2.35	[-2.43; -0.75]† 0.15	[3.6; 17.2] 5.0	[2.8; 13.4] 2.1	[0.43; 0.95]* 1.00	[0.64; 2.21]	[-0.11; 1.59] -0.03			
Papua New Guinea§	[1.80; 2.68] 1.60	[1.90; 2.94] 1.11	[-0.51; 0.87] -0.49	[4.5; 5.4] 6.8	[1.8; 2.5]	[0.81; 1.24] 1.00	[0.77; 1.21]	[-0.35; 0.27] 0.94			
•	[1.17; 2.18] 1.87	[0.68; 1.81]	[-1.23; 0.34] 0.28	[4.8; 9.3] 5.8	[4.2; 8.7]	[0.55; 1.58] 1.05	[1.10; 3.29]* 1.04	[-0.08; 2.36] -0.01			
Paraguay	[1.39; 2.50]	[1.19; 3.92]	[-0.92; 2.13]	[4.1; 7.7]	[1.6; 4.2]	[0.72; 1.49]	[0.55; 1.93]	[-0.70; 0.95]			
Peru	1.48 [1.24; 1.78]	1.82 [1.08; 3.02]	0.33 [-0.48; 1.57]	2.9 [1.4; 4.7]	1.6 [0.8; 2.8]	1.23 [0.90; 1.55]	1.26 [0.76; 2.09]	0.03 [-0.60; 0.92]			
Philippines¶	1.61 [1.33; 1.97]	2.04 [1.55; 2.68]	0.43	5.0 [4.4; 5.5]	2.5 [2.0; 3.0]	1.35 [1.09; 1.67]*	[0.84; 1.48]	-0.23 [-0.64; 0.20]			
Poland	2.90 [2.71; 3.09]	2.13 [1.92; 2.36]	-0.77 [-1.05; -0.46]†	2.5 [2.4; 2.6]	1.2 [1.1; 1.3]	0.79 [0.73; 0.84]*	1.08 [0.97; 1.21]	0.30 [0.17; 0.44]†			
Portugal¶	3.51	2.10	-1.41	1.5	0.7	0.61	1.03	0.43			
Qatar	[3.20; 3.84] 2.35	[1.75; 2.53] 2.92	[-1.89; -0.87]† 0.57	[1.3; 1.7] 2.8	[0.6; 0.8]	[0.55; 0.67]* 0.97	[0.85; 1.25]	[0.23; 0.66]† -0.18			
Romania	[1.76; 3.13]	[1.99; 4.33] 2.34	[-0.68; 2.13] 0.25	[2.2; 3.3]	[0.7; 1.3]	[0.72; 1.29] 1.09	[0.53; 1.15]	[-0.61; 0.27] -0.10			
	[1.94; 2.24] 2.56	[2.06; 2.64]	[-0.07; 0.59] -0.44	[2.6; 3.0]	[1.1; 1.3]	[1.01; 1.18]* 0.81	[0.87; 1.13]	[-0.25; 0.06] 0.28			
Russian Federation	[2.47; 2.64]	[1.85; 2.43]	[-0.71; -0.12]†	[3.7; 4.1]	[1.7; 2.0] 2.5	[0.77; 0.85]*	[0.95; 1.26]	[0.13; 0.45]†			
Rwanda¶	1.03 [0.82; 1.30]	1.84 [1.22; 2.79]	0.81 [0.11; 1.78]†	4.6 [2.7; 6.8]	[1.4; 3.9]	[0.49; 0.80]*	[0.80; 1.89]	0.61 [0.13; 1.29]†			
Saint Kitts and Nevis	2.27 [1.68; 3.04]	2.63 [1.57; 4.50]	0.37 [-1.02; 2.32]	8.4 [5.0; 12.6]	3.2 [1.7; 5.4]	1.00 [0.74; 1.37]	0.76 [0.38; 1.37]	-0.24 [-0.80; 0.44]			
Saint Lucia	2.07 [1.57; 2.77]	2.47 [1.51; 4.19]	0.40 [-0.83; 2.17]	5.5 [3.8; 7.5]	2.2 [1.3; 3.5]	1.08 [0.79; 1.44]	0.91 [0.52; 1.52]	-0.17 [-0.71; 0.52]			
Samoa	1.69 [1.24; 2.30]	1.61 [1.00; 2.62]	-0.07 [-0.97; 1.04]	4.0 [2.1; 6.2]	2.5 [1.3; 4.0]	1.06 [0.39; 1.68]	1.42 [0.86; 2.29]	0.37 [-0.51; 1.50]			
San Marino	2.27	2.13	-0.13	1.2	0.6	1.00	1.00	0.01			
Sao Tome and Principe	[1.66; 3.10] 1.47	[1.14; 3.99]	[-1.45; 1.83] 0.73	[0.9; 1.6] 7.9	[0.3; 0.9] 3.6	[0.72; 1.37]	[0.55; 1.84] 0.92	[-0.60; 0.90] -0.22			
•	[1.08; 1.99] 1.86	[1.29; 3.71]	[-0.35; 2.32] 1.23	[3.8; 13.4] 6.4	[1.6; 6.7]	[0.41; 1.92] 1.02	[0.43; 1.69]	[-1.21; 0.93] -0.32			
Saudi Arabia	[1.37; 2.54] 1.05	[1.91; 4.96] 1.54	[-0.18; 3.22] 0.49	[3.8; 10.0] 7.6	[1.1; 3.6] 5.0	[0.52; 1.53] 1.48	[0.41; 1.16]	[-0.95; 0.38] -0.12			
Senegal	[0.81; 1.36]	[1.00; 2.36]	[-0.16; 1.36]	[4.7; 10.8]	[2.9; 7.3]	[0.81; 2.28]	[0.80; 2.20]	[-1.11; 0.99]			
Serbia	2.31 [1.95; 2.75]	2.10 [1.64; 2.67]	-0.22 [-0.87; 0.49]	2.2 [2.0; 2.4]	1.1 [0.9; 1.3]	1.00 [0.83; 1.19]	1.08 [0.85; 1.39]	0.08 [-0.23; 0.44]			
Seychelles	2.28 [1.70; 3.07]	3.42 [2.15; 5.37]	1.15 [-0.43; 3.29]	6.5 [4.0; 9.0]	1.9 [1.1; 3.1]	1.01 [0.75; 1.36]	0.63 [0.39; 1.04]	-0.38 [-0.83; 0.14]			
Sierra Leone	0.70 [0.52; 0.96]	1.08 [0.75; 1.54]	0.37 [-0.05; 0.87]	16.8 [10.1; 24.2]	15.7 [9.3; 22.8]	1.06 [0.71; 2.85]	0.88 [0.47; 2.07]	-0.18 [-1.99; 1.03]			
Singapore	2.12 [1.73; 2.58]	1.78 [1.29; 2.46]	-0.34 [-1.04; 0.46]	1.1 [0.9; 1.4]	0.6 [0.5; 0.8]	1.10 [0.90; 1.34]	1.20 [0.85; 1.69]	0.10 [-0.33; 0.63]			
Slovakia	2.28	1.95	-0.33	2.3	1.2	1.02	1.17	0.15			
Slovenia	[2.03; 2.55] 2.47	[1.60; 2.40] 2.16	[-0.77; 0.18] -0.31	[2.1; 2.5]	[1.0; 1.4] 0.7	[0.90; 1.15] 0.93	[0.95; 1.43]	[-0.10; 0.43] 0.08			
	[2.11; 2.90] 2.02	[1.49; 3.14] 1.82	[-1.11; 0.74] -0.20	[1.3; 1.9] 5.3	[0.5; 1.0]	[0.78; 1.09] 1.00	[0.70; 1.44]	[-0.27; 0.54] 0.24			
Solomon Islands	[1.46; 2.77] 0.75	[1.03; 3.19] 0.94	[-1.32; 1.27] 0.18	[3.8; 7.1] 16.4	[1.8; 4.4] 17.4	[0.69; 1.45] 1.00	[0.69; 2.24] 1.01	[-0.49; 1.27] 0.02			
Somalia	[0.55; 1.04]	[0.50; 1.74]	[-0.35; 1.02]	[10.5; 23.5]	[11.4; 24.9]	[0.64; 1.84]	[0.41; 3.38]	[-0.95; 2.35]			
South Africa§	1.71 [1.32; 2.23]	1.42 [1.15; 1.78]	-0.29 [-0.88; 0.22]	8.7 [7.6; 9.9]	6.1 [5.1; 7.1]	1.07 [0.62; 1.50]	1.40 [1.08; 1.80]*	0.33 [-0.20; 0.92]			
South Sudan	0.65 [0.47; 0.91]	1.00 [0.55; 1.87]	0.35 [-0.19; 1.23]	15.5 [10.1; 22.1]	15.5 [9.9; 22.3]	1.04 [0.73; 1.82]	1.01 [0.40; 3.17]	-0.03 [-0.95; 2.11]			
Spain	2.62 [2.46; 2.79]	1.76 [1.48; 2.10]	-0.85 [-1.19; -0.48]†	1.0 [0.9; 1.1]	0.5 [0.5; 0.6]	0.87 [0.82; 0.94]*	1.21 [0.99; 1.48]	0.34 [0.10; 0.62]†			
Sri Lanka	1.75	2.04	0.29	2.1	1.0	1.09	1.10	0.01			
Saint Vincent and the Grenadines	[1.49; 2.06]	[1.40; 2.99]	[-0.43; 1.30] -0.08	[1.6; 2.7] 8.3	[0.7; 1.4]	[0.89; 1.32]	[0.77; 1.59]	[-0.41; 0.54] -0.08			
	[1.69; 3.03] 2.37	[1.29; 3.67] 2.42	[-1.32; 1.59] 0.05	[5.4; 11.6] 4.7	[2.2; 6.0] 2.0	[0.74; 1.36] 0.99	[0.49; 1.66] 1.00	[-0.67; 0.72] 0.00			
State of Palestine	[1.72; 3.24] 0.89	[1.33; 4.42] 1.52	[-1.43; 2.17] 0.62	[3.4; 6.3] 12.4	[1.2; 3.1] 8.2	[0.70; 1.40] 0.95	[0.54; 1.83]	[-0.62; 0.91] 0.00			
Sudan	[0.66; 1.20]	[0.83; 2.78]	[-0.15; 1.91]	[8.6; 17.0]	[5.0; 12.2]	[0.58; 1.78]	[0.36; 2.33]	[-0.92; 1.39]			
Suriname¶§	1.56 [1.24; 1.95]	1.26 [0.99; 1.61]	-0.30 [-0.79; 0.18]	5.5 [4.4; 6.7]	4.4 [3.5; 5.4]	1.38 [1.07; 1.76]*	1.79 [1.37; 2.32]*	0.41 [-0.17; 1.02]			
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	2021. *: The rati	o of estimated to ex	pected female mo	ortality is significantly diffe	rent from one. †:	Change is significa	antly different from zero.			

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 19 – continued from previous page

Table 19 – continued from previous page									
	1000	Sex ratio 5q15			q15 in 2021 (per 1,000)		imated/Expected		
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021	
Eswatini	1.14	1.05	-0.08	9.7	9.2	1.27	1.77	0.50	
	[0.84; 1.53]	[0.60; 1.85]	[-0.71; 0.80]	[6.6; 13.8]	[6.1; 13.1]	[0.66; 2.16]	[0.73; 3.54]	[-0.82; 2.36]	
Sweden	2.27	2.19	-0.08	1.6	0.7	1.02	1.00	-0.02	
	[2.02; 2.54]	[1.82; 2.63]	[-0.54; 0.43]	[1.5; 1.7]	[0.6; 0.8]	[0.91; 1.16]	[0.83; 1.21]	[-0.24; 0.21]	
Switzerland	2.45	2.09	-0.35	1.5	0.7	0.94	1.04	0.10	
	[2.18; 2.74]	[1.69; 2.58]	[-0.86; 0.20] 1.23	[1.4; 1.7]	[0.6; 0.9]	[0.83; 1.06]	[0.84; 1.29]	[-0.13; 0.38]	
Syria	1.54 [1.17; 2.03]	2.77 [1.83; 4.24]	[0.13; 2.77]†	5.3 [3.7; 7.0]	1.9 [1.2; 2.8]	1.19 [0.75; 1.70]	[0.70; 1.64]	-0.11 [-0.75; 0.62]	
	1.65	1.63	-0.02	2.1	1.3	1.36	1.39	0.02	
Tajikistan	[1.49; 1.84]	[1.41; 1.89]	[-0.31; 0.28]	[2.0; 2.3]	[1.2; 1.5]	[1.22; 1.53]*	[1.19; 1.61]*	[-0.24; 0.30]	
	1.06	1.23	0.17	8.6	7.0	1.25	1.62	0.36	
Tanzania	[0.85; 1.33]	[0.80; 1.91]	[-0.37; 0.89]	[5.6; 12.2]	[4.5; 10.3]	[0.76; 2.02]	[0.87; 2.70]	[-0.74; 1.59]	
The side of a different sides of the sides o	2.53	3.29	0.76	8.7	2.7	0.74	0.61	-0.14	
Thailand¶§	[2.08; 3.08]	[2.49; 4.35]	[-0.24; 1.91]	[7.9; 9.5]	[2.1; 3.3]	[0.58; 0.93]*	[0.44; 0.82]*	[-0.39; 0.13]	
Timor Leste	1.73	0.67	-1.05	12.3	18.3	0.94	2.23	1.29	
Timor Leste	[1.29; 2.33]	[0.43; 1.04]	[-1.74; -0.44]†	[7.2; 18.7]	[11.1; 26.8]	[0.42; 1.53]	[0.88; 4.63]	[-0.30; 3.78]	
Togo	1.20	1.56	0.36	8.7	5.6	1.15	1.26	0.11	
10g0	[0.93; 1.54]	[0.95; 2.57]	[-0.36; 1.42]	[4.8; 13.5]	[2.9; 9.1]	[0.65; 1.88]	[0.59; 2.24]	[-0.91; 1.24]	
Tonga	2.46	2.46	0.00	4.2	1.7	0.94	0.93	-0.01	
8	[1.82; 3.31]	[1.50; 4.08]	[-1.31; 1.78]	[2.7; 6.1]	[1.0; 2.8]	[0.70; 1.27]	[0.56; 1.54]	[-0.53; 0.64]	
Trinidad and Tobago	1.86	2.73	0.87	7.2	2.6	1.22	0.78	-0.44	
č	[1.58; 2.21]	[2.04; 3.73]	[0.08; 1.88]†	[5.8; 8.6]	[1.9; 3.4]	[1.02; 1.44]*	[0.55; 1.07]	[-0.75; -0.08]†	
Tunisia	1.97 [1.52; 2.55]	2.31 [1.65; 3.22]	0.34 [-0.55; 1.37]	4.2 [3.4; 5.1]	1.8 [1.4; 2.4]	1.15 [0.88; 1.51]	1.00 [0.71; 1.40]	-0.16	
	1.67	2.21	0.54	2.4	1.1	1.04	1.03	[-0.62; 0.34] -0.01	
Turkey	[1.23; 2.28]	[1.84; 2.68]	[-0.20; 1.20]	[2.2; 2.6]	[0.9; 1.2]	[0.48; 1.68]	[0.86; 1.24]	[-0.66; 0.60]	
	1.51	1.18	-0.33	4.7	4.0	1.46	1.93	0.48	
Turkmenistan¶§	[1.28; 1.78]	[0.82; 1.70]	[-0.79; 0.25]	[3.6; 6.1]	[3.0; 5.2]	[1.22; 1.75]*	[1.32; 2.81]*	[-0.22; 1.38]	
	2.42	2.23	-0.19	2.9	1.3	0.93	1.04	0.11	
Turks and Caicos Islands	[1.85; 3.17]	[1.20; 4.04]	[-1.47; 1.71]	[2.1; 4.0]	[0.8; 2.0]	[0.70; 1.23]	[0.58; 1.89]	[-0.46; 0.98]	
Tuvalu	1.87	2.15	0.28	5.9	2.7	1.01	1.03	0.02	
Tuvaiu	[1.37; 2.55]	[1.17; 4.00]	[-0.94; 2.18]	[4.3; 7.9]	[1.6; 4.4]	[0.65; 1.49]	[0.53; 1.94]	[-0.67; 1.00]	
Uganda	0.83	1.32	0.49	15.0	11.4	1.12	0.82	-0.29	
Oganda	[0.68; 1.01]	[0.88; 1.97]	[0.01; 1.15]†	[9.6; 21.9]	[7.1; 17.0]	[0.76; 1.83]	[0.40; 1.92]	[-1.12; 0.86]	
Ukraine	2.19	2.28	0.08	3.5	1.5	1.01	1.02	0.01	
	[2.08; 2.31]	[2.07; 2.50]	[-0.15; 0.33]	[3.4; 3.7]	[1.4; 1.7]	[0.95; 1.07]	[0.92; 1.13]	[-0.10; 0.13]	
United Arab Emirates	2.28	2.33	0.05	3.1	1.3	1.00	1.00	-0.01	
	[1.67; 3.12] 2.55	[1.26; 4.29] 1.80	[-1.34; 2.13] -0.76	[2.2; 4.1]	[0.8; 2.1]	[0.73; 1.37]	[0.54; 1.81]	[-0.62; 0.84]	
United Kingdom	[2.39; 2.72]	[1.47; 2.19]	[-1.12; -0.33]†	[1.4; 1.7]	[0.7; 1.0]	[0.85; 0.98]*	[0.99; 1.49]	0.30 [0.07; 0.59]†	
	2.72	2.41	-0.31	4.1	1.7	0.81	0.95	0.15	
United States of America	[2.65; 2.80]	[2.04; 2.86]	[-0.69; 0.15]	[3.9; 4.4]	[1.5; 1.9]	[0.77; 0.84]*	[0.80; 1.14]	[-0.01; 0.34]	
**	1.88	2.78	0.90	5.0	1.8	1.21	0.82	-0.40	
Uruguay	[1.65; 2.15]	[2.26; 3.46]	[0.31; 1.62]†	[4.4; 5.5]	[1.5; 2.1]	[1.05; 1.40]*	[0.65; 1.02]	[-0.64; -0.15]†	
II-1 -1-1-4 9	1.61	1.14	-0.47	3.7	3.2	1.40	2.03	0.63	
Uzbekistan§	[1.36; 1.91]	[0.94; 1.39]	[-0.83; -0.11]†	[3.3; 4.0]	[2.9; 3.6]	[1.17; 1.67]*	[1.66; 2.50]*	[0.16; 1.14]†	
Vanuatu	2.06	1.80	-0.26	5.9	3.3	1.00	1.23	0.23	
vanuatu	[1.50; 2.83]	[1.03; 3.18]	[-1.36; 1.22]	[4.2; 7.9]	[2.1; 5.0]	[0.69; 1.43]	[0.67; 2.22]	[-0.48; 1.27]	
Venezuela (Bolivarian Republic of)§	2.51	4.26	1.75	17.9	4.2	0.84	0.20	-0.64	
	[2.10; 2.99]	[3.00; 6.14]	[0.38; 3.67]†	[14.8; 21.2]	[2.9; 5.8]	[0.69; 1.02]	[0.13; 0.33]*	[-0.84; -0.44]†	
Vietnam	1.89	2.78	0.90	4.0	1.4	1.10	0.83	-0.27	
	[1.41; 2.52]	[1.89; 4.14]	[-0.21; 2.36]	[3.0; 5.2]	[1.0; 2.1]	[0.77; 1.54]	[0.55; 1.23]	[-0.80; 0.24]	
Yemen	1.88 [1.37; 2.60]	3.07	1.19	12.5	4.1	0.98	0.99	0.00	
	0.79	[1.65; 5.66] 1.83	[-0.41; 3.87] 1.04	[9.0; 16.6] 11.1	[2.4; 6.5]	[0.59; 1.46]	[0.50; 1.95] 0.91	[-0.68; 1.04] -0.29	
Zambia	[0.65; 0.96]	[1.24; 2.71]	[0.42; 1.94]†	[7.2; 16.5]	[3.8; 9.5]	[0.81; 1.96]	[0.41; 1.58]	[-1.19; 0.49]	
	1.29	1.44	0.14	11.0	7.6	1.56	1.18	-0.38	
Zimbabwe¶	[1.03; 1.62]	[0.94; 2.18]	[-0.47; 0.96]	[7.2; 16.0]	[4.8; 11.6]	[1.17; 2.04]*	[0.52; 2.10]	[-1.21; 0.65]	
	[1.05, 1.02]	[5.7., 2.10]	[0.17, 0.20]	[7.2, 10.0]	[1.0, 11.0]	[, 2.07]	[0.02, 2.10]	[1.21, 0.05]	

Table 20: Estimates and 90% uncertainty intervals for sex ratios for 5q20 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 5q20 in 2021, and ratios of estimated to expected female 5q20 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

	1	Sex ratio 5q20		Sex-specific 5	q20 in 2021 (per 1,000)	Estin	Estimated/Expected female 5q20		
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021	
World¶	1.35 [1.24; 1.45]	1.73 [1.54; 1.89]	0.38	7.7 [7.3; 9.3]	4.4 [4.1; 5.5]	1.26 [1.10; 1.40]*	1.02 [0.81; 1.21]	-0.24 [-0.49; 0.01]	
South Asia¶	0.83	1.54	0.72	6.6	4.2	2.70	1.59	-1.12	
Europe and Central Asia	[0.74; 0.92]	[1.20; 1.99]	[0.36; 1.17]†	[5.2; 9.0]	[3.3; 5.8]	[2.23; 3.18]* 0.85	[0.79; 2.09]	[-2.01; -0.42]† 0.21	
Middle East and North Africa	[2.78; 3.13] 1.98	[2.32; 2.58]	[-0.74; -0.30]† 1.02	[3.5; 3.8]	[1.4; 1.6]	[0.61; 0.91]* 1.16	[1.00; 1.13]* 1.05	[0.13; 0.47]† -0.10	
	[1.69; 2.39]	[2.41; 3.56] 1.29	[0.25; 1.64]† 0.15	[6.3; 9.1] 14.4	[2.1; 3.2]	[0.52; 1.50] 0.88	[0.81; 1.29]	[-0.53; 0.58] 0.08	
Sub-Saharan Africa	[1.00; 1.24] 2.54	[1.10; 1.47] 3.63	[-0.07; 0.39] 1.08	[12.6; 19.5] 11.0	[9.8; 15.6] 3.0	[0.74; 1.06]	[0.71; 1.28] 0.57	[-0.21; 0.41] -0.15	
Latin America and Caribbean¶§	[2.35; 2.74] 1.98	[3.18; 3.99] 2.43	[0.60; 1.50]† 0.45	[10.2; 12.2] 4.8	[2.8; 3.5]	[0.61; 0.89]* 1.17	[0.46; 0.72]*	[-0.35; 0.03] -0.11	
East Asia and Pacific	[1.64; 2.36]	[1.83; 3.07]	[-0.30; 1.21]	[3.4; 8.0]	[1.4; 3.4]	[0.89; 1.46]	[0.63; 1.40]	[-0.61; 0.35]	
North America	3.21 [3.14; 3.29]	2.66 [2.18; 3.23]	-0.55 [-1.04; 0.02]	7.7 [6.7; 8.8]	2.9 [2.4; 3.5]	0.83 [0.80; 0.87]*	1.01 [0.82; 1.23]	0.17 [-0.01; 0.40]	
Afghanistan	0.82 [0.56; 1.21]	0.62 [0.37; 1.03]	-0.20 [-0.67; 0.30]	13.7 [3.2; 36.2]	22.0 [5.4; 57.4]	1.01 [0.63; 3.79]	3.38 [0.86; 6.75]	2.38 [-1.37; 5.56]	
Albania	2.71 [2.35; 3.11]	1.91 [1.51; 2.42]	-0.80 [-1.38; -0.17]†	2.5 [1.9; 3.2]	1.3 [1.0; 1.8]	0.99 [0.86; 1.14]	1.32 [1.03; 1.69]*	0.33 [0.00; 0.73]	
Algeria¶	1.56 [1.20; 2.02]	1.87 [1.57; 2.21]	0.31 [-0.23; 0.81]	3.9 [3.4; 4.4]	2.1 [1.8; 2.4]	1.72 [1.32; 2.24]*	1.42 [1.20; 1.68]*	-0.31 [-0.88; 0.18]	
Andorra	2.71	2.79 [1.36; 5.78]	0.08	2.7 [1.9; 3.5]	1.0	0.99 [0.67; 1.48]	0.91 [0.45; 1.83]	-0.08 [-0.78; 0.91]	
Angola	0.73	1.66 [0.97; 2.83]	0.93	22.2 [15.7; 29.9]	13.4	1.01	0.59	-0.42 [-1.30; 0.98]	
Anguilla	2.66	2.66	0.00	4.2	1.6	1.00	1.00	0.01	
Antigua and Barbuda	[1.79; 3.93]	[1.27; 5.75]	0.28	[3.0; 5.7]	1.6	0.89	0.93	[-0.75; 1.09]	
Argentina	[1.71; 3.74] 2.10	[1.43; 5.59] 2.81	[-1.64; 3.15] 0.72	[1.3; 9.8] 5.9	[0.4; 3.9]	[0.25; 1.46]	[0.47; 1.83] 0.96	[-0.71; 1.17] -0.32	
	[1.97; 2.22] 2.42	[2.37; 3.33]	[0.25; 1.26]† 0.85	[5.1; 6.7] 4.7	[1.8; 2.5]	[1.19; 1.37]* 1.11	[0.80; 1.14]	[-0.50; -0.12]† -0.30	
Armenia	[2.11; 2.79] 2.97	[2.55; 4.27] 2.74	[0.03; 1.88]† -0.22	[3.5; 5.9]	[1.0; 1.9] 1.2	[0.96; 1.29] 0.90	[0.63; 1.05] 0.94	[-0.55; -0.02]† 0.04	
Australia	[2.73; 3.22] 3.47	[2.26; 3.33] 2.99	[-0.77; 0.40] -0.48	[2.8; 3.7]	[1.0; 1.4]	[0.83; 0.99]*	[0.77; 1.14]	[-0.15; 0.25] 0.07	
Austria	[3.09; 3.89]	[2.32; 3.83]	[-1.27; 0.45] 0.28	[2.0; 3.0] 5.9	[0.6; 1.1]	[0.68; 0.87]*	[0.65; 1.09]	[-0.15; 0.34]	
Azerbaijan	[1.91; 2.32]	2.38 [2.07; 2.74]	[-0.10; 0.70]	[4.9; 7.0]	[2.0; 3.0]	1.29 [1.17; 1.43]*	1.13 [0.98; 1.31]	-0.16 [-0.36; 0.05]	
Bahamas§	2.13 [1.61; 2.81]	4.10 [2.70; 6.27]	1.98 [0.39; 4.21]†	11.3 [8.0; 15.0]	2.8 [1.7; 4.2]	1.19 [0.88; 1.60]	0.62 [0.39; 0.96]*	-0.57 [-1.04; -0.10]†	
Bahrain	2.29 [1.69; 3.12]	1.65 [1.24; 2.20]	-0.64 [-1.56; 0.18]	2.9 [2.0; 3.9]	1.8 [1.2; 2.5]	1.17 [0.86; 1.57]	1.55 [1.17; 2.06]*	0.39 [-0.18; 0.97]	
Bangladesh¶§	0.76 [0.61; 0.94]	1.41 [0.99; 2.01]	0.65 [0.19; 1.26]†	6.6 [4.3; 8.7]	4.6 [3.0; 6.4]	3.25 [2.40; 4.19]*	1.90 [1.33; 2.73]*	-1.35 [-2.45; -0.14]†	
Barbados	2.27 [1.68; 3.03]	1.74 [0.96; 3.16]	-0.53 [-1.67; 1.05]	4.6 [1.7; 10.0]	2.6 [0.9; 6.2]	1.18 [0.88; 1.59]	1.50 [0.82; 2.74]	0.32 [-0.51; 1.60]	
Belarus¶	4.01 [3.66; 4.41]	3.41 [2.57; 4.55]	-0.60 [-1.54; 0.59]	3.5 [2.6; 4.6]	1.0 [0.7; 1.5]	0.63 [0.56; 0.70]*	0.76 [0.57; 1.01]	0.13 [-0.07; 0.38]	
Belgium	2.80 [2.53; 3.10]	2.67 [2.11; 3.38]	-0.13 [-0.77; 0.63]	2.4	0.9	0.96	0.94 [0.73; 1.21]	-0.02 [-0.25; 0.27]	
Belize	2.58 [1.86; 3.61]	3.17 [2.08; 4.84]	0.59	11.5	3.6 [2.1; 5.9]	1.03 [0.72; 1.44]	0.78	-0.24 [-0.78; 0.31]	
Benin	1.21	1.46	0.25	13.0	9.0	1.70	1.51	-0.19	
Bhutan	[0.90; 1.62] 1.50	[0.91; 2.30]	[-0.45; 1.16]	[3.3; 29.2]	[2.2; 20.9]	[0.60; 2.68]	[0.43; 2.75]	[-1.70; 1.53]	
Bolivia (Plurinational State of)	[1.04; 2.19] 1.55	[1.01; 3.72] 2.32	[-0.80; 2.26] 0.76	[1.8; 23.8] 7.3	[0.9; 13.5]	[0.37; 2.31]	[0.38; 2.57]	[-1.38; 1.76] -0.37	
Bosnia and Herzegovina	[1.18; 2.03] 3.10	[1.20; 4.54] 3.70	[-0.48; 3.09] 0.60	[1.2; 24.0] 3.9	[0.5; 10.8]	[0.58; 2.08] 0.87	[0.34; 2.16]	[-1.37; 1.02] -0.16	
-	[2.68; 3.58] 0.93	[2.43; 5.68] 2.11	[-0.75; 2.60] 1.18	[2.2; 6.3] 8.2	[0.5; 1.9]	[0.75; 1.02] 0.93	[0.46; 1.07] 1.19	[-0.45; 0.22] 0.27	
Botswana	[0.65; 1.33] 3.22	[1.19; 3.84] 4.51	[0.14; 2.94]† 1.29	[2.1; 18.3] 11.9	[0.9; 9.3]	[0.56; 2.96]	[0.54; 2.20]	[-1.87; 1.30] -0.22	
Brazil¶§	[2.71; 3.85] 2.64	[3.44; 5.94]	[0.03; 2.80]†	[10.6; 13.3] 7.0	[2.1; 3.4] 2.6	[0.63; 0.93]*	[0.41; 0.74]*	[-0.43; 0.02] 0.01	
British Virgin Islands	[1.78; 3.96] 3.08	[1.24; 5.75]	[-1.90; 3.18]	[4.9; 9.5] 2.5	[1.4; 4.5]	[0.65; 1.49] 0.84	[0.46; 2.18]	[-0.74; 1.19] 0.70	
Brunei	[2.22; 4.31]	1.64 [1.01; 2.64]	-1.45 [-2.88; -0.07]†	[1.4; 3.9]	1.5 [0.8; 2.6]	[0.59; 1.19]	1.55 [0.97; 2.49]	[0.01; 1.70]†	
Bulgaria	2.57 [2.32; 2.86]	2.49 [2.10; 2.96]	-0.08 [-0.57; 0.45]	4.8 [4.2; 5.4]	1.9 [1.6; 2.3]	1.04 [0.93; 1.16]	1.08 [0.91; 1.29]	0.04 [-0.17; 0.28]	
Burkina Faso	0.82 [0.63; 1.06]	1.40 [0.77; 2.51]	0.58 [-0.12; 1.73]	12.6 [3.5; 33.2]	9.0 [2.4; 24.5]	2.09 [0.86; 3.63]	1.55 [0.40; 3.28]	-0.55 [-2.62; 1.69]	
Burundi	0.77 [0.52; 1.16]	2.10 [1.27; 3.44]	1.33 [0.38; 2.70]†	12.0 [2.6; 31.5]	5.7 [1.1; 15.9]	0.99 [0.66; 3.46]	1.05 [0.29; 1.96]	0.06 [-2.50; 1.05]	
Cambodia	1.57 [1.18; 2.09]	2.07 [1.14; 3.76]	0.50 [-0.61; 2.26]	6.2 [1.3; 16.6]	3.0 [0.6; 8.7]	0.58 [0.36; 1.75]	1.24 [0.60; 2.30]	0.66 [-0.71; 1.71]	
Cameroon	1.24	1.26	0.02	19.4 [7.4; 35.3]	15.4	1.09	1.15	0.06	
Canada	3.08	2.16	-0.93	4.1	1.9	0.87	1.23	0.36	
¶: Sex ratio is outlying in 1990. §: Sex	[2.86; 3.33] ratio is outlying in 2	[1.81; 2.58] 021. *: The ratio	[-1.35; -0.45]† of estimated to expect	[3.6; 4.6] ted female mortal	[1.6; 2.2] lity is significantly differen	[0.80; 0.95]* t from one. †: Cha	[1.03; 1.47]* nge is significantl	[0.15; 0.61]† y different from zero.	

Table 20 – continued from previous page

Page	Table 20 – continued from previous page Sex ratio 5q20 Sex-specific 5q20 in 2021 (per 1,000) Estimated/Expected female 5q20											
Central Control 166, 200 103, 200 105, 200 10		1990							Change			
Control Advance Republic 10.007 1	Cape Verde		1	0.65					-0.25			
Cond 1234 1236 1236 1237 1237 1237 1237 1237 1237 1237 1237	Central African Republic	0.87	1.02	0.15	27.0	26.6	0.97	1.51	0.54			
Campa	Chad	2.24	1.36	-0.88	21.8	16.0	2.24	0.83	-1.41			
Change	Chile	3.46	2.77	-0.69	5.0	1.8	0.78	0.98	0.20			
Company Comp	China	2.00	2.64	0.63	3.5	1.3	1.32	0.99	-0.33			
Camero	Colombia¶§	2.59	4.20	1.61	10.5	2.5	0.35	0.61	0.27			
Composition Republic of the Composition Services (Republic of the Composition Republic of the Composition Republic of the Composition Services (Republic of the Composition Services) 1.09 1.09 1.03 1.00 <		2.02	1.80	-0.21	5.3	3.0	0.97	1.46	0.49			
Content Cont		0.77	1.67	0.90	13.3	8.0	1.09	1.28	0.19			
Control Cont		0.95	0.98	0.03	19.2	19.5	0.93	1.43	0.51			
Contail Richard 1997,2881 2414,419 2615,1889 152,768 115,259 1094,1781 1097,099 1207,099 1		2.58	2.66	0.07	5.0	1.9	0.88	0.92	0.04			
Control Cont				0.81					-0.29			
Constair												
Chebri												
Company Comp	-											
Coresh Republic 1.004.282 1.174.476 1.156.250 1.183.59 1.14 0.075.039 0.075.135 0.040.028 0.07	-	[1.66; 1.93]	[1.71; 2.61]	[-0.10; 0.84]	[3.1; 4.2]	[1.4; 2.1]	[1.38; 1.63]*	[1.01; 1.52]*	[-0.53; 0.04]			
Procession 12.783, 444 12.283, 225 1.094, 0.024 12.735 1.101, 1.41 10.785, 0.087 10.708, 1.101 10.022, 0.024 10.022, 1.101		[2.02; 3.82]	[1.74; 4.76]	[-1.56; 2.20]	[1.8; 3.9]	[0.5; 1.6]	[0.70; 1.33]	[0.54; 1.46]	[-0.61; 0.56]			
Demintar 1,000 1,57		[2.78; 3.44]	[2.28; 3.25]	[-0.94; 0.24]	[2.7; 3.5]	[1.0; 1.4]	[0.78; 0.98]*	[0.78; 1.13]	[-0.12; 0.28]			
Disposicion 1,066, 1,35 1,073, 1,35 1,030, 2,47 1,120, 2,62 1,66, 183 1,056, 3,12 1,060, 2,10 1,000,	Denmark	[2.31; 3.02]	[1.95; 2.96]	[-0.82; 0.41]	[1.7; 2.4]	[0.7; 1.1]	[0.89; 1.17]	[0.83; 1.32]	[-0.23; 0.34]			
Dominicam Pequibite 17,43,709 126,488 1-186,202 125,186 10,96.1 10,721,120 10,50,209 10,771,101 Dominicam Republic 2.30 2.58 0.28 11,7 4.5 11,00 10,51,185 11,05,009 Ecuador 11,40 2.45 1.05 1	Djibouti	[0.60; 1.35]	[0.75; 3.35]	[-0.30; 2.47]	[12.0; 26.2]	[6.6; 18.8]	[0.56; 3.12]	[0.26; 3.27]	[-1.98; 2.19]			
Ecuador 1,65, 3,166 135, 487 1-34, 275 135, 26.5 1,11.16 10.07; 10.05; 10.09 0.02	Dominica	[1.74; 3.70]	[1.26; 4.98]	[-1.80; 2.62]	[2.5; 13.6]	[0.9; 6.1]	[0.72; 1.52]	[0.50; 2.09]	[-0.77; 1.10]			
Equation 1197, 229	Dominican Republic	[1.65; 3.16]	[1.35; 4.87]	[-1.34; 2.75]	[3.5; 26.5]	[1.2; 11.6]	[0.67; 1.57]	[0.25; 1.85]	[-1.05; 0.90]			
Especial Company Compa	Ecuador	[1.97; 2.29]	[2.49; 3.56]	[0.34; 1.45]†	[7.3; 9.1]	[2.3; 3.2]	[1.08; 1.31]*	[0.75; 1.08]	[-0.48; -0.08]†			
Elasalong 15.46;711 13.76,674 12.74;0.06 18.3;122 11.5;2.8 10.16;0.24 10.83;0.70 10.17;0.05 10.05	Egypt¶			[0.30; 2.01]†				[0.80; 1.53]	[-1.31; -0.28]†			
Entrea	El Salvador¶§				[8.3; 12.2]							
Estoniar	Equatorial Guinea											
Estionist 1305; 4.19 11.40; 2.98 12.42; 0.47 11.5; 3.5 10.7; 1.8 10.58; 0.87 0.85; 1.79 10.14; 1.11 ; Ethiopist 1.43 1.92 0.49 11.2 5.8 0.62 1.20 0.57 Federated States of Micronesia 2.49 2.63 1.04; 3.190 12.5; 2.72 1.13; 1.50 10.47; 0.84 10.34; 2.27 1.13; 2.58 1.13; 1.50 1.13; 1.50 1.047; 0.84 1.06; 2.15 1.07; 2.28 1.13; 1.50 1.17; 5.8 1.06; 1.53 1.06; 1.53 1.17; 2.27 1.06; 0.53 1.16; 3.68 1.10; 2.29 1.10	Eritrea											
Ethiopiang	Estonia¶											
Pederated States of Micronesia 1.67, 368 11.35, 571 1.17, 17.63, 351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.17, 63.351 1.18, 63.351 1.18, 63.351 1.18, 63.351 1.18, 63.351 1.18, 63.351 1.18, 63.351 1.18, 63.351 1.19 1.18, 63.351 1.18, 63.3	Ethiopia¶				11.2	5.8						
Fijis	Federated States of Micronesia	2.49	2.63	0.14	8.9	3.4		1.00	0.01			
Finland 1,200, 3,73 1,200; 2,95 1,47; -0,211 1,35; 4,17 1,14; 2,01 1,07; 0,039 1,090; 1,31 1,066, 0,527 1,47; -0,211 1,35; 2,57 1,14; 2,01 1,07; 0,039 1,090; 1,31 1,066, 0,527 1,006, 0,527	Fiji§	2.02	1.62	-0.40	7.4	4.6	1.12	1.66	0.53			
France	Finland	3.29	2.44	-0.85	4.1	1.7	0.81	1.09	0.27			
Cabon	France	3.46	2.70	-0.75	2.6	1.0	0.78	0.93	0.15			
The Gambia	Gabon	1.28	1.77	0.49	10.5	5.9	1.61	1.22	-0.38			
Georgia Z.40; 3.80 Z.31; 3.98 Z.10; 1.16 Z.0 Z.51; 2.6 Z.51; 2.6 Z.51; 2.73 Z.23 Z.39	The Gambia	0.97	1.73	0.76	13.1	7.6	1.09	1.39	0.30			
Commany Comm	Georgia	3.02	3.03	0.01	6.1	2.0	0.88	0.89	0.00			
Ghana 1.09 (1.77; 1.55) 1.51 (0.84; 2.75) 0.42 (-0.45; 1.73) 8.9 (1.7; 5.0) 5.9 (1.1; 17.8) 1.39 (0.51; 3.10) 1.58 (0.47; 3.04) 0.19 (-1.95; 2.01) Greece 3.342 (3.36) 3.36 (-0.07) 2.6 (-0.8) 0.78 (0.7; 0.88)* 0.75 (0.58; 0.96)* -0.03 Grenada 2.37 (2.09) -0.28 (4.5) 2.1 (1.09) 1.26 (1.06) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.58; 0.96)* 1.26 (0.16) 0.16 (0.16) 1.27 (0.24; 1.14) 0.79 (0.24; 1.20) 0.36 (0.14) 1.14 (0.79) 0.36 (0.14) 1.14 (0.79) 0.36 (0.16) 1.27 (0.16) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14) 1.28 (0.14)	Germany	2.73	2.39	-0.34	2.1	0.9	0.99	1.05	0.06			
Greece 3.342 3.36 -0.07 2.6 0.88 0.78 0.75 -0.03	,	1.09	1.51	0.42	8.9	5.9	1.39	1.58	0.19			
Grenada 2.37 2.09 -0.28 4.5 2.1 1.09 1.26 0.16		3.42	3.36	-0.07	2.6	0.8	0.78	0.75	-0.03			
Guatemala¶	Grenada	2.37	2.09	-0.28	4.5	2.1	1.09	1.26	0.16			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1.85	3.03	1.19	12.7	4.2	1.14	0.79	-0.36			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	1.11	1.08	-0.03	19.0	17.6	1.77	1.33	-0.43			
Guyana Comparison Comparis		0.87	1.34	0.47	15.3	11.4	1.03	1.62	0.59			
Guyana [1.81; 2.48] [1.60; 4.05] [-0.58; 1.91] [8.4; 28.5] [3.1; 12.1] [0.98; 1.40] [0.24; 1.49] [-1.00; 0.34] Haiti 0.73 1.50 0.77 13.2 8.8 1.74 1.49 -0.25 Honduras 2.22 2.77 0.55 8.7 3.2 0.95 0.96 0.01 Hungary 2.73 2.23 -0.50 2.8 1.2 0.98 1.13 0.15 Leeland 3.04 2.23 -0.80 1.9 0.8 0.89 1.14 0.25 Leeland [2.16; 4.27] [1.24; 4.02] [-2.47; 1.23] [0.8; 3.1] [0.3; 1.6] [0.63; 1.24] [0.63; 2.00] [-0.39; 1.17]							1.18					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	•	[1.81; 2.48]	[1.60; 4.05]	[-0.58; 1.91]	[8.4; 28.5]	[3.1; 12.1]	[0.98; 1.40]	[0.24; 1.49]	[-1.00; 0.34]			
Honduras [1.51; 3.28] [1.31; 5.82] [-1.36; 3.66] [6.2; 11.7] [1.7; 5.5] [0.40; 1.58] [0.44; 2.04] [-0.82; 1.25] [1.7] [1		[0.55; 0.98]	[0.88; 2.54]	[0.09; 1.82]†	[4.5; 27.6]	[2.9; 18.9]	[0.83; 4.24]	[0.41; 2.88]	[-3.09; 1.45]			
Hungary [2.48; 3.02] [1.78; 2.82] [-1.04; 0.13] [2.3; 3.3] [1.0; 1.6] [0.88; 1.09] [0.89; 1.44] [-0.11; 0.47] Iceland 3.04 2.23 -0.80 1.9 0.8 0.89 1.14 0.25 [2.16; 4.27] [1.24; 4.02] [-2.47; 1.23] [0.8; 3.1] [0.3; 1.6] [0.63; 1.24] [0.63; 2.00] [-0.39; 1.17]		[1.51; 3.28]	[1.31; 5.82]	[-1.36; 3.66]	[6.2; 11.7]	[1.7; 5.5]	[0.40; 1.58]	[0.44; 2.04]	[-0.82; 1.25]			
[2.16; 4.27] [1.24; 4.02] [-2.47; 1.23] [0.8; 3.1] [0.3; 1.6] [0.63; 1.24] [0.63; 2.00] [-0.39; 1.17]		[2.48; 3.02]	[1.78; 2.82]	[-1.04; 0.13]	[2.3; 3.3]	[1.0; 1.6]	[0.88; 1.09]	[0.89; 1.44]	[-0.11; 0.47]			
		[2.16; 4.27]	[1.24; 4.02]	[-2.47; 1.23]	[0.8; 3.1]	[0.3; 1.6]	[0.63; 1.24]	[0.63; 2.00]	[-0.39; 1.17]			

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 20 – continued from previous page Sex ratio 5q20 Sex-specific 5q20 in 2021 (per 1,000) Estimated/Expected female 5q20											
	1990	Sex ratio 5q20 2021	Change	Sex-specific 5 Male	q20 in 2021 (per 1,000) Female	1990	2021	Change			
India¶§	0.78	1.54	1990–2021 0.76	6.0	3.9	3.12	1.75	1990–2021 -1.37			
Indonesia¶	[0.68; 0.89]	[1.16; 2.06] 2.65	[0.36; 1.29]† 1.29	[4.6; 7.5] 7.3	[2.9; 5.1]	[2.56; 3.73]* 1.97	[1.30; 2.33]* 0.94	[-2.12; -0.55]† -1.04			
Iran (Islamic Republic of)	[1.02; 1.76] 1.77	[1.47; 4.68]	[0.01; 3.38]† 1.01	[1.6; 20.4] 7.6	[0.6; 8.5]	[1.51; 2.62]* 1.00	[0.36; 1.77] 0.96	[-1.91; -0.05]† -0.05			
	[1.18; 2.63] 2.64	[1.86; 4.12] 2.44	[-0.29; 2.54] -0.20	[4.8; 11.3] 6.1	[1.6; 4.4]	[0.33; 1.68]	[0.64; 1.45]	[-0.80; 0.77] 0.09			
Iraq	[1.79; 3.91] 3.17	[1.16; 5.16]	[-2.08; 2.66] 0.12	[4.3; 8.2] 2.0	[1.3; 4.3]	[0.67; 1.50] 0.86	[0.52; 2.31]	[-0.70; 1.37] -0.09			
Ireland	[2.74; 3.68] 2.56	[2.59; 4.17] 3.03	[-0.73; 1.09] 0.47	[1.5; 2.4] 2.4	[0.4; 0.8]	[0.73; 0.99]* 1.04	[0.59; 0.99]*	[-0.31; 0.16] -0.22			
Israel	[2.24; 2.95] 3.41	[2.55; 3.63] 2.78	[-0.15; 1.13] -0.63	[2.1; 2.8]	[0.7; 1.0] 0.6	[0.91; 1.20]	[0.68; 1.01] 0.91	[-0.43; 0.01] 0.11			
Italy	[3.21; 3.63]	[2.28; 3.37] 3.17	[-1.17; -0.01]† 0.62	[1.5; 1.9]	[0.5; 0.7]	[0.74; 0.85]*	[0.72; 1.14]	[-0.08; 0.35]			
Jamaica	[1.72; 3.76]	[1.58; 6.23]	[-1.43; 3.80]	7.9 [5.7; 10.3]	[1.3; 4.2]	[0.64; 1.52]	0.84 [0.42; 1.71]	-0.15 [-0.83; 0.77]			
Japan	2.53 [2.41; 2.66]	1.89 [1.77; 2.02]	-0.64 [-0.82; -0.47]†	2.4 [2.2; 2.5]	1.3 [1.2; 1.3]	1.04 [0.97; 1.11]	1.32 [1.18; 1.49]*	0.28 [0.14; 0.45]†			
Jordan	2.53 [1.74; 3.71]	2.57 [1.31; 4.96]	0.04 [-1.75; 2.59]	5.2 [3.7; 6.9]	2.0 [1.1; 3.4]	1.06 [0.72; 1.54]	1.05 [0.54; 2.03]	-0.01 [-0.73; 1.04]			
Kazakhstan	2.28 [2.14; 2.44]	2.21 [2.01; 2.43]	-0.07 [-0.33; 0.20]	6.0 [5.5; 6.4]	2.7 [2.5; 3.0]	1.10 [1.01; 1.19]*	1.22 [1.10; 1.35]*	0.12 [-0.03; 0.28]			
Kenya	1.15 [0.87; 1.52]	1.54 [0.89; 2.64]	0.39 [-0.39; 1.55]	11.8 [3.4; 28.1]	7.7 [2.2; 18.7]	1.88 [0.73; 2.82]	1.48 [0.40; 2.89]	-0.40 [-1.88; 1.41]			
Kiribati	2.11 [1.42; 3.13]	2.48 [1.15; 5.23]	0.37	12.3 [8.5; 16.8]	5.0 [2.7; 8.5]	0.97 [0.39; 1.65]	0.99 [0.40; 2.29]	0.02 [-0.89; 1.41]			
Democratic People's Republic of Korea	2.51 [1.68; 3.74]	2.30 [1.14; 4.61]	-0.21 [-1.90; 2.33]	6.7 [4.7; 9.0]	2.9 [1.6; 4.8]	1.00 [0.64; 1.53]	1.16 [0.58; 2.38]	0.17			
Republic of Korea	2.26 [1.87; 2.74]	1.50	-0.75 [-1.35; -0.18]†	2.1	1.4	1.18	1.67	0.48			
Kosovo	2.52	2.70	0.18	5.1	1.9	1.00	1.00	0.00			
Kuwait	[1.70; 3.75] 6.95	[1.27; 5.80]	[-1.75; 3.40] -4.48	[3.6; 6.9]	[1.0; 3.3]	[0.65; 1.53] 0.96	[0.46; 2.10]	[-0.76; 1.14] 0.12			
Kyrgyzstan¶	[5.53; 8.86] 2.02	[1.83; 3.32] 1.85	[-6.45; -2.80]† -0.17	[3.0; 5.3] 5.3	[1.1; 2.3] 2.8	[0.76; 1.21] 1.29	[0.80; 1.45] 1.46	[-0.25; 0.54] 0.17			
Lao People's Democratic Republic	[1.82; 2.25] 1.81	[1.62; 2.11] 1.33	[-0.50; 0.16] -0.47	[4.7; 5.9] 8.2	[2.5; 3.3] 6.2	[1.15; 1.46]* 0.87	[1.28; 1.68]* 1.88	[-0.08; 0.43] 1.01			
	[1.24; 2.60]	[0.70; 2.51]	[-1.53; 0.87] -1.19	[1.8; 20.7] 4.9	[1.3; 16.1] 1.9	[0.31; 1.89]	[0.66; 3.74]	[-0.68; 2.96] 0.41			
Latvia¶	[3.24; 4.25] 16.02	[1.93; 3.28] 2.69	[-1.99; -0.30]† -13.33	[3.9; 6.0] 4.3	[1.4; 2.5] 1.6	[0.56; 0.77]* 0.99	[0.82; 1.39]	[0.14; 0.74]† 0.00			
Lebanon	[11.46; 22.85] 1.20	[1.25; 5.67]	[-20.44; -7.73]† 0.45	[3.0; 5.7]	[0.8; 2.8]	[0.69; 1.43]	[0.48; 2.06]	[-0.70; 1.12] -0.49			
Lesotho	[0.84; 1.69] 5.66	[0.96; 2.85]	[-0.43; 1.70] -4.52	[6.5; 45.5] 16.4	[4.0; 29.0] 14.5	[0.46; 2.80]	[0.28; 2.31]	[-2.15; 1.32] 0.78			
Liberia	[4.02; 8.52]	[0.70; 1.81]	[-7.43; -2.64]†	[5.1; 33.4]	[4.6; 29.6] 1.7	[0.50; 2.89]	[0.48; 3.46]	[-1.82; 2.62]			
Libya	2.70 [1.81; 4.03]	2.72 [1.28; 5.91]	0.03 [-1.98; 3.33]	4.7 [3.3; 6.2]	[0.9; 3.0]	[0.66; 1.49]	0.98 [0.46; 2.05]	-0.01 [-0.75; 1.12]			
Lithuania¶	4.18 [3.68; 4.76]	2.99 [2.37; 3.78]	-1.20 [-2.05; -0.26]†	4.7 [3.9; 5.7]	1.6 [1.2; 2.0]	0.60 [0.52; 0.69]*	0.90 [0.71; 1.14]	0.30 [0.09; 0.55]†			
Luxembourg	2.76 [2.09; 3.69]	2.46 [1.41; 4.24]	-0.30 [-1.75; 1.64]	1.4 [0.5; 2.6]	0.6 [0.2; 1.2]	0.97 [0.72; 1.28]	1.02 [0.59; 1.79]	0.05 [-0.51; 0.86]			
Macedonia	2.00 [1.60; 2.47]	2.31 [1.62; 3.28]	0.31 [-0.54; 1.36]	2.3 [1.6; 3.2]	1.0 [0.7; 1.5]	1.33 [1.08; 1.64]*	1.09 [0.77; 1.57]	-0.24 [-0.70; 0.31]			
Madagascar	1.05 [0.81; 1.36]	1.33 [0.70; 2.50]	0.28 [-0.45; 1.51]	13.5 [2.6; 43.1]	10.1 [1.9; 34.0]	1.67 [0.68; 2.86]	1.47 [0.37; 3.48]	-0.19 [-1.98; 2.11]			
Malawi	0.92 [0.73; 1.15]	1.68 [1.05; 2.70]	0.76 [0.08; 1.81]†	14.0 [5.0; 27.2]	8.3 [2.8; 17.0]	1.13 [0.68; 2.93]	1.29 [0.37; 2.38]	0.16 [-1.95; 1.30]			
Malaysia	2.56 [2.16; 3.03]	2.34 [2.17; 2.51]	-0.22 [-0.72; 0.21]	4.7 [4.3; 5.0]	2.0 [1.8; 2.2]	1.02 [0.85; 1.22]	1.15 [1.06; 1.25]*	0.13 [-0.09; 0.32]			
Maldives¶	1.19	1.85 [1.09; 3.11]	0.66	1.8 [0.6; 3.2]	1.0	2.24 [1.68; 2.98]*	1.36 [0.82; 2.29]	-0.88 [-1.82; 0.23]			
Mali	0.93	1.23 [0.77; 1.93]	0.29	12.9 [4.3; 26.2]	10.6	1.91 [0.73; 3.29]	1.86 [0.54; 3.30]	-0.05 [-2.07; 1.93]			
Malta	2.68	3.07 [1.80; 5.26]	0.39	1.8	0.6	0.98	0.82	-0.16			
Marshall Islands	[1.87; 3.81]	2.61	0.12	[0.8; 3.0] 9.6	3.7	[0.69; 1.39] 0.99	[0.48; 1.39]	[-0.70; 0.50]			
Mauritania	[1.67; 3.74] 1.93	[1.22; 5.59]	[-1.79; 3.22] -0.69	[6.8; 12.9] 8.5	[1.9; 6.4] 6.9	[0.61; 1.54]	[0.45; 2.18]	[-0.79; 1.26] 0.94			
Mauritius¶	[1.32; 2.83] 1.40	[0.80; 1.96]	[-1.69; 0.27] 1.34	[2.1; 19.8] 7.1	[1.6; 15.8]	[0.35; 1.85] 1.93	[0.87; 3.29]	[-0.42; 2.46] -0.95			
Mexico§	[1.16; 1.68] 2.73	[2.07; 3.64]	[0.60; 2.28]† 0.57	[5.7; 8.7] 11.8	[1.9; 3.4]	[1.60; 2.33]* 0.95	[0.73; 1.31] 0.76	[-1.42; -0.49]† -0.19			
	[2.64; 2.82] 3.34	[2.81; 3.88] 2.80	[0.08; 1.16]†	[10.5; 13.3] 5.9	[3.0; 4.2]	[0.90; 1.00] 0.74	[0.64; 0.91]*	[-0.32; -0.04]† 0.22			
Republic of Moldova¶	[2.95; 3.77] 2.72	[2.16; 3.63] 2.53	[-1.30; 0.37] -0.18	[4.8; 7.1] 2.8	[1.6; 2.7] 1.1	[0.65; 0.85]* 0.99	[0.74; 1.25] 1.00	[-0.03; 0.52] 0.01			
Monaco	[1.82; 4.02] 1.84	[1.16; 5.40] 2.34	[-2.15; 2.79] 0.50	[1.9; 3.7] 5.5	[0.6; 1.9]	[0.67; 1.48]	[0.48; 2.16]	[-0.72; 1.20] -0.15			
Mongolia	[1.43; 2.37] 2.16	[1.68; 3.24] 2.83	[-0.36; 1.50] 0.66	[4.1; 7.2] 3.3	[1.6; 3.3] 1.2	[0.95; 1.74] 1.25	[0.83; 1.60]	[-0.71; 0.43] -0.33			
Montenegro	[1.67; 2.80]	[1.70; 4.67]	[-0.67; 2.60]	[2.1; 4.7]	[0.7; 1.9]	[0.96; 1.62]	[0.56; 1.50]	[-0.86; 0.33]			
Montserrat	2.65 [1.79; 3.93]	2.66 [1.24; 5.72]	0.01 [-1.90; 3.22]	4.1 [2.9; 5.4]	1.5 [0.8; 2.7]	0.99 [0.66; 1.49]	1.00 [0.47; 2.06]	0.01 [-0.75; 1.12]			
Morocco¶	1.83 [1.37; 2.48]	2.47 [1.27; 4.72]	0.63 [-0.78; 2.98]	4.3 [0.9; 12.2]	1.7 [0.4; 5.3]	1.43 [1.03; 1.95]*	1.05 [0.53; 2.05]	-0.38 [-1.15; 0.72]			
Mozambique	1.06 [0.79; 1.44]	0.99 [0.54; 1.79]	-0.07 [-0.67; 0.79]	21.1 [6.3; 52.4]	21.3 [6.4; 53.5]	1.16 [0.56; 2.90]	1.26 [0.44; 4.27]	0.10 [-1.97; 3.09]			
Myanmar	1.88 [1.27; 2.81]	2.05 [1.19; 3.75]	0.17 [-1.19; 2.00]	9.8 [3.3; 21.4]	4.8 [1.3; 11.3]	0.97 [0.31; 1.86]	1.76 [0.90; 3.16]	0.79 [-0.53; 2.41]			
Namibia	1.41 [1.08; 1.84]	1.70 [0.96; 3.01]	0.29 [-0.59; 1.66]	17.9 [5.9; 41.6]	10.5 [3.3; 25.7]	1.01 [0.48; 2.06]	0.96 [0.28; 2.48]	-0.05 [-1.40; 1.59]			
¶: Sex ratio is outlying in 1990. §: Sex											

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 20 – continued from previous page

Name		Table 20 – continued from previous page Sex ratio 5q20 Sex-specific 5q20 in 2021 (per 1,000) Estimated/Expected female 5q20											
Name		1990				* ' '			Change				
New 1.5	Nauru			0.30					0.01				
Name	Nepal¶	1.23	1.41	0.18	6.5	4.6	2.03	1.85	-0.18				
New Journal	Netherlands	2.26	2.02	-0.24	1.9	0.9	1.16	1.25	0.09				
	New Zealand		2.05	-1.35	3.6	1.8	0.77	1.28					
Nome 10.10 10.25	Nicaragua	2.44	2.62	0.18	7.7	2.9	0.97	0.99	0.02				
Name	Niger	1.01	0.92	-0.09	15.9	17.3	1.13	2.01	0.88				
New 1,000	Nigeria§	1.06	1.10	0.04	10.7	9.7	1.01	2.27	1.26				
Seminary 13.1	Niue	2.64	2.68	0.04	11.4	4.2	1.00	0.99	-0.01				
Comment 2.07 (1.98) 2.06 (1.28) 4.3 (1.28) 1.6 (1.98) 1.0 (1.98) 0.0 (1.98) 0.0 (1.	Norway	3.31			2.6	1.1	0.82	1.03	0.22				
Post	Oman	2.67	2.69	0.03	4.3	1.6	1.00	0.99	-0.01				
Palma	Pakistan¶	1.29	3.16	1.87	8.9	2.8	1.90	0.75	-1.14				
Panama	Palau	2.57	0.89	-1.68	19.9	22.5	0.89	1.52	0.63				
Popula New Guinea	Panama	2.62	3.05	0.43	8.9	2.9	1.00	0.87	-0.13				
Personal	Papua New Guinea	2.12	1.46	-0.66	9.6	6.5	1.01	1.78	0.77				
Pers 213 11 (174, 259) 11 (174, 259) 11 (174, 259) 11 (174, 259) 12 (185, 641) 13 (174, 259) 14 (174, 259) 14 (174, 259) 15 (174, 259	Paraguay	2.20	2.61	0.42	9.0	3.4	1.06	1.00	-0.06				
Pulispines	Peru	2.13	3.45	1.31	6.5	1.9	1.13	0.75	-0.38				
Polane 147	Philippines	1.98	2.39	0.41	7.8	3.3	1.26	1.12	-0.14				
Portugal	Poland¶	4.27	3.32	-0.95	4.6	1.4	0.63	0.81	0.18				
Qatar 2,77 1,94,394, [1,375,256] 2,13 1,207,208, [1,375,256] 0.64 1,207,080, [0.82,23] 1,05 1,04,194, [0.82,23] 1,137,256, [0.82,23] 1,04,209, [0.82,23] 1,03 1,04,203, [0.92,23] 1,14 2,03,203, [0.92,23] 0.05 2,03,203, [0.92,23] 1,04 1,04,203, [0.92,23] 1,13 1,04,203,203, [0.92,23] 1,04 1,03,203, [0.92,23] 1,03 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,04 1,05 1,04,203,203, [0.92,23] 1,05 <br< td=""><td>Portugal</td><td>3.55</td><td>2.42</td><td>-1.12</td><td>2.4</td><td>1.0</td><td>0.74</td><td>1.03</td><td>0.29</td></br<>	Portugal	3.55	2.42	-1.12	2.4	1.0	0.74	1.03	0.29				
Romania 2.56 2.28 0.46 2.4 1.5 1.14 0.95 0.19 0.13	Qatar	2.77	2.13	-0.64	1.5	0.7	0.97	1.18	0.22				
Russin Federationf	Romania	2.36	2.82	0.46	4.2	1.5	1.14	0.95	-0.19				
Second S	Russian Federation¶	3.62	2.85	-0.78	7.0	2.5	0.67	0.94	0.27				
Saint Kitts and Nevis	_	1.38	1.62	0.25	7.0	4.3	0.54	1.59	1.05				
Samit Lucia	-	2.51	2.77	0.26	14.7	5.3	1.05	0.73	-0.32				
Samoa 1.50 1.68 1.49 1.51		2.45	2.18	-0.26	6.9	3.2	1.06	1.21	0.15				
		1.30	1.68	0.38	5.0	3.0	0.89	1.55	0.66				
1.81; 3.99		2.68	2.53	-0.15	1.9	0.8	0.99	0.99	0.00				
11.09; 2.50 10.94; 3.59 1.109; 1.89 1.409; 1.99 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109; 1.89 1.109;		1.60	1.80	0.19	15.8	8.8	0.67	1.02	0.35				
Senegal 1.30 1.54 0.24 6.6 4.3 1.63 1.68 0.05 0.05; 1.49 1.05; 0.91 1.05		2.51	3.05	0.54	7.7	2.5	0.88	0.83	-0.04				
Serbia 2.67 3.12 0.45 3.6 1.15 1.01 1.01 0.84 0.01		1.30	1.54	0.24	6.6	4.3		1.68	0.05				
Seychelles [2.30, 3.22] [2.38, 4.07] [1.34, 1.50] [3.54, 4.2] [0.57, 1.23] [0.64, 1.05] [0.67, 1.03] [0.47, 1.03] <td>-</td> <td>2.67</td> <td>3.12</td> <td>0.45</td> <td>3.6</td> <td>1.1</td> <td>1.01</td> <td>0.84</td> <td>-0.17</td>	-	2.67	3.12	0.45	3.6	1.1	1.01	0.84	-0.17				
Sierra Leone (1.88; 3.81) [0.97; 1.21] (1.89; 3.81) [0.12; 1.31] (1.27; 3.31) [0.32; 4.4] (1.05; 1.43) [0.09; 1.43] (1.43; 1.39) [0.08; 1.43] (1.43; 1.39) [0.08; 1.43] (1.43; 1.39) [0.08; 1.43] (1.43; 1.31) [0.62; 3.74] (1.03; 2.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.29; 1.64] [0.29; 1.64] (2.05; 0.49) <td></td> <td>2.67</td> <td>3.31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-0.21</td>		2.67	3.31						-0.21				
Singapore 10.57; 1.21 10.88; 2.00 10.12; 1.23 14.6; 40.7 13.4; 31.1 10.62; 3.74 10.39; 2.64 12.92; 1.64 1.50	•	0.84	1.31	0.48	20.0	15.2	1.05	0.97	-0.08				
Slovakia 3.27 2.80 0.47 3.5 1.2 0.82 0.93 0.10 0.07		2.27		-0.04	1.5	0.7	1.19	1.12	-0.07				
Slovenia 3.49 2.59 -0.90 2.1 0.8 0.77 0.97 0.20		3.27	2.80	-0.47	3.5	1.2	0.82	0.93	0.10				
Solomon Islands		3.49		-0.90	2.1	0.8	0.77		0.20				
Solution Islands		[2.98; 4.12]	[1.72; 3.87]		[1.6; 2.7]	[0.5; 1.2]	[0.65; 0.91]*	[0.65; 1.46]					
Somaina [0.51; 1.15] [0.42; 1.96] [-0.49; 1.22] [13.3; 34.8] [15.1; 37.0] [0.63; 2.37] [0.37; 5.57] [-1.25; 4.41] South Africa 2.37 1.72 -0.65 16.0 9.3 0.63 1.23 0.59 South Sudan 0.72 0.95 0.23 21.6 22.7 1.02 1.06 0.04 Spain 3.56 2.67 0.89 1.8 0.7 0.76 0.94 0.19 Sri Lanka¶ 2.58 2.40 -0.18 3.4 1.4 0.53 1.08 0.55 Saint Vincent and the Grenadines 2.70 2.31 -0.38 1.8 0.7 0.76 0.94 0.19 State of Palestine 2.70 2.31 -0.38 1.8 0.7 0.76 0.94 0.05; State of Palestine 2.70 2.31 -0.38 10.7 4.6 0.99 1.05 0.06 0.55 State of Palestine 3.37 3.03 -0.33 6.2 <t< td=""><td></td><td>[1.71; 3.79]</td><td>[1.13; 4.58]</td><td>0.14</td><td>[5.2; 9.9] 22.8</td><td>[1.8; 5.3]</td><td></td><td>[0.58; 2.39]</td><td></td></t<>		[1.71; 3.79]	[1.13; 4.58]	0.14	[5.2; 9.9] 22.8	[1.8; 5.3]		[0.58; 2.39]					
South Africa [1.74; 3.23] [1.36; 2.17] [-1.59; 0.12] [12.8; 19.5] [7.2; 11.7] [0.27; 1.29] [0.66; 1.72] [-0.28; 1.23] South Sudan 0.72 0.95 0.23 21.6 22.7 1.02 1.06 0.04 Spain 3.56 2.67 -0.89 1.8 0.7 0.76 0.94 0.19 Spain 2.58 2.40 -0.18 3.4 1.4 0.53 1.08 0.55 Sri Lanka¶ 2.13; 3.12] [1.51; 3.85] [-1.42; -0.26]† [1.8; 6.2] [0.7; 2.8] [0.34; 0.80]* [0.66; 1.71] [-0.02; 0.43] Saint Vincent and the Grenadines 2.70 2.31 -0.38 10.7 4.6 0.99 1.05 0.06 State of Palestine 3.37 3.03 -0.38 10.7 4.6 0.99 1.05 0.06 Sudan [1.91; 3.76] [1.27; 4.28] [-1.98; 1.81] [3.9; 20.3] [1.6; 9.5] [0.71; 1.40] [0.39; 2.05] [-0.73; 1.12] State of Palestine													
Soluti Sudan [0.47; 1.10] [0.44; 2.06] [-0.42; 1.37] [12.8; 32.2] [13.4; 34.3] [0.67; 1.85] [0.36; 5.35] [-1.00; 4.24] Spain 3.56 2.67 -0.89 1.8 0.7 0.76 0.94 0.19 Si Lanka¶ 2.58 2.40 -0.18 3.4 1.4 0.53 1.08 0.55 Saint Vincent and the Grenadines 2.70 2.31 -0.38 10.7 4.6 0.99 1.05 0.06 State of Palestine 3.37 3.03 -0.33 10.7 4.6 0.99 0.99 0.01 Sudan 0.89 1.57 0.68 18.8 12.0 0.99 0.99 0.01 Suriname§ 1.94 0.33,33 0.62 2.1 0.99 0.99 0.01 5.5 0.66 1.43; 6.45 [-2.70; 3.26] [4.4; 8.3] [1.1; 3.6] [0.66; 1.48] [0.46; 2.10] -0.74; 1.15 Sudan 0.89 1.57 0.68 18.8 12.0 <th< td=""><td></td><td>[1.74; 3.23]</td><td>[1.36; 2.17]</td><td>[-1.59; 0.12]</td><td>[12.8; 19.5]</td><td>[7.2; 11.7]</td><td>[0.27; 1.29]</td><td>[0.66; 1.72]</td><td>[-0.28; 1.23]</td></th<>		[1.74; 3.23]	[1.36; 2.17]	[-1.59; 0.12]	[12.8; 19.5]	[7.2; 11.7]	[0.27; 1.29]	[0.66; 1.72]	[-0.28; 1.23]				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		[0.47; 1.10]	[0.44; 2.06]	[-0.42; 1.37]	[12.8; 32.2]	[13.4; 34.3]	[0.67; 1.85]	[0.36; 5.35]	[-1.00; 4.24]				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		[3.35; 3.77]	[2.19; 3.27]	[-1.42; -0.26]†	[1.5; 2.0]	[0.5; 0.8]	[0.71; 0.81]*	[0.75; 1.19]	[-0.02; 0.43]				
Saint vincent and the Grenaumes [1.91; 3.76] [1.27; 4.28] [-1.98; 1.81] [3.9; 20.3] [1.6; 9.5] [0.71; 1.40] [0.39; 2.05] [-0.73; 1.12] State of Palestine 3.37 3.03 -0.33 6.2 2.1 0.99 0.99 0.01 Sudan 0.89 1.57 0.68 18.8 12.0 0.95 0.94 -0.01 Sudan 1.99 1.38 -0.61 7.5 5.5 1.27 1.93 0.67 Suriname§ 1.59 1.38 -1.27; 0.03 [5.0; 10.4] [3.6; 7.7] [0.95; 1.66] [1.44; 2.56]* [0.03; 1.37]†	-	[2.13; 3.12]	[1.51; 3.85]	[-1.24; 1.33]	[1.8; 6.2]	[0.7; 2.8]	[0.34; 0.80]*	[0.68; 1.71]	[0.06; 1.21]†				
State of Palestine [2.28; 4.96] [1.43; 6.45] [-2.70; 3.26] [4.4; 8.3] [1.1; 3.6] [0.66; 1.48] [0.46; 2.10] [-0.74; 1.15] Sudan 0.89 1.57 0.68 18.8 12.0 0.95 0.94 -0.01 Suriname§ 1.99 1.38 -0.61 7.5 5.5 1.27 1.93 0.67 1.54; 2.56] [1.54; 2.56] [1.05; 1.83] [-1.27; 0.03] [5.0; 10.4] [3.6; 7.7] [0.95; 1.66] [1.44; 2.56]* [0.03; 1.37]†		[1.91; 3.76]	[1.27; 4.28]	[-1.98; 1.81]	[3.9; 20.3]	[1.6; 9.5]	[0.71; 1.40]	[0.39; 2.05]	[-0.73; 1.12]				
Suriname§ [0.61; 1.30] [0.73; 3.36] [-0.29; 2.48] [12.0; 26.5] [6.7; 19.2] [0.57; 2.59] [0.26; 3.34] [-1.48; 2.32] Suriname§ 1.99 1.38 -0.61 7.5 5.5 1.27 1.93 0.67 [1.54; 2.56] [1.05; 1.83] [-1.27; 0.03] [5.0; 10.4] [3.6; 7.7] [0.95; 1.66] [1.44; 2.56]* [0.03; 1.37]†		[2.28; 4.96]	[1.43; 6.45]	[-2.70; 3.26]	[4.4; 8.3]	[1.1; 3.6]	[0.66; 1.48]	[0.46; 2.10]	[-0.74; 1.15]				
Suriname§ [1.54; 2.56] [1.05; 1.83] [-1.27; 0.03] [5.0; 10.4] [3.6; 7.7] [0.95; 1.66] [1.44; 2.56]* [0.03; 1.37]†		[0.61; 1.30]	[0.73; 3.36]	[-0.29; 2.48]	[12.0; 26.5]	[6.7; 19.2]	[0.57; 2.59]	[0.26; 3.34]	[-1.48; 2.32]				
\[\]: Sex ratio is outlying in 1990. \[\]: Sex ratio is outlying in 2021. \[*: The ratio of estimated to expected female mortality is significantly different from one. \[\†: Change is significantly different from zero. \[\]		[1.54; 2.56]	[1.05; 1.83]	[-1.27; 0.03]	[5.0; 10.4]	[3.6; 7.7]	[0.95; 1.66]	[1.44; 2.56]*	[0.03; 1.37]†				

Table 20 – continued from previous page

Table 20 – continued from previous page										
		Sex ratio 5q20		Sex-specific 5q20 in 2021 (per 1,000) Estimated/Expected female 5q						
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021		
Eswatini	1.12	0.81	-0.31	12.8	15.7	1.48	2.99	1.51		
	[0.79; 1.61]	[0.42; 1.60]	[-0.99; 0.59]	[7.8; 19.0]	[10.1; 22.6]	[0.57; 2.94]	[0.98; 6.41]	[-0.94; 5.13]		
Sweden	2.68 [2.37; 3.03]	2.25 [1.91; 2.65]	-0.43 [-0.92; 0.07]	2.9 [2.6; 3.3]	1.3 [1.1; 1.5]	1.00 [0.88; 1.13]	1.13 [0.96; 1.34]	0.13 [-0.08; 0.37]		
	3.31	2.74	-0.57	2.3	0.8	0.81	0.91	0.10		
Switzerland	[2.96; 3.69]	[2.24; 3.35]	[-1.21; 0.14]	[1.9; 2.6]	[0.7; 1.0]	[0.72; 0.92]*	[0.73; 1.15]	[-0.11; 0.36]		
Syria	1.76	3.64	1.88	8.3	2.3	1.44	1.23	-0.21		
Syria	[1.25; 2.49]	[2.14; 8.04]	[-1.42; 6.06]	[1.9; 27.7]	[0.3; 8.8]	[0.74; 2.09]	[0.66; 2.11]	[-1.13; 0.92]		
Tajikistan¶	1.23	1.42	0.19	3.0	2.1	2.19	1.80	-0.39		
K	[1.10; 1.36]	[1.25; 1.60]	[-0.03; 0.40]	[2.7; 3.3]	[1.9; 2.4]	[1.97; 2.44]*	[1.57; 2.06]*	[-0.72; -0.04]†		
Tanzania	1.17 [0.91; 1.50]	1.48 [0.88; 2.48]	0.32	11.5 [2.7; 31.5]	[1.8; 21.6]	1.71 [0.64; 2.65]	1.53 [0.40; 2.87]	-0.18 [-1.72; 1.63]		
	3.24	3.33	0.10	9.8	2.9	0.74	0.78	0.05		
Thailand¶	[2.57; 4.09]	[2.38; 4.65]	[-1.19; 1.57]	[7.9; 12.0]	[2.1; 4.0]	[0.56; 0.95]*	[0.55; 1.11]	[-0.27; 0.42]		
Timor Leste	1.95	0.65	-1.30	12.6	19.4	0.93	3.18	2.26		
Tillioi Leste	[1.36; 2.80]	[0.39; 1.08]	[-2.19; -0.54]†	[2.0; 43.7]	[3.2; 66.7]	[0.29; 1.76]	[0.81; 6.45]	[-0.45; 5.68]		
Togo	1.25	1.20	-0.06	10.9	9.1	1.79	1.94	0.15		
	[0.94; 1.70]	[0.68; 2.12]	[-0.78; 0.93]	[2.6; 27.7]	[2.2; 23.7]	[0.66; 2.67]	[0.51; 3.80]	[-1.57; 2.35]		
Tonga	2.75 [1.89; 4.02]	2.95 [1.56; 5.47]	0.19	8.2 [4.0; 13.6]	2.8 [1.2; 5.4]	0.96 [0.65; 1.41]	0.89 [0.46; 1.70]	-0.08 [-0.73; 0.82]		
	2.02	3.52	1.50	13.9	3.9	1.31	0.64	-0.67		
Trinidad and Tobago¶	[1.72; 2.36]	[2.45; 5.03]	[0.36; 3.01]†	[8.7; 22.0]	[2.3; 6.7]	[1.11; 1.55]*	[0.25; 1.00]	[-1.11; -0.26]†		
Tunisia	2.22	3.07	0.85	6.8	2.2	1.20	0.87	-0.33		
Tullisia	[1.63; 3.04]	[2.05; 4.60]	[-0.50; 2.52]	[4.3; 9.9]	[1.3; 3.5]	[0.87; 1.66]	[0.58; 1.31]	[-0.88; 0.23]		
Turkey	2.47	2.71	0.23	3.0	1.1	0.97	0.94	-0.02		
" "	[1.67; 3.65]	[2.14; 3.41] 1.50	[-1.09; 1.30] -0.07	[2.4; 3.7]	[0.9; 1.4]	[0.32; 1.52]	[0.75; 1.20]	[-0.61; 0.63] 0.09		
Turkmenistan¶§	1.56 [1.30; 1.88]	[0.96; 2.32]	[-0.70; 0.81]	6.8 [3.5; 12.1]	[2.3; 8.3]	[1.37; 2.04]*	[1.11; 2.77]*	[-0.67; 1.13]		
	2.59	2.66	0.07	4.6	1.7	1.03	1.01	-0.02		
Turks and Caicos Islands	[1.76; 3.80]	[1.23; 5.59]	[-1.84; 3.11]	[3.1; 6.2]	[0.9; 3.0]	[0.70; 1.52]	[0.48; 2.09]	[-0.77; 1.12]		
Tuvalu	2.72	3.06	0.34	8.6	2.8	0.88	0.87	-0.01		
74.14.4	[1.87; 3.97]	[1.47; 6.49]	[-1.80; 3.94]	[6.1; 11.4]	[1.5; 4.9]	[0.55; 1.34]	[0.40; 1.83]	[-0.70; 1.03]		
Uganda	0.90	1.47 [0.91; 2.35]	0.57	16.8 [4.0; 40.5]	11.4 [2.6; 28.4]	0.87	1.20 [0.36; 2.65]	0.33 [-0.72; 1.79]		
	3.69	3.03	-0.66	5.7	1.9	0.69	0.89	0.20		
Ukraine¶	[3.49; 3.88]	[2.77; 3.31]	[-0.98; -0.33]†	[5.3; 6.1]	[1.7; 2.1]	[0.64; 0.74]*	[0.81; 0.98]*	[0.11; 0.30]†		
United Arab Emirates	2.69	2.61	-0.08	3.2	1.2	1.00	1.01	0.01		
Officed Arab Emirates	[1.80; 3.97]	[1.23; 5.55]	[-2.09; 3.02]	[2.4; 4.1]	[0.6; 2.4]	[0.68; 1.49]	[0.48; 2.12]	[-0.75; 1.18]		
United Kingdom	2.92	2.39	-0.53	2.7	1.1	0.92	1.05	0.13		
	[2.74; 3.11] 3.22	[1.88; 3.02] 2.70	[-1.06; 0.13] -0.53	[2.2; 3.2] 8.1	[0.9; 1.4]	[0.86; 0.99]*	[0.83; 1.35]	[-0.10; 0.43] 0.16		
United States of America	[3.14; 3.31]	[2.19; 3.32]	[-1.05; 0.11]	[7.0; 9.3]	[2.4; 3.6]	[0.79; 0.87]*	[0.80; 1.23]	[-0.03; 0.40]		
¥1 0	2.51	3.76	1.26	9.0	2.4	1.07	0.70	-0.37		
Uruguay§	[2.16; 2.91]	[3.00; 4.75]	[0.40; 2.29]†	[7.5; 10.6]	[1.9; 3.0]	[0.92; 1.25]	[0.55; 0.89]*	[-0.61; -0.13]†		
Uzbekistan¶§	1.55	1.27	-0.28	4.3	3.3	1.73	2.10	0.38		
O Zookiiskiin g 3	[1.29; 1.88]	[1.02; 1.58]	[-0.70; 0.13]	[3.8; 4.8]	[2.9; 3.9]	[1.41; 2.10]*	[1.70; 2.60]*	[-0.18; 0.97]		
Vanuatu	2.58 [1.74; 3.86]	2.65 [1.32; 5.34]	0.07 [-1.85; 2.91]	8.7 [6.2; 11.6]	3.3 [1.8; 5.5]	0.99 [0.64; 1.52]	1.00 [0.48; 2.03]	0.01 [-0.72; 1.11]		
	2.98	5.75	2.77	26.7	4.6	0.87	0.15	-0.72; 1.11]		
Venezuela (Bolivarian Republic of)§	[2.43; 3.66]	[3.72; 9.09]	[0.59; 6.14]†	[14.2; 43.5]	[2.2; 8.6]	[0.70; 1.08]	[0.08; 0.45]*	[-0.93; -0.39]†		
Vietnam	2.35	2.42	0.07	4.8	2.0	1.09	1.10	0.01		
viculani	[1.63; 3.40]	[1.49; 3.94]	[-1.37; 1.78]	[2.6; 7.6]	[1.0; 3.4]	[0.68; 1.62]	[0.68; 1.78]	[-0.68; 0.82]		
Yemen	2.56	5.51	2.95	22.3	4.0	0.99	0.99	0.00		
	[1.72; 3.74] 0.76	[2.70; 11.30] 1.44	[-0.14; 8.84] 0.68	[16.0; 29.8] 14.1	[2.1; 7.0] 9.8	[0.64; 1.51] 1.06	[0.47; 2.15]	[-0.76; 1.21] 0.44		
Zambia	[0.62; 0.92]	[0.91; 2.29]	[0.12; 1.55]†	[4.8; 27.6]	[3.2; 19.5]	[0.77; 2.10]	[0.43; 2.76]	[-0.95; 1.72]		
<i>a</i> : 1.1	1.18	1.20	0.02	16.0	13.3	1.85	1.64	-0.21		
Zimbabwe	[0.92; 1.51]	[0.73; 2.01]	[-0.57; 0.86]	[5.6; 33.0]	[4.7; 27.2]	[0.79; 2.64]	[0.44; 3.40]	[-1.76; 1.86]		

Table 21: Estimates and 90% uncertainty intervals for sex ratios for 10q15 in 1990 and 2021, the change in sex ratios from 1990 to 2021, sex-specific 10q15 in 2021, and ratios of estimated to expected female 10q15 and their change from 1990 to 2021 for the world, UNICEF regions, and all countries. ¶: Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

	Sex ratio 10q15			Sex-specific 10q15 in 2021 (per 1,000) Es			stimated/Expected female 10q15		
	1990	2021	Change 1990–2021	Male	Female	1990	2021	Change 1990–2021	
World¶	1.29	1.65	0.36	13.2	8.0	1.25	1.04	-0.21	
South Asia¶	[1.23; 1.35] 0.82	[1.52; 1.75] 1.44	[0.22; 0.49]† 0.61	[12.7; 14.9] 10.9	[7.7; 9.2] 7.6	[1.16; 1.34]* 2.47	[0.89; 1.16] 1.62	[-0.38; -0.07]† -0.85	
	[0.76; 0.89]	[1.21; 1.70] 2.20	[0.38; 0.89]†	[9.3; 13.7] 6.0	[6.6; 9.3] 2.7	[2.18; 2.75]* 0.88	[0.99; 1.96]	[-1.51; -0.39]† 0.23	
Europe and Central Asia	[2.49; 2.75] 1.81	[2.12; 2.28] 2.72	[-0.57; -0.27]† 0.91	[5.9; 6.2] 12.7	[2.7; 2.8] 4.7	[0.71; 0.94]* 1.11	[1.07; 1.17]* 1.03	[0.16; 0.41]† -0.09	
Middle East and North Africa	[1.64; 2.04]	[2.35; 3.04]	[0.44; 1.27]†	[11.6; 14.8]	[4.3; 5.6]	[0.67; 1.32]	[0.87; 1.18]	[-0.35; 0.37]	
Sub-Saharan Africa	1.06 [0.98; 1.13]	1.30 [1.17; 1.42]	0.24 [0.09; 0.40]†	25.2 [23.4; 30.7]	19.3 [17.8; 24.2]	0.90 [0.80; 1.01]	0.96 [0.78; 1.16]	0.06 [-0.15; 0.27]	
Latin America and Caribbean¶§	2.34 [2.22; 2.45]	3.33 [3.05; 3.54]	0.99 [0.69; 1.24]†	17.6 [16.8; 18.9]	5.3 [5.0; 5.9]	0.78 [0.70; 0.88]*	0.59 [0.51; 0.68]*	-0.19 [-0.32; -0.08]†	
East Asia and Pacific	1.85 [1.62; 2.09]	2.29 [1.88; 2.70]	0.44	8.0 [6.2; 11.5]	3.5 [2.8; 5.1]	1.14 [0.98; 1.33]	1.05	-0.09 [-0.44; 0.19]	
North America¶	2.98	2.55	-0.43	11.6	4.5	0.82	0.99	0.17	
Afghanistan§	[2.92; 3.03] 0.83	[2.21; 2.91]	[-0.77; -0.06]† -0.21	[10.6; 12.7]	[4.0; 5.2] 37.5	0.99	[0.87; 1.14]	[0.04; 0.32]†	
Albania	[0.63; 1.08] 2.57	[0.44; 0.88]	[-0.52; 0.12] -0.85	[11.9; 47.5] 4.4	[19.6; 74.2] 2.6	[0.69; 1.79] 0.97	[1.07; 5.06]* 1.39	[-0.10; 4.03] 0.42	
	[2.33; 2.84] 1.66	[1.44; 2.03] 1.80	[-1.23; -0.45]† 0.14	[3.9; 5.1] 6.9	[2.2; 3.0] 3.8	[0.88; 1.08]	[1.17; 1.66]* 1.38	[0.17; 0.70]† -0.07	
Algeria¶§	[1.40; 1.96] 2.58	[1.60; 2.02] 2.89	[-0.22; 0.49] 0.31	[6.4; 7.5] 4.5	[3.5; 4.2] 1.6	[1.21; 1.74]* 0.97	[1.23; 1.55]* 0.84	[-0.39; 0.22] -0.12	
Andorra	[1.97; 3.31]	[1.77; 4.55]	[-1.08; 2.11]	[3.4; 5.9]	[1.0; 2.4]	[0.75; 1.26]	[0.53; 1.33]	[-0.57; 0.43]	
Angola	0.72 [0.55; 0.95]	1.74 [1.21; 2.48]	1.01 [0.41; 1.79]†	37.7 [28.1; 49.1]	21.7 [15.4; 30.1]	1.01 [0.75; 1.55]	0.57 [0.32; 1.27]	-0.44 [-0.95; 0.25]	
Anguilla	2.47 [1.88; 3.19]	2.50 [1.50; 4.07]	0.03 [-1.23; 1.75]	6.9 [5.2; 9.1]	2.8 [1.8; 4.2]	1.00 [0.76; 1.32]	1.02 [0.62; 1.64]	0.02 [-0.51; 0.68]	
Antigua and Barbuda	2.26 [1.75; 2.87]	2.67 [1.71; 4.07]	0.41 [-0.77; 1.89]	8.3 [5.0; 13.5]	3.1 [1.8; 5.5]	0.86 [0.31; 1.27]	0.93 [0.59; 1.49]	0.08 [-0.48; 0.86]	
Argentina¶	2.04	2.54	0.49	9.5	3.7	1.22	1.00	-0.22	
Armenia	[1.95; 2.13] 2.36	[2.25; 2.84] 3.09	[0.20; 0.81]† 0.74	[8.7; 10.2] 7.7	[3.3; 4.2] 2.5	[1.16; 1.28]* 1.08	[0.89; 1.13]	[-0.34; -0.08]† -0.26	
	[2.12; 2.61] 2.73	[2.57; 3.72] 2.43	[0.15; 1.41]† -0.29	[6.7; 8.8] 5.4	[2.1; 3.0] 2.2	[0.97; 1.20] 0.92	[0.68; 0.98]*	[-0.45; -0.07]† 0.09	
Australia	[2.57; 2.89]	[2.13; 2.77] 2.47	[-0.64; 0.07]	[5.0; 5.9] 4.2	[2.0; 2.5]	[0.86; 0.98]* 0.75	[0.88; 1.15]	[-0.05; 0.24] 0.21	
Austria¶	[3.04; 3.57]	[2.09; 2.91]	[-1.30; -0.31]†	[3.7; 4.7]	[1.4; 2.0]	[0.69; 0.82]*	[0.81; 1.14]	[0.05; 0.40]†	
Azerbaijan	2.21 [2.05; 2.37]	2.20 [1.99; 2.43]	-0.01 [-0.28; 0.27]	10.9 [9.9; 11.9]	5.0 [4.5; 5.5]	1.15 [1.06; 1.23]*	1.13 [1.02; 1.25]*	-0.02 [-0.15; 0.13]	
Bahamas	2.11 [1.72; 2.58]	3.41 [2.47; 4.57]	1.30 [0.22; 2.55]†	15.7 [12.6; 19.2]	4.6 [3.5; 6.1]	1.15 [0.92; 1.43]	0.72 [0.51; 1.01]	-0.43 [-0.79; -0.06]†	
Bahrain	2.18 [1.78; 2.66]	1.71 [1.41; 2.08]	-0.47 [-1.04; 0.08]	5.1 [4.2; 6.0]	3.0 [2.4; 3.7]	1.14 [0.93; 1.40]	1.42 [1.17; 1.72]*	0.28 [-0.08; 0.65]	
Bangladesh¶§	0.84	1.34	0.51	9.3	6.9	2.59	1.91	-0.68	
Barbados	[0.72; 0.97]	[1.03; 1.75] 1.90	[0.16; 0.92]† -0.19	[7.3; 11.2] 7.5	[5.4; 8.6] 3.9	[2.07; 3.13]* 1.18	[1.47; 2.48]* 1.31	[-1.39; 0.10] 0.13	
	[1.71; 2.55]	[1.22; 2.89]	[-1.04; 0.91] -0.49	[4.1; 13.6] 5.6	[2.0; 7.7]	[0.96; 1.45] 0.74	[0.85; 2.04]	[-0.44; 0.92] 0.15	
Belarus¶	[3.05; 3.48] 2.72	[2.29; 3.33] 2.21	[-1.01; 0.12] -0.50	[4.6; 6.7] 3.6	[1.7; 2.5] 1.6	[0.69; 0.80]* 0.92	[0.74; 1.07] 1.07	[-0.01; 0.34] 0.15	
Belgium	[2.52; 2.92]	[1.88; 2.60]	[-0.90; -0.07]†	[3.2; 4.0]	[1.4; 1.9]	[0.85; 1.00]*	[0.90; 1.27]	[-0.04; 0.36]	
Belize	2.51 [1.98; 3.20]	2.75 [2.03; 3.65]	0.23 [-0.77; 1.31]	16.7 [12.5; 22.2]	6.1 [4.4; 8.6]	1.00 [0.78; 1.28]	0.87 [0.59; 1.21]	-0.13 [-0.54; 0.28]	
Benin	1.08 [0.89; 1.30]	1.26 [0.93; 1.68]	0.18 [-0.24; 0.64]	24.3 [14.8; 40.9]	19.3 [12.5; 31.6]	1.29 [0.76; 2.03]	1.33 [0.58; 2.30]	0.04 [-1.05; 1.17]	
Bhutan	1.16 [0.92; 1.45]	1.82 [1.17; 2.77]	0.66 [-0.07; 1.66]	15.2 [7.7; 31.3]	8.3 [4.2; 18.1]	0.88 [0.52; 1.76]	1.24 [0.47; 2.06]	0.36 [-0.76; 1.28]	
Bolivia (Plurinational State of)	1.33 [1.11; 1.58]	2.01 [1.30; 3.03]	0.68 [-0.09; 1.76]	12.7 [5.5; 30.9]	6.4 [2.9; 15.0]	1.32 [0.77; 1.83]	1.17 [0.45; 1.91]	-0.15 [-1.02; 0.79]	
Bosnia and Herzegovina	2.64	3.09	0.45	6.2	2.0	0.96	0.81	-0.15	
Botswana	[2.38; 2.93]	[2.32; 4.07]	[-0.38; 1.46] 1.06	[4.2; 8.9] 14.2	[1.3; 3.0] 6.9	[0.86; 1.07]	[0.61; 1.07]	[-0.38; 0.12] 0.20	
Brazil¶§	[0.77; 1.29] 2.97	[1.38; 3.00] 4.33	[0.31; 2.04]† 1.35	[8.1; 24.4] 19.4	[3.9; 12.6] 4.5	[0.63; 1.78] 0.77	[0.63; 1.76]	[-0.76; 0.90] -0.24	
	[2.64; 3.36] 2.46	[3.58; 5.20] 2.52	[0.51; 2.28]† 0.06	[18.0; 20.8] 11.4	[3.8; 5.3] 4.5	[0.68; 0.88]*	[0.44; 0.66]* 1.02	[-0.38; -0.09]† 0.02	
British Virgin Islands	[1.87; 3.17] 2.59	[1.49; 4.08] 1.64	[-1.23; 1.72] -0.94	[8.4; 15.0]	[2.9; 7.0] 2.3	[0.76; 1.31]	[0.61; 1.69]	[-0.50; 0.73] 0.56	
Brunei	[2.08; 3.21]	[1.14; 2.36]	[-1.77; -0.03]†	[2.7; 5.2]	[1.6; 3.3]	[0.70; 1.14]	[1.02; 2.08]*	[0.05; 1.23]†	
Bulgaria	2.34 [2.18; 2.52]	2.32 [2.05; 2.62]	-0.03 [-0.35; 0.31]	8.0 [7.4; 8.6]	3.4 [3.1; 3.8]	1.06 [0.99; 1.15]	1.09 [0.97; 1.24]	0.03 [-0.12; 0.19]	
Burkina Faso	0.81 [0.69; 0.97]	1.47 [0.97; 2.18]	0.65 [0.13; 1.38]†	21.1 [10.1; 43.8]	14.4 [6.6; 31.3]	1.42 [0.96; 2.17]	1.36 [0.48; 2.32]	-0.07 [-1.23; 1.02]	
Burundi	0.74 [0.56; 0.97]	1.79 [1.26; 2.53]	1.06 [0.44; 1.82]†	21.7 [12.0; 41.8]	12.1 [7.1; 22.9]	1.00	1.06	0.06	
Cambodia	1.29	2.05	0.75	10.7	5.2	0.67	1.19	0.52	
Cameroon	[1.07; 1.55] 1.14	[1.35; 3.01] 1.24	[-0.01; 1.74] 0.10	[5.5; 21.8] 32.1	[2.6; 11.3] 26.0	[0.48; 1.04] 1.10	[0.70; 1.84] 0.96	[-0.13; 1.20] -0.14	
Canada	[0.94; 1.37] 2.91	[0.90; 1.68]	[-0.32; 0.59] -0.91	[20.5; 48.4] 6.3	[16.4; 40.0] 3.1	[0.70; 1.80] 0.85	[0.51; 2.03]	[-0.97; 1.01] 0.40	
¶: Sex ratio is outlying in 1990. §: Sex	[2.76; 3.07]	[1.77; 2.27]	[-1.19; -0.60]†	[5.8; 6.8]	[2.8; 3.5]	[0.81; 0.90]*	[1.10; 1.42]*	[0.24; 0.57]†	

Table 21 – continued from previous page

	Table 21 - continued from previous page Sex ratio 10q15 Sex-specific 10q15 in 2021 (per 1,000) Estimated/Expected female 10q15										
	1990	2021	Change	Male	Female	1990	2021	Change			
	2.20	2.17	1990-2021 -0.03	7.7	3.5	1.14	1.19	1990-2021 0.05			
Cape Verde	[1.75; 2.74]	[1.69; 2.74]	[-0.78; 0.70]	[5.6; 10.3]	[2.7; 4.7]	[0.90; 1.43]	[0.93; 1.49]	[-0.34; 0.44]			
Central African Republic	0.86 [0.72; 1.03]	1.15 [0.70; 1.92]	0.29 [-0.20; 1.09]	41.0 [15.8; 109.0]	35.8 [12.7; 101.3]	1.01 [0.75; 1.55]	1.19 [0.53; 3.27]	0.17 [-0.69; 2.29]			
Chad	1.54	1.28	-0.26	37.7	29.3	1.22	0.74	-0.48			
Chile	[1.30; 1.84] 2.94	[0.89; 1.83]	[-0.77; 0.35] -0.41	[20.9; 69.3] 8.1	[16.6; 53.9] 3.2	[0.86; 1.80] 0.86	[0.42; 1.80] 1.00	[-1.13; 0.65] 0.15			
	[2.77; 3.12] 1.89	[2.16; 2.97] 2.48	[-0.83; 0.04] 0.59	[7.4; 8.8] 5.2	[2.8; 3.6]	[0.80; 0.92]*	[0.86; 1.18] 1.00	[-0.01; 0.33] -0.25			
China	[1.53; 2.35]	[1.67; 3.56]	[-0.38; 1.75]	[2.7; 10.1]	[1.1; 4.2]	[0.98; 1.57]	[0.69; 1.46]	[-0.72; 0.30]			
Colombia¶§	2.56 [2.05; 3.14]	3.80 [3.13; 4.57]	1.24 [0.32; 2.16]†	16.6 [15.4; 17.9]	4.4 [3.7; 5.2]	0.38 [0.28; 0.62]*	0.64 [0.53; 0.78]*	0.26 [0.00; 0.44]			
Comoros	1.50 [1.18; 1.89]	1.81 [1.18; 2.74]	0.31 [-0.48; 1.30]	9.9 [6.2; 15.6]	5.5 [3.2; 9.2]	0.90 [0.45; 1.60]	1.35 [0.86; 2.13]	0.45 [-0.42; 1.38]			
Congo	0.81	1.68	0.87	19.0	11.3	0.94	1.24	0.31			
Democratic Republic of the Congo	[0.63; 1.05] 0.94	[1.06; 2.61] 1.01	[0.16; 1.82]† 0.07	[9.4; 38.8] 36.2	[5.4; 24.5] 35.9	[0.69; 1.40] 0.87	[0.39; 2.23]	[-0.68; 1.33] 0.07			
	[0.73; 1.23]	[0.70; 1.46]	[-0.38; 0.59] -0.10	[19.6; 69.3] 12.8	[18.9; 70.3] 4.9	[0.60; 1.46]	[0.53; 2.33]	[-0.67; 1.46] 0.18			
Cook Islands¶	[2.10; 3.38]	[1.62; 3.97]	[-1.33; 1.46]	[6.7; 32.2]	[2.4; 13.5]	[0.38; 0.97]*	[0.36; 1.49]	[-0.39; 0.88]			
Costa Rica	2.18 [1.92; 2.49]	2.97 [2.44; 3.58]	0.79 [0.17; 1.46]†	9.8 [8.6; 11.1]	3.3 [2.7; 4.0]	1.16 [1.02; 1.32]*	0.86 [0.71; 1.04]	-0.30 [-0.53; -0.07]†			
Cote d'Ivoire	1.05 [0.87; 1.25]	1.26 [0.83; 1.90]	0.21 [-0.27; 0.90]	28.9 [14.4; 58.6]	22.9 [11.0; 49.0]	1.21 [0.77; 1.95]	1.04 [0.45; 2.42]	-0.17 [-1.13; 1.28]			
Croatia¶	3.34	2.99	-0.36	5.9	2.0	0.74	0.82	0.07			
Cuba¶	[3.03; 3.68] 1.67	[2.52; 3.50] 1.90	[-0.93; 0.23] 0.23	[5.3; 6.5] 6.1	[1.7; 2.3]	[0.67; 0.82]* 1.49	[0.69; 0.97]*	[-0.07; 0.24] -0.18			
	[1.58; 1.76] 2.65	[1.64; 2.19] 2.58	[-0.04; 0.53] -0.06	[5.6; 6.7] 4.2	[2.9; 3.6] 1.6	[1.40; 1.58]* 0.95	[1.14; 1.50]* 0.94	[-0.38; 0.03] -0.01			
Cyprus	[2.13; 3.26]	[1.79; 3.66]	[-1.13; 1.18]	[3.3; 5.3]	[1.2; 2.3]	[0.77; 1.18]	[0.66; 1.34]	[-0.39; 0.44]			
Czech Republic	2.64 [2.46; 2.84]	2.49 [2.19; 2.83]	-0.15 [-0.52; 0.24]	4.9 [4.5; 5.3]	2.0 [1.8; 2.2]	0.96 [0.88; 1.03]	0.97 [0.86; 1.11]	0.02 [-0.13; 0.18]			
Denmark	2.45 [2.23; 2.69]	2.15 [1.85; 2.51]	-0.30 [-0.69; 0.12]	3.3 [2.9; 3.6]	1.5 [1.3; 1.7]	1.03 [0.94; 1.14]	1.10 [0.93; 1.30]	0.06 [-0.14; 0.29]			
Djibouti	0.90	1.54	0.63	30.6	19.9	1.01	0.96	-0.05			
	[0.69; 1.17] 2.60	[0.93; 2.50]	[-0.05; 1.62] 0.03	[21.7; 41.0] 9.2	[13.2; 28.9] 3.5	[0.65; 2.09]	[0.38; 2.20] 0.95	[-1.06; 1.11] -0.01			
Dominica	[2.02; 3.32] 2.18	[1.53; 4.34] 2.52	[-1.32; 1.87] 0.34	[5.0; 16.6] 17.2	[1.7; 7.1] 6.8	[0.73; 1.24] 1.01	[0.55; 1.64] 0.88	[-0.51; 0.73] -0.13			
Dominican Republic	[1.75; 2.69]	[1.55; 3.90]	[-0.82; 1.85]	[8.6; 33.0]	[3.2; 14.4]	[0.66; 1.32]	[0.31; 1.53]	[-0.79; 0.64]			
Ecuador¶	1.93 [1.83; 2.04]	2.54 [2.24; 2.86]	0.61 [0.29; 0.94]†	12.2 [11.3; 13.1]	4.8 [4.3; 5.4]	1.21 [1.13; 1.30]*	1.00 [0.88; 1.14]	-0.21 [-0.35; -0.06]†			
Egypt¶	1.36 [1.21; 1.54]	2.36 [1.90; 2.91]	1.00 [0.50; 1.57]†	10.7 [9.2; 12.3]	4.5 [3.7; 5.5]	1.78 [1.56; 2.01]*	1.05 [0.85; 1.31]	-0.72 [-1.03; -0.39]†			
El Salvador¶§	4.81	4.90	0.09	17.0	3.5	0.28	0.49	0.21			
	[4.40; 5.25] 0.91	[4.00; 5.99] 1.61	[-0.92; 1.23] 0.70	[15.0; 19.2] 29.7	[2.8; 4.3] 18.4	[0.24; 0.33]*	[0.40; 0.60]*	[0.10; 0.33]† -0.05			
Equatorial Guinea	[0.71; 1.18] 0.81	[0.98; 2.57] 1.96	[-0.01; 1.67] 1.15	[21.5; 39.4] 26.7	[12.3; 27.2] 13.6	[0.65; 2.03]	[0.40; 2.05]	[-1.01; 0.98] -0.05			
Eritrea	[0.62; 1.05]	[1.14; 3.21]	[0.29; 2.42]†	[19.2; 35.4]	[8.9; 20.4]	[0.69; 1.94]	[0.37; 1.90]	[-0.96; 0.90]			
Estonia¶	3.12 [2.80; 3.48]	1.77 [1.37; 2.26]	-1.36 [-1.89; -0.76]†	4.4 [3.5; 5.4]	2.5 [2.0; 3.1]	0.74 [0.65; 0.83]*	1.36 [1.06; 1.74]*	0.62 [0.31; 1.02]†			
Ethiopia¶	1.27 [1.07; 1.51]	1.90 [1.30; 2.72]	0.63	20.9 [11.8; 38.2]	11.0 [6.0; 20.7]	0.66 [0.55; 0.81]*	1.01 [0.41; 1.68]	0.35 [-0.28; 1.04]			
Federated States of Micronesia	2.21	2.41	0.20	15.4	6.4	0.99	1.02	0.03			
Fiji§	[1.70; 2.85] 1.95	[1.45; 3.88] 1.50	[-0.99; 1.75] -0.44	[11.3; 20.2] 12.0	[4.1; 9.8] 8.0	[0.71; 1.34] 1.05	[0.61; 1.69] 1.68	[-0.51; 0.75] 0.63			
-	[1.51; 2.49]	[1.12; 1.96]	[-1.12; 0.22] -0.65	[9.7; 14.4] 6.5	[6.3; 10.0] 2.8	[0.43; 1.49]	[1.27; 2.24]* 1.08	[0.00; 1.45]† 0.24			
Finland	[2.71; 3.25]	[2.02; 2.66]	[-1.06; -0.23]†	[6.0; 7.2]	[2.5; 3.2]	[0.77; 0.93]*	[0.94; 1.24]	[0.08; 0.42]†			
France	3.00 [2.88; 3.13]	2.48 [2.19; 2.82]	-0.52 [-0.84; -0.17]†	4.0 [3.7; 4.3]	1.6 [1.4; 1.8]	0.85 [0.81; 0.89]*	0.95 [0.83; 1.09]	0.11 [-0.02; 0.25]			
Gabon	1.34 [1.08; 1.67]	1.68 [1.09; 2.57]	0.34 [-0.38; 1.29]	18.6 [8.8; 41.9]	11.1 [5.1; 26.1]	1.19 [0.59; 1.94]	1.17 [0.39; 2.15]	-0.02 [-1.16; 1.16]			
The Gambia	0.94 [0.74; 1.21]	1.80 [1.30; 2.48]	0.86 [0.27; 1.57]†	23.3 [17.7; 30.3]	12.9 [9.4; 17.7]	1.03 [0.65; 2.05]	1.15 [0.70; 1.72]	0.12 [-0.87; 0.75]			
Georgia	2.79	2.64	-0.15	10.1	3.8	0.90	0.96	0.05			
	[2.38; 3.26] 2.60	[2.19; 3.19] 2.25	[-0.81; 0.54] -0.35	[9.2; 11.2] 3.5	[3.3; 4.5] 1.6	[0.77; 1.06] 0.97	[0.79; 1.15] 1.05	[-0.18; 0.29] 0.08			
Germany	[2.50; 2.70] 1.14	[2.11; 2.40] 1.54	[-0.52; -0.17]† 0.39	[3.4; 3.7] 17.4	[1.5; 1.7] 11.3	[0.93; 1.01] 0.95	[0.95; 1.16] 1.36	[-0.03; 0.20] 0.41			
Ghana	[0.90; 1.46]	[1.04; 2.25]	[-0.22; 1.17]	[9.5; 34.2]	[6.0; 23.7]	[0.56; 2.05]	[0.55; 2.26]	[-0.93; 1.39]			
Greece	3.14 [2.90; 3.38]	[2.35; 3.28]	-0.36 [-0.85; 0.19]	4.0 [3.6; 4.4]	1.4 [1.2; 1.7]	0.80 [0.74; 0.87]*	0.86 [0.72; 1.02]	0.05 [-0.10; 0.23]			
Grenada	2.22	2.51	0.29	8.0	3.2	1.11	0.98 [0.62; 1.57]	-0.13 [-0.63; 0.53]			
Guatemala¶	[1.72; 2.83]	[1.64; 3.82]	[-0.82; 1.74] 1.02	[5.3; 12.1] 21.0	[1.8; 5.6] 7.8	[0.85; 1.45]	0.83	-0.40			
_	[1.60; 1.75] 0.99	[2.16; 3.29] 1.08	[0.49; 1.63]† 0.09	[15.9; 27.5] 32.1	[5.8; 10.5] 29.8	[1.12; 1.33]*	[0.58; 1.06]	[-0.66; -0.14]† -0.03			
Guinea	[0.82; 1.19]	[0.74; 1.59]	[-0.33; 0.63] 0.44	[17.2; 59.4] 26.5	[15.9; 54.3] 21.0	[0.72; 1.75]	[0.52; 2.55]	[-0.91; 1.54] 0.42			
Guinea-Bissau	[0.65; 1.07]	1.26 [0.85; 1.88]	[-0.07; 1.08]	[19.3; 35.4]	[14.8; 29.2]	[0.68; 1.99]	[0.64; 2.52]	[-0.62; 1.47]			
Guyana¶	1.91 [1.71; 2.15]	2.18 [1.57; 2.95]	0.26 [-0.40; 1.05]	22.6 [13.7; 36.6]	10.4 [6.4; 17.1]	1.24 [1.08; 1.40]*	0.93 [0.34; 1.49]	-0.31 [-0.93; 0.27]			
Haiti	0.76	1.45 [0.99; 2.11]	0.69	20.5	14.1 [8.1; 24.6]	1.33	1.43	0.10			
Honduras	[0.63; 0.94]	2.56	[0.18; 1.37]†	[12.1; 35.2] 14.3	5.6	[0.88; 2.31] 0.96	[0.52; 2.33]	[-1.25; 1.13] 0.02			
	[1.59; 2.67] 2.56	[1.54; 4.02] 2.26	[-0.74; 2.05] -0.31	[10.5; 18.6] 4.6	[3.6; 8.6] 2.0	[0.51; 1.37] 0.98	[0.60; 1.61] 1.07	[-0.54; 0.79] 0.09			
Hungary	[2.39; 2.75]	[1.91; 2.66]	[-0.70; 0.13]	[4.1; 5.1]	[1.7; 2.4] 1.4	[0.91; 1.05]	[0.90; 1.26]	[-0.09; 0.30] -0.05			
Iceland	2.65 [2.13; 3.27]	2.67 [1.82; 3.83]	0.02 [-1.08; 1.33]	3.8 [2.9; 5.0]	[0.9; 2.1]	[0.75; 1.17]	[0.61; 1.29]	[-0.42; 0.40]			
¶: Sex ratio is outlying in 1990. §: Sex i	ratio is outlying in	2021. *: The rati	o of estimated to exp	ected female morta	ality is significantly differe	nt from one. †: Ch	ange is significant	ly different from zero.			

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

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Table 21 – continued from previous page Sex ratio 10q15 Sex-specific 10q15 in 2021 (per 1,000) Estimated/Expected female 10q15											
	1990	2021	Change	Male Male	Female	1990	2021	Change			
India¶§	0.77	1.41	1990-2021 0.64	9.8	7.0	2.82	1.79	1990–2021 -1.03			
Indonesia¶	[0.70; 0.85] 1.44	[1.16; 1.71] 2.35	[0.38; 0.95]† 0.92	[8.4; 11.3] 13.3	[5.9; 8.2] 5.7	[2.46; 3.19]* 1.60	[1.47; 2.17]* 1.00	[-1.52; -0.49]† -0.60			
	[1.19; 1.72] 1.58	[1.57; 3.47] 2.53	[0.04; 2.09]†	[6.6; 27.8] 13.8	[2.9; 12.0] 5.4	[1.29; 1.99]* 0.95	[0.48; 1.53] 0.96	[-1.25; 0.04] 0.01			
Iran (Islamic Republic of)	[1.21; 2.04] 2.36	[1.94; 3.24] 2.30	[0.18; 1.78]† -0.06	[10.4; 18.2] 11.4	[4.0; 7.5] 4.9	[0.44; 1.35] 1.01	[0.74; 1.26] 1.08	[-0.47; 0.60] 0.07			
Iraq	[1.83; 3.01] 2.84	[1.42; 3.62] 2.52	[-1.20; 1.40] -0.32	[8.5; 14.8]	[3.2; 7.4] 1.2	[0.77; 1.31]	[0.67; 1.75]	[-0.45; 0.79] 0.04			
Ireland	[2.57; 3.14]	[2.14; 2.96]	[-0.80; 0.19]	[2.6; 3.5]	[1.0; 1.4]	[0.81; 0.99]*	[0.79; 1.13]	[-0.14; 0.25]			
Israel	2.52 [2.29; 2.78]	2.78 [2.44; 3.16]	0.26 [-0.16; 0.69]	4.0 [3.7; 4.3]	1.4 [1.3; 1.6]	1.00 [0.90; 1.10]	0.85 [0.74; 0.98]*	-0.15 [-0.29; 0.01]			
Italy	3.29 [3.15; 3.44]	2.49 [2.18; 2.83]	-0.80 [-1.14; -0.43]†	2.8 [2.6; 3.0]	1.1 [1.0; 1.3]	0.77 [0.73; 0.80]*	0.94 [0.81; 1.10]	0.18 [0.04; 0.34]†			
Jamaica	2.37 [1.81; 3.06]	2.86 [1.78; 4.39]	0.49 [-0.80; 2.12]	12.7 [9.6; 16.5]	4.5 [3.0; 6.7]	0.99 [0.74; 1.32]	0.89 [0.56; 1.40]	-0.10 [-0.58; 0.46]			
Japan	2.59 [2.50; 2.68]	1.79 [1.70; 1.89]	-0.80 [-0.93; -0.67]†	3.7 [3.6; 3.9]	2.1 [2.0; 2.2]	0.96 [0.92; 1.00]	1.31 [1.21; 1.43]*	0.35 [0.25; 0.48]†			
Jordan	2.42 [1.90; 3.06]	2.36 [1.51; 3.57]	-0.06 [-1.14; 1.27]	9.4 [7.0; 12.2]	4.0 [2.7; 5.8]	1.00 [0.79; 1.28]	1.07 [0.70; 1.65]	0.07 [-0.41; 0.68]			
Kazakhstan	2.12	2.04	-0.08	9.7	4.8	1.11	1.24	0.13			
Kenya	[2.02; 2.22] 1.16	[1.90; 2.19] 1.57	[-0.25; 0.10] 0.41	[9.3; 10.1] 19.2	[4.5; 5.0] 12.2	[1.05; 1.18]* 1.70	[1.15; 1.34]* 1.35	[0.02; 0.25]† -0.35			
Kiribati	[0.95; 1.41] 1.82	[1.06; 2.26] 2.22	[-0.18; 1.15] 0.39	[10.0; 36.6] 21.4	[6.1; 24.0] 9.7	[0.87; 2.29] 0.98	[0.48; 2.18] 0.99	[-1.40; 0.83] 0.01			
Democratic People's Republic of	[1.41; 2.33]	[1.34; 3.55] 2.15	[-0.65; 1.79] -0.09	[15.8; 28.2] 11.5	[6.4; 14.5] 5.4	[0.50; 1.45] 1.00	[0.55; 1.73]	[-0.58; 0.83] 0.17			
Korea	[1.73; 2.88] 2.32	[1.34; 3.37] 1.56	[-1.17; 1.25] -0.75	[8.5; 15.1] 3.5	[3.6; 8.0] 2.2	[0.74; 1.34] 1.07	[0.73; 1.86] 1.50	[-0.40; 0.92] 0.44			
Republic of Korea	[2.03; 2.64]	[1.31; 1.86] 2.53	[-1.17; -0.33]† 0.16	[3.2; 3.8]	[2.0; 2.5]	[0.93; 1.22]	[1.25; 1.82]* 1.01	[0.13; 0.78]† 0.01			
Kosovo	[1.81; 3.06]	[1.50; 4.12]	[-1.11; 1.88]	[6.2; 11.0]	[2.1; 5.1]	[0.74; 1.34]	[0.61; 1.66]	[-0.52; 0.72]			
Kuwait	5.70 [4.82; 6.74]	2.76 [2.20; 3.41]	-2.94 [-4.12; -1.82]†	7.0 [5.9; 8.2]	2.6 [2.0; 3.2]	0.89 [0.75; 1.06]	0.91 [0.73; 1.14]	0.02 [-0.23; 0.29]			
Kyrgyzstan¶§	1.90 [1.75; 2.05]	1.59 [1.46; 1.74]	-0.31 [-0.51; -0.10]†	9.1 [8.5; 9.7]	5.7 [5.3; 6.1]	1.31 [1.20; 1.42]*	1.59 [1.45; 1.75]*	0.28 [0.10; 0.47]†			
Lao People's Democratic Republic	1.29 [1.03; 1.61]	1.40 [0.90; 2.14]	0.11 [-0.51; 0.93]	13.6 [7.1; 26.5]	9.7 [4.9; 20.1]	0.75 [0.43; 1.71]	1.66 [0.73; 2.76]	0.90 [-0.39; 2.02]			
Latvia¶	3.25 [2.96; 3.57]	2.43 [1.99; 2.94]	-0.83 [-1.37; -0.23]†	7.9 [6.9; 8.9]	3.2 [2.7; 3.9]	0.69 [0.62; 0.77]*	1.05 [0.86; 1.27]	0.35 [0.15; 0.59]†			
Lebanon	11.95 [9.28; 15.39]	2.52 [1.51; 3.96]	-9.43 [-13.13; -6.34]†	7.6 [5.7; 9.8]	3.0 [1.9; 4.6]	1.00 [0.77; 1.30]	1.01 [0.63; 1.63]	0.02 [-0.48; 0.68]			
Lesotho	1.21 [0.96; 1.51]	1.45 [1.00; 2.08]	0.24	31.4 [17.1; 56.4]	21.7 [12.4; 38.8]	0.87	0.81 [0.39; 2.00]	-0.06 [-1.06; 1.17]			
Liberia	4.60	1.19	-3.41	30.2	25.4	0.91	0.99	0.08			
Libya	[3.58; 5.98]	[0.85; 1.67]	[-4.82; -2.24]† 0.12	[19.8; 46.9] 8.5	[16.2; 40.3]	[0.60; 1.72]	[0.52; 2.19]	[-0.86; 1.31]			
Lithuania¶	[1.87; 3.10]	[1.52; 4.02] 2.72	[-1.14; 1.73] -0.61	[6.3; 10.9] 7.6	[2.1; 5.2] 2.8	[0.77; 1.30] 0.71	[0.62; 1.62] 0.94	[-0.50; 0.68] 0.22			
Luxembourg	[3.05; 3.62] 2.59	[2.29; 3.20] 2.29	[-1.13; -0.05]† -0.29	[6.9; 8.5]	[2.4; 3.3]	[0.65; 0.78]* 0.95	[0.79; 1.11]	[0.06; 0.41]† 0.07			
	[2.11; 3.15] 2.10	[1.61; 3.22] 1.96	[-1.22; 0.75] -0.14	[2.3; 4.2] 4.1	[0.9; 2.0] 2.1	[0.77; 1.17] 1.19	[0.72; 1.47] 1.22	[-0.31; 0.56] 0.03			
Macedonia	[1.80; 2.44] 1.01	[1.54; 2.48] 1.31	[-0.69; 0.46] 0.30	[3.4; 5.0] 24.8	[1.7; 2.6] 19.0	[1.03; 1.39]* 1.29	[0.96; 1.55] 1.16	[-0.29; 0.39] -0.13			
Madagascar	[0.85; 1.20]	[0.86; 1.97]	[-0.21; 0.98] 0.75	[11.4; 57.4] 22.5	[8.7; 45.4] 13.7	[0.81; 2.01]	[0.45; 2.47]	[-1.20; 1.32] 0.13			
Malawi	[0.77; 1.04]	[1.19; 2.27]	[0.27; 1.40]†	[13.9; 35.9]	[8.3; 22.6]	[0.78; 1.64]	[0.47; 1.89]	[-0.77; 0.88]			
Malaysia	2.51 [2.24; 2.82]	2.43 [2.29; 2.57]	-0.08 [-0.42; 0.22]	7.7 [7.4; 8.1]	3.2 [3.0; 3.4]	0.96 [0.85; 1.09]	1.04 [0.98; 1.11]	0.08 [-0.06; 0.21]			
Maldives¶	1.30 [1.08; 1.57]	1.94 [1.34; 2.75]	0.64 [-0.04; 1.49]	4.5 [3.3; 5.8]	2.3 [1.6; 3.3]	1.86 [1.51; 2.27]*	1.24 [0.87; 1.76]	-0.61 [-1.19; 0.03]			
Mali	0.83 [0.70; 0.99]	1.24 [0.91; 1.68]	0.41 [0.04; 0.88]†	23.5 [15.3; 36.8]	18.9 [12.1; 30.4]	1.42 [0.91; 2.21]	1.44 [0.63; 2.38]	0.01 [-1.14; 1.10]			
Malta	2.63 [2.06; 3.32]	2.65 [1.83; 3.74]	0.02	3.1 [2.2; 4.2]	1.2 [0.8; 1.7]	0.94 [0.75; 1.20]	0.90 [0.62; 1.30]	-0.05 [-0.43; 0.42]			
Marshall Islands	2.23 [1.71; 2.88]	2.38 [1.42; 3.77]	0.15 [-1.04; 1.68]	16.7 [12.4; 21.8]	7.0 [4.5; 10.7]	1.00 [0.71; 1.33]	1.01 [0.60; 1.70]	0.02 [-0.52; 0.75]			
Mauritania	1.75 [1.37; 2.24]	1.31 [0.96; 1.79]	-0.44 [-1.05; 0.19]	16.3 [10.4; 27.4]	12.4 [7.7; 21.1]	0.96 [0.46; 1.49]	1.68 [0.82; 2.49]	0.72 [-0.26; 1.71]			
Mauritius¶	1.42 [1.25; 1.62]	2.40 [1.97; 2.92]	0.98	11.2 [9.9; 12.7]	4.7 [3.9; 5.6]	1.76 [1.55; 2.02]*	1.06	-0.20, 1.71] -0.71 [-1.03; -0.39]†			
Mexico§	2.53	2.98	0.45	18.0	6.1	0.96	0.80	-0.16			
Republic of Moldova¶	[2.47; 2.59]	[2.67; 3.32]	[0.13; 0.80]†	[16.7; 19.5]	[5.4; 6.8]	[0.92; 0.99]*	[0.71; 0.91]*	[-0.25; -0.05]† 0.14			
Monaco	[2.52; 2.99] 2.54	[2.09; 3.01] 2.40	[-0.72; 0.30] -0.14	[8.8; 11.1] 4.6	[3.3; 4.6] 1.9	[0.78; 0.95]* 1.00	[0.83; 1.21] 1.02	[-0.05; 0.36] 0.02			
	[1.93; 3.27] 1.79	[1.42; 3.88] 2.18	[-1.41; 1.51] 0.40	[3.4; 5.9] 9.7	[1.2; 3.0] 4.5	[0.77; 1.31] 1.28	[0.63; 1.68] 1.15	[-0.49; 0.72] -0.13			
Mongolia¶	[1.49; 2.12] 2.11	[1.75; 2.71] 2.36	[-0.16; 1.01] 0.25	[8.2; 11.5] 5.4	[3.6; 5.5] 2.3	[1.03; 1.57]* 1.21	[0.92; 1.44] 1.05	[-0.50; 0.25] -0.16			
Montenegro	[1.74; 2.56] 2.46	[1.67; 3.28] 2.52	[-0.62; 1.25] 0.05	[4.3; 6.6] 6.9	[1.7; 3.1] 2.7	[0.99; 1.47] 1.00	[0.75; 1.47]	[-0.56; 0.33] 0.01			
Montserrat	[1.89; 3.18]	[1.51; 4.05]	[-1.21; 1.72]	[5.1; 8.9]	[1.8; 4.2]	[0.76; 1.31]	[0.62; 1.63]	[-0.51; 0.69]			
Morocco¶	1.77 [1.45; 2.15]	2.27 [1.44; 3.43]	0.50 [-0.45; 1.73]	7.0 [3.3; 15.3]	3.1 [1.5; 7.0]	1.35 [1.08; 1.67]*	1.10 [0.67; 1.74]	-0.25 [-0.81; 0.46]			
Mozambique	1.07 [0.88; 1.30]	1.15 [0.74; 1.77]	0.08 [-0.41; 0.75]	32.0 [15.5; 66.5]	27.9 [12.3; 61.6]	0.84 [0.60; 1.28]	1.00 [0.47; 2.66]	0.16 [-0.57; 1.85]			
Myanmar	1.39 [1.02; 1.88]	2.14 [1.40; 3.27]	0.75 [-0.13; 1.98]	[8.0; 27.5]	7.0 [3.4; 13.9]	0.82 [0.45; 1.59]	1.51 [0.92; 2.34]	0.68 [-0.32; 1.61]			
Namibia	1.41 [1.17; 1.68]	1.59 [1.05; 2.37]	0.19 [-0.43; 1.02]	26.1 [12.9; 51.6]	16.4 [8.2; 32.7]	0.90 [0.58; 1.45]	1.05 [0.37; 2.08]	0.14 [-0.79; 1.24]			
¶: Sex ratio is outlying in 1990. §: Sex											

Table 21 – continued from previous page Sex ratio 10q15 Sex-specific 10q15 in 2021 (per 1,000) Estimated/Expected female 10q15										
	1990	2021	Change	Male	Female	1990	2021	Change		
Nauru	2.06	2.40	1990-2021 0.34	16.2	6.8	0.98	1.01	1990-2021 0.03		
Nepal¶§	[1.59; 2.64] 1.06	[1.43; 3.78] 1.43	[-0.82; 1.82] 0.37	[11.9; 21.2] 11.6	[4.4; 10.3]	[0.60; 1.36] 1.99	[0.61; 1.70] 1.69	[-0.53; 0.81] -0.30		
	[0.87; 1.27]	[0.96; 2.10] 1.92	[-0.17; 1.09] -0.22	[6.5; 20.8] 3.1	[4.5; 14.8] 1.6	[1.38; 2.55]* 1.15	[1.07; 2.55]* 1.22	[-1.17; 0.77] 0.07		
Netherlands	[2.00; 2.30] 2.95	[1.73; 2.14] 1.85	[-0.47; 0.04] -1.10	[2.9; 3.3] 6.0	[1.5; 1.8]	[1.07; 1.24]* 0.81	[1.07; 1.39]* 1.34	[-0.10; 0.25] 0.53		
New Zealand¶	[2.71; 3.21] 2.21	[1.64; 2.09]	[-1.43; -0.76]†	[5.6; 6.6] 12.6	[2.9; 3.6] 5.1	[0.74; 0.89]*	[1.18; 1.51]*	[0.35; 0.71]† 0.02		
Nicaragua	[1.71; 2.88]	[1.50; 4.03]	0.26 [-0.97; 1.89]	[9.4; 16.6]	[3.3; 7.8]	[0.48; 1.42]	1.00 [0.61; 1.67]	[-0.56; 0.85]		
Niger	0.92 [0.77; 1.12]	1.04 [0.70; 1.56]	0.11 [-0.29; 0.67]	27.0 [13.6; 54.8]	26.0 [12.2; 54.7]	1.04 [0.72; 1.62]	1.41 [0.58; 2.96]	0.37 [-0.69; 1.97]		
Nigeria	1.00 [0.80; 1.25]	1.17 [0.89; 1.52]	0.17 [-0.22; 0.59]	19.5 [13.3; 28.8]	16.7 [11.1; 25.2]	0.96 [0.63; 1.68]	1.82 [0.97; 2.60]	0.86 [-0.22; 1.72]		
Niue	2.41 [1.86; 3.10]	2.47 [1.47; 4.08]	0.05 [-1.19; 1.78]	18.2 [12.4; 25.4]	7.4 [5.1; 10.5]	1.00 [0.77; 1.31]	0.98 [0.55; 1.66]	-0.02 [-0.57; 0.71]		
Norway	3.05 [2.76; 3.37]	2.23 [1.91; 2.60]	-0.82 [-1.26; -0.36]†	4.2 [3.8; 4.7]	1.9 [1.7; 2.2]	0.82 [0.74; 0.91]*	1.07 [0.91; 1.25]	0.25 [0.06; 0.44]†		
Oman	2.42 [1.87; 3.06]	2.50 [1.50; 3.98]	0.09 [-1.16; 1.67]	8.0 [6.0; 10.3]	3.2 [2.0; 5.0]	1.01 [0.78; 1.30]	1.02 [0.63; 1.65]	0.01 [-0.50; 0.69]		
Pakistan¶	1.22	2.63 [1.76; 3.82]	1.41	16.1	6.1	1.62	0.86	-0.76		
Palau	[1.04; 1.44] 2.65	0.98	[0.45; 2.64]†	[7.4; 34.5]	[2.9; 13.1] 28.6	0.77	[0.33; 1.33]	[-1.43; -0.08]†		
Panama	[2.08; 3.36] 2.43	[0.76; 1.26]	[-2.41; -1.02]† 0.32	[17.2; 46.5] 13.8	[16.6; 49.0] 5.0	[0.45; 1.05] 1.00	[0.67; 2.69] 0.91	[-0.17; 1.97] -0.09		
Papua New Guinea§	[2.08; 2.84] 1.86	[2.32; 3.24] 1.29	[-0.28; 0.93] -0.56	[12.9; 14.8] 16.3	[4.4; 5.8] 12.7	[0.85; 1.17] 1.00	[0.76; 1.08]	[-0.32; 0.14] 0.85		
	[1.44; 2.39] 2.05	[0.90; 1.85] 2.41	[-1.23; 0.15] 0.36	[12.2; 21.5] 14.7	[9.2; 17.3] 6.1	[0.56; 1.44] 1.06	[1.24; 2.72]* 1.03	[0.10; 1.80]† -0.03		
Paraguay	[1.59; 2.60] 1.78	[1.45; 3.84] 2.70	[-0.79; 1.88] 0.92	[10.9; 19.2] 9.3	[3.9; 9.2]	[0.72; 1.42] 1.16	[0.63; 1.70]	[-0.60; 0.73] -0.22		
Peru	[1.56; 2.03] 1.82	[1.74; 3.98] 2.23	[-0.09; 2.24]	[4.2; 20.0] 12.8	[1.7; 7.4] 5.7	[0.91; 1.39]	[0.53; 1.47]	[-0.71; 0.38]		
Philippines¶	[1.57; 2.11]	[1.78; 2.76]	0.41 [-0.12; 0.99]	[11.1; 14.6]	[4.7; 6.9]	[1.10; 1.53]*	1.12 [0.90; 1.41]	-0.17 [-0.49; 0.17]		
Poland¶	3.60 [3.43; 3.77]	2.77 [2.58; 2.97]	-0.83 [-1.09; -0.57]†	7.1 [6.8; 7.4]	2.6 [2.4; 2.7]	0.70 [0.66; 0.73]*	0.92 [0.85; 0.99]*	0.22 [0.14; 0.30]†		
Portugal¶	3.52 [3.30; 3.75]	2.28 [2.00; 2.60]	-1.23 [-1.60; -0.84]†	3.9 [3.6; 4.2]	1.7 [1.5; 1.9]	0.67 [0.63; 0.73]*	1.03 [0.90; 1.20]	0.36 [0.21; 0.53]†		
Qatar	2.53 [2.00; 3.13]	2.58 [1.91; 3.41]	0.05 [-0.90; 1.06]	4.3 [3.6; 5.1]	1.7 [1.2; 2.2]	0.97 [0.77; 1.22]	0.93 [0.69; 1.24]	-0.04 [-0.40; 0.34]		
Romania	2.24 [2.13; 2.35]	2.60 [2.38; 2.84]	0.37 [0.12; 0.63]†	7.0 [6.7; 7.4]	2.7 [2.5; 2.9]	1.12 [1.06; 1.18]*	0.97 [0.88; 1.06]	-0.15 [-0.26; -0.04]†		
Russian Federation¶	3.12 [3.05; 3.19]	2.53 [2.27; 2.82]	-0.59 [-0.86; -0.29]†	10.9 [10.0; 11.9]	4.3 [3.9; 4.8]	0.73 [0.70; 0.76]*	1.00	0.27 [0.16; 0.40]†		
Rwanda¶	1.20	1.70	0.50	11.6	6.8	0.58	1.43	0.84		
Saint Kitts and Nevis	[1.00; 1.43]	[1.22; 2.38]	[-0.04; 1.23]	[6.5; 20.8]	[3.6; 12.7] 8.5	[0.48; 0.73]* 1.03	[0.94; 2.02]	[0.32; 1.45]† -0.32		
Saint Lucia	[1.85; 3.06] 2.29	[1.68; 4.23]	[-0.94; 1.99] 0.01	[13.1; 38.6] 12.4	[4.5; 15.9] 5.4	[0.78; 1.35] 1.07	[0.26; 1.32]	[-0.88; 0.35] 0.00		
Samoa	[1.82; 2.87] 1.41	[1.58; 3.30] 1.65	[-0.96; 1.14] 0.24	[8.6; 17.4] 9.0	[3.4; 8.4] 5.5	[0.83; 1.36] 0.74	[0.72; 1.58]	[-0.46; 0.58] 0.75		
San Marino	[1.02; 1.93] 2.49	[1.10; 2.45] 2.36	[-0.71; 1.15] -0.14	[5.1; 15.8]	[3.1; 10.1]	[0.42; 1.86] 1.00	[0.97; 2.25]	[-0.48; 1.56] 0.02		
	[1.92; 3.23] 1.54	[1.39; 3.81] 1.91	[-1.39; 1.44] 0.36	[2.3; 4.1] 23.6	[0.9; 2.0]	[0.76; 1.30]	[0.62; 1.67]	[-0.50; 0.72] 0.28		
Sao Tome and Principe	[1.19; 1.99] 2.13	[1.18; 3.01] 3.06	[-0.55; 1.53] 0.93	[10.9; 49.5] 14.0	[5.3; 28.5] 4.6	[0.37; 1.70] 0.85	[0.31; 1.86]	[-1.04; 1.23] -0.09		
Saudi Arabia	[1.67; 2.69] 1.18	[2.09; 4.36] 1.54	[-0.24; 2.32] 0.36	[8.8; 23.3] 14.1	[2.7; 8.3] 9.2	[0.30; 1.31]	[0.45; 1.17]	[-0.65; 0.60] 0.07		
Senegal	[0.97; 1.43]	[1.10; 2.11]	[-0.16; 0.97]	[8.8; 22.8]	[5.6; 15.3]	[0.79; 2.06]	[0.95; 2.16]	[-0.80; 1.02]		
Serbia	2.50 [2.20; 2.85]	2.63 [2.18; 3.13]	0.12 [-0.45; 0.72]	5.8 [5.2; 6.4]	2.2 [1.9; 2.6]	1.01 [0.88; 1.15]	0.94 [0.79; 1.13]	-0.07 [-0.28; 0.16]		
Seychelles	2.53 [1.96; 3.22]	3.36 [2.31; 4.73]	0.84 [-0.51; 2.37]	11.9 [7.5; 19.6]	3.5 [2.1; 6.5]	1.00 [0.77; 1.29]	0.70 [0.46; 1.06]	-0.30 [-0.69; 0.14]		
Sierra Leone	0.78 [0.59; 1.04]	1.19 [0.89; 1.59]	0.42 [-0.01; 0.86]	36.5 [21.5; 56.4]	30.6 [18.9; 46.2]	1.01 [0.71; 1.67]	0.80 [0.49; 1.69]	-0.21 [-0.96; 0.68]		
Singapore	2.20 [1.90; 2.55]	2.01 [1.58; 2.54]	-0.19 [-0.74; 0.42]	2.6 [2.2; 3.1]	1.3 [1.1; 1.6]	1.15 [1.00; 1.33]	1.16 [0.91; 1.49]	0.01 [-0.30; 0.37]		
Slovakia	2.78 [2.55; 3.03]	2.39 [2.06; 2.76]	-0.40 [-0.81; 0.04]	5.8 [5.3; 6.2]	2.4 [2.1; 2.7]	0.91 [0.83; 0.99]*	1.03 [0.89; 1.19]	0.12 [-0.04; 0.30]		
Slovenia	3.02 [2.69; 3.39]	2.39 [1.80; 3.12]	-0.63 [-1.34; 0.16]	3.7 [3.2; 4.3]	1.5 [1.2; 2.0]	0.83 [0.74; 0.94]*	0.99 [0.76; 1.31]	0.16 [-0.10; 0.48]		
Solomon Islands	2.29	2.05	-0.23	12.6	6.1	1.00	1.22	0.22		
Somalia	[1.75; 2.92] 0.76	[1.29; 3.17] 0.92	[-1.25; 1.05]	[9.4; 16.6] 38.8	[4.1; 9.0] 42.0	[0.75; 1.34]	[0.77; 1.93]	[-0.36; 0.96] 0.02		
South Africa	[0.59; 1.00]	[0.56; 1.54]	[-0.27; 0.79] -0.49	[26.6; 54.4] 24.5	[29.0; 58.1] 15.3	[0.71; 1.74]	[0.49; 2.85]	[-0.76; 1.72] 0.56		
South Sudan	[1.69; 2.58] 0.69	[1.35; 1.88] 0.97	[-1.04; 0.00] 0.28	[21.4; 28.0] 36.8	[13.2; 17.8] 37.9	[0.37; 1.19] 1.04	[0.82; 1.62] 1.04	[-0.10; 1.07] 0.00		
	[0.53; 0.92]	[0.59; 1.62] 2.26	[-0.17; 0.94] -0.87	[25.2; 50.8] 2.7	[25.7; 52.9] 1.2	[0.78; 1.54] 0.81	[0.48; 2.91] 1.05	[-0.70; 1.83] 0.24		
Spain	[3.00; 3.27] 2.22	[1.97; 2.58] 2.25	[-1.19; -0.52]† 0.03	[2.5; 3.0] 5.6	[1.1; 1.4]	[0.77; 0.85]* 0.68	[0.89; 1.23]	[0.08; 0.43]† 0.42		
Sri Lanka¶	[1.95; 2.52] 2.49	[1.63; 3.08] 2.25	[-0.67; 0.89] -0.25	[3.5; 8.8] 19.0	[1.5; 4.0] 8.5	[0.49; 0.90]* 1.00	[0.80; 1.50]	[0.05; 0.85]†		
Saint Vincent and the Grenadines	[1.97; 3.11] 2.85	[1.47; 3.33] 2.73	[-1.29; 1.00] -0.12	[12.3; 28.4] 11.0	[5.2; 13.7] 4.0	[0.79; 1.27]	[0.48; 1.58]	[-0.59; 0.63] 0.01		
State of Palestine	[2.20; 3.63]	[1.64; 4.32]	[-1.53; 1.60]	[8.1; 14.4]	[2.6; 6.1]	[0.77; 1.30]	[0.63; 1.64]	[-0.48; 0.69]		
Sudan	0.89 [0.70; 1.15]	1.55 [0.93; 2.53]	0.65 [-0.05; 1.66]	31.0 [21.9; 41.6]	20.0 [13.2; 29.4]	0.95 [0.65; 1.80]	0.92 [0.37; 2.16]	-0.02 [-0.86; 1.15]		
Suriname¶§	1.80 [1.51; 2.14]	1.33 [1.10; 1.60]	-0.47 [-0.87; -0.07]†	13.0 [10.6; 15.8]	9.8 [7.9; 12.1]	1.31 [1.08; 1.58]*	1.86 [1.52; 2.27]*	0.55 [0.11; 1.01]†		
¶: Sex ratio is outlying in 1990. §: Sex	ratio is outlying in	2021. *: The rati	o of estimated to exp	ected female mort	ality is significantly differe	nt from one. †: Ch	nange is significant	ly different from zero.		

^{¶:} Sex ratio is outlying in 1990. §: Sex ratio is outlying in 2021. *: The ratio of estimated to expected female mortality is significantly different from one. †: Change is significantly different from zero.

Continued on next page

Table 21 – continued from previous page

	Table 21 – continued from previous page Sex ratio 10q15 Sex-specific 10q15 in 2021 (per 1,000) Estimated/Expected female 10q15								
	1990	2021	Change	Male	Female	1990	2021	Change	
			1990-2021					1990-2021	
Eswatini§	1.13	0.90	-0.23	22.4	24.8	1.36	2.30	0.95	
•	[0.89; 1.44]	[0.58; 1.43]	[-0.71; 0.38]	[15.7; 31.1]	[17.5; 34.0]	[0.68; 2.24]	[1.08; 3.94]*	[-0.44; 2.69]	
Sweden	2.49 [2.29; 2.71]	2.22 [1.96; 2.52]	-0.27 [-0.61; 0.09]	4.5 [4.2; 4.8]	2.0	1.01 [0.93; 1.10]	1.08 [0.95; 1.23]	0.07	
	2.93	2.43	-0.50	3.8	1.6	0.86	0.97	[-0.09; 0.24] 0.11	
Switzerland	[2.70; 3.18]	[2.10; 2.81]	[-0.92; -0.06]†	[3.5; 4.1]	[1.4; 1.8]	[0.79; 0.94]*	[0.83; 1.14]	[-0.05; 0.30]	
	1.63	3.24	1.61	13.6	4.2	1.26	1.17	-0.08	
Syria	[1.29; 2.03]	[2.19; 4.58]	[0.42; 3.15]†	[7.1; 32.7]	[2.1; 10.8]	[0.74; 1.68]	[0.76; 1.72]	[-0.71; 0.67]	
Tajikistan¶§	1.38	1.50	0.12	5.1	3.4	1.80	1.61	-0.19	
Tajikistanjig	[1.28; 1.48]	[1.36; 1.64]	[-0.05; 0.30]	[4.8; 5.4]	[3.2; 3.7]	[1.66; 1.95]*	[1.46; 1.79]*	[-0.40; 0.04]	
Tanzania	1.12	1.36	0.25	20.0	14.7	1.32	1.51	0.18	
	[0.94; 1.33]	[0.96; 1.91]	[-0.22; 0.83]	[10.5; 40.9]	[8.0; 29.4]	[0.79; 1.96]	[0.53; 2.39]	[-0.99; 1.24]	
Thailand¶§	2.88 [2.47; 3.36]	3.30 [2.63; 4.07]	0.42 [-0.43; 1.31]	18.4 [16.2; 20.9]	5.6	0.74 [0.62; 0.88]*	0.69 [0.55; 0.87]*	-0.05	
	1.84	0.66	-1.18	24.7	[4.6; 6.9] 37.4	0.69	2.14	[-0.25; 0.17] 1.45	
Timor Leste	[1.44; 2.33]	[0.48; 0.93]	[-1.72; -0.68]†	[12.7; 56.5]	[19.5; 86.0]	[0.35; 1.40]	[0.94; 4.40]	[-0.06; 3.70]	
_	1.23	1.33	0.10	19.5	14.7	1.29	1.51	0.23	
Togo	[1.01; 1.49]	[0.91; 1.97]	[-0.42; 0.81]	[10.2; 38.0]	[7.0; 30.1]	[0.75; 1.91]	[0.58; 2.51]	[-0.91; 1.40]	
Trans	2.64	2.76	0.12	12.3	4.5	0.96	0.91	-0.05	
Tonga	[2.02; 3.42]	[1.75; 4.15]	[-1.22; 1.67]	[8.3; 17.7]	[2.9; 7.2]	[0.73; 1.25]	[0.58; 1.43]	[-0.51; 0.55]	
Trinidad and Tobago¶§	1.96	3.20	1.24	21.0	6.6	1.27	0.69	-0.58	
Timidad and Tobago IIs	[1.74; 2.20]	[2.46; 4.09]	[0.47; 2.14]†	[15.1; 29.7]	[4.6; 9.7]	[1.13; 1.44]*	[0.32; 0.94]*	[-0.97; -0.29]†	
Tunisia	2.11	2.72	0.61	11.0	4.0	1.18	0.93	-0.25	
	[1.70; 2.60]	[2.06; 3.55]	[-0.23; 1.54]	[8.1; 14.6]	[2.9; 5.6]	[0.95; 1.47]	[0.70; 1.23]	[-0.62; 0.13]	
Turkey	1.97 [1.50; 2.68]	2.46 [2.11; 2.86]	0.49 [-0.28; 1.15]	5.4 [4.7; 6.1]	2.2 [1.9; 2.6]	0.91 [0.40; 1.37]	0.99 [0.85; 1.15]	0.08 [-0.41; 0.61]	
	1.54	1.35	-0.19	11.6	8.6	1.58	1.84	0.26	
Turkmenistan¶§	[1.35; 1.76]	[1.01; 1.79]	[-0.60; 0.29]	[7.5; 17.6]	[5.6; 13.0]	[1.37; 1.82]*	[1.35; 2.49]*	[-0.30; 0.96]	
	2.51	2.47	-0.05	7.5	3.1	0.99	1.03	0.04	
Turks and Caicos Islands	[1.94; 3.20]	[1.46; 3.97]	[-1.31; 1.57]	[5.5; 9.9]	[2.0; 4.6]	[0.77; 1.28]	[0.64; 1.69]	[-0.46; 0.75]	
Tuvalu	2.28	2.61	0.33	14.4	5.5	0.95	0.96	0.01	
Tuvalu	[1.79; 2.90]	[1.60; 4.13]	[-0.91; 1.97]	[10.8; 18.8]	[3.6; 8.4]	[0.66; 1.26]	[0.58; 1.56]	[-0.49; 0.68]	
Uganda	0.87	1.39	0.52	31.5	22.7	0.94	0.81	-0.13	
	[0.75; 1.01]	[1.02; 1.89]	[0.12; 1.02]†	[18.1; 56.8]	[13.2; 40.6]	[0.74; 1.28]	[0.43; 1.75]	[-0.64; 0.81]	
Ukraine¶	2.97	2.69	-0.28	9.2	3.4 [3.2; 3.6]	0.81	0.95	0.13	
	[2.86; 3.08] 2.48	[2.52; 2.87]	[-0.48; -0.08]† -0.02	[8.8; 9.6] 6.2	2.5	[0.77; 0.85]* 1.01	[0.88; 1.01]	[0.06; 0.21]†	
United Arab Emirates	[1.91; 3.15]	[1.48; 3.85]	[-1.23; 1.54]	[4.7; 8.1]	[1.6; 4.1]	[0.78; 1.31]	[0.64; 1.65]	[-0.49; 0.68]	
	2.74	2.13	-0.61	4.2	2.0	0.92	1.12	0.20	
United Kingdom	[2.62; 2.87]	[1.81; 2.49]	[-0.96; -0.23]†	[3.7; 4.8]	[1.7; 2.3]	[0.87; 0.97]*	[0.95; 1.32]	[0.03; 0.41]†	
United States of America¶	2.98	2.59	-0.39	12.1	4.7	0.82	0.98	0.16	
United States of American	[2.93; 3.04]	[2.23; 2.99]	[-0.76; 0.01]	[11.1; 13.4]	[4.1; 5.4]	[0.79; 0.84]*	[0.85; 1.14]	[0.02; 0.32]†	
Uruguay§	2.18	3.34	1.16	13.9	4.2	1.14	0.75	-0.39	
oruguay,	[1.97; 2.40]	[2.84; 3.91]	[0.62; 1.77]†	[12.5; 15.5]	[3.6; 4.9]	[1.03; 1.27]*	[0.63; 0.88]*	[-0.57; -0.22]†	
Uzbekistan¶§	1.57	1.21	-0.37	7.9	6.6	1.59	2.07	0.48	
A.	[1.38; 1.80] 2.33	[1.04; 1.40]	[-0.65; -0.09]† -0.11	[7.3; 8.5] 14.6	[6.0; 7.2] 6.6	[1.38; 1.81]* 1.00	[1.78; 2.39]*	[0.11; 0.89]† 0.12	
Vanuatu	[1.79; 3.00]	[1.39; 3.42]	[-1.21; 1.23]	[10.8; 19.0]	[4.4; 9.6]	[0.74; 1.33]	[0.70; 1.78]	[-0.42; 0.82]	
	2.76	5.00	2.24	44.2	8.8	0.86	0.17	-0.68	
Venezuela (Bolivarian Republic of)¶§	[2.40; 3.15]	[3.68; 6.68]	[0.85; 3.96]†	[32.1; 60.2]	[6.2; 12.9]	[0.74; 0.99]*	[0.11; 0.28]*	[-0.83; -0.52]†	
Victoria	2.11	2.57	0.46	8.8	3.4	1.09	0.97	-0.11	
Vietnam	[1.67; 2.65]	[1.85; 3.53]	[-0.48; 1.53]	[6.7; 11.5]	[2.4; 4.9]	[0.78; 1.42]	[0.70; 1.35]	[-0.56; 0.39]	
Yemen	2.18	4.26	2.08	34.5	8.1	0.99	1.01	0.02	
Temen	[1.69; 2.76]	[2.60; 6.86]	[0.31; 4.73]†	[25.6; 45.3]	[5.3; 12.3]	[0.69; 1.33]	[0.59; 1.66]	[-0.50; 0.74]	
Zambia	0.78	1.59	0.81	25.1	15.8	1.09	1.06	-0.03	
	[0.67; 0.89]	[1.16; 2.18]	[0.36; 1.42]†	[15.9; 39.0]	[9.4; 25.8]	[0.86; 1.52]	[0.47; 1.80]	[-0.75; 0.75]	
Zimbabwe	1.22	1.29	0.07	26.9	20.9	1.71	1.24	-0.47	
	[1.02; 1.45]	[0.91; 1.82]	[-0.38; 0.63]	[16.1; 44.7]	[11.9; 35.3]	[0.92; 2.19]	[0.52; 2.30]	[-1.38; 0.83]	

Table 22: **Sex ratio data sources for age group 0–1, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
Afghanistan	18	2015.5	
	8	2008.5	2010 Afghanistan Mortality Survey [DHS Direct]
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Afghanistan Health Survey [Others Direct]
Albania	26	2021.5	
	5	1999.5	2002 Reproductive Health Survey [Others Direct]
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]
	16	2021.5	WHO Vital Registration Data 2022 version [VR]
Algeria	39	2020.5	
	1	1976.5	1986 Enquete nationale sur la fecondite [Others Direct]
	5	1989.5	1992 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	1	1993	1995 Enquete nationale sur les objectifs [Others Direct]
	5	2000	2002 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	22	2020.5	Vital Registration from Demographie Algerienne [VR]
	5	1986.5	WHO Vital Registration Data 2022 version [VR]
Andorra	58	2014.5	
	11	2014.5	WHO Vital Registration Data 2019 version [VR]
	7	2014.5	WHO Vital Registration Data 2020 version [VR]
	19	2014.5	WHO Vital Registration Data 2021 version [VR]
	21	2014.5	WHO Vital Registration Data 2022 version [VR]
Angola	5	2012.5	
	5	2012.5	2015-2016 Inquerito de Indicadores Multiplos e de Saude [DHS Direct]
Anguilla	16	2016.5	
	16	2016.5	2019 UNPD Vital Registration Data 2019 version [VR]
Antigua and Bar-	58	2017.5	
buda			
	11	1960.5	UNPD Demographic Yearbook Data 2020 version [VR]
	47	2017.5	WHO Vital Registration Data 2022 version [VR]
Argentina	45	2020.5	
	45	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Armenia	15	2007.5	
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
Australia	71	2020.5	
	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Austria	66	2020.5	
	66	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Azerbaijan	11	2008.5	
	1	1996	2001 Reproductive Health Survey [Others Direct]

Table 22 – continued from previous page

Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Azerbaijan National Demographic and Health Survey [Other DHS
			Direct]
Bahamas	48	2020.5	Directj
Danamas	48	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Dohaoin			2021 WHO VItal Registration Data 2022 Version [VK]
Bahrain	42	2019.5	1000 CL'11 II. 14. C [O.L D'
	1	1984	1989 Child Health Survey [Others Direct]
	1	1990.5	1995 Gulf Family Health Survey [Others Direct]
	5	2019.5	UNPD Vital Registration Data 2019 version [VR]
	35	2014.5	WHO Vital Registration Data 2022 version [VR]
Bangladesh	94	2020.5	
	5	1973	1975-1976 World Fertility Survey [Other DHS Direct]
	1	1981	1988-1989 Fertility Survey [Others Direct]
	5	1991	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1994	1996-1997 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999-2000 Demographic and Health Survey [DHS Direct]
	1	1999	2001 Maternal Health Services and Maternal Mortality Survey [Other
	1	1,,,,	DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	1 1	2010.7	2011 Census [Others Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	1	2008.1	2012-2013 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017-2018 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
	10	2020.5	Sample Vital Statistics [VR]
	30	2010.5	SVital Registration from Report on Sample Vital Registration System
			2010 [VR]
Barbados	59	2013.5	
	59	2013.5	2021 WHO Vital Registration Data 2022 version [VR]
Belarus	39	2019.5	
Delarus	39	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Dalaium			2021 WITO VITAL REGISTRATION DATA 2022 VEISION [VIN]
Belgium	70	2019.5	LINDD Dama analis Vasaka ala Data 2020 anni an IVD1
	4	1953.5	UNPD Demographic Yearbook Data 2020 version [VR]
	66	2019.5	WHO Vital Registration Data 2022 version [VR]
Belize	23	2018.5	
	5	1988.5	1991 Family Health Survey [Others Direct]
	18	2018.5	WHO Vital Registration Data 2022 version [VR]
Benin	33	2015	
	5	1979	1981-1982 World Fertility Survey [Other DHS Direct]
	5	1994	1996 Demographic and Health Survey [DHS Direct]
	5	1998.5	2001 Demographic and Health Survey [DHS Direct]
	8	2004.5	2006 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.3	Continued on next page

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Table 22 – continued from previous page			
Country	# obs.	Most recent	Data series name [source type]
		obs. year	
	5	2015	2017-2018 Demographic and Health Survey [DHS Direct]
Bhutan	3	1999.7	
	1	1983.5	1984 Demographic Sample Survey [Others Direct]
	1	1993.5	1994 National Health Survey [Others Direct]
	1	1999.7	2000 National Health Survey [Others Direct]
Bolivia (Pluri-	30	2013.5	
national State			
of)			
	5	1986.5	1989 Demographic and Health Survey [DHS Direct]
	5	1990.5	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Demographic and Health Survey [Other DHS Direct]
Bosnia and Herze-	25	2016.5	
govina			
	25	2016.5	2021 WHO Vital Registration Data 2022 version [VR]
Botswana	11	2005.4	
	5	1985.5	1988 Family Health Survey [DHS Direct]
	6	2005.4	2007 Family Health Survey [Others Direct]
Brazil	10	1993.5	
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]
	5	1993.5	1996 Demographic and Health Survey [DHS Direct]
British Virgin Is-	40	2008.5	
lands			
	40	2008.5	2019 UNPD Vital Registration Data 2019 version [VR]
Brunei	63	2019.5	
	25	1978.5	UNPD Demographic Yearbook Data 2020 version [VR]
	38	2019.5	WHO Vital Registration Data 2022 version [VR]
Bulgaria	58	2021.5	
	58	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Burkina Faso	23	2008.5	
	5	1989.5	1993 Demographic and Health Survey [DHS Direct]
	6	1996.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	7	2008.5	2010 Demographic and Health Survey [DHS Direct]
Burundi	15	2013.5	
	1	1970.5	1970 Demographic Survey [Others Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct]
	4	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
Cambodia	22	2011.5	
	7	1998.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
I	-		Continued on next page

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	Table 22 – continued from previous page				
	#	Most			
Country	obs.	recent	Data series name [source type]		
	ons.	obs. year			
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]		
Cameroon	31	2015.5			
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]		
	5	1988.5	1991 Demographic and Health Survey [DHS Direct]		
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]		
	6	2002	2004 Demographic and Health Survey [DHS Direct]		
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]		
	5	2015.5	2018 Demographic and Health Survey [DHS Direct]		
Canada	71	2020.5			
	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]		
Cape Verde	32	2016.5	5		
1	5	1995.5	1998 Demographic and Reproductive Health Survey [Others Direct]		
	1	2002.2	2005 Demographic and Health Survey [DHS Direct]		
	26	2016.5	WHO Vital Registration Data 2022 version [VR]		
Central African	10	2015.5			
Republic					
периопе	5	1991.5	1994-1995 Demographic and Health Survey [DHS Direct]		
	5	2015.5	2018-2019 Multiple Indicator Cluster Survey [MICS Direct]		
Chad	16	2011.5	2010 2017 Wildiapie indicator claster burvey [Mico Birect]		
Ciliaa	6	1994.5	1996-1997 Demographic and Health Survey [DHS Direct]		
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]		
	5	2011.5	2014-2015 Demographic and Health Survey [DHS Direct]		
Chile	56	2015.5	2011 2013 Demograpine and Health Survey [D115 D11eet]		
Cime	56	2015.5	2021 WHO Vital Registration Data 2022 version [VR]		
China	5	1986	2021 Willo Vital Registration Data 2022 Version [VR]		
Ciliiu	5	1986	1988 National Survey on Fertility and Birth Control [Others Direct]		
Colombia	35	2012.5	1700 Tunional Burrey on Ferning and Brian Control [Caners Brieve]		
Colombia	5	1983.5	1986 Demographic and Health Survey [DHS Direct]		
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]		
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]		
	5	1992.5	2000 Demographic and Health Survey [DHS Direct]		
	5	2001.5	2005 Demographic and Health Survey [DHS Direct]		
	5	2001.5	2010 Demographic and Health Survey [DHS Direct]		
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]		
Comoros	6	2012.5	2013 Demographic and Heatth Burvey [D113 Direct]		
Comoros	5	1993.5	1996 Demographic and Health Survey [DHS Direct]		
	1	2017.5	2017 Census [Others Direct]		
Congo	10	2017.5	2017 Celisus [Ottlers Direct]		
Congo	5	2008.5	2005 Demographic and Health Survey [DHS Direct]		
	5	2002.5	2011-2012 Demographic and Health Survey [DHS Direct]		
Democratic Re-	10	2010.5	2011 2012 Demographic and Hearth ourvey [D110 Direct]		
public of the	10	2010.3			
Congo					
Congo	5	2004.5	2007 Demographic and Health Survey [DHS Direct]		
	5	2010.5	2013-2014 Demographic and Health Survey [DHS Direct]		
Cook Islands	22	2010.5	2013-2017 Demographic and Health Survey [D113 Direct]		
COOK ISIAIIUS	44	2009.3	Continued on next page		

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Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	ODS.	obs. year	
	22	2009.5	2021 WHO Vital Registration Data 2022 version [VR]
Costa Rica	71	2020.5	
	6	1955.5	UNPD Demographic Yearbook Data 2020 version [VR]
	65	2020.5	WHO Vital Registration Data 2022 version [VR]
Cote d'Ivoire	33	2013.5	
	1	1978.5	1978 Demographic Survey Repeated Passages [Others Direct]
	6	1978.5	1980-1981 World Fertility Survey [Other DHS Direct]
	6	1992	1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 AIDS Indicator Survey [Other DHS Direct]
	5	2008.5	2011-2012 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Multiple Indicator Cluster Survey [MICS Direct]
Croatia	39	2021.5	
	39	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Cuba	55	2020.5	
	55	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Cyprus	41	2020.5	
	41	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Czech Republic	39	2021.5	-
•	39	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Denmark	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Djibouti	6	2010	
3	5	1999.5	2002 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	1	2010	2012 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
Dominica	49	2015.5	
	49	2015.5	2021 WHO Vital Registration Data 2022 version [VR]
Dominican Repub-	45	2016.5	
lic			
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991 Demographic and Health Survey [DHS Direct]
	5	1993.5	1996 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Ecuador	30	2017.5	
	5	1976.5	1979-1980 World Fertility Survey [Other DHS Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	3	1986.5	1989 Demographic and Maternal and Child Health Survey [Others Di-
			rect]
	1		Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	5	1996.5	1999 Demographic and Maternal and Child Health Survey [Others Di-
			rect]
	5	2001.5	2004 Demographic and Maternal and Child Health Survey [Others Di-
			rect]
	5	2009.5	2012 Encuesta Nacional de Salud y Nutricion, Imputed birth and deaths
			[Others Direct]
	2	2017.5	Adjusted Vital Registration (Live Births) [VR]
Egypt	61	2011.5	
	11	1979	1980 World Fertility Survey [Other DHS Direct]
	6	1986	1988 Demographic and Health Survey [DHS Direct]
	6	1989	1991 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	6	1993	1995 Demographic and Health Survey [DHS Direct]
	1	1993	1997 Interim Demographic and Health Survey [Other DHS Direct]
	1	1994	1998 Interim Demographic and Health Survey [Other DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [Other DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
El Salvador	8	2011.5	2011 Demographic and Health State of [2110 Direct]
21 Survacor	1	1985.5	1988 National Family Health Survey [Others Direct]
	1	1996	1998 National Family Health Survey [Others Direct]
	1	1999.5	2002-2003 National Family Health Survey [Others Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Equatorial Guinea	1	2006.7	2014 Multiple indicator Cluster Survey [MICS Direct]
Equatorial Guillea	1	2006.7	2011 Demographic and Health Survey [DHS Direct]
Eritrea	15	2007.5	2011 Demographic and Heatin Survey [D115 Direct]
Littica	4	1992.5	1995-1996 Demographic and Health Survey [DHS Direct]
	5	1992.5	2002 Demographic and Health Survey [DHS Direct]
		2007.5	2010 Population and Health Survey [Other DHS Direct]
	5	2007.3	1 2
Estania	1		2010 Population and Health Survey (Preliminary) [Other DHS Direct]
Estonia	40	2020.5	2021 WHO Vital Projectuation Data 2022
Edhionia	40	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Ethiopia	22	2013.5	1001 D
	1	1977.7	1981 Demographic Survey [Others Direct]
	6	1998.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2007.5	2011 Demographic and Health Survey [DHS Direct]
P. 1	5	2013.5	2016 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia			
Fiji	19	2019.5	
	5	1971.5	1974 World Fertility Survey [Other DHS Direct]

Table 22 – continued from previous page

Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	14	2019.5	WHO Vital Registration Data 2022 version [VR]
Finland	72	2021.5	
	2	1951.5	UNPD Demographic Yearbook Data 2020 version [VR]
	70	2021.5	WHO Vital Registration Data 2022 version [VR]
France	70	2019.5	
	70	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Gabon	10	2009.5	
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
The Gambia	10	2016.5	
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]
Georgia	10	2002.5	
	5	1996.5	1999-2000 Reproductive Health Survey [Others Direct]
	5	2002.5	2005 Reproductive Health Survey [Others Direct]
Germany	52	2021.5	
•	52	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Ghana	46	2014.5	
	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	5	1990.5	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	1	2002	2007 Maternal Health Survey [Other DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Maternal Health Survey [Other DHS Direct]
	5	2014.5	2017-2018 Multiple Indicator Cluster Survey [MICS Direct]
Greece	65	2020.5	
	65	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Grenada	56	2020.5	
	21	1978.5	UNPD Demographic Yearbook Data 2020 version [VR]
	35	2020.5	WHO Vital Registration Data 2022 version [VR]
Guatemala	21	2011.5	
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	4	1992.5	1995 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [Other DHS Direct]
	1	1996.5	2002 Reproductive Health Survey-CDC [Others Direct]
	1	2003.8	2008-2009 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Oth-
			ers Direct]
	5	2011.5	2014-2015 Demographic and Health Survey [DHS Direct]
Guinea	23	2010.5	5 1 a a a a a a a a a a a a a a a a a a
	1	1955	1954-1955 Survey [Others Direct]
	1	1987.8	1992 Demographic and Health Survey [DHS Direct]
	7	1997.5	1999 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	-		Continued on next nego

Table 22 – continued from previous page

Guinea-Bissau Guyana 2 Haiti 3	# obs. 5 4 10 5 5 20 5 5 5 5	Most recent obs. year 2009.5 2010.5 2011.5 2007.5 2011.5 1972.5	Data series name [source type] 2012 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2010 Multiple Indicator Cluster Survey [MICS Direct] 2014 Multiple Indicator Cluster Survey [MICS Direct]
Guinea-Bissau Guyana 2 Haiti 3	5 4 10 5 5 20 5	obs. year 2009.5 2010.5 2011.5 2007.5 2011.5 2011.5	2012 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2010 Multiple Indicator Cluster Survey [MICS Direct]
Guinea-Bissau 1 Guyana 2 Haiti 3	5 4 10 5 5 20 5 5	2009.5 2010.5 2011.5 2007.5 2011.5 2011.5	2018 Demographic and Health Survey [DHS Direct] 2010 Multiple Indicator Cluster Survey [MICS Direct]
Guinea-Bissau 1 Guyana 2 Haiti 3	4 10 5 5 20 5 5	2010.5 2011.5 2007.5 2011.5 2011.5	2018 Demographic and Health Survey [DHS Direct] 2010 Multiple Indicator Cluster Survey [MICS Direct]
Guinea-Bissau 1 Guyana 2 Haiti 3	10 5 5 20 5 5	2011.5 2007.5 2011.5 2011.5	2010 Multiple Indicator Cluster Survey [MICS Direct]
Guyana 2 Haiti 3	5 5 20 5 5	2007.5 2011.5 2011.5	•
Guyana 2 Haiti 3	5 20 5 5	2011.5 2011.5	•
Guyana 2 Haiti 3	20 5 5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Haiti 3	5 5		
Haiti 3	5		
Haiti 3	5		1975 World Fertility Survey [Other DHS Direct]
Haiti 3		2002.5	2005 AIDS Indicator Survey [Other DHS Direct]
Haiti 3	_	2006.5	2009 Demographic and Health Survey [DHS Direct]
Haiti 3	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	30	2013.5	2011 Historical Education Survey [History]
	4	1974.5	1977 World Fertility Survey [Other DHS Direct]
l l	1	1984.5	1987 Mortality, morbidity and service utilization survey [Others Direct]
	5	1991.5	1994-1995 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005-2006 Demographic and Health Survey [DHS Direct]
	5	2002.5	2012 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
	17	2015.5	2010-2017 Demographic and Hearth Survey [D113 Direct]
	1	1971.5	1972 National Demographic Survey [Others Direct]
	$\frac{1}{2}$	1971.3	1972 National Demographic Survey [Others Direct] 1987 National Survey of Epidemiology and Family Health [Others Di-
•	_	1979	rect]
	5	2002.5	2005-2006 Demographic and Health Survey [DHS Direct]
		2002.5	,
	5	2016.5	2011-2012 Demographic and Health Survey [DHS Direct]
			2019 Multiple Indicator Cluster Survey [MICS Direct]
<i>C</i> ,	71	2020.5 1954.5	LINDD Dama analis Vasaka ala Data 2020 angian [VD]
	5		UNPD Demographic Yearbook Data 2020 version [VR]
	66	2020.5	WHO Vital Registration Data 2022 version [VR]
	72	2021.5	THIRD D
	1	1950.5	UNPD Demographic Yearbook Data 2020 version [VR]
	71	2021.5	WHO Vital Registration Data 2022 version [VR]
	98	2020.5	1002 1002 D
	22	1991.5	1992-1993 Demographic and Health Survey [DHS Direct]
	12	1997	1998-1999 Demographic and Health Survey [DHS Direct]
	12	2004	2005-2006 Demographic and Health Survey [DHS Direct]
	21	1989.5	Sample Registration System [VR]
	22	2011.5	Sample Registration System [VR]
	1	2012.5	Sample Registration System [VR]
	1	2013.5	Sample Registration System [VR]
	2	2015.5	Sample Registration System [VR]
	1	2017.5	Sample Registration System [VR]
	1	2018.5	Sample Registration System [VR]
	1	2019.5	Sample Registration System [VR]
	1	2020.5	Sample Registration System [VR]
	1	2016.5	Sample Registration System Statistical Report [VR]
Indonesia 4	44	2014.5	

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Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	6	1974	1976 World Fertility Survey [Other DHS Direct]
	6	1985	1987 Demographic and Health Survey [DHS Direct]
	5	1989.5	1991 Demographic and Health Survey [DHS Direct]
	5	1991.5	1994 Demographic and Health Survey [DHS Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002-2003 Demographic and Health Survey [DHS Direct]
	4	1999.5	2007 Demographic and Health Survey [DHS Direct]
	4	2009.5	2012 Demographic and Health Survey [DHS Direct]
	4	2014.5	2017 Demographic and Health Survey [DHS Direct]
Iran (Islamic Re-	28	2008.5	
public of)			
	1	1974.5	1973-1976 Population Growth Survey [Others Direct]
	26	2000	2000 Demographic and Health Survey [Other DHS Direct]
	1	2008.5	2010 National Multiple-Indicator Demographic and Health Survey
			[Other DHS Direct]
Iraq	14	2008.5	
	1	1973.5	1973 Demographic Sample Survey and Sample Registration System
			[Others Direct]
	3	2001	2004 Living Conditions Survey [Others Direct]
	5	2003.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
	5	2008.5	2011 Multiple Indicator Cluster Survey [MICS Direct]
Ireland	69	2018.5	
	69	2018.5	2021 WHO Vital Registration Data 2022 version [VR]
Israel	69	2021.5	
	22	1974.5	UNPD Demographic Yearbook Data 2020 version [VR]
	47	2021.5	WHO Vital Registration Data 2022 version [VR]
Italy	70	2020.5	
	70	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Jamaica	11	2005.5	
	5	1972.5	1975-1976 World Fertility Survey [Other DHS Direct]
	6	2005.5	2008-2009 Reproductive Health Survey [Others Direct]
Japan	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Jordan	35	2014.5	
	5	1973.5	1976 World Fertility Survey [Other DHS Direct]
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Kazakhstan	10	1996.5	
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
Kenya	37	2019.2	
	6	1976	1977-1978 World Fertility Survey [Other DHS Direct]
	1	1	Continued on next page

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Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	3,050	obs. year	
	5	1985.5	1989 Demographic and Health Survey [DHS Direct]
	5	1990.5	1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	1	2019.2	2019 Census [Others Direct]
Kiribati			
Democratic Peo-			
ple's Republic of			
Korea			
Republic of Korea	26	2021.5	
	5	1971.5	1974 World Fertility Survey [Other DHS Direct]
	21	2021.5	WHO Vital Registration Data 2022 version [VR]
Kosovo	12	2019.5	
	5	2010.5	2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Kuwait	44	2019.5	
	44	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Kyrgyzstan	19	2015.5	
7 07	4	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Lao People's	11	2008.5	The state of the s
Democratic Re-			
public			
I	1	1989.5	1994 Fertility and Birth Spacing Survey [Others Direct]
	5	2002.5	2005 Reproductive Health Survey [Others Direct]
	5	2008.5	2012 Lao Social Indicator Survey (combined Multiple Indicator Cluster
		2000.0	Survey4/Demographic and Health Survey) [DHS Direct]
Latvia	42	2021.5	2 22 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	42	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Lebanon	5	2002	
	5	2002	2004 Pan Arab Project for Family Health Family Health Survey [Others
		2002	Direct]
Lesotho	26	2016.3	
	5	1974.5	1977 World Fertility Survey [Other DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2006.5	2009 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	1	2016.3	2016 Census [Others Direct]
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Liberia	26	2016.5	2010 Manapie Maleurer Classer Sarvey [Miles Bireer]
2100114	6	1984	1986 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	, J	2005.5	Continued on next page

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Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	2005.5	2008-2009 Malaria Indicator Survey [Other DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]
Libya	10	2005	
	5	1992.5	1995 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	2005	2007 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
Lithuania	54	2021.5	
	54	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Luxembourg	66	2019.5	
-	10	1959.5	UNPD Demographic Yearbook Data 2020 version [VR]
	1	1961.5	WHO Good Vital Registration Data 2018 version [VR]
	55	2019.5	WHO Vital Registration Data 2022 version [VR]
Macedonia	39	2020.5	
	39	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Madagascar	26	2015.5	C t j
<u> </u>	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1995	1997 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]
	1	2005.4	2012-2013 National Survey on Monitoring the MDGs (ENSOMD)
			[DHS Direct]
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Malawi	47	2016.5	1 72 7
	1	1971	1970 Population Change Survey [Others Direct]
	1	1983.5	1984 Family Formation Survey [Others Direct]
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	8	1999	2000 Demographic and Health Survey [DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	7	2004.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013-2014 MDG Endline Survey [MICS Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Malaysia	5	2015.5	T TO THE TOTAL THE TOTAL
J	2	2012.5	Vital Statistics [VR]
	1	2013.5	Vital Statistics [VR]
	2	2015.5	Vital Statistics [VR]
Maldives	26	2020.5	
	1	1998	1997 Poverty and Vulnerability Survey [Others Direct]
	5	2006.5	2009 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
	15	2020.5	WHO Vital Registration Data 2022 version [VR]
Mali	38	2015.5	
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	1	1707.5	Continued on next page

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Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	10	1994	1995-1996 Demographic and Health Survey [DHS Direct]
	10	2000	2001 Demographic and Health Survey [DHS Direct]
	8	2004.5	2006 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Demographic and Health Survey [DHS Direct]
Malta	67	2021.5	
	67	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Marshall Islands	2	2010.8	
	1	2002.1	2007 Demographic and Health Survey [Other DHS Direct]
	1	2010.8	2011 Census [Others Direct]
Mauritania	25	2016.5	
	5	1979	1981-1982 World Fertility Survey [Other DHS Direct]
	3	1985	1990 Maternal and Child Health Survey [Others Direct]
	5	1997.5	2000-2001 Demographic and Health Survey [DHS Direct]
	1	1998.9	2003-2004 EMIP survey [Others Direct]
	1	2012.8	2013 Census [Others Direct]
	5	2012.5	2015 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2021 Demographic and Health Survey [DHS Direct]
Mauritius	70	2020.5	
	6	1956.5	UNPD Demographic Yearbook Data 2020 version [VR]
	64	2020.5	WHO Vital Registration Data 2022 version [VR]
Mexico	21	2016.5	
112011100	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Encuesta Nacional de la Dinamica Demografica (ENADID) [Oth-
		2010.0	ers Direct]
	11	2016.5	Vital Registration Data From Mexico Ministry Of Health [VR]
Republic of	10	2009.5	ram ragamenta ram rama rama rama rama rama rama ram
Moldova			
1120100 (10	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Multiple Indicator Cluster Survey [MICS Direct]
Monaco	22	2011.5	2012 Manager Marcaner States (Marca 2 Moor)
Wionaco	22	2011.5	2018 WHO Vital Registration Data 2018 version neighbouring [VR]
Mongolia	16	2011.5	2010 Time Regionation Data 2010 Totalon neighbouring [VII]
1.1011goilu	10	1993	1998 Reproductive Health Survey [Others Direct]
	5	2010.5	2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
	10	2010.5	WHO Vital Registration Data 2022 version [VR]
Montenegro	37	2021.5	
Montenegro	37	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Montserrat	30	2008.5	2021 WITO VIGH REGISTRATION Data 2022 VEISION [VR]
Montserrat	30	2008.5	2019 UNPD Vital Registration Data 2019 version [VR]
Morocco	28	2008.5	2017 OTTI D THAI ROGISHAHOH DAIA 2017 VOISION [VIX]
141010000	5	1977.5	1980 World Fertility Survey [Other DHS Direct]
	6	1977.3	1987 Demographic and Health Survey [DHS Direct]
	5	1985.5	1997 Demographic and Health Survey [DHS Direct]
	5	1989.5	
			1995 Demographic and Health Survey [DHS Direct]
	1 5	1994.5	1997 PAPG ENSME petit-echantillon 1997 [Others Direct]
	ر ا	2000.5	2003-2004 Demographic and Health Survey [DHS Direct]

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ODS.	obs. year	
	1	2015.5	2018 National Survey of Population and Family Health [Others Direct]
Mozambique	25	2008.5	
	7	2001.5	2003-2004 Demographic and Health Survey [DHS Direct]
	13	2006.5	2008 Multiple Indicator Cluster Survey [MICS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
Myanmar	10	2012.5	
	2	1985.5	1991 Population Change and Fertility Survey [Others Direct]
	1	1992	1997 Fertility and Reproductive Health Survey [Others Direct]
	1	1996	2001 Fertility and Reproductive Health Survey [Others Direct]
	1	2001	2007 Fertility and Reproductive Health Survey [Others Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
Namibia	20	2010.5	
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
Nauru			The state of the s
Nepal	44	2016.5	
- , - F	7	1974.5	1976 World Fertility Survey [Other DHS Direct]
	1	1986	1991 Fertility and Family Planning Survey [Others Direct]
	6	1994	1996 Demographic and Health Survey [DHS Direct]
	5	1998.5	2001 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Netherlands	72	2021.5	2017 Manapie indicator Glaster Sarvey [Micos Bricet]
rectionands	72	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
New Zealand	67	2016.5	2021 WHO Vital Registration Data 2022 Version [VR]
New Zealand	67	2016.5	2021 WHO Vital Registration Data 2022 version [VR]
Nicaragua	18	2010.5	2021 WITO VItal Registration Data 2022 Version [VR]
Micaragua	5	1994.5	1998 Demographic and Health Survey [DHS Direct]
	4	1994.5	2001 Demographic and Health Survey [DHS Direct]
	1	2004	2006 Demographic and Health Survey [Other DHS Direct]
	4	2004	2006-2007 Encuesta Nicaraguense de Demografia y Salud [Others Di-
	+	2003.3	
	4	2008.5	rect] 2011-2012 Encuesta Nicaraguense de Demografia y Salud [Others Di-
	4	2006.3	
Nigor	22	2010 5	rect]
Niger	32	2018.5	1002 Damagraphia and Health Survey [DUS Direct]
	6	1990.5	1992 Demographic and Health Survey [DHS Direct]
	7	1996.5	1998 Demographic and Health Survey [DHS Direct]
	6	2004	2006 Demographic and Health Survey [DHS Direct]
	3	2007.5	2010 Child Survival and Mortality Survey New [Others Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	2018.5	2021 Enquete Nationale sur la Fecondite et la Mortalite des Enfants de
			moins de 5 ans (ENAFEME) [Others Direct]
Nigeria	46	2016.5	
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	16	2007.5	2008 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Malaria Indicator Survey [Other DHS Direct]
	8	2011.5	2013 Demographic and Health Survey [DHS Direct]
	7	2016.5	2018 Demographic and Health Survey [DHS Direct]
Niue	2	2002.5	
	2	2002.5	2021 WHO Vital Registration Data 2022 version [VR]
Norway	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Oman	4	1990	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Oman	3	1983.5	1988 Child Health Survey [Others Direct]
	1	1990	1995 Family Health Survey [Others Direct]
Pakistan	67	2019.5	1773 Family Health Strivey [Others Direct]
1 axistaii	1	1969.5	1971 Population Growth Survey I [Others Direct]
	6	1973.5	1971 Population Growth Survey [Other DHS Direct]
	1	1973.3	1975 World Petulity Survey [Other Diris Direct] 1976-1978 Population Growth Survey II [Others Direct]
	1	1986	1988 Demographic Survey [Others Direct]
	5	1987.5	1990-1991 Demographic and Health Survey [DHS Direct]
	4	1987.5	1990-1991 Demographic and Health Survey [DHS Direct] 1998 Integrated Household Survey [Others Direct]
		1993.3	2000-2001 Reproductive Health and Family Planning Survey [Others
	1	1999	Direct]
	4	1997.5	2001 Integrated Household Survey [Others Direct]
	6	2004	2006-2007 Demographic and Health Survey [DHS Direct]
	20	2007.5	2008 Pakistan Demographic Survey [Others Direct]
	5	2009.5	2012-2013 Demographic and Health Survey [DHS Direct]
	1	2010.5	2013-2014 Social
Living Standard			
Measurement			
Survey [Others			
Direct]			
	5	2014.5	2017-2018 Demographic and Health Survey [DHS Direct]
	5	2016.5	2018-2019 Social
Living Standard		1	I.
Measurement			
Survey [Others			
Direct]			
· .	1	2019.5	2020 Pakistan Demographic Survey [Others Direct]
	1	1964	Population Growth Estimation Experiment [VR]
Palau	17	2005.5	· L · · · · · · · · · · · · · · · · · ·
	17	2005.5	2021 WHO Vital Registration Data 2022 version [VR]
Panama	5	1972.5	
1 unumu	5	17/2.3	Continued on next neces

Table 22 – continued from previous page

Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	1972.5	1975-1976 World Fertility Survey [Other DHS Direct]
Papua New Guinea	7	2013.5	
	1	1991	1996 Demographic and Health Survey [Other DHS Direct]
	1	2001	2006 Demographic and Health Survey [Other DHS Direct]
	5	2013.5	2016-2018 Demographic and Health Survey [DHS Direct]
Paraguay	19	2005.5	
<i>C</i> ,	5	1976.5	1979 World Fertility Survey [Other DHS Direct]
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	4	2001.5	2004 Reproductive Health Survey [Others Direct]
	5	2005.5	2008 Encuesta Nacional de Demografia y Salud Sexual y Reproductiva
		200010	[Others Direct]
Peru	83	2018.5	[[[]]]
	6	1975	1977-1978 World Fertility Survey [Other DHS Direct]
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991-1992 Demographic and Health Survey [DHS Direct]
	7	1994.5	1996 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	4	2000.5	2003-2008 Demographic and Health Survey [DHS Direct]
	4	2006.5	2009 Demographic and Health Survey [DHS Direct]
			T =
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	1	2008	2013 Demographic and Health Survey [DHS Direct]
	1	2009.5	2014 Encuesta Demografica y de Salud Familiar-ENDES Continua
	_	2011 7	[DHS Direct]
	5	2011.5	2014 National Demographic and Health Survey [Other DHS Direct]
	5	2014.5	2017 Demographic and Family Health Survey [Others Direct]
	5	2015.5	2018 Demographic and Family Health Survey [Other DHS Direct]
	5	2016.5	2019 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
	5	2017.5	2020 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
	5	2018.5	2021 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
Philippines	35	2014.5	
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 National Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Poland	72	2021.5	
	9	1958.5	UNPD Demographic Yearbook Data 2020 version [VR]
	63	2021.5	WHO Vital Registration Data 2022 version [VR]
Portugal	72	2021.5	
	5	1954.5	UNPD Demographic Yearbook Data 2020 version [VR]
	67	2021.5	WHO Vital Registration Data 2022 version [VR]
Qatar	30	2020.5	
			Continued on next page

Table 22 – continued from previous page

	Table 22 – continued from previous page				
	#	Most			
Country	obs.	recent	Data series name [source type]		
	ons.	obs. year			
	30	2020.5	2021 WHO Vital Registration Data 2022 version [VR]		
Romania	65	2021.5			
	3	1958.5	UNPD Demographic Yearbook Data 2020 version [VR]		
	62	2021.5	WHO Vital Registration Data 2022 version [VR]		
Russian Federation	41	2020.5	2		
	41	2020.5	2021 WHO Vital Registration Data 2022 version [VR]		
Rwanda	34	2016.5			
	5	1981	1983 World Fertility Survey [Other DHS Direct]		
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]		
	4	1992.5	2000 Demographic and Health Survey [DHS Direct]		
	4	2003	2005 Demographic and Health Survey [DHS Direct]		
	3	2004.5	2007-2008 Interim Demographic and Health Survey [Other DHS Di-		
		2004.3	rect]		
	4	2007.5	2010 Demographic and Health Survey [DHS Direct]		
	4	2011.5	2014-2015 Demographic and Health Survey [DHS Direct]		
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]		
Saint Kitts and	45	2016.5	2017 2020 Demographic and Hearth Survey [D110 Direct]		
Nevis	73	2010.3			
110113	45	2016.5	2021 WHO Vital Registration Data 2022 version [VR]		
Saint Lucia	61	2018.5	2021 WITO Vital Registration Data 2022 Version [VR]		
Samt Lucia	14	1968.5	UNPD Demographic Yearbook Data 2020 version [VR]		
	47	2018.5	WHO Vital Registration Data 2022 version [VR]		
Samoa	8	2016.5	WHO That Registration Data 2022 Version [VR]		
Samoa	1	1999	1999 Demographic and Health Survey [Others Direct]		
	1	1995	2000 Demographic and Vital Statistics Survey [Others Direct]		
	1	2011.4	2011 Population and Housing Census [Others Direct]		
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]		
San Marino	11	2003.5	2017 2020 Waitapie indicator claster ourvey [Wiecs Direct]		
San Marino	2	2003.5	WHO Vital Registration Data 2020 version [VR]		
	9	1998.5	WHO Vital Registration Data 2022 version [VR]		
Sao Tome and	15	2016.5	WHO That Registration Data 2022 Version [VR]		
Principe and	13	2010.3			
Timorpo	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]		
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]		
	5	2011.5	2019 Multiple Indicator Cluster Survey [MICS Direct]		
Saudi Arabia	6	2017.4			
Sunui i iiuoiu	1	1998.6	1999 Demographic Survey [Others Direct]		
	1	1999.6	2000 Demographic Survey [Others Direct]		
	1	2004.2	2004 Census [Others Direct]		
	1	2006.6	2007 Demographic Survey [Others Direct]		
	1	2013.9	2016 Demographic Survey [Others Direct]		
	1	2017.4	2017 Household Health Survey [Others Direct]		
Senegal	77	2016.5			
~ -11-011-	5	1975.5	1978 World Fertility Survey [Other DHS Direct]		
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]		
	5	1989.5	1992-1993 Demographic and Health Survey [DHS Direct]		
	5	1707.5	Continued on next nage		

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	Table 22 – continued from previous page			
Country	# obs.	Most recent	Data series name [source type]	
		obs. year	1007 Danis and Hadde Comer [DHC Direct]	
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]	
	6	1997 2003	1999-2000 Demographic and Health Survey [DHS Direct]	
	6		2005 Demographic and Health Survey [DHS Direct]	
	5 5	2005.5 2007.5	2008-2009 Malaria Indicator Survey [Other DHS Direct] 2010-2011 Demographic and Health Survey [DHS Direct]	
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct] 2012-2013 Demographic and Health Survey [DHS Direct]	
	5	2009.5	2012-2013 Demographic and Health Survey [DHS Direct]	
	5	2011.5	2014 Demographic and Health Survey [DHS Direct] 2015 Demographic and Health Survey [DHS Direct]	
	5	2012.5	2016 Demographic and Health Survey [DHS Direct]	
	5	2013.5	2017 Demographic and Health Survey [DHS Direct]	
	5	2014.5	2017 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct]	
	5	2015.5	2019 Demographic and Health Survey [DHS Direct]	
Serbia	37	2010.5	2019 Demographic and Health Survey [DHS Direct]	
Sciula	37	2021.5	2021 WHO Vital Registration Data 2022 version [VR]	
Seychelles	51	2019.5	2021 WITO VItal Registration Data 2022 Version [VR]	
Seychenes	51	2019.5	2021 WHO Vital Registration Data 2022 version [VR]	
Sierra Leone	18	2019.5	2021 WITO VItal Registration Data 2022 Version [VR]	
Sierra Leone	10	1992	1992 DSMS [Others Direct]	
	5	2000	2004 Census [Census Indirect]	
	7	2011.5	2013 Demographic and Health Survey [DHS Direct]	
	5	2011.5	2019 Demographic and Health Survey [DHS Direct]	
Singapore	71	2020.5	2017 Demographic and Health Survey [D113 Direct]	
Singapore	5	1954.5	UNPD Demographic Yearbook Data 2020 version [VR]	
	66	2020.5	WHO Vital Registration Data 2022 version [VR]	
Slovakia	40	2021.5	WHO Thai Registration Data 2022 Version [VR]	
Siovakia	40	2021.5	2021 WHO Vital Registration Data 2022 version [VR]	
Slovenia	40	2021.5	2021 Willo Vital Registration Data 2022 Version [VIV]	
Siovenia	40	2021.5	2021 WHO Vital Registration Data 2022 version [VR]	
Solomon Islands	6	2012.5	2021 Willow Man 108 Southard Battle 2022 Volume [Viv]	
Solomon Islands	1	2002	2007 Demographic and Health Survey [Other DHS Direct]	
	5	2012.5	2015 Demographic and Health Survey [Other DHS Direct]	
Somalia	5	2004		
	5	2004	2006 Multiple Indicator Cluster Survey [MICS Direct]	
South Africa	54	2021.5	7 L	
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]	
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]	
	44	2021.5	Rapid Mortality Surveillance (Preliminary) [VR]	
South Sudan				
Spain	71	2020.5		
_	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]	
Sri Lanka	79	2014.5		
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]	
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]	
	6	1990.5	1993 Demographic and Health Survey [Other DHS Direct]	
	6	1997.5	2000 Demographic and Health Survey [Other DHS Direct]	
	6	2003.5	2006 Demographic and Health Survey [Other DHS Direct]	
			Continued on next page	

Table 22 – continued from previous page

			e 22 – continued from previous page
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	2013.5	2016 Demographic and Health Survey [Other DHS Direct]
	46	2014.5	WHO Vital Registration Data 2022 version [VR]
Saint Vincent and	58	2017.5	
the Grenadines			
	10	1964.5	UNPD Demographic Yearbook Data 2020 version [VR]
	48	2017.5	WHO Vital Registration Data 2022 version [VR]
State of Palestine	25	2016.5	
	1	1992.5	1995 Demographic Survey [Others Direct]
	1	1997.5	2000 Health Survey [Others Direct]
	1	2002.3	2004 Demographic and Health Survey [Other DHS Direct]
	6	2005	2006 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	5	2008.1	2010 Multiple Indicator Cluster Survey-Family Health Survey [MICS
			Direct]
	1	2008	2011 Palestinian Family Survey [Others Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Sudan	24	2011.5	
	5	1975.5	1978-1979 World Fertility Survey [Other DHS Direct]
	5	1986.5	1989-1990 Demographic and Health Survey [DHS Direct]
	4	1989.5	1992 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	1	1995	1999 Safe Motherhood Survey [Others Direct]
	4	2007.5	2010 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Suriname	5	2015.5	
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Swaziland	14	2011.5	
	4	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Sweden	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Switzerland	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Syria	16	1999	
	5	1976	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	6	1999	2001 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
Tajikistan	5	2014.5	
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Tanzania	30	2012.5	
	5	1988.5	1991-1992 Demographic and Health Survey [DHS Direct]
	5	1994	1996 Demographic and Health Survey [DHS Direct]
	1	1	Continued on next page

Table 22 – continued from previous page

Table 22 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
	5	2001.5	2004-2005 Demographic and Health Survey [DHS Direct]
	5	2006.5	2010 Demographic and Health Survey [DHS Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
Thailand	14	1991	
	1	1975	1974-1975 Survey of Population Change [Others Direct]
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	1	1985	1985-1986 Survey of Population Change [Others Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	2	1991	1989 Survey of Population Change [Others Direct]
Timor Leste	6	2006.5	1707 But vey of Fopulation Change [Others Breece]
Timor Leste	1	1999	2003 Demographic and Health Survey [Other DHS Direct]
	5	2006.5	2009-2010 Demographic and Health Survey [DHS Direct]
Togo	21	2006.5	2007-2010 Demographic and Health Survey [DHS Difect]
Togo	5	1985.5	1000 Damagraphia and Haalth Survey [DHS Direct]
			1988 Demographic and Health Survey [DHS Direct]
	6	1996	1998 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Multiple Indicator Cluster Survey [MICS Direct]
Tonga	5	2016.5	
	1	2007.8	2012 National Demographic and Health Survey [DHS Direct]
	4	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Trinidad and To-	10	1984.5	
bago			
	5	1974.5	1977 World Fertility Survey [Other DHS Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
Tunisia	24	2017.5	
	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	5	1992.4	1994 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	1999	2001 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	1	2009.6	2011-2012 Multiple Indicator Cluster Survey [MICS Direct]
	5	2014.5	Vital Registration from Institut National de la Statistique [VR]
	3	2017.5	WHO Vital Registration Data 2022 version [VR]
Turkey	38	2019.5	
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [Other DHS Direct]
	1	2000.3	2003-2004 Demographic and Health Survey [Other DHS Direct]
	6	2003.8	2013 Demographic and Health Survey [Other DHS Direct]
	11	2010.5	WHO Vital Registration Data 2022 version [VR]
Turkmenistan		2019.5	WITO VITAL REGISTRATION DATA 2022 VEISION [VK]
Turkmemstan	6		2000 Damagraphia and Haalth Sugray [DIIC Direct]
	1 5	1995.6	2000 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct] Continued on next page.

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	Table 22 – continued from previous page			
	#	Most		
Country	obs.	recent	Data series name [source type]	
	ODS.	obs. year		
Turks and Caicos	39	2018.5		
Islands				
	2	2011.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]	
	37	2018.5	UNPD Vital Registration Data 2019 version [VR]	
Tuvalu	18	2016.5		
	1	2000.3	2002 Census [Others Direct]	
	1	2002.7	2007 Demographic and Health Survey [Other DHS Direct]	
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]	
	11	2005.5	WHO Vital Registration Data 2022 version [VR]	
Uganda	36	2013.5		
	5	1985.5	1988-1989 Demographic and Health Survey [DHS Direct]	
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]	
	5	1998	2000-2001 Demographic and Health Survey [DHS Direct]	
	6	2004	2006 Demographic and Health Survey [DHS Direct]	
	5	2007.5	2009-2010 Malaria Indicator Survey [Other DHS Direct]	
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]	
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]	
Ukraine	10	2009.5		
	1	1995	1999 Reproductive Health Survey [Others Direct]	
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]	
	4	2009.5	2012 Multiple Indicator Cluster Survey [MICS Direct]	
United Arab Emi-	9	2019.5		
rates				
	1	1991	1995 Family Health Survey [Others Direct]	
	2	2019.5	Vital Registration by Federal Competitiveness and Statistics Center	
			[VR]	
	6	2014.5	Vital Registration Data published in UAE IN FIGURES 2014 [VR]	
United Kingdom	71	2020.5		
	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]	
United States of	70	2019.5		
America				
	70	2019.5	2021 WHO Vital Registration Data 2022 version [VR]	
Uruguay	62	2020.5		
	62	2020.5	2021 WHO Vital Registration Data 2022 version [VR]	
Uzbekistan	1	1997		
	1	1997	2002 Demographic and Health Survey [Other DHS Direct]	
Vanuatu	1	2009		
	1	2009	2013 Demographic and Health Survey [Other DHS Direct]	
Venezuela (Boli-	31	2014.5		
varian Republic				
of)				
	5	1974.5	1977 World Fertility Survey [Other DHS Direct]	
	1	1995.5	1998 National Population and Family Survey [Others Direct]	
	25	2014.5	WHO Vital Registration Data 2022 version [VR]	
Vietnam	34	2020.8		
	5	1985.5	1988 National Demographic and Health Survey [Other DHS Direct]	

Table 22 – continued from previous page

			e 22 – continued from previous page
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	1	1988.5	1994 Intercensal Demographic Survey [Others Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	3	1993.4	1998 Vietnam Longitudinal Survey (VLSS) [Others Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	1	2011.8	2012 Population Change and Family Planning Survey [Others Direct]
	5	2010.5	2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
	1	2012.8	2013 Population Change and Family Planning Survey [Others Direct]
	1	2013.8	2014 Intercensal Population and Housing Survey [Others Direct]
	1	2014.8	2015 Population Change and Family Planning Survey [Others Direct]
	1	2015.8	2016 Population Change and Family Planning Survey [Others Direct]
	1	2016.8	2017 Population Change and Family Planning Survey [Others Direct]
	1	2017.8	2018 Population Change and Family Planning Survey [Others Direct]
	1	2018.8	2019 Census [Others Direct]
	1	2019.8	2020 Population Change and Family Planning Survey (Preliminary)
			[Others Direct]
	1	2020.8	2021 Population Change and Family Planning Survey (Preliminary)
			[Others Direct]
Yemen	32	2010.5	
	3	1977	1979 World Fertility Survey [Other DHS Direct]
	6	1989.5	1991-1992 Demographic and Health Survey [DHS Direct]
	8	1996	1997 Demographic and Health Survey [DHS Direct]
	5	2001.5	2003 Pan Arab Project for Family Health Family Health Survey [Others
	_	2002 7	Direct]
	5	2003.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
Zambia	33	2015.5	
	5	1990	1992 Demographic and Health Survey [DHS Direct]
	6	1994.5	1996-1997 Demographic and Health Survey [DHS Direct]
	6	1999.5	2001-2002 Demographic and Health Survey [DHS Direct]
	6	2004.5	2007 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013-2014 Demographic and Health Survey [DHS Direct]
7. 1.1	5	2015.5	2018 Demographic and Health Survey [DHS Direct]
Zimbabwe	41	2016.5	1000 1000 D
	5	1985.5	1988-1989 Demographic and Health Survey [DHS Direct]
	5	1991.5	1994 Demographic and Health Survey [DHS Direct]
	1 -	1997	1997 Inter-censal Demographic Survey [Others Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
	5	2006.5	2009 Multiple Indicator Cluster Survey [MICS Direct]
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]

Table 23: **Sex ratio data sources for age group 1–4, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
Afghanistan	15	2015.5	
	5	2007.5	2010 Afghanistan Mortality Survey [DHS Direct]
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Afghanistan Health Survey [Others Direct]
Albania	24	2021.5	
	4	1999.5	2002 Reproductive Health Survey [Others Direct]
	4	2000.5	2008-2009 Demographic and Health Survey [DHS Direct]
	16	2021.5	WHO Vital Registration Data 2022 version [VR]
Algeria	39	2020.5	
	1	1976.5	1986 Enquete nationale sur la fecondite [Others Direct]
	5	1989.5	1992 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	1	1993	1995 Enquete nationale sur les objectifs [Others Direct]
	5	2000	2002 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	22	2020.5	Vital Registration from Demographie Algerienne [VR]
	5	1986.5	WHO Vital Registration Data 2022 version [VR]
Andorra	32	2014.5	
	5	2014.5	WHO Vital Registration Data 2019 version [VR]
	5	2014.5	WHO Vital Registration Data 2020 version [VR]
	10	2014.5	WHO Vital Registration Data 2021 version [VR]
	12	2014.5	WHO Vital Registration Data 2022 version [VR]
Angola	5	2012.5	
	5	2012.5	2015-2016 Inquerito de Indicadores Multiplos e de Saude [DHS Direct]
Anguilla	11	2015.5	
	11	2015.5	2019 UNPD Vital Registration Data 2019 version [VR]
Antigua and Bar-	51	2017.5	
buda			
	11	1960.5	UNPD Demographic Yearbook Data 2020 version [VR]
	40	2017.5	WHO Vital Registration Data 2022 version [VR]
Argentina	45	2020.5	
	45	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Armenia	12	2007.5	
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	4	1997.5	2005 Demographic and Health Survey [DHS Direct]
	3	2007.5	2010 Demographic and Health Survey [DHS Direct]
Australia	71	2020.5	
	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Austria	66	2020.5	
	66	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Azerbaijan	11	2008.5	
	1	1996	2001 Reproductive Health Survey [Others Direct]

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Table 23 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Azerbaijan National Demographic and Health Survey [Other DHS
			Direct]
Bahamas	48	2020.5	
	48	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Bahrain	42	2019.5	
	1	1984	1989 Child Health Survey [Others Direct]
	1	1990.5	1995 Gulf Family Health Survey [Others Direct]
	5	2019.5	UNPD Vital Registration Data 2019 version [VR]
	35	2014.5	WHO Vital Registration Data 2022 version [VR]
Bangladesh	91	2020.5	
	5	1972.5	1975-1976 World Fertility Survey [Other DHS Direct]
	1	1981	1988-1989 Fertility Survey [Others Direct]
	4	1990.5	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1993.5	1996-1997 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999-2000 Demographic and Health Survey [DHS Direct]
	1	1999	2001 Maternal Health Services and Maternal Mortality Survey [Other
			DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	1	2008.1	2012-2013 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017-2018 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
	10	2020.5	Sample Vital Statistics [VR]
	29	2010.5	SVital Registration from Report on Sample Vital Registration System
			2010 [VR]
Barbados	54	2013.5	
	54	2013.5	2021 WHO Vital Registration Data 2022 version [VR]
Belarus	39	2019.5	
201410	39	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Belgium	70	2019.5	2022 Willow Final Regionalities 2 and 2022 Vention [121]
Beigiani	4	1953.5	UNPD Demographic Yearbook Data 2020 version [VR]
	66	2019.5	WHO Vital Registration Data 2022 version [VR]
Belize	23	2018.5	WITO VIAIL REGISTRATION Data 2022 VOISION [VIX]
Delize	5	1988.5	1991 Family Health Survey [Others Direct]
	18	2018.5	WHO Vital Registration Data 2022 version [VR]
Benin	30	2014.5	WHO With Registration Data 2022 Version [VR]
Dellill	5	1978.5	1981-1982 World Fertility Survey [Other DHS Direct]
	5	1978.5	1996 Demographic and Health Survey [DHS Direct]
	5	1993.5	2001 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
		2003.3	2006 Demographic and Health Survey [DHS Direct] 2014 Multiple Indicator Cluster Survey [MICS Direct]
	5 5	2011.5	·
Dhutan			2017-2018 Demographic and Health Survey [DHS Direct]
Bhutan	3	1999.7	Continued on next page

Table 23 – continued from previous page

		Tabi	e 23 – continued from previous page
	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
	1	1983.5	1984 Demographic Sample Survey [Others Direct]
	1	1993.5	1994 National Health Survey [Others Direct]
	1	1999.7	2000 National Health Survey [Others Direct]
Bolivia (Pluri-	30	2013.5	,
national State			
of)			
,	5	1986.5	1989 Demographic and Health Survey [DHS Direct]
	5	1990.5	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Demographic and Health Survey [Other DHS Direct]
Bosnia and Herze-	25	2016.5	
govina and Herze-		2010.5	
Sovina	25	2016.5	2021 WHO Vital Registration Data 2022 version [VR]
Botswana	11	2005.4	2021 Willo Vital Registration Data 2022 Version [VR]
Dotswana	5	1985.5	1988 Family Health Survey [DHS Direct]
	6	2005.4	2007 Family Health Survey [Others Direct]
Brazil	10	1993.5	2007 I anning Hearth Survey [Others Direct]
Diazii	5	1993.5	1986 Demographic and Health Survey [DHS Direct]
	5	1983.5	1996 Demographic and Health Survey [DHS Direct]
British Virgin Is-	37	2008.5	1770 Demographic and Health Survey [D113 Direct]
lands	31	2006.5	
lanus	37	2008.5	2019 UNPD Vital Registration Data 2019 version [VR]
Brunei	63	2019.5	2019 ONI D Vital Registration Data 2019 Version [VR]
Diunci	25	1978.5	UNPD Demographic Yearbook Data 2020 version [VR]
	38	2019.5	WHO Vital Registration Data 2022 version [VR]
Bulgaria	58	2019.5	WHO Vital Registration Data 2022 Version [VR]
Duigaria	58	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Burkina Faso			2021 WHO VItal Registration Data 2022 Version [VK]
Durkilla Faso	20	2007.5	1002 Damagraphia and Haalth Survey [DHS Direct]
	5	1989.5 1995.5	1993 Demographic and Health Survey [DHS Direct] 1998-1999 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5 5	2000.5	2003 Demographic and Health Survey [DHS Direct] 2010 Demographic and Health Survey [DHS Direct]
D.,			2010 Demographic and Health Survey [DHS Direct]
Burundi	15	2013.5	1070 Dama amanhia Sumray [Oth and Dimast]
	1 5	1970.5	1970 Demographic Survey [Others Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct]
Comball	4	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
Cambodia	20	2011.5	2000 Dama analis and Harlet Common IDHC D'
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
C	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
Cameroon	30	2015.5	1070 W 11E (1), 0 104 DHGB; 3
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]

Table 23 – continued from previous page

	Table 23 – continued from previous page			
Country	#	Most recent	Data series name [source type]	
Country	obs.	obs. year	Data series name [source type]	
	5	1988.5	1991 Demographic and Health Survey [DHS Direct]	
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]	
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]	
	5	2001.5	2004 Demographic and Health Survey [DHS Direct] 2011 Demographic and Health Survey [DHS Direct]	
	5	2008.5	2011 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct]	
Canada	71	2013.5	2018 Demographic and Health Survey [D118 Direct]	
Callada	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]	
Cono Vordo	32	2020.5	2021 WHO VItal Registration Data 2022 Version [VK]	
Cape Verde		1995.5	1000 Dama aranhia and Dama dustiva Haalth Survey [Others Direct]	
	5		1998 Demographic and Reproductive Health Survey [Others Direct]	
	1	2002.2	2005 Demographic and Health Survey [DHS Direct]	
C . 1 . A.C.	26	2016.5	WHO Vital Registration Data 2022 version [VR]	
Central African Republic	10	2015.5		
	5	1991.5	1994-1995 Demographic and Health Survey [DHS Direct]	
	5	2015.5	2018-2019 Multiple Indicator Cluster Survey [MICS Direct]	
Chad	15	2011.5		
	5	1993.5	1996-1997 Demographic and Health Survey [DHS Direct]	
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]	
	5	2011.5	2014-2015 Demographic and Health Survey [DHS Direct]	
Chile	56	2015.5		
	56	2015.5	2021 WHO Vital Registration Data 2022 version [VR]	
China	5	1986		
	5	1986	1988 National Survey on Fertility and Birth Control [Others Direct]	
Colombia	35	2012.5		
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]	
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]	
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]	
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]	
	5	2001.5	2005 Demographic and Health Survey [DHS Direct]	
	5	2006.5	2010 Demographic and Health Survey [DHS Direct]	
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]	
Comoros	6	2017.5		
	5	1993.5	1996 Demographic and Health Survey [DHS Direct]	
	1	2017.5	2017 Census [Others Direct]	
Congo	10	2008.5		
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]	
	5	2008.5	2011-2012 Demographic and Health Survey [DHS Direct]	
Democratic Re-	10	2010.5		
public of the Congo				
Congo	5	2004.5	2007 Demographic and Health Survey [DHS Direct]	
	5	2010.5	2013-2014 Demographic and Health Survey [DHS Direct]	
Cook Islands	7	2001.5	2010 2011 Demographic and Headin barrey [Dilo Direct]	
COOK ISIGIUS	7	2001.5	2021 WHO Vital Registration Data 2022 version [VR]	
Costa Rica	71	2020.5	2021 THO THE RESIDENCE DEED 2022 VEISION [VIV]	
Costa Rica	6	1955.5	UNPD Demographic Yearbook Data 2020 version [VR]	
	0	1,,,,,	Continued on next page	

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Table 23 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	65	2020.5	WHO Vital Registration Data 2022 version [VR]
Cote d'Ivoire	31	2013.5	
	1	1978.5	1978 Demographic Survey Repeated Passages [Others Direct]
	5	1977.5	1980-1981 World Fertility Survey [Other DHS Direct]
	5	1991.5	1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 AIDS Indicator Survey [Other DHS Direct]
	5	2008.5	2011-2012 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Multiple Indicator Cluster Survey [MICS Direct]
Croatia	39	2021.5	
	39	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Cuba	55	2020.5	-
	55	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Cyprus	35	2020.5	
•	35	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Czech Republic	39	2021.5	
1	39	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Denmark	70	2021.5	
	70	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Djibouti	6	2010	
2,100 000	5	1999.5	2002 Pan Arab Project for Family Health Family Health Survey [Others
		177710	Direct]
	1	2010	2012 Pan Arab Project for Family Health Family Health Survey [Others
	•	2010	Direct]
Dominica	36	2015.5	- Directj
Dominica	36	2015.5	2021 WHO Vital Registration Data 2022 version [VR]
Dominican Repub-	45	2016.5	2021 Willo William Registration Data 2022 Version [VII]
lic	13	2010.3	
ne	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	5	1972.5	1986 Demographic and Health Survey [DHS Direct]
	5	1983.5	1990 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	5	2004.5	2002 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct] 2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct] 2019 Multiple Indicator Cluster Survey [MICS Direct]
Ecuador	30	2010.5	2017 Manaple maleator Cluster Survey [MICS Direct]
Leuauoi	5	1976.5	1979-1980 World Fertility Survey [Other DHS Direct]
	5	1970.5	1979-1980 World Fertility Survey [Other Dris Direct] 1987 Demographic and Health Survey [DHS Direct]
	3	1984.5	1989 Demographic and Maternal and Child Health Survey [Others Di-
	5	1700.3	
	5	1996.5	rect] 1999 Demographic and Maternal and Child Health Survey [Others Di-
	3	1770.3	, - · · · · · · · · · · · · · · · · · ·
	5	2001.5	rect] 2004 Demographic and Maternal and Child Health Survey [Others Di
	3	2001.3	2004 Demographic and Maternal and Child Health Survey [Others Direct]
			rect]

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	#	Most	
Country	obs.	recent	Data series name [source type]
	uns.	obs. year	
	5	2009.5	2012 Encuesta Nacional de Salud y Nutricion, Imputed birth and deaths
			[Others Direct]
	2	2017.5	Adjusted Vital Registration (Live Births) [VR]
Egypt	52	2011.5	
	5	1977.5	1980 World Fertility Survey [Other DHS Direct]
	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]
	1	1993	1997 Interim Demographic and Health Survey [Other DHS Direct]
	1	1994	1998 Interim Demographic and Health Survey [Other DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [Other DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
El Salvador	8	2010.5	
	1	1985.5	1988 National Family Health Survey [Others Direct]
	1	1996	1998 National Family Health Survey [Others Direct]
	1	1999.5	2002-2003 National Family Health Survey [Others Direct]
	5	2010.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Equatorial Guinea	1	2006.7	
	1	2006.7	2011 Demographic and Health Survey [DHS Direct]
Eritrea	15	2007.5	
	4	1992.5	1995-1996 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Population and Health Survey [Other DHS Direct]
	1	2005	2010 Population and Health Survey (Preliminary) [Other DHS Direct]
Estonia	40	2020.5	
	40	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Ethiopia	21	2013.5	
	1	1977.7	1981 Demographic Survey [Others Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2007.5	2011 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia			
Fiji	19	2019.5	
	5	1971.5	1974 World Fertility Survey [Other DHS Direct]
	14	2019.5	WHO Vital Registration Data 2022 version [VR]
Finland	72	2021.5	
	2	1951.5	UNPD Demographic Yearbook Data 2020 version [VR]
	70	2021.5	WHO Vital Registration Data 2022 version [VR]
France	70	2019.5	
			Continued on next page

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Table 23 – continued from previous page			
~	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	70	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Gabon	9	2009.5	
	4	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
The Gambia	10	2016.5	
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]
Georgia	6	2002.5	
_	4	1996.5	1999-2000 Reproductive Health Survey [Others Direct]
	2	2002.5	2005 Reproductive Health Survey [Others Direct]
Germany	52	2021.5	
· ·	52	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Ghana	46	2014.5	
	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	5	1990.5	1993-1994 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	1	2002	2007 Maternal Health Survey [Other DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Maternal Health Survey [Other DHS Direct]
	5	2014.5	2017-2018 Multiple Indicator Cluster Survey [MICS Direct]
Greece	65	2020.5	2017 2010 Munipie indicator claster burvey [Mices Brieet]
Greece	65	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Grenada	48	2018.5	2021 Wile Vital Registration Data 2022 Version [VR]
Grenada	21	1978.5	UNPD Demographic Yearbook Data 2020 version [VR]
	27	2018.5	WHO Vital Registration Data 2022 version [VR]
Guatemala	21	2010.5	WHO Vital Registration Data 2022 Version [VR]
Guatellala	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
		1984.5	1987 Demographic and Health Survey [DHS Direct] 1995 Demographic and Health Survey [DHS Direct]
	5	1992.5 1995.5	1993 Demographic and Health Survey [DHS Direct] 1998-1999 Demographic and Health Survey [Other DHS Direct]
	1	1996.5 2003.8	2002 Reproductive Health Survey-CDC [Others Direct]
	1	2003.8	2008-2009 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Others Direct]
	5	2011.5	ers Direct] 2014-2015 Demographic and Health Survey [DHS Direct]
Cuimas		2011.5	2014-2013 Demographic and nearth survey [DHS Direct]
Guinea	21	2010.5	1054 1055 Cymray [Oth one Direct]
	1	1955	1954-1955 Survey [Others Direct]
	1	1987.8	1992 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
C : D:	4	2010.5	2018 Demographic and Health Survey [DHS Direct]
Guinea-Bissau	10	2011.5	2010 M 1: 1 I I : 4 CI + C
	5	2007.5	2010 Multiple Indicator Cluster Survey [MICS Direct]

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Guyana	18	2011.5	
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	4	2002.5	2005 AIDS Indicator Survey [Other DHS Direct]
	4	2001.5	2009 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Haiti	30	2013.5	
	4	1974.5	1977 World Fertility Survey [Other DHS Direct]
	1	1984.5	1987 Mortality, morbidity and service utilization survey [Others Direct]
	5	1991.5	1994-1995 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005-2006 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
Honduras	17	2016.5	
	1	1971.5	1972 National Demographic Survey [Others Direct]
	2	1979	1987 National Survey of Epidemiology and Family Health [Others Di-
			rect]
	5	2002.5	2005-2006 Demographic and Health Survey [DHS Direct]
	4	2008.5	2011-2012 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Hungary	71	2020.5	2015 Humple Hazemer elaster Survey [Hilles Bilett]
Trungury	5	1954.5	UNPD Demographic Yearbook Data 2020 version [VR]
	66	2020.5	WHO Vital Registration Data 2022 version [VR]
Iceland	59	2018.5	WITO VIAIL REGISTRATION Data 2022 VOISION [VIX]
reciuna	1	1950.5	UNPD Demographic Yearbook Data 2020 version [VR]
	58	2018.5	WHO Vital Registration Data 2022 version [VR]
India	60	2020.5	WHO With Registration Data 2022 Version [VR]
mara	5	1989.5	1992-1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998-1999 Demographic and Health Survey [DHS Direct]
	5	2002.5	2005-2006 Demographic and Health Survey [DHS Direct]
	15	1989.5	Sample Registration System [VR]
	21	2011.5	Sample Registration System [VR]
	1	2011.5	Sample Registration System [VR]
	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	2013.5 2015.5	Sample Registration System [VR]
			Sample Registration System [VR]
	1	2017.5	Sample Registration System [VR]
	1	2018.5	Sample Registration System [VR]
	1	2019.5	Sample Registration System [VR]
	1	2020.5	Sample Registration System [VR]
Tudonosis	1	2016.5	Sample Registration System Statistical Report [VR]
Indonesia	42	2014.5	1076 Would Fastility Common [Other DUC Direct]
	5	1973.5	1976 World Fertility Survey [Other DHS Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991 Demographic and Health Survey [DHS Direct]
	5	1991.5	1994 Demographic and Health Survey [DHS Direct]

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Table 23 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	uns.	obs. year	
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002-2003 Demographic and Health Survey [DHS Direct]
	4	1999.5	2007 Demographic and Health Survey [DHS Direct]
	4	2009.5	2012 Demographic and Health Survey [DHS Direct]
	4	2014.5	2017 Demographic and Health Survey [DHS Direct]
Iran (Islamic Re-	28	2008.5	and the state of t
public of)		2000.6	
puelle el)	1	1974.5	1973-1976 Population Growth Survey [Others Direct]
	26	2000	2000 Demographic and Health Survey [Other DHS Direct]
	1	2008.5	2010 National Multiple-Indicator Demographic and Health Survey
	1	2006.5	[Other DHS Direct]
Iroa	14	2008.5	[Ould Dits Ditect]
Iraq	14	1973.5	1973 Demographic Sample Survey and Sample Registration System
	1	17/3.3	[Others Direct]
	,	2001	
	3	2001	2004 Living Conditions Survey [Others Direct]
	5	2003.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
	5	2008.5	2011 Multiple Indicator Cluster Survey [MICS Direct]
Ireland	69	2018.5	
	69	2018.5	2021 WHO Vital Registration Data 2022 version [VR]
Israel	69	2021.5	
	22	1974.5	UNPD Demographic Yearbook Data 2020 version [VR]
	47	2021.5	WHO Vital Registration Data 2022 version [VR]
Italy	70	2020.5	
	70	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Jamaica	7	2003	
	5	1972.5	1975-1976 World Fertility Survey [Other DHS Direct]
	2	2003	2008-2009 Reproductive Health Survey [Others Direct]
Japan	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Jordan	35	2014.5	
	5	1973.5	1976 World Fertility Survey [Other DHS Direct]
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	1999.5	2002 Demographic and Health Survey [DHS Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Kazakhstan	9	1996.5	
- MACHINIUMII	4	1992.5	1995 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
Kenya	36	2019.2	1777 Demographic and Heatth Darvey [D110 D11001]
Killya	5	1974.5	1977-1978 World Fertility Survey [Other DHS Direct]
	5	1974.5	1989 Demographic and Health Survey [DHS Direct]
		1983.3 1990.5	
	5		1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]
	1	2019.2	2019 Census [Others Direct]
Kiribati			
Democratic Peo-			
ple's Republic of			
Korea			
Republic of Korea	26	2021.5	
Republic of Roica	5	1971.5	1974 World Fertility Survey [Other DHS Direct]
	21	2021.5	WHO Vital Registration Data 2022 version [VR]
Vacana	11	2019.5	WHO VITAL REGISTRATION DATA 2022 VEISION [VK]
Kosovo			2012 2014 Matrials I. I. I'm and Claster Common PMICC Directal
	5	2010.5	2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
17 .	4	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Kuwait	44	2019.5	
	44	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Kyrgyzstan	17	2015.5	
	4	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	3	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Lao People's	11	2008.5	
Democratic Re-			
public			
_	1	1989.5	1994 Fertility and Birth Spacing Survey [Others Direct]
	5	2002.5	2005 Reproductive Health Survey [Others Direct]
	5	2008.5	2012 Lao Social Indicator Survey (combined Multiple Indicator Cluster
			Survey4/Demographic and Health Survey) [DHS Direct]
Latvia	42	2021.5	<i>y</i> 21
	42	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Lebanon	4	2002	2021 Hillo Ham Hogistian Daw 2022 Holston [Hil]
Leounon	4	2002	2004 Pan Arab Project for Family Health Family Health Survey [Others
	•	2002	Direct]
Lesotho	26	2016.3	Direction of the control of the cont
Lesonio	5	1974.5	1977 World Fertility Survey [Other DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2000.5	2014 Demographic and Health Survey [DHS Direct]
		2011.3	2014 Demographic and Health Survey [DHS Direct] 2016 Census [Others Direct]
	1 5	2016.3	
Liboria			2018 Multiple Indicator Cluster Survey [MICS Direct]
Liberia	25	2016.5	1006 Damagraphia and Health Comment [DHC Discott
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008-2009 Malaria Indicator Survey [Other DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]
Libya	10	2005	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ODS.	obs. year	
	5	1992.5	1995 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	2005	2007 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
Lithuania	54	2021.5	
	54	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Luxembourg	60	2017.5	
	10	1959.5	UNPD Demographic Yearbook Data 2020 version [VR]
	1	1961.5	WHO Good Vital Registration Data 2018 version [VR]
	49	2017.5	WHO Vital Registration Data 2022 version [VR]
Macedonia	39	2020.5	
	39	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Madagascar	26	2015.5	
1.1404545041	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]
	1	2005.4	2012-2013 National Survey on Monitoring the MDGs (ENSOMD)
	1	2005.4	[DHS Direct]
	5	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Malawi	37	2015.5	2018 Multiple findicator Cluster Survey [MICS Direct]
Malawi		1971	1970 Population Change Survey [Others Direct]
	1	1983.5	
	1		1984 Family Formation Survey [Others Direct]
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2001.5	2004 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013-2014 MDG Endline Survey [MICS Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
26.1	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Malaysia	5	2015.5	ATT 100 C C FATEL
	2	2012.5	Vital Statistics [VR]
	1	2013.5	Vital Statistics [VR]
3.6.11	2	2015.5	Vital Statistics [VR]
Maldives	25	2020.5	100-5
	1	1998	1997 Poverty and Vulnerability Survey [Others Direct]
	5	2006.5	2009 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016-2017 Demographic and Health Survey [DHS Direct]
	14	2020.5	WHO Vital Registration Data 2022 version [VR]
Mali	25	2015.5	
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	1992.5	1995-1996 Demographic and Health Survey [DHS Direct]
	5	1998.5	2001 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Demographic and Health Survey [DHS Direct]
Malta	58	2020.5	
			Continued on next page

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Table 23 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	58	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Marshall Islands	1	2002.1	
	1	2002.1	2007 Demographic and Health Survey [Other DHS Direct]
Mauritania	25	2016.5	
	5	1978.5	1981-1982 World Fertility Survey [Other DHS Direct]
	3	1985	1990 Maternal and Child Health Survey [Others Direct]
	5	1997.5	2000-2001 Demographic and Health Survey [DHS Direct]
	1	1998.9	2003-2004 EMIP survey [Others Direct]
	1	2012.8	2013 Census [Others Direct]
	5	2012.5	2015 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2021 Demographic and Health Survey [DHS Direct]
Mauritius	70	2020.5	
	6	1956.5	UNPD Demographic Yearbook Data 2020 version [VR]
	64	2020.5	WHO Vital Registration Data 2022 version [VR]
Mexico	21	2016.5	
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Encuesta Nacional de la Dinamica Demografica (ENADID) [Oth-
		2013.8	ers Direct]
	11	2016.5	Vital Registration Data From Mexico Ministry Of Health [VR]
Republic of	9	2009.5	The registration batter from the stoot frimingly of freedom [, rej
Moldova		2007.5	
1,10100 , 1	5	2002.5	2005 Demographic and Health Survey [DHS Direct]
	4	2009.5	2012 Multiple Indicator Cluster Survey [MICS Direct]
Monaco	22	2011.5	2012 Manapie maleuter etaster survey [Miess Bheet]
William	22	2011.5	2018 WHO Vital Registration Data 2018 version neighbouring [VR]
Mongolia	16	2019.5	2010 Wile Vital Registration Data 2010 Version neighboaring [VR]
Wongona	1	1993	1998 Reproductive Health Survey [Others Direct]
	5	2010.5	2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
	10	2019.5	WHO Vital Registration Data 2022 version [VR]
Montenegro	36	2021.5	WHO That Registration Data 2022 Version [VR]
Wiontenegro	36	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Montserrat	24	2008.5	2021 WHO Vital Registration Data 2022 Version [VR]
Wioniscitat	24	2008.5	2019 UNPD Vital Registration Data 2019 version [VR]
Morocco	27	2015.5	201) ON D Vital Registration Data 201) Version [VR]
IVIOIUCCU	5	1977.5	1980 World Fertility Survey [Other DHS Direct]
	5	1977.5	1980 World Fertility Survey [Other DHS Direct] 1987 Demographic and Health Survey [DHS Direct]
	5	1984.5 1989.5	1987 Demographic and Health Survey [DHS Direct] 1992 Demographic and Health Survey [DHS Direct]
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	1	1992.5	1993 PAPG ENSME petit-echantillon 1997 [Others Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [DHS Direct]
	1	2000.5	2018 National Survey of Population and Family Health [Others Direct]
Mozambique	15	2013.5	2010 Ivanonai Survey of Fopulation and Family Health [Others Direct]
wiozamoique		2008.5	2002 2004 Damagraphia and Haalth Survey [DUS Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Multiple Indicator Cluster Survey [MICS Direct]
Muonmor	5		2011 Demographic and Health Survey [DHS Direct]
Myanmar	10	2012.5	Continued on next nego

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	#	Most	
Country	obs.	recent	Data series name [source type]
	uns.	obs. year	
	2	1985.5	1991 Population Change and Fertility Survey [Others Direct]
	1	1992	1997 Fertility and Reproductive Health Survey [Others Direct]
	1	1996	2001 Fertility and Reproductive Health Survey [Others Direct]
	1	2001	2007 Fertility and Reproductive Health Survey [Others Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
Namibia	20	2010.5	
Tumora	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
Nauru	3	2010.3	2013 Demographic and Health Survey [D113 Direct]
	41	2016.5	
Nepal			1076 Would Famility Compay [Other DUC Direct]
	5	1973.5	1976 World Fertility Survey [Other DHS Direct]
	1	1986	1991 Fertility and Family Planning Survey [Others Direct]
	5	1993.5	1996 Demographic and Health Survey [DHS Direct]
	5	1998.5	2001 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Netherlands	72	2021.5	
	72	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
New Zealand	67	2016.5	
	67	2016.5	2021 WHO Vital Registration Data 2022 version [VR]
Nicaragua	17	2008.5	
	5	1994.5	1998 Demographic and Health Survey [DHS Direct]
	4	1993.5	2001 Demographic and Health Survey [DHS Direct]
	4	2003.5	2006-2007 Encuesta Nicaraguense de Demografia y Salud [Others Di-
			rect]
	4	2008.5	2011-2012 Encuesta Nicaraguense de Demografia y Salud [Others Di-
			rect]
Niger	28	2018.5	
- 1.56-1	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	3	2007.5	2010 Child Survival and Mortality Survey New [Others Direct]
	5	2007.5	2012 Demographic and Health Survey [DHS Direct]
	5	2018.5	2021 Enquete Nationale sur la Fecondite et la Mortalite des Enfants de
		2016.5	moins de 5 ans (ENAFEME) [Others Direct]
Nigaria	36	2017.5	monis de 3 ans (ENAT-ENIE) [Oulets Difect]
Nigeria			1000 Demographic and Health Company (DUC Dimet)
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Malaria Indicator Survey [Other DHS Direct]
	8	2011.5	2013 Demographic and Health Survey [DHS Direct]

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~ .	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	8	2017.5	2018 Demographic and Health Survey [DHS Direct]
Niue			
Norway	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Oman	4	1990	
	3	1983.5	1988 Child Health Survey [Others Direct]
	1	1990	1995 Family Health Survey [Others Direct]
Pakistan	69	2016.5	
	1	1969.5	1971 Population Growth Survey I [Others Direct]
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	1	1977	1976-1978 Population Growth Survey II [Others Direct]
	1	1986	1988 Demographic Survey [Others Direct]
	5	1987.5	1990-1991 Demographic and Health Survey [DHS Direct]
	7	1995.5	1998 Integrated Household Survey [Others Direct]
	1	1999	2000-2001 Reproductive Health and Family Planning Survey [Others
			Direct]
	7	1997.5	2001 Integrated Household Survey [Others Direct]
	5	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	20	2007.5	2008 Pakistan Demographic Survey [Others Direct]
	5	2009.5	2012-2013 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017-2018 Demographic and Health Survey [DHS Direct]
	5	2016.5	2018-2019 Social
Living Standard	'		
Measurement			
Survey [Others			
Direct]			
	1	1964	Population Growth Estimation Experiment [VR]
Palau	10	2002.5	
	10	2002.5	2021 WHO Vital Registration Data 2022 version [VR]
Panama	5	1972.5	
	5	1972.5	1975-1976 World Fertility Survey [Other DHS Direct]
Papua New Guinea	7	2013.5	, , , ,
	1	1991	1996 Demographic and Health Survey [Other DHS Direct]
	1	2001	2006 Demographic and Health Survey [Other DHS Direct]
	5	2013.5	2016-2018 Demographic and Health Survey [DHS Direct]
Paraguay	18	2005.5	
	5	1976.5	1979 World Fertility Survey [Other DHS Direct]
	5	1987.5	1990 Demographic and Health Survey [DHS Direct]
	4	2001.5	2004 Reproductive Health Survey [Others Direct]
	4	2005.5	2008 Encuesta Nacional de Demografia y Salud Sexual y Reproductiva
		, , , ,	[Others Direct]
Peru	80	2018.5	Land to the control of the control o
	5	1974.5	1977-1978 World Fertility Survey [Other DHS Direct]
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]
	5	1988.5	1991-1992 Demographic and Health Survey [DHS Direct]
	5	1988.5	1996 Demographic and Health Survey [DHS Direct]
	5	1773.3	Continued on next page.

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	5	1997.5	2000 Demographic and Health Survey [DHS Direct]
	4	2000.5	2003-2008 Demographic and Health Survey [DHS Direct]
	4	2006.5	2009 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Demographic and Health Survey [DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	5	2009.5	2012 Demographic and Health Survey [DHS Direct]
	1	2008	2013 Demographic and Health Survey [DHS Direct]
	1	2009.5	2014 Encuesta Demografica y de Salud Familiar-ENDES Continua [DHS Direct]
	5	2011.5	2014 National Demographic and Health Survey [Other DHS Direct]
	5	2014.5	2017 Demographic and Family Health Survey [Others Direct]
	5	2015.5	2018 Demographic and Family Health Survey [Other DHS Direct]
	5	2016.5	2019 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
	5	2017.5	2020 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
	5	2018.5	2021 Encuesta Demografica y de Salud Familiar [Other DHS Direct]
Philippines	35	2014.5	2021 Zhousha Zumogranou y uu Sahaa 1 ahaan [Sahai Zhi Zhi Zhi
1 mappines	5	1975.5	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Demographic and Health Survey [DHS Direct]
	5	2005.5	2008 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 National Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Poland	71	2021.5	2017 Zemegrupme und Heuten Survey (2116 Zheet)
Totalia	8	1958.5	UNPD Demographic Yearbook Data 2020 version [VR]
	63	2021.5	WHO Vital Registration Data 2022 version [VR]
Portugal	72	2021.5	WITO VIAIL REGISTRATION Data 2022 VOISION [VIX]
1 Ortugui	5	1954.5	UNPD Demographic Yearbook Data 2020 version [VR]
	67	2021.5	WHO Vital Registration Data 2022 version [VR]
Qatar	30	2020.5	WHO That Registration Data 2022 Version [VR]
Qatai	30	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Romania	65	2020.5	2021 WHO Vital Registration Data 2022 Version [VR]
Romama	3	1958.5	UNPD Demographic Yearbook Data 2020 version [VR]
	62	2021.5	WHO Vital Registration Data 2022 version [VR]
Russian Federation	41	2020.5	WHO VITAL REGISTRATION Data 2022 VEISION [VR]
Russian Pederadon	41	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Diviondo			2021 WHO Vital Registration Data 2022 Version [VK]
Rwanda	34	2016.5	1092 World Fartility Survey [Other DUS Direct]
	5	1980.5 1989.5	1983 World Fertility Survey [Other DHS Direct] 1992 Demographic and Health Survey [DHS Direct]
	5	1989.5	2000 Demographic and Health Survey [DHS Direct]
	4		
	4	2002.5	2005 Demographic and Health Survey [DHS Direct]
	3	2004.5	2007-2008 Interim Demographic and Health Survey [Other DHS Direct]
	1	2007.5	rect] 2010 Demographic and Health Survey [DHS Direct]
	4	2007.5	2010 Demographic and Health Survey [DHS Direct]
	4	2011.5	2014-2015 Demographic and Health Survey [DHS Direct]

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	#	Most			
Country	obs.	recent	Data series name [source type]		
	ons.	obs. year			
	5	2016.5	2019-2020 Demographic and Health Survey [DHS Direct]		
Saint Kitts and	30	2015.5			
Nevis					
	30	2015.5	2021 WHO Vital Registration Data 2022 version [VR]		
Saint Lucia	54	2017.5			
	14	1968.5	UNPD Demographic Yearbook Data 2020 version [VR]		
	40	2017.5	WHO Vital Registration Data 2022 version [VR]		
Samoa	7	2016.5	Willowing Registration But 2022 Volston [VR]		
Samoa	1	1999	1999 Demographic and Health Survey [Others Direct]		
	1	1995	2000 Demographic and Vital Statistics Survey [Others Direct]		
	1	2011.4	2011 Population and Housing Census [Others Direct]		
Can Marina	4	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]		
San Marino	3	2003.5	WIIO Vital Designation Date 2020 and in IVD1		
	2	2003.5	WHO Vital Registration Data 2020 version [VR]		
~	1	1993.5	WHO Vital Registration Data 2022 version [VR]		
Sao Tome and	15	2015.5			
Principe	_				
	5	2005.5	2008-2009 Demographic and Health Survey [DHS Direct]		
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]		
	5	2015.5	2019 Multiple Indicator Cluster Survey [MICS Direct]		
Saudi Arabia	6	2017.4			
	1	1998.6	1999 Demographic Survey [Others Direct]		
	1	1999.6	2000 Demographic Survey [Others Direct]		
	1	2004.2	2004 Census [Others Direct]		
	1	2006.6	2007 Demographic Survey [Others Direct]		
	1	2013.9	2016 Demographic Survey [Others Direct]		
	1	2017.4	2017 Household Health Survey [Others Direct]		
Senegal	75	2016.5			
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]		
	5	1983.5	1986 Demographic and Health Survey [DHS Direct]		
	5	1989.5	1992-1993 Demographic and Health Survey [DHS Direct]		
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]		
	5	1996.5	1999-2000 Demographic and Health Survey [DHS Direct]		
	5	2002.5	2005 Demographic and Health Survey [DHS Direct]		
	5	2005.5	2008-2009 Malaria Indicator Survey [Other DHS Direct]		
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct]		
	5	2009.5	2012-2013 Demographic and Health Survey [DHS Direct]		
	5	2011.5	2014 Demographic and Health Survey [DHS Direct]		
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]		
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]		
	5	2013.5	2017 Demographic and Health Survey [DHS Direct]		
	5	2014.5	2017 Demographic and Health Survey [DHS Direct]		
	5	2015.5	2019 Demographic and Health Survey [DHS Direct]		
Serbia	37	2010.5	2017 Demographic and Health burvey [D110 Direct]		
Sciula	37	2021.5	2021 WHO Vital Registration Data 2022 version [VR]		
Seychelles	37		2021 WITO VITAL REGISTRATION DATA 2022 VEISION [VIN]		
Seychelles	31	2017.5	Continued on next nage		

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	37	2017.5	2021 WHO Vital Registration Data 2022 version [VR]
Sierra Leone	11	2016.5	
	1	1992	1992 DSMS [Others Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Demographic and Health Survey [DHS Direct]
Singapore	71	2020.5	
	5	1954.5	UNPD Demographic Yearbook Data 2020 version [VR]
	66	2020.5	WHO Vital Registration Data 2022 version [VR]
Slovakia	40	2021.5	
	40	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Slovenia	40	2021.5	E I
	40	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Solomon Islands	6	2012.5	
Sololifoli Islands	1	2002	2007 Demographic and Health Survey [Other DHS Direct]
	5	2012.5	2015 Demographic and Health Survey [Other DHS Direct]
Somalia	4	2003.5	2013 Demographic and Headin Survey [Caner B113 Birect]
Somana	4	2003.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
South Africa	55	2021.5	2000 Munipie indicator Cluster Survey [MICS Direct]
South Africa	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	$\begin{vmatrix} 3 \\ 1 \end{vmatrix}$	2006.7	2007 Community Survey [Others Direct]
	5	2000.7	2016 Demographic and Health Survey [DHS Direct]
	44	2013.5	Rapid Mortality Surveillance (Preliminary) [VR]
South Sudan	44	2021.3	Rapid Mortanty Survemance (Flemminary) [VK]
	71	2020.5	
Spain	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Sri Lanka	79	2020.5	2021 WHO VItal Registration Data 2022 Version [VR]
SII Lanka		1972.5	1075 Would Fortility Compay [Other DIIC Direct]
	5		1975 World Fertility Survey [Other DHS Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	6	1990.5	1993 Demographic and Health Survey [Other DHS Direct]
	6	1997.5	2000 Demographic and Health Survey [Other DHS Direct]
	6	2003.5	2006 Demographic and Health Survey [Other DHS Direct]
	5	2013.5	2016 Demographic and Health Survey [Other DHS Direct]
G ' . T'	46	2014.5	WHO Vital Registration Data 2022 version [VR]
Saint Vincent and	55	2017.5	
the Grenadines	10	1064.5	Thinb b
	10	1964.5	UNPD Demographic Yearbook Data 2020 version [VR]
G. CD 1	45	2017.5	WHO Vital Registration Data 2022 version [VR]
State of Palestine	25	2016.5	1005 D
	1	1992.5	1995 Demographic Survey [Others Direct]
	1	1997.5	2000 Health Survey [Others Direct]
	1	2002.3	2004 Demographic and Health Survey [Other DHS Direct]
	6	2005	2006 Pan Arab Project for Family Health Family Health Survey [Others Direct]
	5	2008.1	2010 Multiple Indicator Cluster Survey-Family Health Survey [MICS Direct]
	1	2008	2011 Palestinian Family Survey [Others Direct]

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
Sudan	24	2011.5	
	5	1975.5	1978-1979 World Fertility Survey [Other DHS Direct]
	5	1986.5	1989-1990 Demographic and Health Survey [DHS Direct]
	4	1989.5	1992 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	1	1995	1999 Safe Motherhood Survey [Others Direct]
	4	2007.5	2010 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Suriname	3	2015.5	
	3	2015.5	2018 Multiple Indicator Cluster Survey [MICS Direct]
Swaziland	14	2011.5	
	4	2003.5	2006-2007 Demographic and Health Survey [DHS Direct]
	5	2007.5	2010 Multiple Indicator Cluster Survey [MICS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
Sweden	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Switzerland	71	2021.5	
	71	2021.5	2021 WHO Vital Registration Data 2022 version [VR]
Syria	16	1999	
,	5	1975.5	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	6	1999	2001 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
Tajikistan	5	2014.5	
J	5	2014.5	2017 Demographic and Health Survey [DHS Direct]
Tanzania	30	2012.5	
	5	1988.5	1991-1992 Demographic and Health Survey [DHS Direct]
	5	1993.5	1996 Demographic and Health Survey [DHS Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
	5	2001.5	2004-2005 Demographic and Health Survey [DHS Direct]
	5	2006.5	2010 Demographic and Health Survey [DHS Direct]
	5	2012.5	2015-2016 Demographic and Health Survey [DHS Direct]
Thailand	14	1991	
	1	1975	1974-1975 Survey of Population Change [Others Direct]
	5	1972.5	1975 World Fertility Survey [Other DHS Direct]
	1	1985	1985-1986 Survey of Population Change [Others Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
	2	1991	1989 Survey of Population Change [Others Direct]
Timor Leste	6	2006.5	
	1	1999	2003 Demographic and Health Survey [Other DHS Direct]
	5	2006.5	2009-2010 Demographic and Health Survey [DHS Direct]
Togo	20	2014.5	
J	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	-	-> 50.00	Continued on next negatives

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
	5	2014.5	2017 Multiple Indicator Cluster Survey [MICS Direct]
Tonga	3	2011.5	
	1	2007.8	2012 National Demographic and Health Survey [DHS Direct]
	2	2011.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Trinidad and To-	10	1984.5	
bago			
	5	1974.5	1977 World Fertility Survey [Other DHS Direct]
	5	1984.5	1987 Demographic and Health Survey [DHS Direct]
Tunisia	19	2017.5	
	5	1985.5	1988 Demographic and Health Survey [DHS Direct]
	5	1992.4	1994 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	5	1999	2001 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	1	2009.6	2011-2012 Multiple Indicator Cluster Survey [MICS Direct]
	3	2017.5	WHO Vital Registration Data 2022 version [VR]
Turkey	38	2019.5	
	5	1975.5	1978 World Fertility Survey [Other DHS Direct]
	5	1990.5	1993 Demographic and Health Survey [DHS Direct]
	5	1995.5	1998 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003-2004 Demographic and Health Survey [Other DHS Direct]
	1	2003.8	2008 Turkey Demographic and Health Survey [Other DHS Direct]
	6	2010.5	2013 Demographic and Health Survey [Other DHS Direct]
	11	2019.5	WHO Vital Registration Data 2022 version [VR]
Turkmenistan	6	2016.5	
	1	1995.6	2000 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]
Turks and Caicos	23	2016.5	
Islands			
	23	2016.5	2019 UNPD Vital Registration Data 2019 version [VR]
Tuvalu	14	2016.5	
	1	2000.3	2002 Census [Others Direct]
	1	2002.7	2007 Demographic and Health Survey [Other DHS Direct]
	3	2016.5	2019-2020 Multiple Indicator Cluster Survey [MICS Direct]
	9	2005.5	WHO Vital Registration Data 2022 version [VR]
Uganda	35	2013.5	
	5	1985.5	1988-1989 Demographic and Health Survey [DHS Direct]
	5	1992.5	1995 Demographic and Health Survey [DHS Direct]
	5	1997.5	2000-2001 Demographic and Health Survey [DHS Direct]
	5	2003.5	2006 Demographic and Health Survey [DHS Direct]
	5	2007.5	2009-2010 Malaria Indicator Survey [Other DHS Direct]
	5	2008.5	2011 Demographic and Health Survey [DHS Direct]
	5	2013.5	2016 Demographic and Health Survey [DHS Direct]
Ukraine	7	2004.5	
			Continued on next need

Table 23 – continued from previous page

Table 23 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	1	1995	1999 Reproductive Health Survey [Others Direct]
	5	2004.5	2007 Demographic and Health Survey [DHS Direct]
	1	1989.5	2012 Multiple Indicator Cluster Survey [MICS Direct]
United Arab Emi-	7	2014.5	
rates			
	1	1991	1995 Family Health Survey [Others Direct]
	6	2014.5	Vital Registration Data published in UAE IN FIGURES 2014 [VR]
United Kingdom	71	2020.5	
	71	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
United States of	70	2019.5	C c j
America			
	70	2019.5	2021 WHO Vital Registration Data 2022 version [VR]
Uruguay	62	2020.5	
<i>5</i> ,	62	2020.5	2021 WHO Vital Registration Data 2022 version [VR]
Uzbekistan	1	1997	
C E O C KI S C L II	1	1997	2002 Demographic and Health Survey [Other DHS Direct]
Vanuatu	1	2009	2002 Beinographic and Headin Survey [Caner Bris Brisec]
variatio	1	2009	2013 Demographic and Health Survey [Other DHS Direct]
Venezuela (Boli-	31	2014.5	2013 Demographic and Headin Survey [Other D115 Direct]
varian Republic	31	2014.3	
of)			
01)	5	1974.5	1977 World Fertility Survey [Other DHS Direct]
	1	1995.5	1998 National Population and Family Survey [Others Direct]
	25	2014.5	WHO Vital Registration Data 2022 version [VR]
Vietnam	20	2014.8	WHO Vital Registration Data 2022 Version [VR]
Viculaiii	1	1988.5	1994 Intercensal Demographic Survey [Others Direct]
	5	1988.5	1994 Intercensal Demographic Survey [Others Direct] 1997 Demographic and Health Survey [DHS Direct]
	5	1994.5	2002 Demographic and Health Survey [DHS Direct]
			2012 Population Change and Family Planning Survey [Others Direct]
	1 5	2011.8	2012 Population Change and Family Planning Survey [Others Direct] 2013-2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2010.5 2012.8	1
	1		2013 Population Change and Family Planning Survey [Others Direct] 2014 Intercensal Population and Housing Survey [Others Direct]
	1	2013.8 2014.8	
Vaman	1		2015 Population Change and Family Planning Survey [Others Direct]
Yemen	28	2010.5	1070 Would Fortility Company [Other DIIC Diverse]
	3	1976.5	1979 World Fertility Survey [Other DHS Direct]
	5	1988.5	1991-1992 Demographic and Health Survey [DHS Direct]
	5	1994.5	1997 Demographic and Health Survey [DHS Direct]
	5	2000.5	2003 Pan Arab Project for Family Health Family Health Survey [Others
	_	2002.5	Direct]
	5	2003.5	2006 Multiple Indicator Cluster Survey [MICS Direct]
71.	5	2010.5	2013 Demographic and Health Survey [DHS Direct]
Zambia	31	2015.5	1000 D
	5	1989.5	1992 Demographic and Health Survey [DHS Direct]
	5	1993.5	1996-1997 Demographic and Health Survey [DHS Direct]
	5	1998.5	2001-2002 Demographic and Health Survey [DHS Direct]
	6	2004.5	2007 Demographic and Health Survey [DHS Direct]

Table 23 – continued from previous page

Country	# obs.	Most recent obs. year	Data series name [source type]
	5	2010.5	2013-2014 Demographic and Health Survey [DHS Direct]
	5	2015.5	2018 Demographic and Health Survey [DHS Direct]
Zimbabwe	41	2016.5	
	5	1985.5	1988-1989 Demographic and Health Survey [DHS Direct]
	5	1991.5	1994 Demographic and Health Survey [DHS Direct]
	1	1997	1997 Inter-censal Demographic Survey [Others Direct]
	5	1996.5	1999 Demographic and Health Survey [DHS Direct]
	5	2006.5	2009 Multiple Indicator Cluster Survey [MICS Direct]
	5	2007.5	2010-2011 Demographic and Health Survey [DHS Direct]
	5	2011.5	2014 Multiple Indicator Cluster Survey [MICS Direct]
	5	2012.5	2015 Demographic and Health Survey [DHS Direct]
	5	2016.5	2019 Multiple Indicator Cluster Survey [MICS Direct]

Table 24: **Sex ratio data sources for age group 0–4, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
Afghanistan	8	2006.6	
	3	1969.4	1972 National Demographic and Family Guidance Survey [Others Indi-
			rect]
	1	2004.3	2007-2008 National Risk and Vulnerability Assessment Survey [Others
			Indirect]
	4	2006.6	2010-2011 Multiple Indicator Cluster Survey [MICS Indirect]
Albania	7	1997.4	
	4	1995.3	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	3	1997.4	2005 Multiple Indicator Cluster Survey [MICS Indirect]
Algeria	6	2002.9	
	1	1993.8	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2002.9	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Andorra	20	2014.5	
	20	2014.5	2018 WHO Vital Registration Data 2018 version [VR]
Angola	15	2003.7	
	5	1992	1996 Multiple Indicator Cluster Survey [MICS Indirect]
	4	1997	2001 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2002.7	2006-2007 Malaria Indicator Survey [Others Indirect]
	1	2003.7	2008-2009 Household Incomes and Expenditures Survey IBEP [Others
			Indirect]
Anguilla			
Antigua and Bar-			
buda			
Argentina			
Armenia			
Australia			
Austria	4	1005 (
Azerbaijan	4	1995.6	2000 Mulkiula Indiantan Charten Commun [MICC Indianat]
Dahamaa	4	1995.6	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Bahamas			
Bahrain	13	2008.3	
Bangladesh			1074 Datagraphics Contility and Montality Courses (LIN CA) [Others In
	4	1967.9	1974 Retrospective Fertility and Mortality Survey (UN SA) [Others Indirect]
	5	2005.1	2009 Multiple Indicator Cluster Survey [Others Indirect]
	4	2003.1	2012-2013 Multiple Indicator Cluster Survey [MICS Indirect]
Barbados	7	2000.3	2012 2013 Multiple indicator Cluster Survey [MICS multeet]
Belarus			
Belgium			
Belize	8	2006.8	
DOILLO	4	2001.5	2006 Multiple Indicator Cluster Survey [MICS Indirect]
	+	2001.3	2000 Muniple indicator Cluster but vey [MICS municet]

Table 24 – continued from previous page

Table 24 – continued from previous page			
~	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	4	2006.8	2011 Multiple Indicator Cluster Survey [MICS Indirect]
Benin	5	1997.6	
	5	1997.6	2002 Census [Census Indirect]
Bhutan	9	2005.7	
	5	1980.6	1984 Demographic Sample Survey [Others Indirect]
	4	2005.7	2010 Multiple Indicator Cluster Survey [MICS Indirect]
Bolivia (Pluri-	14	1996.1	
national State			
of)			
	5	1972	1975 EDEN [Others Indirect]
	5	1976.9	1980 National Demographic Survey [Others Indirect]
	4	1996.1	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Bosnia and Herze-			
govina			
Botswana	4	2007.2	
2 oto maria	1	1996	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	1	1997.2	2001 Census [Census Indirect]
	1	2002	2006 Demographic Survey [Others Indirect]
	1	2007.2	2011 Census [Census Indirect]
Brazil	1	2007.2	2011 Census [Census muncet]
British Virgin Is-			
lands			
Brunei			
Bulgaria	1.5	2015.7	
Burkina Faso	15	2015.7	2000 M II' I I II' A CI A CI A CI A CI A CI A
	4	2002	2006 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2010.4	2014 Malaria Indicator Survey [Others Indirect]
	6	2015.7	2017-2018 Malaria Indicator Survey [Others Indirect]
Burundi	12	2011.5	
	3	1995.7	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	3	2001.5	2005 Multiple Indicator Cluster Survey [MICS Indirect]
	1	2011.5	2012 Enquete menages pour le suivi et lÃevaluation de lÃimpact de lÃ-
			appui au systeme de remboursement du Paquet Minimum des Services
			de sante [Others Indirect]
	5	2007	2012 Malaria Indicator Survey [Others Indirect]
Cambodia	8	2002.2	
	5	1994.3	1998 Census [Census Indirect]
	3	2002.2	2004 Inter-censal Population Survey [Others Indirect]
Cameroon	4	1996.2	
	4	1996.2	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Canada			
Cape Verde	5	2005.8	
_	5	2005.8	2010 Census [Census Indirect]
Central African	12	2006.4	
Republic			
	4	1996.4	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	1		Continued on next page

Table 24 – continued from previous page

Table 24 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	4	2002.3	2006 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2006.4	2010 Multiple Indicator Cluster Survey [MICS Indirect]
Chad	8	2005.8	
	4	1996.1	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2005.8	2010 Multiple Indicator Cluster Survey [MICS Indirect]
Chile			
China	13	2011	
	1	1986	1987 Population Sample Survey [Others Indirect]
	12	2011	Sample Vital Registration [VR]
Colombia		-	and the same of the latest the la
Comoros			
Congo	5	2004.9	
201160	5	2004.9	2009 AIDS Indicator Survey [Others Indirect]
Democratic Re-	8	2004.9	2007 THE O Indicator Survey [Others munect]
public of the	O	2005.6	
Congo	4	1997	2001 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2005.8	2010 Multiple Indicator Cluster Survey [MICS Indirect]
Cook Islands	5	2003.8	2010 Multiple indicator Cluster Survey [MICS indirect]
Cook Islands			2006 Canana [Canana Indinant]
C D	5	2002.7	2006 Census [Census Indirect]
Costa Rica			
Cote d'Ivoire			
Croatia			
Cuba			
Cyprus			
Czech Republic			
Denmark			
Djibouti	4	2002	
	4	2002	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Dominica			
Dominican Repub-	9	1996.2	
lic			
	5	1977.5	1981 Census [Census Indirect]
	4	1996.2	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Ecuador			
Egypt	5	2011.7	
	5	2011.7	2015 Health Indicator Survey [Others Indirect]
El Salvador	4	1978.6	
	4	1978.6	1985 Demographic and Health Survey [Others Indirect]
Equatorial Guinea			2 1
Eritrea			
Estonia			
Ethiopia			
Federated States of	4	2006.5	
Micronesia	7	2000.3	
1v11C1OHCS1a			Continued on next neces

Table 24 – continued from previous page

			e 24 – continued from previous page
	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
	4	2006.5	2010 Census [Census Indirect]
Fiji	10	2003.5	
J	5	1973.1	1976 Census [Census Indirect]
	5	2003.5	2007 Census [Census Indirect]
Finland		2000.0	2007 Consult (Consult Manoor)
France			
Gabon			
The Gambia	13	2001.9	
The Gambia		1995.5	2000 Multiple Indicator Cluster Survey [MICS Indicat]
	4		2000 Multiple Indicator Cluster Survey [MICS Indirect]
Q :	4	2001.9	2005-2006 Multiple Indicator Cluster Survey [MICS Indirect]
Georgia	4	2000.7	
	4	2000.7	2005 Multiple Indicator Cluster Survey [MICS Indirect]
Germany			
Ghana	19	2015.7	
	4	2002	2006 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2006.9	2010 Census [Census Indirect]
	5	2012.5	2016 Malaria Indicator Survey [Others Indirect]
	5	2015.7	2019 Malaria Indicator Survey [Others Indirect]
Greece			
Grenada			
Guatemala	26	2014	
	4	1974.4	1981 Census [Census Indirect]
	4	1980.7	1987 Enc. Nacional SocioDemografica [Others Indirect]
	4	1985.1	1989 Enc. Nacional Sociodemografica [Others Indirect]
	4	1989.8	1994 Census [Census Indirect]
	5	1998.5	2002 Census [Census Indirect]
	5	2014	2018 Census [Census Indirect]
Guinea	19	2014	2016 Celisus [Celisus illulicet]
Guinea		1992.3	1006 Canana [Canana Indinant]
	5		1996 Census [Census Indirect]
	5	1999	2003 Multiple Indicator Cluster Survey [Others Indirect]
	5	2009.7	2014 Census [Census Indirect]
C : D:	4	2017.1	2021 Malaria Indicator Survey [Others Indirect]
Guinea-Bissau	8	2000.9	2000 M 12 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
	4	1995.8	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2000.9	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Guyana	8	2001.6	
	4	1996	2000-2001 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2001.6	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Haiti			
Honduras	4	1979.4	
	4	1979.4	1983 National Demographic Survey [Others Indirect]
Hungary			
Iceland			
India	18	2007.4	
	4	1994.5	1999 District Level Household Survey [Others Indirect]
	1 -	1	Continued on next page

Table 24 – continued from previous page

	Table 24 – continued from previous page			
	#	Most		
Country		recent	Data series name [source type]	
	obs.	obs. year		
	4	1999.3	2004 District Level Household Survey [Others Indirect]	
	5	2003.6	2008 District Level Household Survey [Others Indirect]	
	5	2007.4	2011 Census [Census Indirect]	
Indonesia	9	2006.4		
	5	1986.9	1990 Census [Census Indirect]	
	4	2006.4	2010 Census [Census Indirect]	
Iran (Islamic Re-	10	2003.9		
public of)				
,	5	2003.1	2006 Census [Census Indirect]	
	5	2003.9	2011 Census [Census Indirect]	
Iraq	5	1986		
•	5	1986	1990 Immunization, Diarrhoeal Disease, Maternal and Child Mortality	
			Survey [Others Indirect]	
Ireland				
Israel				
Italy				
Jamaica	4	2001		
	4	2001	2005 Multiple Indicator Cluster Survey [MICS Indirect]	
Japan			1 72	
Jordan	20	1987.5		
	5	1970.9	1972 Jordan Fertility Survey [Others Indirect]	
	5	1978.5	1981 Jordan Demographic Survey [Others Indirect]	
	5	1984.9	1988 EPI/CDD and Child Mortality Survey [Others Indirect]	
	5	1987.5	1990 EPI/CDD and Child Mortality Survey [Others Indirect]	
Kazakhstan	12	2010.6	y yt	
	4	2000.9	2006 Multiple Indicator Cluster Survey [MICS Indirect]	
	4	2005.9	2010-2011 Multiple Indicator Cluster Survey [MICS Indirect]	
	4	2010.6	2015 Multiple Indicator Cluster Survey [MICS Indirect]	
Kenya	8	2016.9	1 71	
,	1	1985.2	1989 Census [Census Indirect]	
	1	1995.2	1999 Census [Census Indirect]	
	4	1996	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
	1	2011.3	2015 Malaria Indicator Survey [Others Indirect]	
	1	2016.9	2020 Malaria Indicator Survey [Others Indirect]	
Kiribati	15	2006.9		
	5	1991.9	1995 Census [Census Indirect]	
	5	1997	2000 Census [Census Indirect]	
	5	2006.9	2010 Census [Census Indirect]	
Democratic Peo-				
ple's Republic of				
Korea				
Republic of Korea				
Kosovo				
Kuwait	5	1987		
	5	1987	1987 Child Health Survey [Others Indirect]	
Kyrgyzstan	4	2001.2		

Table 24 – continued from previous page

	Table 24 – continued from previous page			
a	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	4	2001.2	2005-2006 Multiple Indicator Cluster Survey [MICS Indirect]	
Lao People's				
Democratic Re-				
public				
Latvia				
Lebanon	11	2006.6		
	5	1992.9	1996 Population and Housing Survey [Others Indirect]	
	1	1996.6	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
	5	2006.6	2009 Multiple Indicator Cluster Survey [Others Indirect]	
Lesotho	6	1996.1		
	1	1967.5	1971 Demographic Survey [Others Indirect]	
	4	1995.6	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
	1	1996.1	2001 Demographic Survey [Others Indirect]	
Liberia	10	2011.9		
	5	2006.9	2011 Malaria Indicator Survey [Others Indirect]	
	5	2011.9	2016 Malaria Indicator Survey [Others Indirect]	
Libya				
Lithuania				
Luxembourg				
Macedonia				
Madagascar	14	2011.4		
-	4	1996.2	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
	5	2006.9	2013 Malaria Indicator Survey [Others Indirect]	
	5	2011.4	2016 Malaria Indicator Survey [Others Indirect]	
Malawi	10	2014.4		
	1	1978.4	1982 Demographic Survey [Others Indirect]	
	1	1982.5	1987 Census [Census Indirect]	
	1	1994	1998 Census [Census Indirect]	
	1	2009.7	2014 Malaria Indicator Survey [Others Indirect]	
	5	2012.9	2017 Malaria Indicator Survey [Others Indirect]	
	1	2014.4	2018 Census [Census Indirect]	
Malaysia				
Maldives				
Mali	5	2017.3		
	5	2017.3	2021 Malaria Indicator Survey [Others Indirect]	
Malta				
Marshall Islands				
Mauritania	4	2003.1		
	4	2003.1	2007 Multiple Indicator Cluster Survey [MICS Indirect]	
Mauritius				
Mexico				
Republic of				
Moldova				
Monaco				
Mongolia	22	2005.8		
1,10115011a	22	2005.0	Continued on next page	

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Table 24 – continued from previous page			
Country	# obs.	Most recent obs. year	Data series name [source type]
	4	1996	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	5	1999.5	2003 Reproductive Health Survey [Others Indirect]
	4	2001.2	2005 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2004.5	2008 Reproductive Health Survey [Others Indirect]
	4	2005.8	2010 Multiple Indicator Cluster Survey [MICS Indirect]
Montenegro	•	2002.0	2010 Manapie maleutor etaster survey [Mico maneet]
Montserrat			
Morocco			
Mozambique	4	2013.2	
1	1	2005.1	2009 AIDS Indicator Survey [Others Indirect]
	1	2010.5	2015 AIDS Indicator Survey [Others Indirect]
	1	2012.5	2017 Census [Census Indirect]
	1	2013.2	2018 Malaria Indicator Survey [Others Indirect]
Myanmar	_	, <u>.</u>	
Namibia	1	2007.1	
	1	2007.1	2011 Census [Census Indirect]
Nauru			
Nepal			
Netherlands			
New Zealand			
Nicaragua	14	2000.6	
111001108000	5	1981.3	1985 Enc.Socio-Demografica Nicaraguense [Others Indirect]
	5	1990.3	1995 Census [Census Indirect]
	4	2000.6	2005 Census [Census Indirect]
Niger	4	1996	The second control of
6	4	1996	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Nigeria	4	2006.6	The state of the s
- 11-8-1111	4	2006.6	2011 Multiple Indicator Cluster Survey [MICS Indirect]
Niue			and the second s
Norway			
Oman			
Pakistan	10	1993.2	
	5	1992	1996 Integrated Household Survey [Others Indirect]
	5	1993.2	1998 Census [Census Indirect]
Palau			
Panama			
Papua New Guinea	5	1995.5	
1	5	1995.5	2000 Census [Census Indirect]
Paraguay			
Peru			
Philippines			
Poland			
Portugal			
Qatar			
Romania			
			Continued on next page

Table 24 – continued from previous page

Table 24 – continued from previous page			
Country	# obs.	Most recent obs. year	Data series name [source type]
Russian Federation			
Rwanda	4	2014.4	
	1	1988.1	1991 Census [Census Indirect]
	1	2009.3	2012 Census [Census Indirect]
	1	2009.8	2013 Malaria Indicator Survey [Others Indirect]
	1	2014.4	2017 Malaria Indicator Survey [Others Indirect]
Saint Kitts and			
Nevis			
Saint Lucia			
Samoa	5	2013.1	
	5	2013.1	2016 Population and Housing Census [Census Indirect]
San Marino			S. S. Marian and S.
Sao Tome and	4	1996.1	
Principe and		1770.1	
Timespe	4	1996.1	2000 Multiple Indicator Cluster Survey [MICS Indirect]
Saudi Arabia	4	1985	2000 Multiple indicator cluster survey [MICS indirect]
Saudi Alabia	4	1985	1987 Child Health Survey [Others Indirect]
Canagal	10	2016.8	1987 Child Health Survey [Others multeet]
Senegal	5	2010.8	2006 Malaria Indiantar Survey [Others Indirect]
	<i>5</i>	2003	2006 Malaria Indicator Survey [Others Indirect]
0.1:	3	2010.8	2020-2021 Malaria Indicator Survey [Others Indirect]
Serbia			
Seychelles	22	2011.7	
Sierra Leone	22	2011.7	
	4	1995.8	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2000.9	2005-2006 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2006.3	2010 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2011.1	2015 Census [Census Indirect]
	5	2011.7	2016 Malaria Indicator Survey [Others Indirect]
Singapore			
Slovakia			
Slovenia			
Solomon Islands			
Somalia	1	1999.1	
	1	1999.1	1999 Multiple Indicator Cluster Survey [MICS Indirect]
South Africa			
South Sudan	5	2003.1	
	5	2003.1	2008 Census [Census Indirect]
Spain			
Sri Lanka			
Saint Vincent and			
the Grenadines			
State of Palestine	4	2011.6	
	4	2011.6	2017 Census [Census Indirect]
Sudan	9	2003.4	
Saduri	4	1986.5	1989-1990 Demographic and Health Survey [Others Indirect]
	7	1700.5	1707 1770 Demographic and Health burvey [Onicis muneet]

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Table 24 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	5	2003.4	2008 Census [Census Indirect]
Suriname	8	2001.5	
	4	1995.2	1999-2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2001.5	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Swaziland	4	1995.9	
	4	1995.9	1999-2000 Multiple Indicator Cluster Survey [MICS Indirect]
Sweden			
Switzerland			
Syria	8	2001.8	
Sylla	4	1986.6	1990 EPI/CDD and Child Mortality Survey [Others Indirect]
	4	2001.8	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Tajikistan	8	2001.0	
- ujiniotuii	4	1996.1	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2001	2005 Multiple Indicator Cluster Survey [MICS Indirect]
Tanzania	4	2013.4	2005 Multiple indicator cluster survey [Mics indirect]
Tanzama	1	1984.4	1988 Census [Census Indirect]
	1	1998	2002 Census [Census Indirect]
	1	2008.2	2012 Census [Census Indirect]
	1	2008.2	2012 Census [Census Indirect] 2017 Malaria Indicator Survey [Others Indirect]
Thailand	8	2013.4	2017 Maiaria filulcator Survey [Others filulrect]
Thanana			2005 2006 Multiple Indicator Chapter Summer [MICS Indicate]
	4	2000.9	2005-2006 Multiple Indicator Cluster Survey [MICS Indirect]
TT' T	4	2007.4	2012-2013 Multiple Indicator Cluster Survey [MICS Indirect]
Timor Leste	6	2007	2002 Maltial I. I. I. at a Classes Comment [Others In It and
	1	1999.6	2002 Multiple Indicator Cluster Survey [Others Indirect]
T.	5	2007	2010 Census [Census Indirect]
Togo	21	2013.8	1070 C
	3	1955.4	1958 Census [Census Indirect]
	4	2001.8	2006 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2006.6	2010 Census [Census Indirect]
	4	2006.1	2010 Multiple Indicator Cluster Survey [MICS Indirect]
	5	2013.8	2017 Malaria Indicator Survey [Others Indirect]
Tonga	5	2010.2	
	5	2010.2	2016 Census [Census Indirect]
Trinidad and To-	8	2001.2	
bago			
	4	1995.2	2000 Multiple Indicator Cluster Survey [MICS Indirect]
	4	2001.2	2006 Multiple Indicator Cluster Survey [MICS Indirect]
Tunisia	5	2001.4	
	5	2001.4	2004 Census [Census Indirect]
Turkey	10	1994.8	
	5	1985.8	1989 Demographic Survey [Others Indirect]
	5	1994.8	2000 Census [Census Indirect]
Turkmenistan	4	2001.6	
	4	2001.6	2006 Multiple Indicator Cluster Survey [MICS Indirect]
			Continued on next page

Table 24 – continued from previous page

Most				
Carreton	#		Data savias nama [saunas tuna]	
Country	obs.	recent	Data series name [source type]	
		obs. year		
Turks and Caicos				
Islands				
Tuvalu	5	2009.4		
	5	2009.4	2012 Census [Census Indirect]	
Uganda	8	2014.8		
	1	1998.1	2002 Census [Census Indirect]	
	5	2009.7	2014 Census [Census Indirect]	
	1	2010.9	2014-2015 Malaria Indicator Survey [Others Indirect]	
	1	2014.8	2018-2019 Malaria Indicator Survey [Others Indirect]	
Ukraine				
United Arab Emi-	5	1987		
rates				
	5	1987	1987 Child Health Survey [Others Indirect]	
United Kingdom			, , , , , , , , , , , , , , , , , , ,	
United States of				
America				
Uruguay				
Uzbekistan	8	2001.4		
	4	1995.9	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
	4	2001.4	2006 Multiple Indicator Cluster Survey [MICS Indirect]	
Vanuatu	·	2001.1		
Venezuela (Boli-				
varian Republic				
of)				
Vietnam	4	1995.3		
Victiani	4	1995.3	2000 Multiple Indicator Cluster Survey [MICS Indirect]	
Yemen		1775.5	2000 Manapie maieator Cluster Survey [Mics maneet]	
Zambia	1	2006.5		
Zambia	1	2006.5	2010 Canava [Canava Indinast]	
7: mala calanna	1		2010 Census [Census Indirect]	
Zimbabwe	1	1985.6	10071.	
	1	1985.6	1987 Inter-censal Demographic Survey [Others Indirect]	

Table 25: **Sex ratio data sources for age group 5–9, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	T	Most	
Country	#	recent	Data series name [source type]
J = 3.2222 J	obs.	obs. year	_ mm seems them to type;
Afghanistan	42	2015.2	
-	3	1973	1972 National Demographic and Family Guidance Survey [Others Di-
			rect]
	3	1979	1979 Census [Others Direct]
	3	2008.1	2010 Afghanistan Mortality Survey (AMS) Excluding South Zone
			(Household data) [Other DHS Direct]
	18	2009	2010 Afghanistan Mortality Survey (AMS) [DHS Direct]
	9	2013.4	2015 Demographic and Health Survey [DHS Direct]
	6	2015.2	2018 Afghanistan Health Survey 2018 [Others Direct]
Albania	77	2021.5	
	2	1996.7	2002 Reproductive Health Survey [Others Direct]
	3	2002.7	2008-2009 Demographic and Health Survey [DHS Direct]
	3	2011.1	2011 Census [Others Direct]
	3	2011.7	2018 Demographic and Health Survey [DHS Direct]
	66	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Algeria	72	2020.5	
	6	1989	1992 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	3	1996	2002 Pan Arab Project for Family Health Family Health Survey [Others
			Direct]
	63	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Andorra	10	2018.5	
	10	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Angola	12	2014.3	
	12	2014.3	2015-2016 Inquerito de Indicadores Multiplos e de Saude [DHS Direct]
Anguilla			
Antigua and Bar-	18	2016.5	
buda			
	18	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Argentina	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Armenia	108	2021.5	
	3	1994.7	2000 Demographic and Health Survey [DHS Direct]
	3	1999.7	2005 Demographic and Health Survey [DHS Direct]
	3	2004.7	2010 Demographic and Health Survey [DHS Direct]
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Australia	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Austria	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
		l	Continued on next page

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			e 25 – continued from previous page
~	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
Azerbaijan	92	2021.5	
	3	2005	2011 Azerbaijan National Demographic and Health Survey [Other DHS
			Direct]
	87	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Bahamas	86	2020.5	
	86	2020.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
Bahrain	93	2019.5	
	93	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Bangladesh	261	2020.5	£ , , , , , , ,
8	3	1964	1962-1965 Population Growth Estimation Experiment [Others Direct]
	3	1974.5	1974 Retrospective Fertility and Mortality Survey (UN SA) [Others Di-
		17, 1.5	rect]
	18	1975	1976 World Fertility Survey [Other DHS Direct]
	18	1992.8	1993-1994 Demographic and Health Survey [DHS Direct]
	15	1995.8	1996-1997 Demographic and Health Survey [DHS Direct]
	3	1999.8	1999-2000 Demographic and Health Survey [DHS Direct]
	18	1999.8	1999-2000 Demographic and Health Survey [DHS Direct]
	18	2003	2004 Demographic and Health Survey [DHS Direct]
			, ,
	9	2005.2	2007 Demographic and Health Survey [DHS Direct]
	3	2010	2010 Maternal Health Services and Maternal Mortality Survey [Other
	_	2010.7	DHS Direct]
	3	2010.7	2011 Census [Others Direct]
	18	2010.5	2011 Demographic and Health Survey [DHS Direct]
	12	2012.9	2014 Demographic and Health Survey [DHS Direct]
	3	2016	2016 Maternal Health Services and Maternal Mortality Survey [Others
			Direct]
	12	2016.2	2017-2018 Demographic and Health Survey [DHS Direct]
	18	2018.1	2019 Multiple Indicator Cluster Survey [Others Direct]
	3	2016.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2017.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2018.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2019.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2020.5	Report on Sample Vital Registration System 2016 [Others Direct]
	72	2015.5	Sample Vital Statistics [VR]
Barbados	54	2013	
	54	2013	WHO Vital Registration (recalculated - unadjusted) [VR]
Belarus	150	2019.5	
	150	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Belgium	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Belize	85	2018.5	
	2	1985.1	1991 Family Health Survey [Others Direct]
	81	2018.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Benin	107	2016.8	adjusted for the month of the
Domin	107	2010.0	Continued on next neces

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	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	17	1981	1982 World Fertility Survey [Other DHS Direct]	
	18	1995.4	1996 Demographic and Health Survey [DHS Direct]	
	18	2000.6	2001 Demographic and Health Survey [DHS Direct]	
	18	2005.6	2006 Demographic and Health Survey [DHS Direct]	
	18	2013.5	2014 Multiple Indicator Cluster Survey [Others Direct]	
	18	2016.8	2017-2018 Demographic and Health Survey [DHS Direct]	
Bhutan	9	2012.5		
	3	1993.1	1994 National Health Survey [Others Direct]	
	3	2004.9	2005 Census [Others Direct]	
	3	2012.5	2012 National Health Survey [Others Direct]	
Bolivia (Pluri-	51	2010.4		
national State				
of)				
	3	1979.8	1980 National Demographic Survey [Others Direct]	
	6	1986.2	1989 Demographic and Health Survey [DHS Direct]	
	9	1991.8	1993-1994 Demographic and Health Survey [DHS Direct]	
	9	1996.2	1998 Demographic and Health Survey [DHS Direct]	
	12	2002.1	2003 Demographic and Health Survey [DHS Direct]	
	9	2006.1	2008 Demographic and Health Survey [DHS Direct]	
	3	2010.4	2016 Encuesta de Demografma y Salud [Others Direct]	
Bosnia and Herze-	75	2020.5	The second of th	
govina				
8	75	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Botswana	18	2016.5	, , , , , , , , , , , , , , , , , , ,	
Dots wana	3	1981.1	1981 Census [Others Direct]	
	3	1991.1	1991 Census [Others Direct]	
	3	2001.1	2001 Census [Others Direct]	
	3	2001.1	2008 Family Health Survey [Others Direct]	
	3	2011.1	2011 Census [Others Direct]	
	3	2011.1	2017 Census [Others Direct] 2017 Demographic Survey [Others Direct]	
Brazil	104	2020.5	2017 Demographic Survey [Outers Direct]	
Diazii	2	1980.3	1986 Demographic and Health Survey [DHS Direct]	
	3	1980.3	1996 Demographic and Health Survey [DHS Direct]	
	3	2010.2	2010 Census [Others Direct]	
	96	2010.2	WHO Vital Registration (recalculated - unadjusted) [VR]	
British Virgin Is-	90	2020.3	WHO Vital Registration (recalculated - unadjusted) [VK]	
· ·				
lands	07	2010.5		
Brunei	87	2019.5	WHO Vital Degistration (recolculated unadirected) [VD]	
Dulgaria	87	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Bulgaria	156	2021.5	WHO/Human Montality Database Vital Danistration (angular late)	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
Р 1	70	2000.2	adjusted) [VR]	
Burkina Faso	70	2009.3	1000 1001 Commun [Others D']	
	3	1960.5	1960-1961 Survey [Others Direct]	
	12	1991.4	1993 Demographic and Health Survey [DHS Direct]	
	16	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]	
			Continued on next page	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	0.05	obs. year	
	18	2002.4	2003 Demographic and Health Survey [DHS Direct]
	3	2007.3	2008 Global Fund Evaluation Survey [Others Direct]
	18	2009.3	2010 Demographic and Health Survey [DHS Direct]
Burundi	53	2015.7	
	3	1964.7	1965 Population Survey [Others Direct]
	3	1969.5	1970 Demographic Survey [Others Direct]
	11	1985.7	1987 Demographic and Health Survey [DHS Direct]
	18	2009.6	2010-2011 Demographic and Health Survey [DHS Direct]
	18	2015.7	2016-2017 Demographic and Health Survey [DHS Direct]
Cambodia	57	2012.4	
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]
	18	2004.7	2005 Demographic and Health Survey [DHS Direct]
	12	2009	2010 Demographic and Health Survey [DHS Direct]
	9	2012.4	2014 Demographic and Health Survey [DHS Direct]
Cameroon	99	2016.9	The state of the s
	3	1975.8	1976 Census [Others Direct]
	12	1976.5	1978 World Fertility Survey [Other DHS Direct]
	3	1986.8	1987 Census [Others Direct]
	9	1989.2	1991 Demographic and Health Survey [DHS Direct]
	12	1996.6	1998 Demographic and Health Survey [DHS Direct]
	18	2003.1	2004 Demographic and Health Survey [DHS Direct]
	18	2010	2011 Demographic and Health Survey [DHS Direct]
	12	2010	2014 Multiple Indicator Cluster Surveys [Others Direct]
	12	2013	2014 Multiple Indicator Cluster Surveys [Others Direct] 2018 Demographic and Health Survey [DHS Direct]
Canada	153	2020.5	2016 Demographic and Health Survey [D115 Direct]
Callada	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	155	2020.3	adjusted) [VR]
Cama Vanda	78	2018.5	adjusted) [VK]
Cape Verde			1000 Dans a graphic and Dans a dustine Health Common [Others Disset]
	3	1992.2	1998 Demographic and Reproductive Health Survey [Others Direct]
	3	2000	2000 Census [Others Direct]
	3	2009.5	2010 Census [Others Direct]
	18	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
C . 1 . 1 . 1 . 1 . 1	51	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Central African	39	2017.4	
Republic		1070 -	1070 1060 0
	3	1959.5	1959-1960 Survey [Others Direct]
	3	1988.4	1988 Census [Others Direct]
	18	1993.7	1994-1995 Demographic and Health Survey [DHS Direct]
	3	2003.4	2003 Census [Others Direct]
	12	2017.4	2019 Multiple Indicator Cluster Survey [Others Direct]
Chad	75	2018.3	
	18	1995.9	1996-1997 Demographic and Health Survey [DHS Direct]
	18	2003.5	2004 Demographic and Health Survey [DHS Direct]
	3	2008.9	2009 Census [Others Direct]
	18	2013.7	2014-2015 Demographic and Health Survey [DHS Direct]
			Continued on next page

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Table 25 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	18	2018.3	2019 Multiple Indicator Cluster Survey [Others Direct]
Chile	150	2020.5	
	150	2020.5	WHO/Human Mortality Database/UNPD Vital Registration (recalcu-
			lated - unadjusted) [VR]
China	33	2010.5	
	3	1973.5	1964-1982 Adjusted Census Deaths (1964-1982) [Others Direct]
	3	1986.5	1982-1990 Adjusted Census Deaths (1982-1990) [Others Direct]
	3	1995.5	1990-2000 Adjusted Census Deaths (1990-2000) [Others Direct]
	3	2000.5	1999-2000 Adjusted Census Deaths (1999-2000) [Others Direct]
	3	2005.5	2000-2010 Adjusted Census Deaths (2000-2010) [Others Direct]
	18	2010.5	China CDC Surveillance surveys [VR]
Colombia	117	2020.5	
	3	1980.7	1986 Demographic and Health Survey [DHS Direct]
	3	1984.3	1990 Demographic and Health Survey [DHS Direct]
	3	1989.2	1995 Demographic and Health Survey [DHS Direct]
	3	1994.1	2000 Demographic and Health Survey [DHS Direct]
	3	2005.4	2005 Census [Others Direct]
	6	2001.7	2005 Demographic and Health Survey [DHS Direct]
	9	2007.8	2010 Demographic and Health Survey [DHS Direct]
	3	2009.1	2015 Demographic and Health Survey [DHS Direct]
	84	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Comoros	15	2017.6	-
	3	1958.2	1958 Census [Others Direct]
	3	1990.2	1996 Demographic and Health Survey [DHS Direct]
	3	2003.2	2003 Census [Others Direct]
	3	2006.6	2012 Demographic and Health Survey [DHS Direct]
	3	2017.6	2017 Census [Others Direct]
Congo	23	2011.9	
-	8	2003.5	2005 Demographic and Health Survey [DHS Direct]
	9	2009.7	2011-2012 Demographic and Health Survey [DHS Direct]
	6	2011.9	2014-2015 Multiple Indicator Cluster Survey [Others Direct]
Democratic Re-	30	2015	
public of the			
Congo			
	9	2005.5	2007 Demographic and Health Survey [DHS Direct]
	15	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]
	6	2015	2018 Multiple Indicator Cluster Survey [Others Direct]
Cook Islands	12	2008	
	12	2008	WHO Vital Registration (recalculated - unadjusted) [VR]
Costa Rica	96	2020.5	
	96	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Cote d'Ivoire	71	2014.8	
	3	1977.5	1978-1979 Demographic Survey Repeated Passages [Others Direct]
	17	1979.6	1981 World Fertility Survey [Other DHS Direct]
	18	1993.4	1994 Demographic and Health Survey [DHS Direct]
	6	1995.7	1998-1999 Demographic and Health Survey [DHS Direct]
l de la companya de	-		Continued on next nage

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Table 25 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1999.6	2005 National Demographic and Health Survey [Other DHS Direct]
	12	2010.4	2011-2012 Demographic and Health Survey [DHS Direct]
	12	2014.8	2016 Multiple Indicator Cluster Survey [Others Direct]
Croatia	117	2021.5	
	3	2010.8	2011 Census [Others Direct]
	114	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Cuba	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Cyprus	82	2019.5	
71	46	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	36	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Czech Republic	156	2021.5	
1	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Denmark	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	100	202110	adjusted) [VR]
Djibouti	6	2006.5	
Djioodii	3	1996.8	2002 Pan Arab Project for Family Health Family Health Survey [Others
		1550.0	Direct]
	3	2006.5	2012 Pan Arab Project for Family Health Family Health Survey [Others
		2000.5	Direct]
Dominica	32	2015.5	Direct)
Dominica	11	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	21	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Dominican Repub-	39	2013.8	wite viai registration (recalculated anadjusted) [viv]
lic	37	2013.0	
iic .	3	1969	1975 World Fertility Survey [Other DHS Direct]
	3	1972.3	1980 World Fertility Survey [Other DHS Direct]
	6	1983.7	1986 Demographic and Health Survey [DHS Direct]
	3	1985.5	1991 Demographic and Health Survey [DHS Direct]
	3	1983.3	1991 Demographic and Health Survey [DHS Direct]
	6	1990.7	2002 Demographic and Health Survey [DHS Direct]
	6	2004.2	2002 Demographic and Health Survey [DHS Direct]
	3	2004.2	2013 Demographic and Health Survey [DHS Direct]
	3	2007.5	2013 Demographic and Health Survey [DHS Direct] 2014 Multiple Indicator Cluster Survey [Others Direct]
	3	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct] 2019 Multiple Indicator Cluster Survey [Others Direct]
Ecuador	117	2020.5	2017 Muniple maleutor cluster ourvey [Outers Direct]
Leuadoi	3	1981	1987 Demographic and Health Survey [DHS Direct]
	6	1991.4	1994 Demographic and Maternal and Child Health Survey [Others Di-
		1771.4	rect]
	9	1997.2	1999 Demographic and Maternal and Child Health Survey [Others Di-
		1771.4	rect]
	3	1998.6	2004 Demographic and Maternal and Child Health Survey [Others Di-
	3	1770.0	
			rect]

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	2006.6	2012 Encuesta Nacional de Salud y Nutricion: Salud Sexual y Repro-
			ductiva [Others Direct]
	3	2012.9	2018 Encuesta Nacional de Salud y Nutricion [Others Direct]
	90	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Egypt	201	2019.5	
	18	1979.1	1980 World Fertility Survey [Other DHS Direct]
	12	1987.2	1988 Demographic and Health Survey [DHS Direct]
	12	1989.5	1991 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	12	1991.3	1992 Demographic and Health Survey [DHS Direct]
	12	1994.3	1995 Demographic and Health Survey [DHS Direct]
	12	1998.6	2000 Demographic and Health Survey [DHS Direct]
	6	2000.3	2003 Interim Demographic and Health Survey [DHS Direct]
	12	2003.7	2005 Demographic and Health Survey [DHS Direct]
	6	2005.2	2008 Demographic and Health Survey [DHS Direct]
	6	2011.2	2014 Demographic and Health Survey [DHS Direct]
	42	2011.2	Recalculated based on WHO - adjusted for incompleteness [VR]
	51	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
El Salvador	101	2003.5	WHO Vital Registration (recalculated - unadjusted) [VK]
El Salvador		1992.2	1002 Carrous [Othors Direct]
	3		1992 Census [Others Direct]
	2	1987.2	1993 National Family Health Survey [Others Direct]
	3	1992.3	1998 National Family Health Survey [Others Direct]
	3	1996.9	2002 National Family Health Survey [Others Direct]
	3	2006.9	2007 Census [Others Direct]
	3	2002.3	2008 National Family Health Survey [Others Direct]
	3	2008.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	81	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Equatorial Guinea			
Eritrea	39	2009.1	
	9	1993.7	1995-1996 Demographic and Health Survey [DHS Direct]
	12	2000.7	2002 Demographic and Health Survey [DHS Direct]
	18	2009.1	2010 Population and Health Survey [Other DHS Direct]
Estonia	156	2020.5	
	3	2011.6	2011-2012 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Ethiopia	72	2016.2	
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]
	18	2004.2	2005 Demographic and Health Survey [DHS Direct]
	18	2009.9	2011 Demographic and Health Survey [DHS Direct]
	12	2014.5	2016 Demographic and Health Survey [DHS Direct]
	6	2016.2	2019 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia			
Fiji	63	2019.5	
J-	6	1971.1	1974 World Fertility Survey [Other DHS Direct]
	1	1 , , 1 , 1	Continued on next nage

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	57	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Finland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
France	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Gabon	12	2006	<i>y</i> / <i>L J</i>
	9	1998.5	2000 Demographic and Health Survey [DHS Direct]
	3	2006	2012 Demographic and Health Survey [DHS Direct]
The Gambia	24	2017.8	2012 20110 grupino una 110mm 2011 (p. 1110 2 1100)
The Gumora	3	2012.8	2013 Census [Others Direct]
	12	2012.6	2018 Multiple Indicator Cluster Survey [Others Direct]
	9	2010.0	2019-2020 Demographic and Health Survey [DHS Direct]
Georgia	98	2017.8	2017 2020 Demographic and Hearth Survey [D115 Direct]
Georgia	3	1993.9	1999 Reproductive Health Survey [Others Direct]
		1993.9	2005 Reproductive Health Survey [Others Direct]
	3		l · · · · · · · · · · · · · · · · · · ·
	33	2001.5	Recalculated based on WHO - adjusted for incompleteness [VR]
C	57	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Germany	153	2021.5	WHOTH WATER TO A TO
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Ghana	94	2016.3	
	11	1986.6	1988 Demographic and Health Survey [DHS Direct]
	12	1992.2	1993-1994 Demographic and Health Survey [DHS Direct]
	9	1996.8	1998-1999 Demographic and Health Survey [DHS Direct]
	6	2000.5	2003 Demographic and Health Survey [DHS Direct]
	6	2005.7	2008 Demographic and Health Survey [DHS Direct]
	3	2010.3	2010 Census [Others Direct]
	9	2009.8	2011 Multiple Indicator Cluster Survey [Others Direct]
	8	2012.7	2014 Demographic and Health Survey [DHS Direct]
	18	2013.7	2017 Demographic and Health Survey [DHS Direct]
	12	2016.3	2017-2018 Multiple Indicator Cluster Survey [Others Direct]
Greece	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Grenada	61	2018	
	25	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	36	2018	WHO Vital Registration (recalculated - unadjusted) [VR]
Guatemala	123	2020.5	
	6	1984.7	1987 Demographic and Health Survey [DHS Direct]
	12	1993.9	1995 Demographic and Health Survey [DHS Direct]
	3	1992.8	1998-1999 Interim Demographic and Health Survey [DHS Direct]
	3	1996.3	2002 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Others
		1770.3	Direct]
1			Continued on next page

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	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	3	2002.8	2008 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Others	
			Direct]	
	3	2011.7	2014-2015 Demographic and Health Survey [DHS Direct]	
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Guinea	81	2017.1		
	3	1954.5	1954-1955 Survey [Others Direct]	
	3	1996.4	1996 Census [Others Direct]	
	18	1998.3	1999 Demographic and Health Survey [DHS Direct]	
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]	
	18	2011.4	2012 Demographic and Health Survey [DHS Direct]	
	3	2013.8	2014 Census [Others Direct]	
	18	2017.1	2018 Demographic and Health Survey [DHS Direct]	
Guinea-Bissau	37	2016.1	2010 Demographic and Headin Survey (D110 Direct)	
Guinea-Dissau	10	2010.1	2010 Multiple Indicator Cluster Survey [Others Direct]	
	18	2013.2	2010 Multiple Indicator Cluster Survey [Others Direct]	
	9	2015.2	2014 Multiple Indicator Cluster Survey [Others Direct]	
Comman			2018-2019 Multiple fluicator Cluster Survey [Others Direct]	
Guyana	99	2014.5	1075 W. 11 F. d'l'a Communication DIIC D'annel	
	6	1972.4	1975 World Fertility Survey [Other DHS Direct]	
	3	1999.4	2005 AIDS Indicator Survey [Other DHS Direct]	
	3	2003.2	2009 Demographic and Health Survey [DHS Direct]	
	3	2012.2	2012 Census [Others Direct]	
	3	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct]	
	3	2013.5	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
	78	2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Haiti	44	2014.8		
	8	1975.5	1977 World Fertility Survey [Other DHS Direct]	
	9	1992.5	1994-1995 Demographic and Health Survey [DHS Direct]	
	6	1997.1	2000 Demographic and Health Survey [DHS Direct]	
	9	2001.2	2005-2006 Demographic and Health Survey [DHS Direct]	
	6	2007.5	2012 Demographic and Health Survey [DHS Direct]	
	6	2014.8	2016-2017 Demographic and Health Survey [DHS Direct]	
Honduras	38	2016.5		
	3	1971.3	1970-1972 National Demographic Survey [Others Direct]	
	3	1982.5	1983 National Demographic Survey [Others Direct]	
	3	1990.1	1996 Reproductive Health Survey [Others Direct]	
	3	2001.1	2001 Census [Others Direct]	
	3	1992.2	2001 Reproductive Health Survey [Others Direct]	
	8	2003.7	2005-2006 Demographic and Health Survey [DHS Direct]	
	6	2003.7	2011-2012 Demographic and Health Survey [DHS Direct]	
	3	2008.7	2011-2012 Demographic and Health Survey [D113 Direct] 2013 Census [Others Direct]	
		2015.1	2013 Census [Others Direct] 2019 Multiple Indicator Cluster Survey [Others Direct]	
Llungom	152		2017 Multiple findicator Cluster Survey [Others Direct]	
Hungary	153	2020.5	WHO/Human Montality Database Vital Designation (massley-lated and	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
T 1 1	0.1	2010.7	adjusted) [VR]	
Iceland	91	2018.5	Continued on next page	

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Table 25 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	91	2018.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
India	177	2020.5		
	3	1970.5	1971 Census [Others Direct]	
	3	1980.5	1981 Census [Others Direct]	
	18	1991.2	1992-1993 Demographic and Health Survey [DHS Direct]	
	3	1991.9	1992-1993 National Family Health Survey [DHS Direct]	
	18	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]	
	3	1998.2	1998-1999 National Family Health Survey [DHS Direct]	
	18	2004.8	2005-2006 Demographic and Health Survey [DHS Direct]	
	111	2020.5	Sample Registration System [VR]	
Indonesia	147	2016.6	Sample Registration System [+14]	
maonesia	3	1964.5	1964-1965 National Socio-economic Survey [Others Direct]	
	18	1975.2	1976 World Fertility Survey [Other DHS Direct]	
	18	1986.7	1987 Demographic and Health Survey [DHS Direct]	
	18	1990.3	1991 Demographic and Health Survey [DHS Direct]	
	18	1993.5	1994 Demographic and Health Survey [DHS Direct]	
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]	
	12	2001.2	2002-2003 Demographic and Health Survey [DHS Direct]	
	12	2001.2	2002-2003 Demographic and Health Survey [DHS Direct]	
	$\begin{vmatrix} 12 \\ 3 \end{vmatrix}$	2003.9	2010 Census [Others Direct]	
	9	2009.9	2010 Census [Others Direct] 2012 Demographic and Health Survey [DHS Direct]	
	18	2010.8	,	
I (I.1 D.			2017 Demographic and Health Survey [DHS Direct]	
Iran (Islamic Re-	42	2017.5		
public of)	2	1075	1072 107(P. 1 d. C. 41 C. FO4 P. 41	
	3	1975	1973-1976 Population Growth Survey [Others Direct]	
	3	1985.5	1986 Census [Others Direct]	
	3	1999.5	2000 Demographic and Health Survey [Other DHS Direct]	
-	33	2017.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Iraq	24	2012.2		
	9	2004.2	2006 Multiple Indicator Cluster Survey [Others Direct]	
	9	2009.2	2011 Multiple Indicator Cluster Survey [Others Direct]	
	3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]	
	3	1974	Demographic Sample Survey and Sample Registration System [VR]	
Ireland	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Israel	141	2021.5		
	141	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Italy	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Jamaica	3	2010.2		
	3	2010.2	2011 Census [Others Direct]	
Japan	150	2021.5		
•			Continued on next page	

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	Table 25 – continued from previous page			
	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	150	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Jordan	20	2011.7		
	3	1984.7	1990 Demographic and Health Survey [DHS Direct]	
	3	1991.4	1997 Demographic and Health Survey [DHS Direct]	
	3	1996.5	2002 Demographic and Health Survey [DHS Direct]	
	3	2001.4	2007 Demographic and Health Survey [DHS Direct]	
	2	2003.7	2009 Demographic and Health Survey [DHS Direct]	
	3	2006.7	2012 Demographic and Health Survey [DHS Direct]	
	3	2011.7	2017 Demographic and Health Survey [DHS Direct]	
Kazakhstan	105	2021.5		
	3	1989.3	1995 Demographic and Health Survey [DHS Direct]	
	3	1993.5	1999 Demographic and Health Survey [DHS Direct]	
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Kenya	73	2013.3	will will regionalize (realization analysists) [+ ri]	
nenju	11	1976.1	1978 World Fertility Survey [Other DHS Direct]	
	6	1985.9	1989 Demographic and Health Survey [DHS Direct]	
	9	1991.1	1993 Demographic and Health Survey [DHS Direct]	
	11	1996.6	1998 Demographic and Health Survey [DHS Direct]	
	12	2001.7	2003 Demographic and Health Survey [DHS Direct]	
	6	2001.7	2008-2009 Demographic and Health Survey [DHS Direct]	
	18	2003.8		
Vinilanti	3		2014 Demographic and Health Survey [DHS Direct]	
Kiribati		2012.9	2010 Multiple Indicator Cluster Survey [Others Direct]	
D D	6	2012.9	2019 Multiple Indicator Cluster Survey [Others Direct]	
Democratic Peo-	O	2008.3		
ple's Republic of				
Korea	2	1002.5	1002 G FO.1 D' 1	
	3	1993.5	1993 Census [Others Direct]	
D 111 077	3	2008.3	2008 Census [Others Direct]	
Republic of Korea	105	2021.5	107/W 117 W 2 101	
	6	1971.7	1974 World Fertility Survey [Other DHS Direct]	
	99	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Kosovo	4	2014		
	2	2014	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
Kuwait	87	2019.5		
	87	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Kyrgyzstan	110	2021.5		
	3	1991.6	1997 Demographic and Health Survey [DHS Direct]	
	2	2006.6	2012 Demographic and Health Survey [DHS Direct]	
	3	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct]	
	3	2012.8	2018 Multiple Indicator Cluster Survey [Others Direct]	
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Lao People's	51	2016.1		
Democratic Re-				
public				
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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	2004.8	2005 Census [Others Direct]
	18	2004.8	2005 Reproductive Health Survey [Others Direct]
	18	2010.8	2012 Lao Social Indicator Survey (combined Multiple Indicator Cluster
			Survey4/Demographic and Health Survey) [DHS Direct]
	12	2016.1	2017 Multiple Indicator Cluster Survey [Others Direct]
Latvia	153	2021.5	
Latria	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2021.5	adjusted) [VR]
Lebanon	3	1990	adjusted) [TR]
Levanon	3	1990	1996 Pan Arab Project for Child Development Maternal and Child
)	1990	Health Survey [Others Direct]
T a sadda a	27	2015 5	Health Survey [Others Direct]
Lesotho	27	2015.5	1071 1072 D
	3	1971.9	1971-1973 Demographic Survey [Others Direct]
	6	1974.6	1977 World Fertility Survey [Other DHS Direct]
	3	2000.9	2001 Demographic Survey [Others Direct]
	3	1998.7	2004 Demographic and Health Survey [DHS Direct]
	3	2003.7	2009 Demographic and Health Survey [DHS Direct]
	3	2008.7	2014 Demographic and Health Survey [DHS Direct]
	3	2015.5	2016 Census [Others Direct]
	3	2012.3	2018 Multiple Indicator Cluster Survey [Others Direct]
Liberia	51	2017.7	
	3	1969.5	1969-1970 Population Growth Survey [Others Direct]
	6	1983.1	1986 Demographic and Health Survey [DHS Direct]
	9	2004.9	2006-2007 Demographic and Health Survey [DHS Direct]
	12	2007.4	2008-2009 Malaria Indicator Survey [Other DHS Direct]
	12	2011.7	2013 Demographic and Health Survey [DHS Direct]
	9	2017.7	2019-2020 Demographic and Health Survey [DHS Direct]
Libya	12	2004.4	
•	6	1992	1995 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	6	2004.4	2007 Pan Arab Project for Family Health Family Health Survey [Others
		200	Direct]
Lithuania	162	2021.5	- Directj
	3	2010.8	2011 Census [Others Direct]
	3	2010.5	2011 Census [Others Direct] 2018 Statistical Survey [Others Direct]
	156	2017.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	150	2021.3	adjusted) [VR]
Luxembourg	90	2020.5	aujusteu) [v K]
Luxeinoung	90	2020.5	WUO/Human Martality Databasa Vital Dagistration (recolor) and
	90	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
Mander	02	2020.5	adjusted) [VR]
Macedonia	93	2020.5	Develople division with the state of the sta
	93	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Madagascar	87	2020.2	
	3	1966.1	1966 Demographic Survey [Others Direct]
	3	1993.1	1993 Census [Others Direct]
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]
			Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	9	2001.8	2003-2004 Demographic and Health Survey [DHS Direct]
	18	2007.8	2008-2009 Demographic and Health Survey [DHS Direct]
	18	2017.7	2018 Multiple Indicator Cluster Survey [Others Direct]
	18	2020.2	2021 Demographic and Health Survey [DHS Direct]
Malawi	152	2019	
	2	1971.1	1970-1972 Population Change Survey [Others Direct]
	3	1977.2	1977 Census [Others Direct]
	3	1983.9	1984 Family Formation Survey [Others Direct]
	3	1987.2	1987 Census [Others Direct]
	12	1991.2	1992 Demographic and Health Survey [DHS Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	18	2003.7	2004 Demographic and Health Survey [DHS Direct]
	18	2005.6	2006 MDG Endline Survey [Others Direct]
	18	2009.4	2010 Demographic and Health Survey [DHS Direct]
	18	2012.9	2013-2014 MDG Endline Survey [Others Direct]
	18	2014.7	2015-2016 Demographic and Health Survey [DHS Direct]
	3	2014.7	2018 Census [Others Direct]
	18	2016.2	2019-2020 MDG Endline Survey [Others Direct]
Malaysia	99	2021.5	2013-2020 WIDO Elidilic Survey [Others Direct]
Maraysia	99	1972.6	1074 World Fartility Survey [Other DHS Direct]
	90	2021.5	1974 World Fertility Survey [Other DHS Direct]
Malding			WHO Vital Registration (recalculated - unadjusted) [VR]
Maldives	93	2020.5	2000 D
	3	2003	2009 Demographic and Health Survey [DHS Direct]
	3	2010.2	2016-2017 Demographic and Health Survey [DHS Direct]
	18	1994.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	69	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mali	107	2017.6	
	3	1976.4	1976 Census [Others Direct]
	12	1985.7	1987 Demographic and Health Survey [DHS Direct]
	18	1994.8	1995-1996 Demographic and Health Survey [DHS Direct]
	3	1997.8	1998 Census [Others Direct]
	18	2000	2001 Demographic and Health Survey [DHS Direct]
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]
	18	2014.6	2015 Multiple Indicator Cluster Survey [Others Direct]
	17	2017.6	2018 Demographic and Health Survey [DHS Direct]
Malta	51	2021.5	
	51	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Marshall Islands			
Mauritania	63	2017.9	
	3	1977	1976-1977 Census [Others Direct]
	12	1979.8	1981 World Fertility Survey [Other DHS Direct]
	3	1987.8	1988 Census [Others Direct]
	12	1988.5	1990 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	6	1997.6	2000-2001 Demographic and Health Survey [DHS Direct]
	9	2009.5	2011 Multiple Indicator Cluster Survey [Others Direct]
	1	ı	Continued on next page

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	#	Most			
Country	obs.	recent	Data series name [source type]		
	UDS.	obs. year			
	9	2013.6	2015 Multiple Indicator Cluster Survey [Others Direct]		
	9	2017.9	2021 Demographic and Health Survey [DHS Direct]		
Mauritius	96	2020.5			
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Mexico	132	2020.5			
	3	1981.1	1987 Demographic and Health Survey [DHS Direct]		
	12	2007.6	2009 Encuesta Nacional de la Dinamica Demografica (ENADID) [Oth-		
			ers Direct]		
	9	2012.7	2014 Encuesta Nacional de la Dinamica Demografica (ENADID) [Oth-		
			ers Direct]		
	12	2017.2	2018 Encuesta Nacional de la Dinamica Demografica (ENADID) [Oth-		
			ers Direct]		
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Republic of	99	2020.5			
Moldova					
	3	1999.4	2005 Demographic and Health Survey [DHS Direct]		
	3	2006.3	2012 Multiple Indicator Cluster Survey [Others Direct]		
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Monaco					
Mongolia	99	2019.5			
	3	1992.8	1998 Reproductive Health Survey [Others Direct]		
	3	2009.5	2010 Census [Others Direct]		
	3	2007.8	2013-2014 Social Indicator Sample Survey (SISS) [Others Direct]		
	3	2012.8	2018 Social Indicator Sample Survey (SISS) [Others Direct]		
	27	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]		
	60	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Montenegro	78	2021			
	36	2002.5	Recalculated based on WHO - adjusted for incompleteness [VR]		
	42	2021	WHO Vital Registration (recalculated - unadjusted) [VR]		
Montserrat	3	2004.5			
	3	2004.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Morocco	57	2010			
	9	1978.3	1980 World Fertility Survey [Other DHS Direct]		
	12	1985.8	1987 Demographic and Health Survey [DHS Direct]		
	6	1989	1992 Demographic and Health Survey [DHS Direct]		
	3	1989	1995 Demographic and Health Survey [DHS Direct]		
	6	1994	1997 Pan Arab Project for Child Development Maternal and Child		
			Health Survey [Others Direct]		
	9	2001.7	2003-2004 Demographic and Health Survey [DHS Direct]		
	9	2001	2004 Pan Arab Project for Family Health Family Health Survey [Others		
			Direct]		
	3	2010	2009-2010 National Demographic Survey with repeated passages [Oth-		
			ers Direct]		
Mozambique	48	2009.9			
	18	2002.6	2003-2004 Demographic and Health Survey [DHS Direct]		
	18	2007.7	2008 Multiple Indicator Cluster Survey [Others Direct]		
			Continued on next page		

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	12	2009.9	2011 Demographic and Health Survey [DHS Direct]
Myanmar	9	2013.8	
	3	2013.8	2014 Census [Others Direct]
	6	2012.9	2015-2016 Demographic and Health Survey [DHS Direct]
Namibia	33	2015.5	
	9	1990.5	1992 Demographic and Health Survey [DHS Direct]
	3	1994.7	2000 Demographic and Health Survey [DHS Direct]
	3	2001	2001 Census [Others Direct]
	6	2003.8	2006-2007 Demographic and Health Survey [DHS Direct]
	3	2011.2	2011 Census [Others Direct]
	6	2010.3	2013 Demographic and Health Survey [DHS Direct]
	3	2015.5	2016 Inter-censal Demographic Survey [Others Direct]
Nauru	3	2013.3	2010 Intel censul Beinographie Survey [Guners Breet]
Nepal	91	2013.4	
Перш	18	1990.6	1991 Fertility and Family Planning Survey [Others Direct]
	18	1995	1996 Demographic and Health Survey [DHS Direct]
	3	2001	2001 Census [Others Direct]
	17	2001	2001 Census [Others Direct] 2001 Demographic and Health Survey [DHS Direct]
	11	2000	2006 Demographic and Health Survey [DHS Direct]
	3	2010.5	2011 Census [Others Direct]
		2010.3	
	6		2011 Demographic and Health Survey [DHS Direct]
	6	2011.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	6	2013.4	2016 Demographic and Health Survey [DHS Direct]
NY .1 1 1	3	2013.3	2019 Multiple Indicator Cluster Survey [Others Direct]
Netherlands	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
New Zealand	156	2021.5	
	3	2005.7	2006 Census [Others Direct]
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Nicaragua	24	2005.6	
	9	1995.9	1998 Demographic and Health Survey [DHS Direct]
	9	1999.7	2001 Demographic and Health Survey [DHS Direct]
	3	2000.8	2006 Encuesta NicaragÃense de Demografâ a y Salud [Others Direct]
	3	2005.6	2012 Encuesta Nicaraguense de Demografia y Salud [Others Direct]
Niger	93	2020.3	
	18	1991.2	1992 Demographic and Health Survey [DHS Direct]
	18	1997.2	1998 Demographic and Health Survey [DHS Direct]
	3	2000.9	2001 Census [Others Direct]
	18	2005	2006 Demographic and Health Survey [DHS Direct]
	18	2011.1	2012 Demographic and Health Survey [DHS Direct]
	18	2020.3	2021 Enquete Nationale sur la Fecondite et la Mortalite des Enfants de
			moins de 5 ans (ENAFEME) [Others Direct]
Nigeria	100	2017.6	
	3	1965.6	1965-1966 Rural Demographic Sample Survey [Others Direct]
			Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
	005.	obs. year	
	16	1989.2	1990 Demographic and Health Survey [DHS Direct]
	12	2001.7	2003 Demographic and Health Survey [DHS Direct]
	3	2008.1	2008 Demographic and Health Survey [DHS Direct]
	18	2007.4	2008 Demographic and Health Survey [DHS Direct]
	9	2008.7	2010 Malaria Indicator Survey [Other DHS Direct]
	3	2012.8	2013 Demographic and Health Survey [DHS Direct]
	18	2012.1	2013 Demographic and Health Survey [DHS Direct]
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]
Niue	3	1995	
1,100	3	1995	WHO Vital Registration (recalculated - unadjusted) [VR]
Norway	156	2021.5	will will regionalize (could be made a standard by [+ 11]
Ttorway	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	150	2021.5	adjusted) [VR]
Oman			adjacea, [, ze]
Pakistan	90	2014.8	
Takistan	3	1964	1962-1965 Population Growth Estimation Experiment [Others Direct]
	3	1970	1971 Population Growth Survey I [Others Direct]
	6	1987.9	1990-1991 Demographic and Health Survey [DHS Direct]
	9	2002.2	2006-2007 Demographic and Health Survey [DHS Direct]
	9	2010.7	2012-2013 Demographic and Health Survey [DHS Direct]
	6	2010.7	2017-2018 Demographic and Health Survey [DHS Direct]
	54	2014.8	Pakistan Demographic Survey [VR]
Dalan			Pakistan Demographic Survey [VK]
Palau	24	2004	WIIO/IINDD Vital Desistantian (receledated and directed) [VD]
D	24	2004	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Panama	96	2021.5	
D 11 C :	96	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Papua New Guinea	6	2013.7	201(2010 D
	6	2013.7	2016-2018 Demographic and Health Survey [DHS Direct]
Paraguay	23	2010.5	
	6	1976.1	1979 World Fertility Survey [Other DHS Direct]
	3	1984.3	1990 Demographic and Health Survey [DHS Direct]
	3	1989.8	1996 Encuesta Nacional de Demografia y Salud Sexual y Reproductiva
			[Others Direct]
	3	2002.2	2002 Census [Others Direct]
	2	1998.2	2004 Encuesta Nacional de Demografia y Salud Sexual y Reproductiva
			[Others Direct]
	3	2002.5	2008 Encuesta Nacional de Demografia y Salud Sexual y Reproductiva
			[Others Direct]
_	3	2010.5	2016 Multiple Indicator Cluster Survey [Others Direct]
Peru	111	2015.1	
	6	1983.7	1986 Demographic and Health Survey [DHS Direct]
	12	1990.2	1991-1992 Demographic and Health Survey [DHS Direct]
	18	1995.6	1996 Demographic and Health Survey [DHS Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	12	2005.5	2004-2008 Demographic and Health Survey [DHS Direct]
	9	2007.2	2009 Demographic and Health Survey [DHS Direct]
	. '		Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	6	2007.2	2010 Demographic and Health Survey [DHS Direct]
	6	2008.2	2011 Demographic and Health Survey [DHS Direct]
	6	2009.2	2012 Demographic and Health Survey [DHS Direct]
	3	2007.2	2013 Demographic and Health Survey [DHS Direct]
	6	2012.2	2014 Demographic and Health Survey [DHS Direct]
	3	2011.2	2017 National Demographic and Health Survey [Other DHS Direct]
	3	2012.2	2018 National Demographic and Health Survey [Other DHS Direct]
	3	2015.1	2021 National Demographic and Health Survey [Other DHS Direct]
Philippines	159	2019.5	2021 Harris and House Survey (Cantel 2110 2 Hoos)
типринез	17	1977.1	1978 World Fertility Survey [Other DHS Direct]
	17	1992.2	1993 Demographic and Health Survey [DHS Direct]
	14	1997.1	1998 Demographic and Health Survey [DHS Direct]
	12	2001.9	2003 Demographic and Health Survey [DHS Direct]
	6	2001.9	2008 Demographic and Health Survey [DHS Direct]
	9	2003.0	2013 Demographic and Health Survey [DHS Direct]
	6	2011.6	2013 Demographic and Health Survey [DHS Direct]
	57	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
D 1 1	21	1999.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Poland	156	2021.5	WHOLE MALE DATE WATER TO A TALL I
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
D	1.50	2021.5	adjusted) [VR]
Portugal	159	2021.5	
	3	2010.8	2011 Census [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Qatar	89	2020.5	
	89	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Romania	99	2021.5	
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Russian Federation	150	2020.5	
	150	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Rwanda	134	2018.3	
	18	1982.6	1983 World Fertility Survey [Other DHS Direct]
	17	1991.4	1992 Demographic and Health Survey [DHS Direct]
	15	1999.4	2000 Demographic and Health Survey [DHS Direct]
	15	2004.1	2005 Demographic and Health Survey [DHS Direct]
	18	2006.9	2008 Demographic and Health Survey [DHS Direct]
	18	2009.7	2010 Demographic and Health Survey [DHS Direct]
	3	2012.1	2012 Census [Others Direct]
	18	2013.8	2014-2015 Demographic and Health Survey [DHS Direct]
	12	2018.3	2019-2020 Demographic and Health Survey [DHS Direct]
Saint Kitts and	23	2015.5	7 7 7 7 7 7
Nevis		,	
	23	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Saint Lucia	74	2018.5	
Suint Duciu	<i>,</i> -r	2010.5	Continued on next page

Table 25 – continued from previous page

Table 25 – continued from previous page					
	#	Most			
Country	obs.	recent	Data series name [source type]		
	UDS.	obs. year			
	74	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Samoa	15	2016.4			
	3	1999	1999 Demographic and Health Survey [Other DHS Direct]		
	2	1999.5	2000 Demographic and Vital Statistics Survey [Others Direct]		
	3	2006.4	2006 Census [Others Direct]		
	3	2011.4	2011 Population and Housing Census [Others Direct]		
	2	2013.8	2019-2020 Multiple Indicator Cluster Survey [Others Direct]		
San Marino	3	1991			
	3	1991	WHO Vital Registration (recalculated - unadjusted) [VR]		
Sao Tome and	11	2013.6			
Principe					
1	3	2002.7	2008-2009 Demographic and Health Survey [DHS Direct]		
	3	2011.9	2012 Census [Others Direct]		
	$\begin{vmatrix} z \\ 2 \end{vmatrix}$	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct]		
	3	2013.6	2019 Multiple Indicator Cluster Survey [Others Direct]		
Saudi Arabia			The state of the s		
Senegal	218	2017.3			
2 thogai	18	1977.4	1978 World Fertility Survey [Other DHS Direct]		
	18	1985.2	1986 Demographic and Health Survey [DHS Direct]		
	18	1991.8	1992-1993 Demographic and Health Survey [DHS Direct]		
	17	1996	1997 Demographic and Health Survey [DHS Direct]		
	18	1998.8	1999-2000 Demographic and Health Survey [DHS Direct]		
	3	2002.5	2002 Census [Others Direct]		
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]		
	18	2007.1	2008-2009 Malaria Indicator Survey [Other DHS Direct]		
	18	2007.7	2010-2011 Demographic and Health Survey [DHS Direct]		
	12	2011.2	2012-2013 Demographic and Health Survey [DHS Direct]		
	3	2011.2	2012-2013 Demographic and Ticardi Survey [DTIS Direct] 2013 Census [Others Direct]		
	6	2013.4	2013 Census [Others Direct] 2014 Demographic and Health Survey [DHS Direct]		
	6	2011	2014 Demographic and Health Survey [DHS Direct]		
	9	2012	2015 Demographic and Health Survey [DHS Direct]		
	18	2014	2017 Demographic and Health Survey [DHS Direct]		
	9	2016.2	2017 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct]		
	9	2016.4	2018 Demographic and Health Survey [DHS Direct] 2019 Demographic and Health Survey [DHS Direct]		
Serbia	99	2017.5	2017 Demographic and ricatin burvey [D115 Difect]		
Sciula	60	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]		
	39	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Cayaballas			wito vital Registration (recalculated - unadjusted) [VK]		
Seychelles	53	2016.5	1060 Canaga [Othora Direct]		
	3	1959.8	1960 Census [Others Direct]		
Ciama I sans	50	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]		
Sierra Leone	66	2018.3	2000 Demographic and Health Common IDHC Directly		
	12	2006.7	2008 Demographic and Health Survey [DHS Direct]		
 	18	2012.4	2013 Demographic and Health Survey [DHS Direct]		
 	18	2016.4	2017 Multiple Indicator Cluster Survey [Others Direct]		
G:	18	2018.3	2019 Demographic and Health Survey [DHS Direct]		
Singapore	96	2020.5	Continued on next page		

Table 25 – continued from previous page

Table 25 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Slovakia	156	2021.5		
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Slovenia	117	2021.5		
	117	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Solomon Islands	6	2009.4	<i>y</i> / <i>L J</i>	
	3	2009.4	2009 Census [Others Direct]	
	3	2008	2015 Demographic and Health Survey [Other DHS Direct]	
Somalia	12	2005.2	2010 20110 grupino una 110mm sur 10, [cumor 2110 21100]	
Somana	12	2005.2	2006 Multiple Indicator Cluster Survey [Others Direct]	
South Africa	75	2020.5	2000 Multiple indicator Cluster Survey [Outers Direct]	
South Affica	6	1995	1998 Demographic and Health Survey [DHS Direct]	
	3	2011.3	2011 Census [Others Direct]	
	3	2011.3	2011 Census [Others Direct] 2016 Demographic and Health Survey [DHS Direct]	
		2010.4	,	
0 1- 0 1	63		Rapid Mortality Surveillance [VR]	
South Sudan	6	2007.2	2010 Maltida I. I. I. I. at a Chata Carres [Others Disease]	
g :	6	2007.2	2010 Multiple Indicator Cluster Survey [Others Direct]	
Spain	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Sri Lanka	93	2014.5		
	6	1984	1987 Demographic and Health Survey [DHS Direct]	
	6	1990.6	1993 Demographic and Health Survey [Other DHS Direct]	
	3	1994.4	2000 Demographic and Health Survey [Other DHS Direct]	
	6	2003.7	2007 Demographic and Health Survey [Other DHS Direct]	
	3	2010.4	2016 Demographic and Health Survey [Other DHS Direct]	
	69	2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Saint Vincent and	64	2017		
the Grenadines				
	64	2017	WHO Vital Registration (recalculated - unadjusted) [VR]	
State of Palestine	27	2013.9		
	9	1993.9	1995 Demographic Survey [Others Direct]	
	6	2003	2006 Pan Arab Project for Family Health Family Health Survey [Others	
			Direct]	
	6	2007.4	2010 Multiple Indicator Cluster Survey [Others Direct]	
	3	2008.2	2014 Multiple Indicator Cluster Survey [Others Direct]	
	3	2013.9	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
Sudan	63	2013.2		
	9	1976	1979 World Fertility Survey [Other DHS Direct]	
	18	1988.8	1989-1990 Demographic and Health Survey [DHS Direct]	
	18	1991	1993 Pan Arab Project for Child Development Maternal and Child	
		-//*	Health Survey [Others Direct]	
	6	2007.2	2010 Multiple Indicator Cluster Survey [Others Direct]	
	0	2007.2	Continued on next page	

Table 25 – continued from previous page

Country	Table 25 – continued from previous page			
Data series name source type		#	Most	
12 2013.2 2014 Multiple Indicator Cluster Survey [Others Direct]	Country		recent	Data series name [source type]
Suriname		UDS.	obs. year	
Swatini		12	2013.2	2014 Multiple Indicator Cluster Survey [Others Direct]
Swatini	Suriname	96	2019.5	
Eswatini		3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]
3 1996.9 1997 Census [Others Direct] 3 2000.5 2006-2007 Demographic and Health Survey [DHS Direct] 6 2007.7 2010 Multiple Indicator Cluster Survey [Others Direct] 9 2013.1 2014 Multiple Indicator Cluster Survey [Others Direct] 156 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Switzerland 156 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Syria 51 2010.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 3 1987 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 39 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Taijkistan 75 2021.5 2021.5 2021.5 2021.5 2021.6 2017 Demographic and Health Survey [DHS Direct] 2018 2019.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] 42 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1 2017 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 1990.7 1999 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Others Direct] 12 2008.4 2010-2011 National Panel Survey [DHS Direct] 2012 2014.1 2016 Demographic and Health Survey [DHS Direct] 2014.1 2015 Demographic and Health Survey [DHS Direct] 2015 Demographic and Health Survey [DHS Direct] 2015 Demographic and Health Survey [DHS Direct] 2016 Demographic a		93	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
3 1996.9 1997 Census [Others Direct] 3 2000.5 2006-2007 Demographic and Health Survey [DHS Direct] 6 2007.7 2010 Multiple Indicator Cluster Survey [Others Direct] 9 2013.1 2014 Multiple Indicator Cluster Survey [Others Direct] 156 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Switzerland 156 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Syria 51 2010.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 3 1987 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 39 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Taijkistan 75 2021.5 2021.5 2021.5 2021.5 2021.6 2017 Demographic and Health Survey [DHS Direct] 2018 2019.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] 42 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1 2017 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 1990.7 1999 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Others Direct] 12 2008.4 2010-2011 National Panel Survey [DHS Direct] 2012 2014.1 2016 Demographic and Health Survey [DHS Direct] 2014.1 2015 Demographic and Health Survey [DHS Direct] 2015 Demographic and Health Survey [DHS Direct] 2015 Demographic and Health Survey [DHS Direct] 2016 Demographic a	Eswatini	21	2013.1	
3 2000.5 2006-2007 Demographic and Health Survey [DHS Direct] 2010 Multiple Indicator Cluster Survey [Others Direct] 2014 Multiple Indicator Cluster Survey [Others Direct] 2014 Multiple Indicator Cluster Survey [Others Direct] 36 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Switzerland 156 2021.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Syria 51 2010.5 WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR] Syria 51 2010.5 1978 World Fertility Survey [Other DHS Direct] 30 1987 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 37 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 30 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 2011 2014 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 2011 2014 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 2011 2014 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 2011 2014 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Syria 2011 2014 2015 2016 Demographic and Health Survey [DHS Direct] 2006 2007 2008 AIDS Indicator Survey [Others Direct] 2015 2016 2016 Demographic and Health Survey [DHS Direct] 2015 2		3		1997 Census [Others Direct]
Sweden		3	2000.5	
Sweden		6		,
Sweden				
156	Sweden			
Switzerland	Sweden			WHO/Human Mortality Database Vital Registration (recalculated - un-
Switzerland		150	2021.3	,
Syria S1 2010.5	Switzerland	156	2021.5	adjusted) [TR]
Syria 51 2010.5 1978. World Fertility Survey [Other DHS Direct] 3 1987 1993. Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 3 1995.8 2001 Pan Arab Project for Family Health Family Health Survey [Others Direct] 3 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tajikistan 75 2021.5 2012 Demographic and Health Survey [DHS Direct] 3 2011.6 2017 Demographic and Health Survey [DHS Direct] 27 1999.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] 42 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1 2014.1 3 1973.3 1973 National Demographic Survey [Others Direct] 18 1990.7 1999. Demographic and Health Survey [DHS Direct] 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Other DHS Direct] 12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2010.4 2010-2011 National Panel Survey [Others Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1989 1989 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 3 2019.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Cha	Switzeriund			WHO/Human Mortality Database Vital Registration (recalculated - un-
Syria		130	2021.3	,
1975.5 1978 World Fertility Survey [Other DHS Direct] 1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 3 1995.8 2001 Pan Arab Project for Family Health Family Health Survey [Others Direct] 39 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] 3 2006.5 2012 Demographic and Health Survey [DHS Direct] 3 2011.6 2017 Demographic and Health Survey [DHS Direct] 27 1999.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] WHO Vital Registration (recalculated - unadjusted) [VR] 3 1973.3 1973 National Demographic Survey [Others Direct] 18 1990.7 1991-1992 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Others Direct] 12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2012.4 2010-2011 National Panel Survey [Others Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1985.5 1987 Demographic and Health Survey [DHS Direct] 3 1985.5 1985 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 3 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] 1000-2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others	Carrio	51	2010.5	adjusted) [VK]
1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct] 2001 Pan Arab Project for Family Health Family Health Survey [Others Direct] 2001 Pan Arab Project for Family Health Family Health Survey [Others Direct] 39 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] 30 2011.6 2017 Demographic and Health Survey [DHS Direct] 30 2011.6 2017 Demographic and Health Survey [DHS Direct] 30 2014.1 2014.1 30 1973.3 1973 National Demographic Survey [Others Direct] 31 1993.7 1991-1992 Demographic and Health Survey [DHS Direct] 31 1993.7 1999 Demographic and Health Survey [DHS Direct] 31 1993.7 2004-2005 Demographic and Health Survey [DHS Direct] 32 2006.2 2007-2008 AIDS Indicator Survey [Other DHS Direct] 32 2010.4 2010 Demographic and Health Survey [DHS Direct] 32 2012.2 2012-2013 National Panel Survey [Others Direct] 32 2012.2 2012-2013 National Panel Survey [Others Direct] 32 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 31 1981.2 1987 Demographic and Health Survey [DHS Direct] 32 1989 1989 Survey of Population Change [Others Direct] 31 1985.5 1995 Survey of Population Change [Others Direct] 32 2005.5 2005-2006 Survey of Population Change [Others Direct] 37 2005-2006 Survey of Population Change [Others Direct] 38 2019.5 2005-2006 Survey of Population Change [Others Direct] 37 2005-2006 Survey of Population Change [Others Direct] 38 2019.5 2005-2006 Survey of Population Change [Others Direct] 37 2005-2006 Survey of Population Change [Others Direct] 38 2019.5 2005-2006 Survey of Population Change [Others Direct] 39 2005-2006 Survey of Population Change [Others Direct] 30 2005-2006 Survey of Population Change [Others Direct] 30 30 30 30 30 30 30 3	Sylla			1078 World Fartility Survey [Other DUS Direct]
Health Survey [Others Direct] 3 1995.8 2001 Pan Arab Project for Family Health Family Health Survey [Others Direct] 39 2010.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tajikistan 75 2021.5 3 2006.5 2012 Demographic and Health Survey [DHS Direct] 3 2011.6 2017 Demographic and Health Survey [DHS Direct] 42 2021.5 WHO Vital Registration (recalculated - unadjusted for incompleteness [VR] WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1				· · · · · · · · · · · · · · · · · · ·
3)	1907	1
Direct		2	1005 8	
Tajikistan		3	1993.6	
Tajikistan		20	2010.5	_
3 2006.5 2012 Demographic and Health Survey [DHS Direct] 3 2011.6 2017 Demographic and Health Survey [DHS Direct] 27 1999.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] 42 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1 3 1973.3 1973.3 1973.3 1973.1 1991-1992 Demographic Survey [Others Direct] 18 1990.7 1991-1992 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Other DHS Direct] 12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2010.4 2010-2011 National Panel Survey [Others Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] Recalculated based on WHO - adjusted for incompleteness [VR] 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]	Taliliotan			who vital Registration (recalculated - unadjusted) [VK]
3 2011.6 2017 Demographic and Health Survey [DHS Direct] 27 1999.5 Recalculated based on WHO/UNPD - adjusted for incompleteness [VR] 42 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR] Tanzania 101 2014.1 3 1973.3 1973 National Demographic Survey [Others Direct] 18 1990.7 1991-1992 Demographic and Health Survey [DHS Direct] 17 1995.5 1996 Demographic and Health Survey [DHS Direct] 18 2003.7 2004-2005 Demographic and Health Survey [DHS Direct] 12 2006.2 2007-2008 AIDS Indicator Survey [Other DHS Direct] 12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2010.4 2010-2011 National Panel Survey [Others Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 12 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 2009-2010 Demographic and Health Survey [DHS Direct] 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.4 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 15 2008.1 2009-2010 Demographic and Health Survey [DHS Direct] 2009-2010 Dem	rajikistan			2012 Damagraphia and Haalth Currey [DHC Direct]
27				,
A2 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR]				· · · · · · · · · · · · · · · · · · ·
Tanzania				
3	Tongonio			who vital Registration (recalculated - unadjusted) [VK]
18	Tanzania			1072 N. d' I D I' C [Od D' d]
17				
3				, , , , , , , , , , , , , , , , , , , ,
18				
12 2006.2 2007-2008 AIDS Indicator Survey [Other DHS Direct] 12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2010.4 2010-2011 National Panel Survey [Others Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 12 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				, ,
12 2008.4 2010 Demographic and Health Survey [DHS Direct] 3 2010.4 2010-2011 National Panel Survey [Others Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 12 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				, -
3 2010.4 2010-2011 National Panel Survey [Others Direct] 3 2012.2 2012-2013 National Panel Survey [Others Direct] 12 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				-
3 2012.2 2012-2013 National Panel Survey [Others Direct] 2014.1 2015-2016 Demographic and Health Survey [DHS Direct] 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 2009-2010 Demographic and Health Survey [DHS Direct]				T
12 2014.1 2015-2016 Demographic and Health Survey [DHS Direct]				
Thailand 98 2019.5 3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				•
3 1981.2 1987 Demographic and Health Survey [DHS Direct] 3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]	m 1 1			2015-2016 Demographic and Health Survey [DHS Direct]
3 1989 1989 Survey of Population Change [Others Direct] 3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]	Thailand			10077
3 1995.5 1995 Survey of Population Change [Others Direct] 2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				
2 2005.5 2005-2006 Survey of Population Change [Others Direct] 87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				
87 2019.5 Recalculated based on WHO - adjusted for incompleteness [VR] Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				
Timor Leste 15 2008.4 12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				
12 2008.1 2009-2010 Demographic and Health Survey [DHS Direct]				Recalculated based on WHO - adjusted for incompleteness [VR]
	Timor Leste			
	ı	12	2008.1	, , , , , , , , , , , , , , , , , , , ,

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	Table 25 – continued from previous page			
	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	3	2008.4	2015 Census [Others Direct]	
Togo	66	2016.3		
	3	1961.4	1961 Demographic survey [Others Direct]	
	12	1986.9	1988 Demographic and Health Survey [DHS Direct]	
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]	
	3	2010.4	2010 Census [Others Direct]	
	18	2012.8	2013-2014 Demographic and Health Survey [DHS Direct]	
	12	2016.3	2017 Multiple Indicator Cluster Survey [Others Direct]	
Tonga	75	2018.5		
	3	2006.4	2006 Census [Others Direct]	
	2	2013.8	2019 Multiple Indicator Cluster Survey [Others Direct]	
	41	2005.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	29	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Trinidad and To-	92	2017.5	<u> </u>	
bago				
	3	1971.2	1977 World Fertility Survey [Other DHS Direct]	
	2	1981.3	1987 Demographic and Health Survey [DHS Direct]	
	87	2017.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]	
Tunisia	51	2017.5	(retailed analysis of [+11]	
20111310	3	1969	1968-1969 National Demographic Survey [Others Direct]	
	6	1985.4	1988 Demographic and Health Survey [DHS Direct]	
	3	1988	1994 Pan Arab Project for Child Development Maternal and Child	
		1700	Health Survey [Others Direct]	
	3	1995	2001 Pan Arab Project for Family Health Family Health Survey [Others	
			Direct]	
	3	2006	2011-2012 Multiple Indicator Cluster Survey [Others Direct]	
	3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]	
	$\begin{vmatrix} 3 \\ 21 \end{vmatrix}$	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	$\begin{vmatrix} 21 \\ 9 \end{vmatrix}$	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Turkey	59	2017.5	vitto vital Registration (recalculated anadjusted) [vit]	
Turkey	8	1976.7	1978 World Fertility Survey [Other DHS Direct]	
	$\begin{bmatrix} 6 \\ 3 \end{bmatrix}$	1970.7	1978 World Fertility Survey [Other DHS Direct] 1993 Demographic and Health Survey [DHS Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	1987.0	1998 Demographic and Health Survey [DHS Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	1992.0	2003-2004 Demographic and Health Survey [Other DHS Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	2002.7	2003-2004 Demographic and Health Survey [Other DHS Direct] 2003 National Verbal Autopsy Survey [Others Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	2002.7	2003 National Verbal Autopsy Survey [Others Direct] 2008 Turkey Demographic and Health Survey [Other DHS Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	2002.7	2008 Turkey Demographic and Health Survey [Other DHS Direct] 2013 NDemographic and Health Survey [Other DHS Direct]	
	$\begin{vmatrix} 3 \\ 3 \end{vmatrix}$	2007.7	2013 NDemographic and Health Survey [Other DHS Direct] 2018 Demographic and Health Survey [Other DHS Direct]	
	$\begin{vmatrix} 3 \\ 30 \end{vmatrix}$	2012.8	WHO Vital Registration (recalculated - unadjusted) [VR]	
Turkmaniatan			wito vital registration (recalculated - unaujusted) [VR]	
Turkmenistan	88	2015.5	2000 Damagraphia and Haalth Survey [DUS Direct]	
	$\begin{bmatrix} 3 \\ 2 \end{bmatrix}$	1994.5	2000 Demographic and Health Survey [DHS Direct]	
	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	2009.8	2016 Multiple Indicator Cluster Survey [Others Direct]	
	2	2013.4	2019 Multiple Indicator Cluster Survey [Others Direct]	
Toules and C	81	2015.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
Turks and Caicos	16	2013.8		
Islands			Continued on next page	

Table 25 – continued from previous page

Table 25 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	2	2013.8	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
	14	2006.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Tuvalu	11	2013.9		
	2	2013.9	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
	9	2002	WHO Vital Registration (recalculated - unadjusted) [VR]	
Uganda	95	2015.4		
	12	1987.2	1988-1989 Demographic and Health Survey [DHS Direct]	
	12	1993.7	1995 Demographic and Health Survey [DHS Direct]	
	12	1999.2	2000-2001 Demographic and Health Survey [DHS Direct]	
	3	2006	2006 Demographic and Health Survey [DHS Direct]	
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]	
	3	2003.8	2009-2010 Demographic and Health Survey [DHS Direct]	
	17	2010.4	2011 Demographic and Health Survey [DHS Direct]	
	18	2015.4	2016 Demographic and Health Survey [DHS Direct]	
Ukraine	160	2021.5		
	3	1993.5	1999 Reproductive Health Survey [Others Direct]	
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
United Arab Emi-				
rates				
United Kingdom	201	2020.5		
_	201	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
United States of	153	2020.5		
America				
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Uruguay	93	2020.5		
•	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Uzbekistan	102	2021.5		
	3	1996	2002 Demographic and Health Survey [Other DHS Direct]	
	99	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Vanuatu	3	2009.4	2 L1	
	3	2009.4	2009 Census [Others Direct]	
Venezuela (Boli-	81	2016.5		
varian Republic	0.1	2010.0		
of)				
)	3	1971.2	1977 World Fertility Survey [Other DHS Direct]	
	45	2016.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
	33	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Vietnam	54	2020.3		
	3	1978.8	1979 Census [Others Direct]	
	9	1986	1988 National Demographic and Health Survey [Other DHS Direct]	
	3	1991.5	1997 Demographic and Health Survey [DHS Direct]	
	3	1998.7	1999 Census [Others Direct]	
	3	1996.7	2002 Demographic and Health Survey [DHS Direct]	
	3	2006.8	2007 Population Change and Family Planning Survey [Others Direct]	
	5	2000.0	Continued on next page	

Table 25 – continued from previous page

		Most	e 25 – continued from previous page
Country	#	recent	Data series name [source type]
Country	obs.	obs. year	Data series name [source type]
	3	2010.8	2011 Population Change and Family Planning Survey [Others Direct]
	3	2010.8	2011 Population Change and Family Planning Survey [Others Direct]
	3	2011.8	2012 Population Change and Family Flaming Survey [Others Direct]
			•
	3	2012.8	2013 Population Change and Family Planning Survey [Others Direct] 2014 Intercensal Demographic Survey [Others Direct]
	3	2013.5 2014.8	2014 Intercensal Demographic Survey [Others Direct] 2015 Population Change and Family Planning Survey [Others Direct]
	3	2014.8	
	3	2010.5	2017 Population Change and Family Planning Survey [Others Direct]
			2018 Population Change and Family Planning Survey [Others Direct]
	3	2020.3	2020 Population Change and Family Planning Survey [Others Direct]
V	3	2014.9	2021 Multiple Indicator Cluster Survey [Others Direct]
Yemen	60	2007.7	1070 W. 11 F. 4'l' - Commun [Od. on DHC D' on d]
	6	1976.7	1979 World Fertility Survey [Other DHS Direct]
	9	1989.8	1991-1992 Demographic and Health Survey [DHS Direct]
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]
	18	2002	2003 Pan Arab Project for Family Health Family Health Survey [Others
	2	2000 7	Direct]
	3	2000.7	2006 Multiple Indicator Cluster Survey [Others Direct]
	6	2007.7	2013 Demographic and Health Survey [DHS Direct]
Zambia	95	2017	1000 D
	18	1991	1992 Demographic and Health Survey [DHS Direct]
	17	1995.5	1996-1997 Demographic and Health Survey [DHS Direct]
	18	2000.8	2001-2002 Demographic and Health Survey [DHS Direct]
	12	2005.7	2007 Demographic and Health Survey [DHS Direct]
	18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]
	12	2017	2018 Demographic and Health Survey [DHS Direct]
Zimbabwe	62	2016.5	1000 1000 D
	6	1985.7	1988-1989 Demographic and Health Survey [DHS Direct]
	3	1992.1	1992 Census [Others Direct]
	6	1991.5	1994 Demographic and Health Survey [DHS Direct]
	3	1993.7	1999 Demographic and Health Survey [DHS Direct]
	6	2006.3	2009 Multiple Indicator Cluster Survey [Others Direct]
	8	2008.7	2010-2011 Demographic and Health Survey [DHS Direct]
	3	2012.1	2012 Census [Others Direct]
	12	2012.7	2014 Multiple Indicator Cluster Survey [Others Direct]
	6	2012.5	2015 Demographic and Health Survey [DHS Direct]
	3	2016.5	2017 Inter-Censal Demographic Survey [Others Direct]
	6	2016.1	2019 Multiple Indicator Cluster Survey [Others Direct]

Table 26: **Sex ratio data sources for age group 10–14, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	1	N/L 4	T
	#	Most	
Country	obs.	recent	Data series name [source type]
A.C. 1	10	obs. year	
Afghanistan	42	2015.2	1070 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	3	1973	1972 National Demographic and Family Guidance Survey [Others Di-
	_	1070	rect]
	3	1979	1979 Census [Others Direct]
	3	2008.1	2010 Afghanistan Mortality Survey (AMS) Excluding South Zone (Household data) [Other DHS Direct]
	18	2009	2010 Afghanistan Mortality Survey (AMS) [DHS Direct]
	9	2013.4	2015 Demographic and Health Survey [DHS Direct]
	6	2015.2	2018 Afghanistan Health Survey 2018 [Others Direct]
Albania	77	2021.5	
	3	2002.7	2008-2009 Demographic and Health Survey [DHS Direct]
	3	2011.1	2011 Census [Others Direct]
	3	2011.7	2018 Demographic and Health Survey [DHS Direct]
	66	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Algeria	72	2020.5	
	6	1989	1992 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct]
	3	1996	2002 Pan Arab Project for Family Health Family Health Survey [Others Direct]
	63	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Andorra	10	2018.5	WITO Vital Registration (recalculated - unaujusted) [VR]
rindorra	10	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Angola	12	2014.3	Wife vital Registration (recalculated analysised) [VR]
7 Migola	12	2014.3	2015-2016 Inquerito de Indicadores Multiplos e de Saude [DHS Di-
	12	2014.3	rect]
Anguilla			
Antigua and Bar-	18	2016.5	
buda			
	18	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Argentina	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Armenia	108	2021.5	
	3	1994.7	2000 Demographic and Health Survey [DHS Direct]
	3	1999.7	2005 Demographic and Health Survey [DHS Direct]
	3	2004.7	2010 Demographic and Health Survey [DHS Direct]
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Australia	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Austria	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]

Table 26 – continued from previous page

Table 26 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	0.05	obs. year	
Azerbaijan	92	2021.5	
	2	2000.5	2006 Demographic and Health Survey [DHS Direct]
	3	2005	2011 Azerbaijan National Demographic and Health Survey [Other
			DHS Direct]
	87	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Bahamas	86	2020.5	
	86	2020.5	Recalculated based on WHO/UNPD - adjusted for incompleteness
			[VR]
Bahrain	93	2019.5	
	93	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Bangladesh	261	2020.5	, , , , , , , , , , , , , , , , , , ,
Builgiudesii	3	1964	1962-1965 Population Growth Estimation Experiment [Others Direct]
	3	1974.5	1974 Retrospective Fertility and Mortality Survey (UN SA) [Others
		1774.5	Direct]
	18	1975	1976 World Fertility Survey [Other DHS Direct]
	18	1992.8	1993-1994 Demographic and Health Survey [DHS Direct]
	15	1992.8	1996-1997 Demographic and Health Survey [DHS Direct]
	3		
	I	1999.8	1999-2000 Demographic and Health Survey [DHS Direct]
	18	1998.8	1999-2000 Demographic and Health Survey [DHS Direct]
	18	2003	2004 Demographic and Health Survey [DHS Direct]
	9	2005.2	2007 Demographic and Health Survey [DHS Direct]
	3	2010	2010 Maternal Health Services and Maternal Mortality Survey [Other
			DHS Direct]
	3	2010.7	2011 Census [Others Direct]
	18	2010.5	2011 Demographic and Health Survey [DHS Direct]
	12	2012.9	2014 Demographic and Health Survey [DHS Direct]
	3	2016	2016 Maternal Health Services and Maternal Mortality Survey [Others Direct]
	12	2016.2	2017-2018 Demographic and Health Survey [DHS Direct]
	18	2018.1	2019 Multiple Indicator Cluster Survey [Others Direct]
	3	2016.1	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2016.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2017.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3		
	3	2019.5 2020.5	Report on Sample Vital Registration System 2016 [Others Direct]
	72		Report on Sample Vital Registration System 2016 [Others Direct]
Dowlers of a c		2015.5	Sample Vital Statistics [VR]
Barbados	54	2013	WHO What Designation (and let all one Park 1970)
D .1.	54	2013	WHO Vital Registration (recalculated - unadjusted) [VR]
Belarus	150	2019.5	WHOM MARK DATE WATER TO A STATE OF THE STATE
	150	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Belgium	153	2020.5	
_	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Belize	85	2018.5	
	2	2009.8	2015-2016 Multiple Indicator Cluster Survey [Others Direct]

Table 26 – continued from previous page

Table 26 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	81	2018.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Benin	107	2016.8	
	17	1981	1982 World Fertility Survey [Other DHS Direct]
	18	1995.4	1996 Demographic and Health Survey [DHS Direct]
	18	2000.6	2001 Demographic and Health Survey [DHS Direct]
	18	2005.6	2006 Demographic and Health Survey [DHS Direct]
	18	2013.5	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2016.8	2017-2018 Demographic and Health Survey [DHS Direct]
Bhutan	9	2012.5	
	3	1993.1	1994 National Health Survey [Others Direct]
	3	2004.9	2005 Census [Others Direct]
	3	2012.5	2012 National Health Survey [Others Direct]
Bolivia (Pluri-	51	2010.4	
national State		,	
of)			
	3	1979.8	1980 National Demographic Survey [Others Direct]
	6	1986.2	1989 Demographic and Health Survey [DHS Direct]
	9	1991.8	1993-1994 Demographic and Health Survey [DHS Direct]
	9	1996.2	1998 Demographic and Health Survey [DHS Direct]
	12	2002.1	2003 Demographic and Health Survey [DHS Direct]
	9	2006.1	2008 Demographic and Health Survey [DHS Direct]
	3	2010.4	2016 Encuesta de Demografma y Salud [Others Direct]
Bosnia and Herze-	75	2020.5	2010 Encaresta de Demografina y Sarad (Caners Encare)
govina	, 5	2020.8	
govina	75	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Botswana	18	2016.5	(comparing and process) [+ 11]
Botswana	3	1981.1	1981 Census [Others Direct]
	3	1991.1	1991 Census [Others Direct]
	3	2001.1	2001 Census [Others Direct]
	3	2001.8	2008 Family Health Survey [Others Direct]
	3	2011.1	2011 Census [Others Direct]
	3	2011.1	2017 Census [Others Direct] 2017 Demographic Survey [Others Direct]
Brazil	104	2020.5	2017 20110 Stapine out to J [Outers Breek]
∠. ₩211	3	1990.2	1996 Demographic and Health Survey [DHS Direct]
	3	2010.2	2010 Census [Others Direct]
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
British Virgin Is-	7.0	2020.0	
lands			
Brunei	87	2019.5	
2101101	87	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Bulgaria	156	2021.5	ran regionation (recurements unaujustica) [111]
Daigaila	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
	150	2021.3	unadjusted) [VR]
Burkina Faso	70	2009.3	
Durkina Fasu	3	1960.5	1960-1961 Survey [Others Direct]
	12	1900.3	1993 Demographic and Health Survey [DHS Direct]
	12	1771.4	Continued on next page

Table 26 – continued from previous page

Table 26 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	16	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]	
	18	2002.4	2003 Demographic and Health Survey [DHS Direct]	
	3	2007.3	2008 Global Fund Evaluation Survey [Others Direct]	
	18	2009.3	2010 Demographic and Health Survey [DHS Direct]	
Burundi	53	2015.7		
	3	1964.7	1965 Population Survey [Others Direct]	
	3	1969.5	1970 Demographic Survey [Others Direct]	
	11	1985.7	1987 Demographic and Health Survey [DHS Direct]	
	18	2009.6	2010-2011 Demographic and Health Survey [DHS Direct]	
	18	2015.7	2016-2017 Demographic and Health Survey [DHS Direct]	
Cambodia	57	2012.4		
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]	
	18	2004.7	2005 Demographic and Health Survey [DHS Direct]	
	12	2009	2010 Demographic and Health Survey [DHS Direct]	
	9	2012.4	2014 Demographic and Health Survey [DHS Direct]	
Cameroon	99	2016.9		
	3	1975.8	1976 Census [Others Direct]	
	12	1976.5	1978 World Fertility Survey [Other DHS Direct]	
	3	1986.8	1987 Census [Others Direct]	
	9	1989.2	1991 Demographic and Health Survey [DHS Direct]	
	12	1996.6	1998 Demographic and Health Survey [DHS Direct]	
	18	2003.1	2004 Demographic and Health Survey [DHS Direct]	
	18	2010	2011 Demographic and Health Survey [DHS Direct]	
	12	2013	2014 Multiple Indicator Cluster Surveys [Others Direct]	
	12	2016.9	2018 Demographic and Health Survey [DHS Direct]	
Canada	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Cape Verde	78	2018.5		
	3	1992.2	1998 Demographic and Reproductive Health Survey [Others Direct]	
	3	2000	2000 Census [Others Direct]	
	3	2009.5	2010 Census [Others Direct]	
	18	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness	
			[VR]	
	51	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]	
Central African	39	2017.4		
Republic				
	3	1959.5	1959-1960 Survey [Others Direct]	
	3	1988.4	1988 Census [Others Direct]	
	18	1993.7	1994-1995 Demographic and Health Survey [DHS Direct]	
	3	2003.4	2003 Census [Others Direct]	
	12	2017.4	2019 Multiple Indicator Cluster Survey [Others Direct]	
Chad	75	2018.3		
	18	1995.9	1996-1997 Demographic and Health Survey [DHS Direct]	
	18	2003.5	2004 Demographic and Health Survey [DHS Direct]	
	3	2008.9	2009 Census [Others Direct]	
	I	ı	Continued on next nego	

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Country	Table 26 – continued from previous page			
Data series name [source type] Data series name [source type]		#	Most	
September 18	Country		recent	Data series name [source type]
Chile		UDS.	obs. year	
Chile		18	2013.7	2014-2015 Demographic and Health Survey [DHS Direct]
150		18	2018.3	2019 Multiple Indicator Cluster Survey [Others Direct]
China	Chile	150	2020.5	
China		150	2020.5	WHO/Human Mortality Database/UNPD Vital Registration (recalcu-
China				
3	China	33	2010.5	, , , , ,
3		3	1973.5	1964-1982 Adjusted Census Deaths (1964-1982) [Others Direct]
3		3		·
3 2000.5 1999-2000 Adjusted Census Deaths (1999-2000) Others Direct 3 2005.5 2000-2010 Adjusted Census Deaths (2000-2010) [Others Direct] 18 2010.5 China CDC Surveillance surveys [VR]				
3				
18				
Colombia				
3	Colombia			
3	2 3101110111			1986 Demographic and Health Survey [DHS Direct]
3				• · · · · · · · · · · · · · · · · · · ·
3				
3 2005.4 2005 Census [Others Direct] 6 2001.7 2005 Demographic and Health Survey [DHS Direct] 9 2007.8 2010 Demographic and Health Survey [DHS Direct] 3 2009.1 2015 Demographic and Health Survey [DHS Direct] 84 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				• •
Compo				
9				
3 2009.1 2015 Demographic and Health Survey [DHS Direct]				T =
Second				• •
Comoros				T =
3	Comoros			Recalculated based on WITO - adjusted for incompleteness [VR]
3	Comoros			1058 Canque [Others Direct]
3 2003.2 2003 Census [Others Direct] 3 2006.6 2012 Demographic and Health Survey [DHS Direct] 3 2017.6 2017 Census [Others Direct] 2017 Census [Others Direct] 2018 Demographic and Health Survey [DHS Direct] 9 2009.7 2011-2012 Demographic and Health Survey [DHS Direct] 2014-2015 Multiple Indicator Cluster Survey [Others Direct] 15 2015 2013-2014 Demographic and Health Survey [DHS Direct] 2013-2014 Demographic and Health Survey [DHS Direct] 2014-2015 Multiple Indicator Cluster Survey [Others Direct] 2015 2016 2013-2014 Demographic and Health Survey [DHS Direct] 2018 Multiple Indicator Cluster Survey [Others Direct] 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				
3 2006.6 2012 Demographic and Health Survey [DHS Direct]				
Congo				
Congo 23 2011.9 2003.5 2005 Demographic and Health Survey [DHS Direct] 9 2009.7 2011-2012 Demographic and Health Survey [DHS Direct] 6 2011.9 2014-2015 Multiple Indicator Cluster Survey [Others Direct] Democratic Public of the Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				T =
8 2003.5 2005 Demographic and Health Survey [DHS Direct] 9 2009.7 2011-2012 Demographic and Health Survey [DHS Direct] 2011.9 2014-2015 Multiple Indicator Cluster Survey [Others Direct] Democratic Republic of the Congo	Compo			2017 Celisus [Others Direct]
9 2009.7 2011-2012 Demographic and Health Survey [DHS Direct] 2014-2015 Multiple Indicator Cluster Survey [Others Direct] Democratic Republic of the Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 Costa Rica 96 2020.5 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	Congo			2005 Demographic and Health Survey [DHS Direct]
Democratic Republic of the Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				,
Democratic Republic of the Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				T 2
public of the Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	Dama anatis D			2014-2013 Multiple Indicator Cluster Survey [Others Direct]
Congo 9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]		30	2015	
9 2005.5 2007 Demographic and Health Survey [DHS Direct] 15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	_			
15 2012.6 2013-2014 Demographic and Health Survey [DHS Direct] 6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	Congo	0	2005.5	2007 Democratic and Health Commercial DHC D'
6 2015 2018 Multiple Indicator Cluster Survey [Others Direct] Cook Islands 12 2008				T =
Cook Islands 12 2008 12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]				
12 2008 WHO Vital Registration (recalculated - unadjusted) [VR] Costa Rica 96 2020.5 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	0 1 1 1			2018 Multiple Indicator Cluster Survey [Others Direct]
Costa Rica 96 2020.5 96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	Cook Islands			
96 2020.5 Recalculated based on WHO - adjusted for incompleteness [VR]	G F			WHO Vital Registration (recalculated - unadjusted) [VR]
J I L J	Costa Rica			D 1 1 1 1 1 WWY 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Cote d'Ivoire 71 2014.8				Recalculated based on WHO - adjusted for incompleteness [VR]
	Cote d'Ivoire			
3 1977.5 1978-1979 Demographic Survey Repeated Passages [Others Direct]				
17 1979.6 1981 World Fertility Survey [Other DHS Direct]				• •
18 1993.4 1994 Demographic and Health Survey [DHS Direct]		18	1993.4	

Table 26 – continued from previous page

Table 26 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
	ons.	obs. year		
	6	1995.7	1998-1999 Demographic and Health Survey [DHS Direct]	
	3	1999.6	2005 National Demographic and Health Survey [Other DHS Direct]	
	12	2010.4	2011-2012 Demographic and Health Survey [DHS Direct]	
	12	2014.8	2016 Multiple Indicator Cluster Survey [Others Direct]	
Croatia	117	2021.5	1 72 3	
	3	2010.8	2011 Census [Others Direct]	
	114	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Cuba	96	2020.5		
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Cyprus	82	2019.5	week was a sugar and a sum of the	
Jr-	46	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	36	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Czech Republic	156	2021.5	analysis (1990)	
ozoon republic	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
	130	2021.3	unadjusted) [VR]	
Denmark	156	2021.5		
Demmark	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
	130	2021.3	unadjusted) [VR]	
Djibouti	6	2006.5		
Djibouti	3	1996.8	2002 Pan Arab Project for Family Health Family Health Survey [Oth-	
	3	1990.6	ers Direct]	
	3	2006.5	2012 Pan Arab Project for Family Health Family Health Survey [Oth-	
	3	2000.3	ers Direct]	
Dominica	32	2015.5	ers Directj	
Dominica	11	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	21	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Dominican Repub-	39	2013.8	WHO Vital Registration (recalculated - unaujusted) [VR]	
lic	39	2013.6		
пс	3	1969	1975 World Fertility Survey [Other DHS Direct]	
	3	1909	1980 World Fertility Survey [Other DHS Direct]	
	6	1972.3	1986 Demographic and Health Survey [DHS Direct]	
	3	1985.7	1990 Demographic and Health Survey [DHS Direct] 1991 Demographic and Health Survey [DHS Direct]	
	3	1983.3	1991 Demographic and Health Survey [DHS Direct] 1996 Demographic and Health Survey [DHS Direct]	
	6	1990.7	2002 Demographic and Health Survey [DHS Direct]	
	6	2004.2	2002 Demographic and Health Survey [DHS Direct] 2007 Demographic and Health Survey [DHS Direct]	
	3	2004.2	2007 Demographic and Health Survey [DHS Direct] 2013 Demographic and Health Survey [DHS Direct]	
	3	2007.5	2013 Demographic and Health Survey [DHS Direct] 2014 Multiple Indicator Cluster Survey [Others Direct]	
	3	2008.5		
Founder			2019 Multiple Indicator Cluster Survey [Others Direct]	
Ecuador	117	2020.5	1087 Damagraphia and Haalth Survey [DHS Direct]	
	3	1981	1987 Demographic and Health Survey [DHS Direct]	
	6	1991.4	1994 Demographic and Maternal and Child Health Survey [Others	
		1007.3	Direct]	
	9	1997.2	1999 Demographic and Maternal and Child Health Survey [Others	
			Direct]	

Table 26 – continued from previous page

Table 26 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1998.6	2004 Demographic and Maternal and Child Health Survey [Others
			Direct]
	3	2006.6	2012 Encuesta Nacional de Salud y Nutricion: Salud Sexual y Repro-
			ductiva [Others Direct]
	3	2012.9	2018 Encuesta Nacional de Salud y Nutricion [Others Direct]
	90	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Egypt	201	2019.5	, , , , , , , , , , , , , , , , , , , ,
	18	1979.1	1980 World Fertility Survey [Other DHS Direct]
	12	1987.2	1988 Demographic and Health Survey [DHS Direct]
	12	1989.5	1991 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	12	1991.3	1992 Demographic and Health Survey [DHS Direct]
	12	1994.3	1995 Demographic and Health Survey [DHS Direct]
	12	1998.6	2000 Demographic and Health Survey [DHS Direct]
	6	2000.3	2003 Interim Demographic and Health Survey [DHS Direct]
	12	2003.7	2005 Demographic and Health Survey [DHS Direct]
	6	2005.7	2008 Demographic and Health Survey [DHS Direct]
	6	2003.2	2014 Demographic and Health Survey [DHS Direct]
	42	2011.2	Recalculated based on WHO - adjusted for incompleteness [VR]
	51	2019.5	
El Calandan			WHO Vital Registration (recalculated - unadjusted) [VR]
El Salvador	101	2019.5	1002 Carrage [Others Dispat]
	3	1992.2	1992 Census [Others Direct]
	3	1992.3	1998 National Family Health Survey [Others Direct]
	3	1996.9	2002 National Family Health Survey [Others Direct]
	3	2006.9	2007 Census [Others Direct]
	3	2002.3	2008 National Family Health Survey [Others Direct]
	3	2008.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	81	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Equatorial Guinea			
Eritrea	39	2009.1	
	9	1993.7	1995-1996 Demographic and Health Survey [DHS Direct]
	12	2000.7	2002 Demographic and Health Survey [DHS Direct]
	18	2009.1	2010 Population and Health Survey [Other DHS Direct]
Estonia	156	2020.5	
	3	2011.6	2011-2012 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Ethiopia	72	2016.2	
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]
	18	2004.2	2005 Demographic and Health Survey [DHS Direct]
	18	2009.9	2011 Demographic and Health Survey [DHS Direct]
	12	2014.5	2016 Demographic and Health Survey [DHS Direct]
	6	2016.2	2019 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia			
Fiji	63	2019.5	
-0-		_ 3 . 7 . 0	Continued on next page

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Table 26 – continued from previous page			
Country	# obs.	Most recent	Data series name [source type]
	0.05	obs. year	
	6	1971.1	1974 World Fertility Survey [Other DHS Direct]
	57	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Finland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
France	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Gabon	12	2006	
	9	1998.5	2000 Demographic and Health Survey [DHS Direct]
	3	2006	2012 Demographic and Health Survey [DHS Direct]
The Gambia	24	2017.8	
	3	2012.8	2013 Census [Others Direct]
	12	2016.6	2018 Multiple Indicator Cluster Survey [Others Direct]
	9	2017.8	2019-2020 Demographic and Health Survey [DHS Direct]
Georgia	98	2021.5	
211-8-11	3	1993.9	1999 Reproductive Health Survey [Others Direct]
	3	1999.2	2005 Reproductive Health Survey [Others Direct]
	2	2004.8	2010 Reproductive Health Survey [Others Direct]
	33	2001.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	57	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Germany	153	2021.5	was a same and grown as a same
Commany	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
	100	202110	unadjusted) [VR]
Ghana	94	2016.3	
	11	1986.6	1988 Demographic and Health Survey [DHS Direct]
	12	1992.2	1993-1994 Demographic and Health Survey [DHS Direct]
	9	1996.8	1998-1999 Demographic and Health Survey [DHS Direct]
	6	2000.5	2003 Demographic and Health Survey [DHS Direct]
	6	2005.7	2008 Demographic and Health Survey [DHS Direct]
	3	2010.3	2010 Census [Others Direct]
	9	2009.8	2011 Multiple Indicator Cluster Survey [Others Direct]
	8	2012.7	2014 Demographic and Health Survey [DHS Direct]
	18	2013.7	2017 Demographic and Health Survey [DHS Direct]
	12	2016.3	2017-2018 Multiple Indicator Cluster Survey [Others Direct]
Greece	153	2020.5	the state of the s
2.000	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Grenada	61	2018	
	25	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Constants 1	36	2018	WHO Vital Registration (recalculated - unadjusted) [VR]
Guatemala	123	2020.5	1007 Democratic and Health Commer IDHC D'
	6	1984.7	1987 Demographic and Health Survey [DHS Direct]
	12	1993.9	1995 Demographic and Health Survey [DHS Direct]
	3	1992.8	1998-1999 Interim Demographic and Health Survey [DHS Direct] Continued on next page

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Table 26 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1996.3	2002 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Others
			Direct]
	3	2002.8	2008 Encuesta Nacional de Salud Materno Infantil (ENSMI) [Others
			Direct]
	3	2011.7	2014-2015 Demographic and Health Survey [DHS Direct]
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Guinea	81	2017.1	
	3	1954.5	1954-1955 Survey [Others Direct]
	3	1996.4	1996 Census [Others Direct]
	18	1998.3	1999 Demographic and Health Survey [DHS Direct]
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]
	18	2011.4	2012 Demographic and Health Survey [DHS Direct]
	3	2013.8	2014 Census [Others Direct]
	18	2017.1	2018 Demographic and Health Survey [DHS Direct]
Guinea-Bissau	37	2016.1	
	10	2008.8	2010 Multiple Indicator Cluster Survey [Others Direct]
	18	2013.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	9	2016.1	2018-2019 Multiple Indicator Cluster Survey [Others Direct]
Guyana	99	2014.5	2010 2017 Manapis Maraner Classes Survey [Camera Survey]
Guyuna	6	1972.4	1975 World Fertility Survey [Other DHS Direct]
	3	1999.4	2005 AIDS Indicator Survey [Other DHS Direct]
	3	2003.2	2009 Demographic and Health Survey [DHS Direct]
	3	2012.2	2012 Census [Others Direct]
	3	2008.3	2012 Census [Cutters Direct] 2014 Multiple Indicator Cluster Survey [Others Direct]
	3	2013.5	2019-2020 Multiple Indicator Cluster Survey [Others Direct]
	78	2013.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Haiti	44	2014.8	WHO That Registration (recalculated - unadjusted) [VR]
114111	8	1975.5	1977 World Fertility Survey [Other DHS Direct]
	9	1992.5	1994-1995 Demographic and Health Survey [DHS Direct]
	6	1992.3	2000 Demographic and Health Survey [DHS Direct]
	9	2001.2	2005-2006 Demographic and Health Survey [DHS Direct]
	6	2001.2	2003-2006 Demographic and Health Survey [DHS Direct] 2012 Demographic and Health Survey [DHS Direct]
	6	2007.3	
Uanduras			2016-2017 Demographic and Health Survey [DHS Direct]
Honduras	38	2016.5	1070 1072 National Dama anarthia Surviva [Othern Direct]
	3	1971.3	1970-1972 National Demographic Survey [Others Direct]
	3	1982.5	1983 National Demographic Survey [Others Direct]
	3	1990.1	1996 Reproductive Health Survey [Others Direct]
	3	2001.1	2001 Census [Others Direct]
	3	1992.2	2001 Reproductive Health Survey [Others Direct]
	8	2003.7	2005-2006 Demographic and Health Survey [DHS Direct]
	6	2008.7	2011-2012 Demographic and Health Survey [DHS Direct]
	3	2013.1	2013 Census [Others Direct]
**	6	2016.5	2019 Multiple Indicator Cluster Survey [Others Direct]
Hungary	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR] Continued on next page

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Table 26 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
	uns.	obs. year		
Iceland	91	2018.5		
	91	2018.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
India	177	2020.5	J / L J	
	3	1970.5	1971 Census [Others Direct]	
	3	1980.5	1981 Census [Others Direct]	
	18	1991.2	1992-1993 Demographic and Health Survey [DHS Direct]	
	3	1991.9	1992-1993 National Family Health Survey [DHS Direct]	
	18	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]	
	3	1998.2	1998-1999 National Family Health Survey [DHS Direct]	
	18	2004.8	2005-2006 Demographic and Health Survey [DHS Direct]	
	111	2020.5	Sample Registration System [VR]	
Indonesia	147	2016.6	Sample Registration System [+ R]	
muonesia	3	1964.5	1964-1965 National Socio-economic Survey [Others Direct]	
	18	1975.2	1976 World Fertility Survey [Other DHS Direct]	
	18	1975.2	1976 World Feltinty Survey [Other DHS Direct] 1987 Demographic and Health Survey [DHS Direct]	
	18	1980.7		
			1991 Demographic and Health Survey [DHS Direct]	
	18	1993.5	1994 Demographic and Health Survey [DHS Direct]	
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]	
	12	2001.2	2002-2003 Demographic and Health Survey [DHS Direct]	
	12	2005.9	2007 Demographic and Health Survey [DHS Direct]	
	3	2009.9	2010 Census [Others Direct]	
	9	2010.8	2012 Demographic and Health Survey [DHS Direct]	
	18	2016.6	2017 Demographic and Health Survey [DHS Direct]	
Iran (Islamic Re-	42	2017.5		
public of)				
	3	1975	1973-1976 Population Growth Survey [Others Direct]	
	3	1985.5	1986 Census [Others Direct]	
	3	1999.5	2000 Demographic and Health Survey [Other DHS Direct]	
	33	2017.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Iraq	24	2012.2		
	9	2004.2	2006 Multiple Indicator Cluster Survey [Others Direct]	
	9	2009.2	2011 Multiple Indicator Cluster Survey [Others Direct]	
	3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]	
	3	1974	Demographic Sample Survey and Sample Registration System [VR]	
Ireland	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Israel	141	2021.5		
	141	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Italy	153	2020.5		
2001)	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -	
	133	2020.5	unadjusted) [VR]	
Jamaica	3	2010.2	unuajustou) [† IX]	
Jamaica	3	2010.2	Continued on next page	

Table 26 – continued from previous page

Unadjusted) [VR]	Table 26 – continued from previous page			
Data series name Source type Source Sour		#	Most	
	Country		recent	Data series name [source type]
Japan		ons.	obs. year	
Jordan		3	2010.2	2011 Census [Others Direct]
Jordan	Japan	150	2021.5	
Jordan		150	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
1984.7 1990 Demographic and Health Survey [DHS Direct] 1997 Demographic and Health Survey [DHS Direct] 2002 Demographic and Health Survey [DHS Direct] 2002 Demographic and Health Survey [DHS Direct] 2012 Demographic and Health Survey [DHS Direct] 2012 Demographic and Health Survey [DHS Direct] 2017 Demographic and Health Survey [DHS Direct] 2017 Demographic and Health Survey [DHS Direct] 2017 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 1999 Demographic and Health Survey [DHS Direct] 1999 Demographic and Health Survey [DHS Direct] 1999 Demographic and Health Survey [DHS Direct] 1998 Demographic and Health Survey [DHS Direct] 2001.7 2003 Demographic and Health Survey [DHS Direct] 2014 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2019 Demographic and Healt				unadjusted) [VR]
1991.4 1997 Demographic and Health Survey [DHS Direct] 2002 Demographic and Health Survey [DHS Direct] 2007 Demographic and Health Survey [DHS Direct] 2007 Demographic and Health Survey [DHS Direct] 2017 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2019 Demographic and Health Survey	Jordan	20	2011.7	
1991.4 1997 Demographic and Health Survey [DHS Direct] 3 1996.5 2002 Demographic and Health Survey [DHS Direct] 3 2001.4 2007 Demographic and Health Survey [DHS Direct] 3 2006.7 2012 Demographic and Health Survey [DHS Direct] 3 2011.7 2017 Demographic and Health Survey [DHS Direct] 3 1989.3 1998.5 1999 Demographic and Health Survey [DHS Direct] 3 1993.5 1999 Demographic and Health Survey [DHS Direct] 3 1993.5 1999 Demographic and Health Survey [DHS Direct] 1999 Demographic and Health Survey [DHS Direct] 1999 Demographic and Health Survey [DHS Direct] 1998 Demographic and Health Survey [DHS Direct] 2001.7 2003 Demographic and Health Survey [DHS Direct] 18 2013.3 2014 Demographic and Health Survey [DHS Direct] 2014 Demographic and Health Survey [DHS Direct] 2018 Demographic and Health Survey [DHS Direct] 2019 Multiple Indicator Cluster Survey [Others Direct] 2008 Census [Others Direct] 2008 Census [Others Direct] 2008 Census [Others Direct] 2018 Demographic and Health Survey [DHS Direct] 2019 Multiple Indicator Cluster Survey [Others Direct] 2019 Demographic And Health Survey [Others Direct] 2019 Demogra		3	1984.7	1990 Demographic and Health Survey [DHS Direct]
3		3	1991.4	• •
Sepublic of Korea 3 2001.4 2007 Demographic and Health Survey [DHS Direct] 2012 Demographic and Health Survey [DHS Direct] 2012 Demographic and Health Survey [DHS Direct] 2013 2011.5 2012.5		3	1996.5	• •
Sazakhstan		3		
Sazakhstan				T = T
Razakhstan				• •
3	Kazakhstan			The state of the s
3				1995 Demographic and Health Survey [DHS Direct]
Senya				• • • • • • • • • • • • • • • • • • • •
Renya				• • • • • • • • • • • • • • • • • • • •
11	Kenya			wife vital registration (recared analysises) [vit]
6	Renyu			1978 World Fertility Survey [Other DHS Direct]
9		Į.		
11				
12 2001.7 2003 Demographic and Health Survey [DHS Direct] 6		-		• •
Comparison of Korea Comparison of Korea				• • • • • • • • • • • • • • • • • • • •
18				
Similar Simi				
Democratic Peo- ple's Republic of Korea	Vinibati			2014 Demographic and Health Survey [DHS Direct]
Democratic People's Republic of Korea 3 1993.5 1993 Census [Others Direct] 2008.3 2008.3 2008 Census [Others Direct] 2008 Census [Other DHS Direct] 2008 Census [Others Direct]	Kiiibau			2010 Multiple Indicator Cluster Survey [Others Direct]
Republic of Korea	Damagratia Pag			2019 Multiple findicator Cluster Survey [Others Direct]
Solution Solution		0	2006.3	
3	-			
Republic of Korea 105 2021.5 6 1971.7 1974 World Fertility Survey [Other DHS Direct] 99 2021.5 WHO/Human Mortality Database Vital Registration (recalculate unadjusted) [VR] Kosovo 4 2014 2 2007.9 2013-2014 Multiple Indicator Cluster Survey [Others Direct] Kuwait 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]	Kolea	2	1002.5	1002 Canque [Others Direct]
Republic of Korea 105 2021.5 6 1971.7 1974 World Fertility Survey [Other DHS Direct] 99 2021.5 WHO/Human Mortality Database Vital Registration (recalculate unadjusted) [VR] Kosovo 4 2014 2014-2 2007.9 2013-2014 Multiple Indicator Cluster Survey [Others Direct] Kuwait 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 1997 Demographic and Health Survey [DHS Direct]				
6 1971.7 1974 World Fertility Survey [Other DHS Direct] 99 2021.5 WHO/Human Mortality Database Vital Registration (recalculate unadjusted) [VR] Kosovo 4 2014 2 2007.9 2013-2014 Multiple Indicator Cluster Survey [Others Direct] Kuwait 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]	D 1.1' C IV			2008 Census [Others Direct]
WHO/Human Mortality Database Vital Registration (recalculate unadjusted) [VR] Kosovo 4 2014 2 2007.9 2013-2014 Multiple Indicator Cluster Survey [Others Direct] Kuwait 87 2019.5 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]	Republic of Korea			1074 W. 11 F. d'I'de Commo [Odless DHC D'end]
Kosovo 4 2014 2 2007.9 2013-2014 Multiple Indicator Cluster Survey [Others Direct] Kuwait 87 2019.5 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]				
Kosovo4201422007.92013-2014 Multiple Indicator Cluster Survey [Others Direct]Kuwait872019.5872019.5WHO Vital Registration (recalculated - unadjusted) [VR]Kyrgyzstan1102021.531991.61997 Demographic and Health Survey [DHS Direct]		99	2021.5	•
Z2007.92013-2014 Multiple Indicator Cluster Survey [Others Direct]Kuwait872019.5872019.5WHO Vital Registration (recalculated - unadjusted) [VR]Kyrgyzstan1102021.531991.61997 Demographic and Health Survey [DHS Direct]	W	4	2014	unaujusted) [VK]
Kuwait 87 2019.5 WHO Vital Registration (recalculated - unadjusted) [VR] Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]	KOSOVO			2012 2014 M 1/2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
872019.5WHO Vital Registration (recalculated - unadjusted) [VR]Kyrgyzstan1102021.531991.61997 Demographic and Health Survey [DHS Direct]	77			2013-2014 Multiple Indicator Cluster Survey [Others Direct]
Kyrgyzstan 110 2021.5 3 1991.6 1997 Demographic and Health Survey [DHS Direct]	Kuwait			
3 1991.6 1997 Demographic and Health Survey [DHS Direct]				WHO Vital Registration (recalculated - unadjusted) [VR]
	Kyrgyzstan			
				T = T
3 2008.3 2014 Multiple Indicator Cluster Survey [Others Direct]				· · · · · · · · · · · · · · · · · · ·
3 2012.8 2018 Multiple Indicator Cluster Survey [Others Direct]				· · · · · · · · · · · · · · · · · · ·
99 2021.5 WHO Vital Registration (recalculated - unadjusted) [VR]				WHO Vital Registration (recalculated - unadjusted) [VR]
Lao People's 51 2016.1	•	51	2016.1	
Democratic Re-				
public	public			Continued on next page

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	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
	3	2004.8	2005 Census [Others Direct]
	18	2004.8	2005 Reproductive Health Survey [Others Direct]
	18	2010.8	2012 Lao Social Indicator Survey (combined Multiple Indicator Clus-
	10	2010.0	ter Survey4/Demographic and Health Survey) [DHS Direct]
	12	2016.1	2017 Multiple Indicator Cluster Survey [Others Direct]
Lotvio	153	2010.1	2017 Whitiple Hidicator Cluster Survey [Others Direct]
Latvia			WIIO/II.man Mantality Database Vital Desistantian (massleylated
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
* 1	2	1000	unadjusted) [VR]
Lebanon	3	1990	
	3	1990	1996 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
Lesotho	27	2015.5	
	3	1971.9	1971-1973 Demographic Survey [Others Direct]
	6	1974.6	1977 World Fertility Survey [Other DHS Direct]
	3	2000.9	2001 Demographic Survey [Others Direct]
	3	1998.7	2004 Demographic and Health Survey [DHS Direct]
	3	2003.7	2009 Demographic and Health Survey [DHS Direct]
	3	2008.7	2014 Demographic and Health Survey [DHS Direct]
	3	2015.5	2016 Census [Others Direct]
	3	2012.3	2018 Multiple Indicator Cluster Survey [Others Direct]
Liberia	51	2017.7	1 71
	3	1969.5	1969-1970 Population Growth Survey [Others Direct]
	6	1983.1	1986 Demographic and Health Survey [DHS Direct]
	9	2004.9	2006-2007 Demographic and Health Survey [DHS Direct]
	12	2007.4	2008-2009 Malaria Indicator Survey [Other DHS Direct]
	12	2011.7	2013 Demographic and Health Survey [DHS Direct]
	9	2017.7	2019-2020 Demographic and Health Survey [DHS Direct]
Libya	12	2004.4	2017-2020 Demographic and Hearth Survey [DHS Direct]
Libya	6	1992	1005 Dan Arah Praisest for Child Davelonment Meternal and Child
	0	1992	1995 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct]
		2004.4	
	6	2004.4	2007 Pan Arab Project for Family Health Family Health Survey [Oth-
T '.1	1.00	2021 7	ers Direct]
Lithuania	162	2021.5	2011 C FOIL D' 3
	3	2010.8	2011 Census [Others Direct]
	3	2017.5	2018 Statistical Survey [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Luxembourg	90	2020.5	
	90	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Macedonia	93	2020.5	
	93	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Madagascar	87	2020.2	_
_	3	1966.1	1966 Demographic Survey [Others Direct]
	3	1993.1	1993 Census [Others Direct]
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]
	1 -0		Continued on next page

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Table 26 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	9	2001.8	2003-2004 Demographic and Health Survey [DHS Direct]
	18	2007.8	2008-2009 Demographic and Health Survey [DHS Direct]
	18	2017.7	2018 Multiple Indicator Cluster Survey [Others Direct]
	18	2020.2	2021 Demographic and Health Survey [DHS Direct]
Malawi	152	2019	
	3	1977.2	1977 Census [Others Direct]
	3	1983.9	1984 Family Formation Survey [Others Direct]
	3	1987.2	1987 Census [Others Direct]
	12	1991.2	1992 Demographic and Health Survey [DHS Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	18	2003.7	2004 Demographic and Health Survey [DHS Direct]
	18	2005.6	2006 MDG Endline Survey [Others Direct]
	18	2009.4	2010 Demographic and Health Survey [DHS Direct]
	18	2012.9	2013-2014 MDG Endline Survey [Others Direct]
	18	2014.7	2015-2016 Demographic and Health Survey [DHS Direct]
	3	2018.2	2018 Census [Others Direct]
	18	2019	2019-2020 MDG Endline Survey [Others Direct]
Malaysia	99	2021.5	2017-2020 MDG Endrine Survey [Others Direct]
waiay sia	9	1972.6	1974 World Fertility Survey [Other DHS Direct]
	90	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Maldiyaa		2021.5	who vital Registration (recalculated - ulladjusted) [v K]
Maldives	93		2000 Damagnaphia and Health Compay [DHC Digget]
	3	2003	2009 Demographic and Health Survey [DHS Direct]
	3	2010.2	2016-2017 Demographic and Health Survey [DHS Direct]
	18	1994.5	Recalculated based on WHO - adjusted for incompleteness [VR]
3.6.1	69	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mali	107	2017.6	10777 0 104 104
	3	1976.4	1976 Census [Others Direct]
	12	1985.7	1987 Demographic and Health Survey [DHS Direct]
	18	1994.8	1995-1996 Demographic and Health Survey [DHS Direct]
	3	1997.8	1998 Census [Others Direct]
	18	2000	2001 Demographic and Health Survey [DHS Direct]
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]
	18	2014.6	2015 Multiple Indicator Cluster Survey [Others Direct]
)	17	2017.6	2018 Demographic and Health Survey [DHS Direct]
Malta	51	2021.5	
	51	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Marshall Islands			
Mauritania	63	2017.9	
	3	1977	1976-1977 Census [Others Direct]
	12	1979.8	1981 World Fertility Survey [Other DHS Direct]
	3	1987.8	1988 Census [Others Direct]
	12	1988.5	1990 Pan Arab Project for Child Development Maternal and Child
			Health Survey [Others Direct]
	6	1997.6	2000-2001 Demographic and Health Survey [DHS Direct]
	9	2009.5	2011 Multiple Indicator Cluster Survey [Others Direct]
	9	2013.6	2015 Multiple Indicator Cluster Survey [Others Direct]
	•		Continued on next page

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	0.05	obs. year		
	9	2017.9	2021 Demographic and Health Survey [DHS Direct]	
Mauritius	96	2020.5		
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Mexico	132	2020.5		
	3	1981.1	1987 Demographic and Health Survey [DHS Direct]	
	12	2007.6	2009 Encuesta Nacional de la Dinamica Demografica (ENADID)	
			[Others Direct]	
	9	2012.7	2014 Encuesta Nacional de la Dinamica Demografica (ENADID)	
			[Others Direct]	
	12	2017.2	2018 Encuesta Nacional de la Dinamica Demografica (ENADID)	
			[Others Direct]	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Republic of	99	2020.5	Willowing Country and State (Country and State (Cou	
Moldova		_0_0.0		
Wioldova	3	1999.4	2005 Demographic and Health Survey [DHS Direct]	
	3	2006.3	2012 Multiple Indicator Cluster Survey [Others Direct]	
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Monaco	75	2020.3	WITO Vital Registration (recalculated anadjusted) [VR]	
Mongolia	99	2019.5		
Wiongona	3	1992.8	1998 Reproductive Health Survey [Others Direct]	
	3	2009.5	2010 Census [Others Direct]	
	3	2007.8	2013-2014 Social Indicator Sample Survey (SISS) [Others Direct]	
	3	2007.8	2013-2014 Social Indicator Sample Survey (SISS) [Others Direct]	
	27	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	60	2019.5	,	
Mantanagua			WHO Vital Registration (recalculated - unadjusted) [VR]	
Montenegro	78	2021	Developed to the second to the first of the second terms of VD1	
	36	2002.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	42	2021	WHO Vital Registration (recalculated - unadjusted) [VR]	
Montserrat	3	2004.5		
	3	2004.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Morocco	57	2010	4000 *** 117 *** 7	
	9	1978.3	1980 World Fertility Survey [Other DHS Direct]	
	12	1985.8	1987 Demographic and Health Survey [DHS Direct]	
	6	1989	1992 Demographic and Health Survey [DHS Direct]	
	3	1989	1995 Demographic and Health Survey [DHS Direct]	
	6	1994	1997 Pan Arab Project for Child Development Maternal and Child	
			Health Survey [Others Direct]	
	9	2001.7	2003-2004 Demographic and Health Survey [DHS Direct]	
	9	2001	2004 Pan Arab Project for Family Health Family Health Survey [Oth-	
			ers Direct]	
	3	2010	2009-2010 National Demographic Survey with repeated passages	
			[Others Direct]	
Mozambique	48	2009.9		
	18	2002.6	2003-2004 Demographic and Health Survey [DHS Direct]	
	18	2007.7	2008 Multiple Indicator Cluster Survey [Others Direct]	
		,	Continued on next page	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	12	2009.9	2011 Demographic and Health Survey [DHS Direct]
Myanmar	9	2013.8	
	3	2013.8	2014 Census [Others Direct]
	6	2012.9	2015-2016 Demographic and Health Survey [DHS Direct]
Namibia	33	2015.5	
	9	1990.5	1992 Demographic and Health Survey [DHS Direct]
	3	1994.7	2000 Demographic and Health Survey [DHS Direct]
	3	2001	2001 Census [Others Direct]
	6	2003.8	2006-2007 Demographic and Health Survey [DHS Direct]
	3	2011.2	2011 Census [Others Direct]
	6	2010.3	2013 Demographic and Health Survey [DHS Direct]
	3	2015.5	2016 Inter-censal Demographic Survey [Others Direct]
Nauru	3	2013.3	2010 Intel censul Demographic ourvey [Outers Direct]
Nepal	91	2013.4	
Пераг	18	1990.6	1991 Fertility and Family Planning Survey [Others Direct]
	18	1990.0	1996 Demographic and Health Survey [DHS Direct]
	3	2001	
			2001 Census [Others Direct]
	17	2000	2001 Demographic and Health Survey [DHS Direct]
	11	2004.6	2006 Demographic and Health Survey [DHS Direct]
	3	2010.5	2011 Census [Others Direct]
	6	2008	2011 Demographic and Health Survey [DHS Direct]
	6	2011.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	6	2013.4	2016 Demographic and Health Survey [DHS Direct]
	3	2013.3	2019 Multiple Indicator Cluster Survey [Others Direct]
Netherlands	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
New Zealand	156	2021.5	
	3	2005.7	2006 Census [Others Direct]
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Nicaragua	24	2005.6	
	9	1995.9	1998 Demographic and Health Survey [DHS Direct]
	9	1999.7	2001 Demographic and Health Survey [DHS Direct]
	3	2000.8	2006 Encuesta NicaragÃense de Demografâ a y Salud [Others Direct]
	3	2005.6	2012 Encuesta Nicaraguense de Demografia y Salud [Others Direct]
Niger	93	2020.3	
_	18	1991.2	1992 Demographic and Health Survey [DHS Direct]
	18	1997.2	1998 Demographic and Health Survey [DHS Direct]
	3	2000.9	2001 Census [Others Direct]
	18	2005	2006 Demographic and Health Survey [DHS Direct]
	18	2011.1	2012 Demographic and Health Survey [DHS Direct]
	18	2020.3	2021 Enquete Nationale sur la Fecondite et la Mortalite des Enfants
			de moins de 5 ans (ENAFEME) [Others Direct]
Nigeria	100	2017.6	7.6 1.1 1.2 1.3
<u>.</u>	3	1965.6	1965-1966 Rural Demographic Sample Survey [Others Direct]
		1 50.0	Continued on next nage

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	#	Most	
Country		recent	Data series name [source type]
	obs.	obs. year	
	16	1989.2	1990 Demographic and Health Survey [DHS Direct]
	12	2001.7	2003 Demographic and Health Survey [DHS Direct]
	3	2008.1	2008 Demographic and Health Survey [DHS Direct]
	18	2007.4	2008 Demographic and Health Survey [DHS Direct]
	9	2008.7	2010 Malaria Indicator Survey [Other DHS Direct]
	3	2012.8	2013 Demographic and Health Survey [DHS Direct]
	18	2012.1	2013 Demographic and Health Survey [DHS Direct]
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]
Niue	3	1995	2010 Demographic and Teath Survey [D115 D11eet]
INIUC	3	1995	WHO Vital Registration (recalculated - unadjusted) [VR]
No			who vital Registration (lecalculated - unadjusted) [vK]
Norway	156	2021.5	WHO/Haman Mantality Database Vital Desistantian (masslesslets)
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Oman			
Pakistan	90	2014.8	
	3	1964	1962-1965 Population Growth Estimation Experiment [Others Direct]
	3	1970	1971 Population Growth Survey I [Others Direct]
	6	1987.9	1990-1991 Demographic and Health Survey [DHS Direct]
	9	2002.2	2006-2007 Demographic and Health Survey [DHS Direct]
	9	2010.7	2012-2013 Demographic and Health Survey [DHS Direct]
	6	2014.8	2017-2018 Demographic and Health Survey [DHS Direct]
	54	2007.5	Pakistan Demographic Survey [VR]
Palau	24	2004	
Tuluu	24	2004	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Panama	96	2021.5	(realestated analysises) [Tit]
1 anama	96	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Papua New Guinea	6	2013.7	receiled action of the adjusted for incompleteness [VK]
Tapua New Guillea	6	2013.7	2016-2018 Demographic and Health Survey [DHS Direct]
Domo силот:	23	2013.7	2010-2016 Demographic and Health Survey [DHS Direct]
Paraguay			1070 Would Famility Compay [Other DHC Direct]
	6	1976.1	1979 World Fertility Survey [Other DHS Direct]
	3	1984.3	1990 Demographic and Health Survey [DHS Direct]
	3	1989.8	1996 Encuesta Nacional de Demografia y Salud Sexual y Reproduc-
		2002.2	tiva [Others Direct]
	3	2002.2	2002 Census [Others Direct]
	3	2002.5	2008 Encuesta Nacional de Demografia y Salud Sexual y Reproduc-
	_		tiva [Others Direct]
	3	2010.5	2016 Multiple Indicator Cluster Survey [Others Direct]
Peru	111	2015.1	
	6	1983.7	1986 Demographic and Health Survey [DHS Direct]
	12	1990.2	1991-1992 Demographic and Health Survey [DHS Direct]
	18	1995.6	1996 Demographic and Health Survey [DHS Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	12	2005.5	2004-2008 Demographic and Health Survey [DHS Direct]
	9	2007.2	2009 Demographic and Health Survey [DHS Direct]
	6	2007.2	2010 Demographic and Health Survey [DHS Direct]
	6	2008.2	2011 Demographic and Health Survey [DHS Direct]
1	1		Continued on next nage

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	6	2009.2	2012 Demographic and Health Survey [DHS Direct]
	3	2007.2	2013 Demographic and Health Survey [DHS Direct]
	6	2012.2	2014 Demographic and Health Survey [DHS Direct]
	3	2011.2	2017 National Demographic and Health Survey [Other DHS Direct]
	3	2012.2	2018 National Demographic and Health Survey [Other DHS Direct]
	3	2015.1	2021 National Demographic and Health Survey [Other DHS Direct]
Philippines	159	2019.5	
	17	1977.1	1978 World Fertility Survey [Other DHS Direct]
	17	1992.2	1993 Demographic and Health Survey [DHS Direct]
	14	1997.1	1998 Demographic and Health Survey [DHS Direct]
	12	2001.9	2003 Demographic and Health Survey [DHS Direct]
	6	2005.6	2008 Demographic and Health Survey [DHS Direct]
	9	2011.6	2013 Demographic and Health Survey [DHS Direct]
	6	2014.6	2017 Demographic and Health Survey [DHS Direct]
	57	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness
			[VR]
	21	1999.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Poland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Portugal	159	2021.5	
C	3	2010.8	2011 Census [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Qatar	89	2020.5	
	89	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Romania	99	2021.5	
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Russian Federation	150	2020.5	
	150	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -
			unadjusted) [VR]
Rwanda	134	2018.3	, , <u>, , , , , , , , , , , , , , , , , </u>
	18	1982.6	1983 World Fertility Survey [Other DHS Direct]
	17	1991.4	1992 Demographic and Health Survey [DHS Direct]
	15	1999.4	2000 Demographic and Health Survey [DHS Direct]
	15	2004.1	2005 Demographic and Health Survey [DHS Direct]
	18	2006.9	2008 Demographic and Health Survey [DHS Direct]
	18	2009.7	2010 Demographic and Health Survey [DHS Direct]
	3	2012.1	2012 Census [Others Direct]
	18	2013.8	2014-2015 Demographic and Health Survey [DHS Direct]
	12	2018.3	2019-2020 Demographic and Health Survey [DHS Direct]
Saint Kitts and	23	2015.5	
Nevis			
	23	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Saint Lucia	74	2018.5	
		2010.0	Continued on next page

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	#	Most		
Country	obs.	recent	Data series name [source type]	
		obs. year		
	74	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Samoa	15	2016.4		
	3	1999	1999 Demographic and Health Survey [Other DHS Direct]	
	3	2006.4	2006 Census [Others Direct]	
	3	2011.4	2011 Population and Housing Census [Others Direct]	
	2	2016.4	2016 Population and Housing Census [Others Direct]	
San Marino	3	1991		
	3	1991	WHO Vital Registration (recalculated - unadjusted) [VR]	
Sao Tome and	11	2013.6		
Principe				
	3	2002.7	2008-2009 Demographic and Health Survey [DHS Direct]	
	3	2011.9	2012 Census [Others Direct]	
	3	2013.6	2019 Multiple Indicator Cluster Survey [Others Direct]	
Saudi Arabia				
Senegal	218	2017.3		
	18	1977.4	1978 World Fertility Survey [Other DHS Direct]	
	18	1985.2	1986 Demographic and Health Survey [DHS Direct]	
	18	1991.8	1992-1993 Demographic and Health Survey [DHS Direct]	
	17	1996	1997 Demographic and Health Survey [DHS Direct]	
	18	1998.8	1999-2000 Demographic and Health Survey [DHS Direct]	
	3	2002.5	2002 Census [Others Direct]	
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]	
	18	2007.9	2008-2009 Malaria Indicator Survey [Other DHS Direct]	
	18	2009.7	2010-2011 Demographic and Health Survey [DHS Direct]	
	12	2011.2	2012-2013 Demographic and Health Survey [DHS Direct]	
	3	2013.4	2013 Census [Others Direct]	
	6	2011	2014 Demographic and Health Survey [DHS Direct]	
	6	2012	2015 Demographic and Health Survey [DHS Direct]	
	9	2014	2016 Demographic and Health Survey [DHS Direct]	
	18	2016.2	2017 Demographic and Health Survey [DHS Direct]	
	9	2016.4	2018 Demographic and Health Survey [DHS Direct]	
	9	2017.3	2019 Demographic and Health Survey [DHS Direct]	
Serbia	99	2021.5		
	60	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	39	2001.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Seychelles	53	2016.5	, J / L J	
	3	1959.8	1960 Census [Others Direct]	
	50	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Sierra Leone	66	2018.3	(
	12	2006.7	2008 Demographic and Health Survey [DHS Direct]	
	18	2012.4	2013 Demographic and Health Survey [DHS Direct]	
	18	2016.4	2017 Multiple Indicator Cluster Survey [Others Direct]	
	18	2018.3	2019 Demographic and Health Survey [DHS Direct]	
Singapore	96	2020.5		
2.11gapoio	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Slovakia	156	2021.5		
510 valeta	150	2021.3	Continued on next page	

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	ons.	obs. year		
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Slovenia	117	2021.5		
	117	2021.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Solomon Islands	6	2009.4	<i>y</i> / <i>L</i> /	
	3	2009.4	2009 Census [Others Direct]	
	3	2008	2015 Demographic and Health Survey [Other DHS Direct]	
Somalia	12	2005.2		
Sommer	12	2005.2	2006 Multiple Indicator Cluster Survey [Others Direct]	
South Africa	75	2020.5		
South Fiftee	6	1995	1998 Demographic and Health Survey [DHS Direct]	
	3	2011.3	2011 Census [Others Direct]	
	3	2010.4	2016 Demographic and Health Survey [DHS Direct]	
	63	2020.5	Rapid Mortality Surveillance [VR]	
South Sudan	6	2007.2	rapid Moranty burvemance [VIV]	
South Sudan	6	2007.2	2010 Multiple Indicator Cluster Survey [Others Direct]	
Spain	153	2020.5	2010 Multiple indicator Cluster Survey [Others Direct]	
Spain	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -	
	133	2020.3	unadjusted) [VR]	
Sri Lanka	93	2014.5	unaujusteu) [VK]	
SII Laiika	6	1984	1987 Demographic and Health Survey [DHS Direct]	
	6	1990.6	1997 Demographic and Health Survey [DHS Direct] 1993 Demographic and Health Survey [Other DHS Direct]	
	3	1990.0	2000 Demographic and Health Survey [Other DHS Direct]	
	6	2003.7	2007 Demographic and Health Survey [Other DHS Direct]	
	3	2003.7	2016 Demographic and Health Survey [Other DHS Direct]	
	69	2010.4	WHO Vital Registration (recalculated - unadjusted) [VR]	
Saint Vincent and	64	2014.3	who vital Registration (recalculated - unadjusted) [v K]	
	04	2017		
the Grenadines	6.1	2017	WIIO Vital Desistantian (messlenleted and directed) [VD]	
Ct.t. CD-1	64	2017	WHO Vital Registration (recalculated - unadjusted) [VR]	
State of Palestine	27	2013.9	1005 Demonstration Common [Othern Disease]	
	9	1993.9	1995 Demographic Survey [Others Direct]	
	6	2003	2006 Pan Arab Project for Family Health Family Health Survey [Oth-	
	_	2007.4	ers Direct] 2010 Multiple Indicator Chater Survey [Others Direct]	
	6	2007.4	2010 Multiple Indicator Cluster Survey [Others Direct]	
	3	2008.2	2014 Multiple Indicator Cluster Survey [Others Direct]	
C 1	3	2013.9	2019-2020 Multiple Indicator Cluster Survey [Others Direct]	
Sudan	63	2013.2	1070 W. 11 F. 27 to Com. 104 DUC D. 3	
	9	1976	1979 World Fertility Survey [Other DHS Direct]	
	18	1988.8	1989-1990 Demographic and Health Survey [DHS Direct]	
	18	1991	1993 Pan Arab Project for Child Development Maternal and Child	
		•00==	Health Survey [Others Direct]	
	6	2007.2	2010 Multiple Indicator Cluster Survey [Others Direct]	
	12	2013.2	2014 Multiple Indicator Cluster Survey [Others Direct]	
Suriname	96	2019.5		
	3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	93	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness
			[VR]
Eswatini	21	2013.1	
	3	1996.9	1997 Census [Others Direct]
	3	2000.5	2006-2007 Demographic and Health Survey [DHS Direct]
	6	2007.7	2010 Multiple Indicator Cluster Survey [Others Direct]
	9	2013.1	2014 Multiple Indicator Cluster Survey [Others Direct]
Sweden	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Switzerland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Syria	51	2010.5	
•	6	1975.5	1978 World Fertility Survey [Other DHS Direct]
	3	1987	1993 Pan Arab Project for Child Development Maternal and Child Health Survey [Others Direct]
	3	1995.8	2001 Pan Arab Project for Family Health Family Health Survey [Others Direct]
	39	2010.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tajikistan	75	2021.5	(100 vital registration (100 alouated analysis ed) [vit]
rajinistari	3	2006.5	2012 Demographic and Health Survey [DHS Direct]
	3	2011.6	2017 Demographic and Health Survey [DHS Direct]
	27	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness
		1,7,7,10	[VR]
	42	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tanzania	101	2014.1	
TWILE WITH	3	1973.3	1973 National Demographic Survey [Others Direct]
	18	1990.7	1991-1992 Demographic and Health Survey [DHS Direct]
	17	1995.5	1996 Demographic and Health Survey [DHS Direct]
	3	1993.7	1999 Demographic and Health Survey [DHS Direct]
	18	2003.7	2004-2005 Demographic and Health Survey [DHS Direct]
	12	2006.2	2007-2008 AIDS Indicator Survey [Other DHS Direct]
	12	2008.4	2010 Demographic and Health Survey [DHS Direct]
	3	2010.4	2010-2011 National Panel Survey [Others Direct]
	3	2012.2	2012-2013 National Panel Survey [Others Direct]
	12	2014.1	2015-2016 Demographic and Health Survey [DHS Direct]
Thailand	98	2019.5	C 1
	3	1981.2	1987 Demographic and Health Survey [DHS Direct]
	3	1989	1989 Survey of Population Change [Others Direct]
	3	1995.5	1995 Survey of Population Change [Others Direct]
	87	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Timor Leste	15	2008.4	
	12	2008.1	2009-2010 Demographic and Health Survey [DHS Direct]
	3	2008.4	2015 Census [Others Direct]
Togo	66	2016.3	
			Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1961.4	1961 Demographic survey [Others Direct]
	12	1986.9	1988 Demographic and Health Survey [DHS Direct]
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	3	2010.4	2010 Census [Others Direct]
	18	2012.8	2013-2014 Demographic and Health Survey [DHS Direct]
	12	2016.3	2017 Multiple Indicator Cluster Survey [Others Direct]
Tonga	75	2018.5	, , , , ,
	3	2006.4	2006 Census [Others Direct]
	41	2005.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	29	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Trinidad and To-	92	2017.5	<i>y</i> ,
bago			
	3	1971.2	1977 World Fertility Survey [Other DHS Direct]
	87	2017.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Tunisia	51	2017.5	
	3	1969	1968-1969 National Demographic Survey [Others Direct]
	6	1985.4	1988 Demographic and Health Survey [DHS Direct]
	3	1988	1994 Pan Arab Project for Child Development Maternal and Child
		1700	Health Survey [Others Direct]
	3	1995	2001 Pan Arab Project for Family Health Family Health Survey [Oth-
		1775	ers Direct]
	3	2006	2011-2012 Multiple Indicator Cluster Survey [Others Direct]
	3	2012.2	2018 Multiple Indicator Cluster Survey [Others Direct]
	21	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	9	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Turkey	59	2017.5	wite viai registration (recalculated anadjusted) [viv]
Turkey	8	1976.7	1978 World Fertility Survey [Other DHS Direct]
	3	1987.6	1993 Demographic and Health Survey [DHS Direct]
	3	1992.6	1998 Demographic and Health Survey [DHS Direct]
	3	1997.9	2003-2004 Demographic and Health Survey [Other DHS Direct]
	3	2002.7	2003-2004 Demographic and Treath Survey [Other Drist Direct] 2003 National Verbal Autopsy Survey [Others Direct]
	3	2002.7	2008 Turkey Demographic and Health Survey [Other DHS Direct]
	3	2002.7	2013 NDemographic and Health Survey [Other DHS Direct]
	3	2007.7	2018 Demographic and Health Survey [Other DHS Direct]
	30	2012.8	WHO Vital Registration (recalculated - unadjusted) [VR]
Turkmenistan	88	2019.5	77110 Vital Registration (recalculated - unaujusted) [VR]
Turkincinstan	3	1994.5	2000 Demographic and Health Survey [DHS Direct]
	81	2015.5	Recalculated based on WHO/UNPD - adjusted for incompleteness
	01	2013.3	
Turks and Caises	16	2012.9	[VR]
Turks and Caicos	16	2013.8	
Islands	1.4	2006 5	WHO Vital Designation (recoloulated predincted) [VD]
Tuvalu	14	2006.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tuvalu	11	2013.9	WHO Wital Designation (associated associated ACM)
TT 1	9	2002	WHO Vital Registration (recalculated - unadjusted) [VR]
Uganda	95	2015.4	1000 1000 D
	12	1987.2	1988-1989 Demographic and Health Survey [DHS Direct]

Table 26 – continued from previous page

Table 26 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	12	1993.7	1995 Demographic and Health Survey [DHS Direct]	
	12	1999.2	2000-2001 Demographic and Health Survey [DHS Direct]	
	3	2006	2006 Demographic and Health Survey [DHS Direct]	
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]	
	3	2003.8	2009-2010 Demographic and Health Survey [DHS Direct]	
	17	2010.4	2011 Demographic and Health Survey [DHS Direct]	
	18	2015.4	2016 Demographic and Health Survey [DHS Direct]	
Ukraine	160	2021.5	2010 Demographic and Health Survey [D110 Direct]	
Okrame	3	1993.5	1999 Reproductive Health Survey [Others Direct]	
	2	2001.5	2007 Demographic and Health Survey [DHS Direct]	
	2	2001.3	2012 Multiple Indicator Cluster Survey [Others Direct]	
	153	2000.8	WHO/Human Mortality Database Vital Registration (recalculated -	
	133	2021.3	•	
II. A. A. A. F.			unadjusted) [VR]	
United Arab Emi-				
rates				
United Kingdom	201	2020.5		
	201	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
United States of	153	2020.5		
America				
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated -	
			unadjusted) [VR]	
Uruguay	93	2020.5		
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Uzbekistan	102	2021.5		
	3	1996	2002 Demographic and Health Survey [Other DHS Direct]	
	99	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Vanuatu	3	2009.4		
	3	2009.4	2009 Census [Others Direct]	
Venezuela (Boli-	81	2016.5	,	
varian Republic				
of)				
	3	1971.2	1977 World Fertility Survey [Other DHS Direct]	
	45	2016.5	Recalculated based on WHO/UNPD - adjusted for incompleteness	
		2010.5	[VR]	
	33	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Vietnam	54	2020.3	1110 That Registration (recalculated - unaujusted) [VR]	
VICUIAIII	3	1978.8	1979 Census [Others Direct]	
	9	1986	1988 National Demographic and Health Survey [Other DHS Direct]	
	3	1991.5	1997 Demographic and Health Survey [DHS Direct]	
	3	1998.7	1999 Census [Others Direct]	
	3	1996.7	2002 Demographic and Health Survey [DHS Direct]	
	3	2006.8	2007 Population Change and Family Planning Survey [Others Direct]	
	3	2010.8	2011 Population Change and Family Planning Survey [Others Direct]	
	3	2011.8	2012 Population Change and Family Planning Survey [Others Direct]	
	3	2008	2013-2014 Multiple Indicator Cluster Survey [Others Direct]	
	3	2012.8	2013 Population Change and Family Planning Survey [Others Direct]	
,			Continued on next page	

Table 26 – continued from previous page

		Most	20 – Continued from previous page
Country	#	recent	Data series name [source type]
	obs.	obs. year	Z www series manie [source of pol
	3	2013.5	2014 Intercensal Demographic Survey [Others Direct]
	3	2014.8	2015 Population Change and Family Planning Survey [Others Direct]
	3	2016.5	2017 Population Change and Family Planning Survey [Others Direct]
	3	2017.5	2018 Population Change and Family Planning Survey [Others Direct]
	3	2020.3	2020 Population Change and Family Planning Survey [Others Direct]
	3	2014.9	2021 Multiple Indicator Cluster Survey [Others Direct]
Yemen	60	2007.7	
	6	1976.7	1979 World Fertility Survey [Other DHS Direct]
	9	1989.8	1991-1992 Demographic and Health Survey [DHS Direct]
	18	1996.7	1997 Demographic and Health Survey [DHS Direct]
	18	2002	2003 Pan Arab Project for Family Health Family Health Survey [Oth-
			ers Direct]
	3	2000.7	2006 Multiple Indicator Cluster Survey [Others Direct]
	6	2007.7	2013 Demographic and Health Survey [DHS Direct]
Zambia	95	2017	
	18	1991	1992 Demographic and Health Survey [DHS Direct]
	17	1995.5	1996-1997 Demographic and Health Survey [DHS Direct]
	18	2000.8	2001-2002 Demographic and Health Survey [DHS Direct]
	12	2005.7	2007 Demographic and Health Survey [DHS Direct]
	18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]
	12	2017	2018 Demographic and Health Survey [DHS Direct]
Zimbabwe	62	2016.5	
	6	1985.7	1988-1989 Demographic and Health Survey [DHS Direct]
	3	1992.1	1992 Census [Others Direct]
	6	1991.5	1994 Demographic and Health Survey [DHS Direct]
	3	1993.7	1999 Demographic and Health Survey [DHS Direct]
	6	2006.3	2009 Multiple Indicator Cluster Survey [Others Direct]
	8	2008.7	2010-2011 Demographic and Health Survey [DHS Direct]
	3	2012.1	2012 Census [Others Direct]
	12	2012.7	2014 Multiple Indicator Cluster Survey [Others Direct]
	6	2012.5	2015 Demographic and Health Survey [DHS Direct]
	3	2016.5	2017 Inter-Censal Demographic Survey [Others Direct]
	6	2016.1	2019 Multiple Indicator Cluster Survey [Others Direct]

Table 27: **Sex ratio data sources for age group 15–19, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	.,	Most	
Country	#	recent	Data series name [source type]
-	obs.	obs. year	
Afghanistan	39	2014.4	
	3	1973	1972 National Demographic and Family Guidance Survey [Others Di-
			rect]
	3	1979	1979 Census [Others Direct]
	3	2008.1	2010 Afghanistan Mortality Survey (AMS) Excluding South Zone
			(Household data) [Others Direct]
	12	2008.7	2010 Afghanistan Mortality Survey (AMS) [DHS Direct]
	18	2014.4	2015 Demographic and Health Survey [DHS Direct]
Albania	69	2021.5	
	3	2011.1	2011 Census [Others Direct]
	66	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Algeria	69	2020.5	
	3	1970.5	1970 Demographic Survey [Others Direct]
	66	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Andorra	10	2019.5	
	10	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Angola	21	2014.8	
	3	2013.9	2014 Census [Others Direct]
	18	2014.8	2016 Inquerito de Indicadores Multiplos e de Saude [DHS Direct]
Anguilla			
Antigua and Bar-	40	2017.5	
buda			
	40	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Argentina	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Armenia	95	2021.5	
	95	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Australia	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Austria	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	0.0	202: -	adjusted) [VR]
Azerbaijan	90	2021.5	
	90	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Bahamas	93	2020.5	
	93	2020.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
Bahrain	92	2019.5	WING AND
	92	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Bangladesh	123	2020.5	
	3	1964	1962-1965 Population Growth Estimation Experiment [Others Direct]

Table 27 – continued from previous page

Table 27 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1974.5	1974 Retrospective Fertility and Mortality Survey (UN SA) [Others Di-
			rect]
	3	1999.8	1999-2000 Demographic and Health Survey [Others Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	3	2010	2010 Maternal Health Services and Maternal Mortality Survey [Others
			Direct]
	3	2010.7	2011 Census [Others Direct]
	3	2016	2016 Maternal Health Services and Maternal Mortality Survey [Others
			Direct]
	3	2016.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2017.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2018.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2019.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2020.5	Report on Sample Vital Registration System 2016 [Others Direct]
	78	2015.5	Sample Vital Statistics [VR]
Barbados	75	2013.5	
	75	2013.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Belarus	150	2019.5	
	150	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Belgium	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Belize	81	2018.5	
	81	2018.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Benin	63	2016.8	
	18	1995.4	1996 Demographic and Health Survey [DHS Direct]
	18	2005.6	2006 Demographic and Health Survey [DHS Direct]
	9	2012.5	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2016.8	2018 Demographic and Health Survey [DHS Direct]
Bhutan	9	2012.5	
	3	1993.1	1994 National Health Survey [Others Direct]
	3	2004.9	2005 Census [Others Direct]
	3	2012.5	2012 National Health Survey [Others Direct]
Bolivia (Pluri-	60	2007.1	
national State			
of)			
	3	1979.8	1980 National Demographic Survey [Others Direct]
	3	1991.9	1992 Census [Others Direct]
	18	1992.8	1993-1994 Demographic and Health Survey [DHS Direct]
	18	2002.6	2003 Demographic and Health Survey [DHS Direct]
	18	2007.1	2008 Demographic and Health Survey [DHS Direct]
Bosnia and Herze-	63	2016.5	
govina			
	63	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Botswana	21	2016.5	

Table 27 – continued from previous page

Table 27 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	1981.1	1981 Census [Others Direct]
	3	1991.1	1991 Census [Others Direct]
	3	1997.9	1998 Demographic Survey [Others Direct]
	3	2001.1	2001 Census [Others Direct]
	3	2006.2	2006 Demographic Survey [Others Direct]
	3	2011.1	2011 Census [Others Direct]
	3	2016.5	2017 Demographic Survey [Others Direct]
Brazil	117	2020.5	
	18	1995.2	1996 Demographic and Health Survey [DHS Direct]
	3	2010.2	2010 Census [Others Direct]
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
British Virgin Is-	70	2020.5	with that registration (routestated analysis a) [+ 11]
lands			
Brunei	83	2019.5	
Diunci	83	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Bulgaria	156	2017.5	WHO That Registration (recalculated - unaujusted) [VR]
Duigaria	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	130	2021.3	adjusted) [VR]
Darding Food	0.1	2000.2	adjusted) [VK]
Burkina Faso	81	2009.3	10(0 10(1 Common [Others D'sout]
	3	1960.5	1960-1961 Survey [Others Direct]
	3	1985.5	1985 Census [Others Direct]
	3	1995.5	1996 Census [Others Direct]
	18	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]
	18	2002.4	2003 Demographic and Health Survey [DHS Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	3	2006.4	2006 Census [Others Direct]
	3	2007.3	2008 Global Fund Evaluation Survey [Others Direct]
	18	2009.3	2010 Demographic and Health Survey [DHS Direct]
Burundi	42	2015.8	
	3	1964.7	1965 Population Survey [Others Direct]
	3	2008.2	2008 Census [Others Direct]
	18	2009.6	2010 Demographic and Health Survey [DHS Direct]
	18	2015.8	2017 Demographic and Health Survey [DHS Direct]
Cambodia	72	2013.4	
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]
	18	2004.7	2005 Demographic and Health Survey [DHS Direct]
	18	2009.5	2010 Demographic and Health Survey [DHS Direct]
	18	2013.4	2014 Demographic and Health Survey [DHS Direct]
Cameroon	81	2017.4	
	3	1975.8	1976 Census [Others Direct]
	3	1986.8	1987 Census [Others Direct]
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	18	2003.1	2004 Demographic and Health Survey [DHS Direct]
	3	2005.4	2005 Census [Others Direct]
	18	2003.4	2011 Demographic and Health Survey [DHS Direct]
	10	2010	Continued on next page

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Table 27 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	18	2017.4	2018 Demographic and Health Survey [DHS Direct]
Canada	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Cape Verde	81	2018.5	
_	3	2000	2000 Census [Others Direct]
	3	2009.5	2010 Census [Others Direct]
	18	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	57	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Central African	27	2003.4	<i>y</i> ,
Republic			
	3	1959.5	1959-1960 Survey [Others Direct]
	3	1988.4	1988 Census [Others Direct]
	18	1993.7	1994-1995 Demographic and Health Survey [DHS Direct]
	3	2003.4	2003 Census [Others Direct]
Chad	57	2013.7	2005 Census [Cuners Breet]
Cilad	18	1995.9	1996-1997 Demographic and Health Survey [DHS Direct]
	18	2003.5	2004 Demographic and Health Survey [DHS Direct]
	3	2003.9	2009 Census [Others Direct]
	18	2008.9	2014-2015 Demographic and Health Survey [DHS Direct]
Chile	153	2013.7	2014-2013 Demographic and Health Survey [DHS Direct]
Cille			WHO/Human Martality Database Vital Degistration (recoloulated up
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
CI :	40	2010.5	adjusted) [VR]
China	48	2010.5	10(4.1000.4.1) 10
	3	1973.5	1964-1982 Adjusted Census Deaths (1964-1982) [Others Direct]
	3	1986.5	1982-1990 Adjusted Census Deaths (1982-1990) [Others Direct]
	3	1987	1987 China 1987 One-per-Hundred National Population Survey [Others
	_		Direct]
	3	1995.5	1990-2000 Adjusted Census Deaths (1990-2000) [Others Direct]
	3	1995.4	1995 China 1995 One-percent Sample Survey [Others Direct]
	3	2000.5	1999-2000 Adjusted Census Deaths (1999-2000) [Others Direct]
	3	2005.5	2000-2010 Adjusted Census Deaths (2000-2010) [Others Direct]
	3	2007.4	2007 China 2007 Annual Population Change Survey [Others Direct]
	3	2008.4	2008 China 2008 Annual Population Change Survey [Others Direct]
	21	2010.5	China CDC Surveillance surveys [VR]
Colombia	102	2020.5	
	18	2014.1	2015 Demographic and Health Survey [DHS Direct]
	84	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Comoros	12	2009.6	
	3	1958.2	1958 Census [Others Direct]
	3	2003.2	2003 Census [Others Direct]
	6	2009.6	2012 Demographic and Health Survey [DHS Direct]
Congo	45	2012.9	
_	18	2004.5	2005 Demographic and Health Survey [DHS Direct]
	18	2010.7	2011-2012 Demographic and Health Survey [DHS Direct]
	1		Continued on next nage

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Table 27 – continued from previous page				
	#	Most		
Country	obs.	recent	Data series name [source type]	
	ODS.	obs. year		
	9	2012.9	2015 Multiple Indicator Cluster Survey [Others Direct]	
Democratic Re-	33	2012.6		
public of the				
Congo				
_	15	2006	2007 Demographic and Health Survey [DHS Direct]	
	18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]	
Cook Islands	25	2008.5		
	25	2008.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Costa Rica	96	2020.5		
	96	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Cote d'Ivoire	60	2010.9	J I L J	
	3	1977.5	1978-1979 Demographic Survey Repeated Passages [Others Direct]	
	18	1993.4	1994 Demographic and Health Survey [DHS Direct]	
	3	1998.4	1998 Census [Others Direct]	
	6	2000.2	2003 World Health Survey [Others Direct]	
	12	2004.1	2005 AIDS Indicator Survey [DHS Direct]	
	18	2010.9	2011-2012 Demographic and Health Survey [DHS Direct]	
Croatia	117	2021.5	2011 2012 20110grapino uno 110anun 2011-05 (2112 21100)	
Crouna	3	2010.8	2011 Census [Others Direct]	
	114	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
	11.	2021.5	adjusted) [VR]	
Cuba	96	2020.5	adjusted) [VIV]	
Cubu	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Cyprus	92	2020.5	wite viair registration (recalculated anadjusted) [viv]	
Сургаз	56	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	36	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Czech Republic	156	2021.5	wife viair registration (recalculated analysiscs) [viii]	
CZCCII republic	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
	130	2021.5	adjusted) [VR]	
Denmark	156	2021.5	adjusted) [TR]	
Demmark	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
	130	2021.5	adjusted) [VR]	
Djibouti				
Dominica	37	2015		
	17	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	20	2015	WHO Vital Registration (recalculated - unadjusted) [VR]	
Dominican Repub-	48	2010.4		
lic		_510,1		
	18	2001.5	2002 Demographic and Health Survey [DHS Direct]	
	9	2001.3	2003 World Health Survey [Others Direct]	
	18	2006.2	2007 Demographic and Health Survey [DHS Direct]	
	3	2010.4	2010 Census [Others Direct]	
Ecuador	96	2020.5		
	3	1997.2	2003 World Health Survey [Others Direct]	
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Egypt	93	2019.5	. O	
67 F -				

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Country	# obs.	Most recent	Data series name [source type]
	005.	obs. year	
	42	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	51	2005.5	WHO Vital Registration (recalculated - unadjusted) [VR]
El Salvador	87	2019.5	
	3	1992.2	1992 Census [Others Direct]
	84	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Equatorial Guinea			
Eritrea			
Estonia	156	2020.5	
	3	2011.6	2011-2012 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Ethiopia	84	2015	
	3	1983.9	1984 Census [Others Direct]
	15	1997.1	2000 Demographic and Health Survey [DHS Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	18	2004.2	2005 Demographic and Health Survey [DHS Direct]
	3	2006.9	2007 Census [Others Direct]
	15	2009.9	2011 Demographic and Health Survey [DHS Direct]
	18	2015	2016 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia			
Fiji	42	2019.5	
J-	42	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Finland	156	2021.5	
1 muno	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	100	202110	adjusted) [VR]
France	153	2020.5	
Trairee	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2020.5	adjusted) [VR]
Gabon	24	2010.5	adjusted) [+ x]
Gubon	12	1999	2000 Demographic and Health Survey [DHS Direct]
	12	2010.5	2012 Demographic and Health Survey [DHS Direct]
The Gambia	33	2018.8	2012 Demographic and Heaten Survey [D115 Direct]
The Gambia	3	2013.8	2013 Census [Others Direct]
	12	2012.6	2013 Census [Others Direct] 2013 Demographic and Health Survey [DHS Direct]
	18	2011.0	2020 Demographic and Health Survey [DHS Direct]
Georgia	90	2018.8	2020 Demographic and ricatin survey [Dris Direct]
Georgia	33	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	57	2001.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Cormony	153	2021.5	wito vital registration (recalculated - unadjusted) [VR]
Germany	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2021.3	
Chana	20	2014.2	adjusted) [VR]
Ghana	30	2014.2	2002 Would Hoolth Common [Oth and Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	12	2005.5	2007 Maternal Health Survey [DHS Direct]
	3	2010.3	2010 Census [Others Direct]

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Table 27 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	2014.2	2017 Demographic and Health Survey [Others Direct]
Greece	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Grenada	76	2018.5	
	32	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	44	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Guatemala	117	2017.5	
	12	1993.9	1995 Demographic and Health Survey [DHS Direct]
	18	2013.7	2014-2015 Demographic and Health Survey [DHS Direct]
	87	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Guinea	60	2013.8	was was a grant and a sample of the same and a same grant
	3	1996.4	1996 Census [Others Direct]
	18	1998.3	1999 Demographic and Health Survey [DHS Direct]
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]
	18	2011.4	2012 Demographic and Health Survey [DHS Direct]
	3	2013.8	2014 Census [Others Direct]
Guinea-Bissau	12	2012.2	2011 Consus [Others Direct]
Guilled Dissau	3	2008.8	2009 Census [Others Direct]
	9	2012.2	2014 Multiple Indicator Cluster Survey [Others Direct]
Guyana	78	2014.5	2014 Multiple Indicator Cluster Survey [Others Direct]
Guyana	78	2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Haiti	48	2014.3	WHO With Registration (recalculated - unaufusted) [VR]
Haiti	12	1998.6	2000 Demographic and Health Survey [DHS Direct]
	18	2004.7	2005-2006 Demographic and Health Survey [DHS Direct]
	18	2015.8	2017 Demographic and Health Survey [DHS Direct]
Honduras	3	2001.1	2017 Demographic and Health Starvey [D115 Direct]
Honduras	3	2001.1	2001 Census [Others Direct]
Hungary	153	2020.5	2001 Census [Others Direct]
Trungary	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2020.3	adjusted) [VR]
Iceland	132	2021	adjusted) [VK]
recialiu	132	2021	WHO/Human Mortality Database Vital Registration (recalculated - un-
	134	2021	adjusted) [VR]
India	141	2019.5	aujusted/[TIX]
muia	3	1970.5	1971 Census [Others Direct]
	3	1970.5	1981 Census [Others Direct]
	3	1980.3	1991 Census [Others Direct] 1992-1993 National Family Health Survey [Others Direct]
	3	1991.9	1992-1993 National Family Health Survey [Others Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	117	2001.7	Sample Registration System [VR]
Indonesia	63	2019.3	Sample Registration System [VK]
muonesia	6	1964.5	1964-1965 National Socio-economic Survey [Others Direct]
	18	1904.5	·
			1994 Demographic and Health Survey [DHS Direct]
	12	2001.2	2002-2003 Demographic and Health Survey [DHS Direct]
	15	2006.4	2007 Demographic and Health Survey [DHS Direct]

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Table 27 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	3	2009.9	2010 Census [Others Direct]
	9	2010.3	2012 Demographic and Health Survey [DHS Direct]
Iran (Islamic Re-	42	2017.5	2012 Demographic and Health Suivey (2016 Direct)
· ·	42	2017.5	
public of)		1075.5	107/ C
	3	1975.5	1976 Census [Others Direct]
	3	1999.8	2000 Demographic and Health Survey [Others Direct]
	3	2004.5	Based on 2004 DH - adjusted for incompleteness [Others Direct]
	33	2017.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Iraq	3	2004.6	
	3	2004.6	2006 Iraq Family Health Survey [Others Direct]
Ireland	156	2020.5	
	3	2010.8	2011 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Israel	141	2021.5	adjusted) [TR]
151401	141	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	141	2021.3	
Y. 1	1.50	2020.5	adjusted) [VR]
Italy	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Jamaica	3	2010.2	
	3	2010.2	2011 Census [Others Direct]
Japan	153	2021.5	
-	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Jordan	9	2014.9	, , , , , , , , , , , , , , , , , , ,
	6	1995.4	1997 Population and Family Health Survey [DHS Direct]
	3	2014.9	2015 Census [Others Direct]
Kazakhstan	102	2021.5	
ixazakiistali	3	1997.2	2003 World Health Survey [Others Direct]
	99		·
V		2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Kenya	84	2013.3	1000 D 1' 1H 14 C FDHC D' 3
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	18	2002.2	2003 Demographic and Health Survey [DHS Direct]
	9	2001.2	2003 World Health Survey [Others Direct]
	18	2007.8	2008-2009 Demographic and Health Survey [DHS Direct]
	3	2009.2	2009 Census [Others Direct]
	18	2013.3	2014 Demographic and Health Survey [DHS Direct]
Kiribati			
Democratic Peo-	3	2008.3	
ple's Republic of			
Korea			
223100	3	2008.3	2008 Census [Others Direct]
Republic of Korea	99	2021.5	2000 Comon [Onion Direct]
Republic of Roled	22	2021.3	Continued on next neces

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	99	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Kosovo			
Kuwait	87	2019.5	
Kuwait	87	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
V			WHO Vital Registration (recalculated - unadjusted) [VK]
Kyrgyzstan	99	2021.5	WILLOW, ID. 14 41 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Lao People's	15	2014.8	
Democratic Re-			
public			
	9	2001.2	2003 World Health Survey [Others Direct]
	3	2004.8	2005 Census [Others Direct]
	3	2014.8	2015 Census [Others Direct]
Latvia	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Lebanon			<i>y</i> / <i>c s</i>
Lesotho	63	2015.5	
Lesouro	3	1995.8	1996 Census [Others Direct]
	3	2000.9	2001 Demographic Survey [Others Direct]
	18	2003.7	2004 Demographic and Health Survey [DHS Direct]
	18	2003.7	
			2009 Demographic and Health Survey [DHS Direct]
	18	2013.7	2014 Demographic and Health Survey [DHS Direct]
T '1 '	3	2015.5	2016 Census [Others Direct]
Liberia	45	2018.2	1000 1000 P. 1 d. C. d. C. fod P. d.
	3	1969.5	1969-1970 Population Growth Survey [Others Direct]
	15	2005.9	2006-2007 Demographic and Health Survey [DHS Direct]
	18	2012.2	2013 Demographic and Health Survey [DHS Direct]
	9	2018.2	2020 Demographic and Health Survey [DHS Direct]
Libya			
Lithuania	162	2021.5	
	3	2010.8	2011 Census [Others Direct]
	3	2017.5	2018 Statistical Survey [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Luxembourg	138	2020.5	
	138	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Macedonia	93	2020.5	, , , , , , , , , , , , , , , , , , ,
	93	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Madagascar	51	2007.8	adjusted for meomptoteness [TI]
1,1444545041	3	1993.1	1993 Census [Others Direct]
	18	1995.1	1993 Census [Others Direct] 1997 Demographic and Health Survey [DHS Direct]
	12	2002.3	2003-2004 Demographic and Health Survey [DHS Direct]
	18	2002.3	2003-2004 Demographic and Health Survey [DHS Direct] 2008-2009 Demographic and Health Survey [DHS Direct]
Malawi			2000-2007 Demographic and nearth survey [Dris Direct]
Malawi	123	2018.2	

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1971.1	1970-1972 Population Change Survey [Others Direct]
	12	1991.2	1992 Demographic and Health Survey [DHS Direct]
	3	1998.2	1998 Census [Others Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	18	2002.2	2003 World Health Survey [Others Direct]
	18	2003.8	2004 Demographic and Health Survey [DHS Direct]
	3	2008	2008 Census [Others Direct]
	18	2009.4	2010 Demographic and Health Survey [DHS Direct]
	9	2011.9	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2014.7	2015-2016 Demographic and Health Survey [DHS Direct]
	3	2018.2	2018 Census [Others Direct]
Malaysia	90	2021.5	
	90	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Maldives	92	2020.5	
	18	1994.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	74	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mali	84	2017.6	
	3	1986.8	1987 Census [Others Direct]
	18	2000	2001 Demographic and Health Survey [DHS Direct]
	9	2001.2	2003 World Health Survey [Others Direct]
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]
	18	2011.8	2012-2013 Demographic and Health Survey [DHS Direct]
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]
Malta	87	2021.5	
	87	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Marshall Islands			3 / 2 3
Mauritania	21	2018.4	
	3	1977	1976-1977 Census [Others Direct]
	3	1987.8	1988 Census [Others Direct]
	3	2012.8	2013 Census [Others Direct]
	12	2018.4	2021 Demographic and Health Survey [DHS Direct]
Mauritius	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mexico	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Republic of	93	2020.5	
Moldova		2020.0	
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Monaco		2020.0	
Mongolia	90	2019.5	
1,101150114	3	2009.5	2010 Census [Others Direct]
	27	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	60	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Montenegro	92	2019.5	The film Registration (recalculated - unaujusted) [VR]
Montenegro	42	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	- -	2002.3	Continued on next page

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	50	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Montserrat				
Morocco	41	2010		
	17	1991	1992 Demographic and Health Survey [DHS Direct]	
	18	2002.7	2003-2004 Demographic and Health Survey [DHS Direct]	
	3	1997.2	2003 World Health Survey [Others Direct]	
	3	2010	2009-2010 National Demographic Survey with repeated passages [Oth-	
			ers Direct]	
Mozambique	45	2010.4		
1	9	1995.2	1997 Demographic and Health Survey [DHS Direct]	
	18	2002.6	2003 Demographic and Health Survey [DHS Direct]	
	18	2010.4	2011 Demographic and Health Survey [DHS Direct]	
Myanmar	12	2014.4	2011 Demographic and Headin Survey (Dits Direct)	
2.1 j william	3	2013.8	2014 Census [Others Direct]	
	9	2014.4	2015-2016 Demographic and Health Survey [DHS Direct]	
Namibia	84	2012.3	2013 2010 Demographic and Heatan Survey [D115 Direct]	
Naminoia	18	1991.5	1992 Demographic and Health Survey [DHS Direct]	
	18	1991.3	2000 Demographic and Health Survey [DHS Direct]	
	3	2001	2000 Demographic and Heath Survey [DHS Direct] 2001 Census [Others Direct]	
	$\begin{vmatrix} 3 \\ 6 \end{vmatrix}$	2000.2	2003 World Health Survey [Others Direct]	
	18	2005.8	2006-2007 Demographic and Health Survey [DHS Direct]	
	3	2003.8	2011 Census [Others Direct]	
	18	2011.2	2011 Census [Others Direct] 2013 Demographic and Health Survey [DHS Direct]	
Nauru	10	2012.3	2013 Demographic and Health Survey [DHS Direct]	
	63	2014.9		
Nepal	18	1995	1996 Demographic and Health Survey [DHS Direct]	
	3	2001	2001 Census [Others Direct]	
	15	2000.2		
			2003 World Health Survey [Others Direct]	
	12	2004.6	2006 Demographic and Health Survey [DHS Direct]	
	3	2010.5	2011 Census [Others Direct]	
NT.4111.	12	2014.9	2016 Demographic and Health Survey [DHS Direct]	
Netherlands	156	2021.5	WHOTH M. 4-1't. D.4-1 W4-1D' 4-4' (11	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
Na 7 1 1	1.50	2021.5	adjusted) [VR]	
New Zealand	159	2021.5	2007 C [Od D']	
	3	2005.7	2006 Census [Others Direct]	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
> T'			adjusted) [VR]	
Nicaragua		2011.1		
Niger	57	2011.1	1000 5	
	18	1991.2	1992 Demographic and Health Survey [DHS Direct]	
	3	2000.9	2001 Census [Others Direct]	
	18	2005	2006 Demographic and Health Survey [DHS Direct]	
	18	2011.1	2012 Demographic and Health Survey [DHS Direct]	
Nigeria	63	2017.6		
	3	1965.6	1965-1966 Rural Demographic Sample Survey [Others Direct]	

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Table 27 – continued from previous page			
Country	# obs.	Most recent obs. year	Data series name [source type]
	18	2007.4	2008 Demographic and Health Survey [DHS Direct]
	3	2010.5	2010 GHS Panel Survey [Others Direct]
	3	2012.5	2012-2013 GHS Panel Survey [Others Direct]
	18	2012.1	2013 Demographic and Health Survey [DHS Direct]
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]
Niue			
Norway	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Oman			
Pakistan	33	2007.5	
	12	1965.5	1962-1965 Population Growth Estimation Experiment [Others Direct]
	3	1970	1971 Population Growth Survey I [Others Direct]
	3	2006.4	2006-2007 Demographic and Health Survey [Others Direct]
	15	2007.5	Pakistan Demographic Survey [VR]
Palau	44	2018.5	
	44	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Panama	96	2021.5	
	96	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Papua New Guinea	18	2015.8	
_	18	2015.8	2018 Demographic and Health Survey [DHS Direct]
Paraguay	15	2002.2	
	3	2002.2	2002 Census [Others Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
Peru	102	2009.7	
	18	1990.7	1991-1992 Demographic and Health Survey [DHS Direct]
	18	1995.6	1996 Demographic and Health Survey [DHS Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	18	2002.9	2006 Demographic and Health Survey [DHS Direct]
	18	2006	2008 Demographic and Health Survey [DHS Direct]
	12	2009.7	2011 Demographic and Health Survey [DHS Direct]
Philippines	117	2019.5	
	18	1992.2	1993 National Demographic and Health Survey [DHS Direct]
	18	1997.1	1998 National Demographic and Health Survey [DHS Direct]
	60	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	21	1999.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Poland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Portugal	159	2021.5	
	3	2010.8	2011 Census [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Qatar	87	2020.5	
	87	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Romania	99	2021.5	
			Continued on next page

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	003.	obs. year		
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Russian Federation	150	2020.5		
	150	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Rwanda	90	2018.8		
	15	1999.4	2000 Demographic and Health Survey [DHS Direct]	
	3	2002.1	2002 Census [Others Direct]	
	15	2004.1	2005 Demographic and Health Survey [DHS Direct]	
	18	2009.7	2010 Demographic and Health Survey [DHS Direct]	
	3	2012.1	2012 Census [Others Direct]	
	18	2013.8	2014-2015 Demographic and Health Survey [DHS Direct]	
	18	2018.8	2020 Demographic and Health Survey [DHS Direct]	
Saint Kitts and	50	2015.5		
Nevis				
	50	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Saint Lucia	84	2018.5		
	84	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Samoa	12	2016.4	will with the state of the stat	
Sumou	3	1999	1999 Demographic and Health Survey [Others Direct]	
	3	2006.4	2006 Census [Others Direct]	
	3	2011.4	2011 Population and Housing Census [Others Direct]	
	3	2016.4	2016 Population and Housing Census [Others Direct]	
San Marino		2010.1	2010 Topulation and Housing Consus [Caners Breed]	
Sao Tome and	12	2011.9		
Principe and	12	2011.9		
Timespe	6	2005.7	2008-2009 Demographic and Health Survey [DHS Direct]	
	3	2011.9	2012 Census [Others Direct]	
	3	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct]	
Saudi Arabia	14	2017.5	2011 Manapie Indicator Classer Survey [Canors Brices]	
Saudi Firabia	3	1998.6	1999 Demographic Survey [Others Direct]	
	3	2004.2	2004 Census [Others Direct]	
	3	2009.8	2010 Census [Others Direct]	
	3	2017.5	2018 Household Health Survey [Others Direct]	
Senegal	78	2017.3	2010 Household Hemmi out to J [Others Briver]	
Sonogui	18	1991.8	1992-1993 Demographic and Health Survey [DHS Direct]	
	3	2002.5	2002 Census [Others Direct]	
	18	2002.3	2002 Census [Others Direct] 2005 Demographic and Health Survey [DHS Direct]	
	18	2004.1	2010-2011 Demographic and Health Survey [DHS Direct]	
	3	2013.4	2013 Census [Others Direct]	
	18	2015.4	2017 Demographic and Health Survey [DHS Direct]	
Serbia	99	2010.2	2017 Demographic and Heatth Survey [D110 D11001]	
Scroid	60	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
	39	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Seychelles	66	2001.5	vitto vital registration (recalculated - ullaujusted) [VR]	
Seychenes	3	1959.8	1960 Census [Others Direct]	
I)	1737.0	Continued on next page	

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	63	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Sierra Leone	57	2018.3		
	3	2004.4	2004 Census [Others Direct]	
	18	2007.2	2008 Demographic and Health Survey [DHS Direct]	
	18	2012.4	2013 Demographic and Health Survey [DHS Direct]	
	18	2018.3	2019 Demographic and Health Survey [DHS Direct]	
Singapore	96	2020.5	2005 2 0000 800 4000 0000 0000 0000 0000 000	
Singapore	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Slovakia	156	2021.5	wite viair registration (recalculated analysised) [vivi	
Siovakia	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
	130	2021.3	adjusted) [VR]	
Slovenia	120	2021.5		
	120	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
Solomon Islands	3	2009.4		
	3	2009.4	2009 Census [Others Direct]	
Somalia				
South Africa	99	2020.5		
South Fiftee	3	1997	1997 Household Survey [Others Direct]	
	18	1997	1998 Demographic and Health Survey [DHS Direct]	
	3	1997.2	2003 World Health Survey [Others Direct]	
	3	2011.3	2011 Census [Others Direct]	
	9	2011.3	2011 Census [Others Direct] 2016 Demographic and Health Survey [DHS Direct]	
	63		,	
0 41	03	2020.5	Rapid Mortality Surveillance [VR]	
South Sudan	1.50	2020.5		
Spain	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
Sri Lanka	75	2014.5		
	3	1997.2	2003 World Health Survey [Others Direct]	
	72	2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Saint Vincent and	84	2017.5		
the Grenadines				
	84	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
State of Palestine		7=		
Sudan	3	1992.8		
Saduli	3	1992.8	1993 Census [Others Direct]	
Suriname	93	2019.5	1775 Consus [Others Direct]	
Samanic	93	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
Eswatini	27	2019.3	Recalculated based on W110/01VI D - adjusted for incompletelless [VK]	
LSWattill			1007 Canque [Others Direct]	
	3	1996.9	1997 Census [Others Direct]	
	3	1997.2	2003 World Health Survey [Others Direct]	
	18	2005.5	2006-2007 Demographic and Health Survey [DHS Direct]	
C1-	3	2006.8	2007 Census [Others Direct]	
Sweden	156	2021.5	Continued on next page	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Switzerland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Syria	39	2010.5	
	39	2010.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tajikistan	63	2021.5	
	33	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	30	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tanzania	93	2014.6	
	3	1967.2	1967 Census [Others Direct]
	3	1973.3	1973 National Demographic Survey [Others Direct]
	3	1988.2	1988 Census [Others Direct]
	18	1995.5	1996 Demographic and Health Survey [DHS Direct]
	3	2002.2	2002 Census [Others Direct]
	18	2003.8	2004-2005 Demographic and Health Survey [DHS Direct]
	18	2008.9	2010 Demographic and Health Survey [DHS Direct]
	3	2010.4	2010-2011 National Panel Survey [Others Direct]
	6	2012.2	2012-2013 National Panel Survey [Others Direct]
	18	2014.6	2015-2016 Demographic and Health Survey [DHS Direct]
Thailand	93	2019.5	
	3	1995.5	1995-1996 Survey of Population Change [Others Direct]
	90	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Timor Leste	39	2015.2	
	3	1991.7	1997 Demographic and Health Survey [DHS Direct]
	18	2008.6	2009-2010 Demographic and Health Survey [DHS Direct]
	6	2014.5	2015 Census [Others Direct]
	12	2015.2	2016 Demographic and Health Survey [DHS Direct]
Togo	41	2012.8	
	3	1961.4	1961 Demographic survey [Others Direct]
	3	1981.4	1981 Census [Others Direct]
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	17	2012.8	2013-2014 Demographic and Health Survey [DHS Direct]
Tonga	72	2018.5	
	3	2006.4	2006 Census [Others Direct]
	39	2005.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	30	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Trinidad and To-	87	2017.5	
bago			
	87	2017.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Tunisia	37	2017.5	<i>a</i> (
	7	2000.2	2003 World Health Survey [Others Direct]
	21	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	9	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Turkey	33	2017.5	
Turkey	33	2017.5	Continued on next nego

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	3	2002.7	2003 National Verbal Autopsy Survey [Others Direct]	
	30	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Turkmenistan	81	2015.5		
	81	2015.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
Turks and Caicos Islands	6	2002		
	6	2002	WHO Vital Registration (recalculated - unadjusted) [VR]	
Tuvalu	8	2002		
	8	2002	WHO Vital Registration (recalculated - unadjusted) [VR]	
Uganda	90	2015.4		
	18	1994.2	1995 Demographic and Health Survey [DHS Direct]	
	18	1999.7	2000-2001 Demographic and Health Survey [DHS Direct]	
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]	
	18	2010.4	2011 Demographic and Health Survey [DHS Direct]	
	18	2015.4	2016 Demographic and Health Survey [DHS Direct]	
Ukraine	153	2021.5		
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
United Arab Emi-	3	1997.2	J / L]	
rates				
	3	1997.2	2003 World Health Survey [Others Direct]	
United Kingdom	93	2019.5	, , , , , , , , , , , , , , , , , , ,	
	93	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
United States of America	153	2020.5		
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
Uruguay	93	2020.5		
	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Uzbekistan	99	2021.5		
	99	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Vanuatu	3	2009.4		
	3	2009.4	2009 Census [Others Direct]	
Venezuela (Boli-	78	2016.5		
varian Republic				
of)				
	45	2016.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
	33	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Vietnam	39	2017.5	• • • • • • • • • • • • • • • • • • • •	
	3	1978.8	1979 Census [Others Direct]	
	3	1988.5	1989 Census [Others Direct]	
	3	1998.7	1999 Census [Others Direct]	
	3	1997.2	2003 World Health Survey [Others Direct]	
	3	2006.8	2007 Population Change and Family Planning Survey [Others Direct]	
	3	2007.5	2008 Population Change and Family Planning Survey [Others Direct]	
	1	===	The state of the s	

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	2010.8	2011 Population Change and Family Planning Survey [Others Direct]
	3	2011.8	2012 Population Change and Family Planning Survey [Others Direct]
	3	2012.8	2013 Population Change and Family Planning Survey [Others Direct]
	3	2013.5	2014 Intercensal Demographic Survey [Others Direct]
	3	2014.8	2015 Population Change and Family Planning Survey [Others Direct]
	3	2016.5	2017 Population Change and Family Planning Survey [Others Direct]
	3	2017.5	2018 Population Change and Family Planning Survey [Others Direct]
Yemen			
Zambia	111	2017.5	
	18	1995.5	1996 Demographic and Health Survey [DHS Direct]
	18	2000.8	2001-2002 Demographic and Health Survey [DHS Direct]
	18	2002.2	2003 World Health Survey [Others Direct]
	18	2006.2	2007 Demographic and Health Survey [DHS Direct]
	3	2010.3	2010 Census [Others Direct]
	18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]
	18	2017.5	2018 Demographic and Health Survey [DHS Direct]
Zimbabwe	130	2016.5	
	3	1992.1	1992 Census [Others Direct]
	18	1993.5	1994 Demographic and Health Survey [DHS Direct]
	3	1997.1	1997 Inter-Censal Demographic Survey [Others Direct]
	18	1998.7	1999 Demographic and Health Survey [DHS Direct]
	3	2002.1	2002 Census [Others Direct]
	16	2002.2	2003 World Health Survey [Others Direct]
	18	2004.6	2005-2006 Demographic and Health Survey [DHS Direct]
	18	2009.7	2010-2011 Demographic and Health Survey [DHS Direct]
	3	2012.1	2012 Census [Others Direct]
	9	2012.2	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2014.5	2015 Demographic and Health Survey [DHS Direct]
	3	2016.5	2017 Inter-Censal Demographic Survey [Others Direct]

Table 28: **Sex ratio data sources for age group 20–24, by country.** For each country, the total number of observations and the most recent reference year are shown after the country name. For each country-specific data series, the number of observations and the most recent reference year within that series is shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

	п п	Most	
Country	#	recent	Data series name [source type]
·	obs.	obs. year	- ••
Afghanistan	39	2014.4	
	3	1973	1972 National Demographic and Family Guidance Survey [Others Di-
			rect]
	3	1979	1979 Census [Others Direct]
	3	2008.1	2010 Afghanistan Mortality Survey (AMS) Excluding South Zone
		••••	(Household data) [Others Direct]
	12	2008.7	2010 Afghanistan Mortality Survey (AMS) [DHS Direct]
	18	2014.4	2015 Demographic and Health Survey [DHS Direct]
Albania	69	2021.5	
	3	2011.1	2011 Census [Others Direct]
	66	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Algeria	69	2020.5	
	3	1970.5	1970 Demographic Survey [Others Direct]
	66	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Andorra	10	2019.5	
	10	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Angola	21	2014.8	
	3	2013.9	2014 Census [Others Direct]
	18	2014.8	2016 Inquerito de Indicadores Multiplos e de Saude [DHS Direct]
Anguilla			
Antigua and Bar-	40	2017.5	
buda			
	40	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Argentina	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Armenia	95	2021.5	
	95	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Australia	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
Austria	153	2020.5	<i>y</i> / <i>c y</i>
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Azerbaijan	90	2021.5	
J	90	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Bahamas	93	2020.5	2 r. L (1.5-2)
			Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
Bahrain			
	92	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Bangladesh			,
			1962-1965 Population Growth Estimation Experiment [Others Direct]
Bahrain Bangladesh	93 92	2020.5 2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [V. WHO/UNPD Vital Registration (recalculated - unadjusted) [VR] 1962-1965 Population Growth Estimation Experiment [Others Direct

Table 28 – continued from previous page

Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	1974.5	1974 Retrospective Fertility and Mortality Survey (UN SA) [Others Di-
			rect]
	3	1999.8	1999-2000 Demographic and Health Survey [Others Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	3	2010	2010 Maternal Health Services and Maternal Mortality Survey [Others
			Direct]
	3	2010.7	2011 Census [Others Direct]
	3	2016	2016 Maternal Health Services and Maternal Mortality Survey [Others
			Direct]
	3	2016.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2017.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2018.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2019.5	Report on Sample Vital Registration System 2016 [Others Direct]
	3	2020.5	Report on Sample Vital Registration System 2016 [Others Direct]
	78	2015.5	Sample Vital Statistics [VR]
Barbados	75	2013.5	and the second s
	75	2013.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Belarus	150	2019.5	
Delaras	150	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
		2017.8	adjusted) [VR]
Belgium	153	2020.5	adjusted) [, It]
Beigiani	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
		2020.8	adjusted) [VR]
Belize	81	2018.5	
Benze	81	2018.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Benin	63	2016.8	reconcentated bused on with adjusted for incompleteness [viv]
Delilli	18	1995.4	1996 Demographic and Health Survey [DHS Direct]
	18	2005.6	2006 Demographic and Health Survey [DHS Direct]
	9	2012.5	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2012.3	2014 Multiple Indicator Cluster Survey [Others Direct] 2018 Demographic and Health Survey [DHS Direct]
Bhutan	9	2010.8	2010 Demographic and Health Survey [DHS Direct]
Dilutali	3	1993.1	1994 National Health Survey [Others Direct]
	3	2004.9	2005 Census [Others Direct]
	3	2004.9	2003 Census [Others Direct] 2012 National Health Survey [Others Direct]
Bolivia (Pluri-	60	2012.3	2012 Ivanoliai Health Survey [Others Direct]
` ·	00	2007.1	
of)	3	1979.8	1980 National Demographic Survey [Others Direct]
	3	1979.8	1980 National Demographic Survey [Others Direct] 1992 Census [Others Direct]
	18	1991.9	1992 Census [Others Direct] 1993-1994 Demographic and Health Survey [DHS Direct]
	18	2002.6	• •
	18	2002.6	2003 Demographic and Health Survey [DHS Direct]
Doonie and Harra			2008 Demographic and Health Survey [DHS Direct]
Bosnia and Herze-	63	2016.5	
govina	62	2016 5	WIIO Vital Designation (results in a district of IVD)
Datama	63	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Botswana	21	2016.5	Continued on next page

Table 28 – continued from previous page

Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	3	1981.1	1981 Census [Others Direct]
	3	1991.1	1991 Census [Others Direct]
	3	1997.9	1998 Demographic Survey [Others Direct]
	3	2001.1	2001 Census [Others Direct]
	3	2006.2	2006 Demographic Survey [Others Direct]
	3	2011.1	2011 Census [Others Direct]
	3	2011.1	2017 Census [Others Direct] 2017 Demographic Survey [Others Direct]
Brazil	117	2020.5	2017 Demographic Survey [Outers Direct]
DIazii			1006 Demographic and Health Comment [DHC Discret]
	18	1995.2	1996 Demographic and Health Survey [DHS Direct]
	3	2010.2	2010 Census [Others Direct]
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
British Virgin Is-			
lands			
Brunei	83	2019.5	
	83	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Bulgaria	156	2021.5	
_	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Burkina Faso	81	2009.3	
2 drilling 1 disc	3	1960.5	1960-1961 Survey [Others Direct]
	3	1985.5	1985 Census [Others Direct]
	3	1995.5	1996 Census [Others Direct]
	18	1997.8	1998-1999 Demographic and Health Survey [DHS Direct]
	18	2002.4	2003 Demographic and Health Survey [DHS Direct]
			, ,
	12	2001.7	2003 World Health Survey [Others Direct]
	3	2006.4	2006 Census [Others Direct]
	3	2007.3	2008 Global Fund Evaluation Survey [Others Direct]
	18	2009.3	2010 Demographic and Health Survey [DHS Direct]
Burundi	42	2015.8	
	3	1964.7	1965 Population Survey [Others Direct]
	3	2008.2	2008 Census [Others Direct]
	18	2009.6	2010 Demographic and Health Survey [DHS Direct]
	18	2015.8	2017 Demographic and Health Survey [DHS Direct]
Cambodia	72	2013.4	
	18	1999.1	2000 Demographic and Health Survey [DHS Direct]
	18	2004.7	2005 Demographic and Health Survey [DHS Direct]
	18	2009.5	2010 Demographic and Health Survey [DHS Direct]
	18	2013.4	2014 Demographic and Health Survey [DHS Direct]
Cameroon	81	2017.4	
	3	1975.8	1976 Census [Others Direct]
	3	1986.8	1987 Census [Others Direct]
	18	1980.8	1987 Census [Others Direct] 1998 Demographic and Health Survey [DHS Direct]
	18	2003.1	2004 Demographic and Health Survey [DHS Direct]
	3	2005.4	2005 Census [Others Direct]
	18	2010	2011 Demographic and Health Survey [DHS Direct]

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Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	18	2017.4	2018 Demographic and Health Survey [DHS Direct]
Canada	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Cape Verde	81	2018.5	
•	3	2000	2000 Census [Others Direct]
	3	2009.5	2010 Census [Others Direct]
	18	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	57	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Central African	27	2003.4	<i>y</i> ,
Republic			
	3	1959.5	1959-1960 Survey [Others Direct]
	3	1988.4	1988 Census [Others Direct]
	18	1993.7	1994-1995 Demographic and Health Survey [DHS Direct]
	3	2003.4	2003 Census [Others Direct]
Chad	57	2013.7	2005 Census [Cuners Breet]
Ciluu	18	1995.9	1996-1997 Demographic and Health Survey [DHS Direct]
	18	2003.5	2004 Demographic and Health Survey [DHS Direct]
	3	2008.9	2009 Census [Others Direct]
	18	2013.7	2014-2015 Demographic and Health Survey [DHS Direct]
Chile	153	2020.5	2014-2013 Demographic and Health Survey [DIIS Direct]
Cilile	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2020.3	adjusted) [VR]
China	10	2010.5	adjusted) [VK]
Cillia	48	1973.5	1964-1982 Adjusted Census Deaths (1964-1982) [Others Direct]
		1975.5	1982-1990 Adjusted Census Deaths (1982-1990) [Others Direct]
	3		
	3	1987	1987 China 1987 One-per-Hundred National Population Survey [Others
	2	1005 5	Direct]
	3	1995.5	1990-2000 Adjusted Census Deaths (1990-2000) [Others Direct]
	3	1995.4	1995 China 1995 One-percent Sample Survey [Others Direct]
	3	2000.5	1999-2000 Adjusted Census Deaths (1999-2000) [Others Direct]
	3	2005.5	2000-2010 Adjusted Census Deaths (2000-2010) [Others Direct]
	3	2007.4	2007 China 2007 Annual Population Change Survey [Others Direct]
	3	2008.4	2008 China 2008 Annual Population Change Survey [Others Direct]
0.1.1.	21	2010.5	China CDC Surveillance surveys [VR]
Colombia	102	2020.5	2015 D
	18	2014.1	2015 Demographic and Health Survey [DHS Direct]
G	84	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Comoros	12	2009.6	1050 G
	3	1958.2	1958 Census [Others Direct]
	3	2003.2	2003 Census [Others Direct]
	6	2009.6	2012 Demographic and Health Survey [DHS Direct]
Congo	45	2012.9	
	18	2004.5	2005 Demographic and Health Survey [DHS Direct]
	18	2010.7	2011-2012 Demographic and Health Survey [DHS Direct]
			Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	9	2012.9	2015 Multiple Indicator Cluster Survey [Others Direct]
Democratic Re-	33	2012.6	
public of the			
Congo			
-	15	2006	2007 Demographic and Health Survey [DHS Direct]
	18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]
Cook Islands	25	2008.5	
	25	2008.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Costa Rica	96	2020.5	
	96	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Cote d'Ivoire	60	2010.9	
	3	1977.5	1978-1979 Demographic Survey Repeated Passages [Others Direct]
	18	1993.4	1994 Demographic and Health Survey [DHS Direct]
	3	1998.4	1998 Census [Others Direct]
	6	2000.2	2003 World Health Survey [Others Direct]
	12	2004.1	2005 AIDS Indicator Survey [DHS Direct]
	18	2010.9	2011-2012 Demographic and Health Survey [DHS Direct]
Croatia	117	2021.5	
	3	2010.8	2011 Census [Others Direct]
	114	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Cuba	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Cyprus	92	2020.5	
	56	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	36	2000.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Czech Republic	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Denmark	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Djibouti			
Dominica	37	2015	
	17	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	20	2015	WHO Vital Registration (recalculated - unadjusted) [VR]
Dominican Repub-	48	2010.4	
lic		0001	
	18	2001.5	2002 Demographic and Health Survey [DHS Direct]
	9	2001.2	2003 World Health Survey [Others Direct]
	18	2006.2	2007 Demographic and Health Survey [DHS Direct]
	3	2010.4	2010 Census [Others Direct]
Ecuador	96	2020.5	2002 W. 11W. 11 G
	3	1997.2	2003 World Health Survey [Others Direct]
-	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Egypt	93	2019.5	Continued on next page

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Table 28 – continued from previous page			
Country	#	Most recent	Data series name [source type]
Country	obs.	obs. year	Data series name [source type]
	42	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	51	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
El Salvador	87	2003.5	WHO VITAL REGISTRATION (recalculated - unadjusted) [VK]
El Salvador	3	1992.2	1992 Census [Others Direct]
	84	2019.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Equatorial Cuinas	04	2019.3	WHO/ONFD Vital Registration (recalculated - unadjusted) [VK]
Equatorial Guinea Eritrea			
	156	2020.5	
Estonia	156	2020.5	2011 2012 Canava [Others Discret]
	3	2011.6	2011-2012 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
Table at	0.4	2015	adjusted) [VR]
Ethiopia	84	2015	1004 Canaya [Othana Dimast]
	3	1983.9	1984 Census [Others Direct]
	15	1997.1	2000 Demographic and Health Survey [DHS Direct]
	12	2001.7	2003 World Health Survey [Others Direct] 2005 Demographic and Health Survey [DHS Direct]
	18	2004.2	
	3	2006.9	2007 Census [Others Direct]
	15	2009.9	2011 Demographic and Health Survey [DHS Direct]
F 1 (10) (C	18	2015	2016 Demographic and Health Survey [DHS Direct]
Federated States of			
Micronesia	10	2010.7	
Fiji	42	2019.5	
T' 1 1	42	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Finland	156	2021.5	WHOTH WATER DATE WATER TO A TALL I
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]
France	153	2020.5	adjusted) [VK]
Trance	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	155	2020.3	adjusted) [VR]
Gabon	24	2010.5	aujusteu) [VK]
Gabon	12	1999	2000 Demographic and Health Survey [DHS Direct]
	12	2010.5	2012 Demographic and Health Survey [DHS Direct]
The Gambia	33	2010.3	2012 Demographic and Health Survey [DHS Direct]
The Gambia	3	2018.8	2013 Census [Others Direct]
		2012.8	
	12 18		2013 Demographic and Health Survey [DHS Direct]
Coorgie		2018.8	2020 Demographic and Health Survey [DHS Direct]
Georgia	90	2021.5	Deceleyleted beard on WHO adjusted for in constitution (VD)
	33	2001.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Cormon	57	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Germany	153	2021.5	WHO/Human Martality Database Vital Designation (recolorists d
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
Clara	20	2014.2	adjusted) [VR]
Ghana	30	2014.2	2002 Would Hookk Common [Othorn Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	12	2005.5	2007 Maternal Health Survey [DHS Direct]
	3	2010.3	2010 Census [Others Direct]

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Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	3	2014.2	2017 Demographic and Health Survey [Others Direct]
Greece	153	2020.5	
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Grenada	76	2018.5	
	32	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	44	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Guatemala	117	2017.5	
	12	1993.9	1995 Demographic and Health Survey [DHS Direct]
	18	2013.7	2014-2015 Demographic and Health Survey [DHS Direct]
	87	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Guinea	60	2013.8	Z \ J /L J
	3	1996.4	1996 Census [Others Direct]
	18	1998.3	1999 Demographic and Health Survey [DHS Direct]
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]
	18	2011.4	2012 Demographic and Health Survey [DHS Direct]
	3	2013.8	2014 Census [Others Direct]
Guinea-Bissau	12	2012.2	
Camea Bissaa	3	2008.8	2009 Census [Others Direct]
	9	2012.2	2014 Multiple Indicator Cluster Survey [Others Direct]
Guyana	78	2014.5	2011 Manapie Indicator Claster Survey [Canors Bricet]
Guyuna	78	2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Haiti	48	2015.8	wite viair registration (recalculated analysisca) [viv]
Huiti	12	1998.6	2000 Demographic and Health Survey [DHS Direct]
	18	2004.7	2005-2006 Demographic and Health Survey [DHS Direct]
	18	2015.8	2017 Demographic and Health Survey [DHS Direct]
Honduras	3	2001.1	2017 Belliographic and Health Sarvey [B110 Birect]
Hondulus	3	2001.1	2001 Census [Others Direct]
Hungary	153	2020.5	2001 Census [Others Direct]
Trangary	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	133	2020.3	adjusted) [VR]
Iceland	132	2021	aujusteu/[YR]
Toolalla	132	2021	WHO/Human Mortality Database Vital Registration (recalculated - un-
	134	2021	adjusted) [VR]
India	141	2019.5	adjusted) [TEG
mara	3	1970.5	1971 Census [Others Direct]
	3	1970.5	1981 Census [Others Direct]
	3	1980.3	1991 Census [Others Direct] 1992-1993 National Family Health Survey [Others Direct]
	3	1991.9	1998-1999 National Family Health Survey [Others Direct]
	12	2001.7	2003 World Health Survey [Others Direct]
	117	2011.7	Sample Registration System [VR]
Indonesia	63	2019.3	Sample Registration System [VR]
muonesia	6	1964.5	1964-1965 National Socio-economic Survey [Others Direct]
	18	1904.5	1994 Demographic and Health Survey [DHS Direct]
	12	2001.2	2002-2003 Demographic and Health Survey [DHS Direct]
	15	2001.2	2002-2003 Demographic and Health Survey [DHS Direct] 2007 Demographic and Health Survey [DHS Direct]
	13	2000.4	2007 Demographic and Health Survey [DHS Direct]

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Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	0.000	obs. year	
	3	2009.9	2010 Census [Others Direct]
	9	2010.3	2012 Demographic and Health Survey [DHS Direct]
Iran (Islamic Re-	42	2017.5	
public of)			
puelle oi)	3	1975.5	1976 Census [Others Direct]
	3	1999.8	2000 Demographic and Health Survey [Others Direct]
	3	2004.5	Based on 2004 DH - adjusted for incompleteness [Others Direct]
	33	2017.5	Recalculated based on WHO - adjusted for incompleteness [VR]
T			Recalculated based on WTO - adjusted for incompleteness [VK]
Iraq	3	2004.6	2006 T T T T T T T T T T T T T T T T T T
	3	2004.6	2006 Iraq Family Health Survey [Others Direct]
Ireland	156	2020.5	
	3	2010.8	2011 Census [Others Direct]
	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Israel	141	2021.5	
	141	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Italy	153	2020.5	, , , , , , , , , , , , , , , , , , ,
1001)	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
		2020.8	adjusted) [VR]
Jamaica	3	2010.2	adjusted) [VK]
Jamaica	3	2010.2	2011 Census [Others Direct]
Iomon		2010.2	2011 Celisus [Others Direct]
Japan	153		WHO/III
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
* 1	0	20140	adjusted) [VR]
Jordan	9	2014.9	100000
	6	1995.4	1997 Population and Family Health Survey [DHS Direct]
	3	2014.9	2015 Census [Others Direct]
Kazakhstan	102	2021.5	
	3	1997.2	2003 World Health Survey [Others Direct]
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Kenya	84	2013.3	
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	18	2002.2	2003 Demographic and Health Survey [DHS Direct]
	9	2001.2	2003 World Health Survey [Others Direct]
	18	2007.8	2008-2009 Demographic and Health Survey [DHS Direct]
	3	2009.2	2009 Census [Others Direct]
	18	2013.3	2014 Demographic and Health Survey [DHS Direct]
Kiribati	10	2013.3	2017 Demographic and Heaten Survey [D113 Direct]
	2	2000 2	
Democratic Peo-	3	2008.3	
ple's Republic of			
Korea			
	3	2008.3	2008 Census [Others Direct]
Republic of Korea	99	2021.5	

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Table 28 – continued from previous page			
	#	Most	
Country	obs.	recent	Data series name [source type]
	ons.	obs. year	
	99	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Kosovo			
Kuwait	87	2019.5	
Kuwait	87	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Vimarizatan	99	2019.5	WHO Vital Registration (recalculated - unadjusted) [VK]
Kyrgyzstan	99		WIIO Vital Designation (recoloulated and directed) [VD]
T D 11		2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Lao People's	15	2014.8	
Democratic Re-			
public			
	9	2001.2	2003 World Health Survey [Others Direct]
	3	2004.8	2005 Census [Others Direct]
	3	2014.8	2015 Census [Others Direct]
Latvia	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Lebanon			
Lesotho	63	2015.5	
	3	1995.8	1996 Census [Others Direct]
	3	2000.9	2001 Demographic Survey [Others Direct]
	18	2003.7	2004 Demographic and Health Survey [DHS Direct]
	18	2003.7	2004 Demographic and Health Survey [DHS Direct]
			,
	18	2013.7	2014 Demographic and Health Survey [DHS Direct]
T '1 '	3	2015.5	2016 Census [Others Direct]
Liberia	45	2018.2	1000 1000 P. 1 d. C. d. C. fod P. d.
	3	1969.5	1969-1970 Population Growth Survey [Others Direct]
	15	2005.9	2006-2007 Demographic and Health Survey [DHS Direct]
	18	2012.2	2013 Demographic and Health Survey [DHS Direct]
	9	2018.2	2020 Demographic and Health Survey [DHS Direct]
Libya			
Lithuania	162	2021.5	
	3	2010.8	2011 Census [Others Direct]
	3	2017.5	2018 Statistical Survey [Others Direct]
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Luxembourg	138	2020.5	
	138	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Macedonia	93	2020.5	
	93	2020.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Madagascar	51	2007.8	recurrent and the state of the
wiauagastai	3	1993.1	1993 Census [Others Direct]
		1993.1	
	18		1997 Demographic and Health Survey [DHS Direct]
	12	2002.3	2003-2004 Demographic and Health Survey [DHS Direct]
7.1	18	2007.8	2008-2009 Demographic and Health Survey [DHS Direct]
Malawi	123	2018.2	

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	1971.1	1970-1972 Population Change Survey [Others Direct]
	12	1991.2	1992 Demographic and Health Survey [DHS Direct]
	3	1998.2	1998 Census [Others Direct]
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]
	18	2002.2	2003 World Health Survey [Others Direct]
	18	2003.8	2004 Demographic and Health Survey [DHS Direct]
	3	2008	2008 Census [Others Direct]
	18	2009.4	2010 Demographic and Health Survey [DHS Direct]
	9	2011.9	2014 Multiple Indicator Cluster Survey [Others Direct]
	18	2014.7	2015-2016 Demographic and Health Survey [DHS Direct]
	3	2018.2	2018 Census [Others Direct]
Malaysia	90	2021.5	
	90	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Maldives	92	2020.5	
	18	1994.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	74	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mali	84	2017.6	
	3	1986.8	1987 Census [Others Direct]
	18	2000	2001 Demographic and Health Survey [DHS Direct]
	9	2001.2	2003 World Health Survey [Others Direct]
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]
	18	2011.8	2012-2013 Demographic and Health Survey [DHS Direct]
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]
Malta	87	2021.5	
1110100	87	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Marshall Islands	0.	2021.6	will the state of
Mauritania	21	2018.4	
Manitalia	3	1977	1976-1977 Census [Others Direct]
	3	1987.8	1988 Census [Others Direct]
	3	2012.8	2013 Census [Others Direct]
	12	2012.6	2021 Demographic and Health Survey [DHS Direct]
Mauritius	96	2020.5	2021 Demographic and Heatin but toy [D110 D11001]
11144111145	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Mexico	96	2020.5	1110 That Registration (recalculated - unaujusted) [TR]
MICAICO	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Republic of	93	2020.5	1110 Thai Registration (recalculated - unaujusted) [VK]
Moldova of	93	2020.3	
ivioluova	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Monaco	73	2020.3	wito vital registration (recalculated - unaujusted) [VR]
	00	2010.5	
Mongolia	90	2019.5	2010 Canaga [Othora Direct]
	3	2009.5	2010 Census [Others Direct]
	27	1999.5	Recalculated based on WHO - adjusted for incompleteness [VR]
3.6	60	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Montenegro	92	2021.5	D. I. I. II. I. WIIO. II. II. II.
	42	2002.5	Recalculated based on WHO - adjusted for incompleteness [VR] Continued on next page.

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	ons.	obs. year		
	50	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Montserrat				
Morocco	41	2010		
	17	1991	1992 Demographic and Health Survey [DHS Direct]	
	18	2002.7	2003-2004 Demographic and Health Survey [DHS Direct]	
	3	1997.2	2003 World Health Survey [Others Direct]	
	3	2010	2009-2010 National Demographic Survey with repeated passages [Oth-	
			ers Direct]	
Mozambique	45	2010.4		
	9	1995.2	1997 Demographic and Health Survey [DHS Direct]	
	18	2002.6	2003 Demographic and Health Survey [DHS Direct]	
	18	2010.4	2011 Demographic and Health Survey [DHS Direct]	
Myanmar	12	2014.4		
J 	3	2013.8	2014 Census [Others Direct]	
	9	2014.4	2015-2016 Demographic and Health Survey [DHS Direct]	
Namibia	84	2012.3	2010 2010 20110graphio and from the Survey [2110 21100]	
Tulliolu	18	1991.5	1992 Demographic and Health Survey [DHS Direct]	
	18	1999.7	2000 Demographic and Health Survey [DHS Direct]	
	3	2001	2001 Census [Others Direct]	
	6	2000.2	2003 World Health Survey [Others Direct]	
	18	2005.8	2006-2007 Demographic and Health Survey [DHS Direct]	
	3	2011.2	2011 Census [Others Direct]	
	18	2012.3	2013 Demographic and Health Survey [DHS Direct]	
Nauru	2	2000	2013 Demographic and Hearth Starvey [D115 Direct]	
Nauru	2	2000	WHO Vital Registration (recalculated - unadjusted) [VR]	
Nepal	63	2014.9	WITO Vital Registration (routeutated analysisted) [VII]	
repui	18	1995	1996 Demographic and Health Survey [DHS Direct]	
	3	2001	2001 Census [Others Direct]	
	15	2000.2	2003 World Health Survey [Others Direct]	
	12	2004.6	2006 Demographic and Health Survey [DHS Direct]	
	3	2010.5	2011 Census [Others Direct]	
	12	2010.5	2011 Census [Others Direct] 2016 Demographic and Health Survey [DHS Direct]	
Netherlands	156	2021.5	2010 2 throughpine and Health but (b) [2110 21100]	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
	130	2021.5	adjusted) [VR]	
New Zealand	159	2021.5	Mag Mag	
1.011 Zoululla	3	2005.7	2006 Census [Others Direct]	
	156	2003.7	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Nicaragua			J	
Niger	57	2011.1		
1.1801	18	1991.2	1992 Demographic and Health Survey [DHS Direct]	
	3	2000.9	2001 Census [Others Direct]	
	18	2005	2006 Demographic and Health Survey [DHS Direct]	
	18	2011.1	2012 Demographic and Health Survey [DHS Direct]	
Nigeria	63	2017.6	2012 Semographic and Heatin Barrey [D116 D11601]	
1 1150114	0.5	2017.0	Continued on next neces	

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	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	3	1965.6	1965-1966 Rural Demographic Sample Survey [Others Direct]	
	18	2007.4	2008 Demographic and Health Survey [DHS Direct]	
	3	2010.5	2010 GHS Panel Survey [Others Direct]	
	3	2012.5	2012-2013 GHS Panel Survey [Others Direct]	
	18	2012.1	2013 Demographic and Health Survey [DHS Direct]	
	18	2017.6	2018 Demographic and Health Survey [DHS Direct]	
Niue				
Norway	156	2021.5		
J	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
Oman			adjusted) [VK]	
Pakistan	33	2007.5		
1 akistan	12	1965.5	1962-1965 Population Growth Estimation Experiment [Others Direct]	
	3	1903.3	1902-1903 Population Growth Estimation Experiment [Others Direct]	
		2006.4	· · · · · · · · · · · · · · · · · · ·	
	3		2006-2007 Demographic and Health Survey [Others Direct]	
D 1	15	2007.5	Pakistan Demographic Survey [VR]	
Palau	44	2018.5	WINDERSTEIN CONTRACTOR OF THE STATE OF THE S	
_	44	2018.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]	
Panama	96	2021.5		
	96	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	
Papua New Guinea	18	2015.8		
	18	2015.8	2018 Demographic and Health Survey [DHS Direct]	
Paraguay	15	2002.2		
	3	2002.2	2002 Census [Others Direct]	
	12	2001.7	2003 World Health Survey [Others Direct]	
Peru	102	2009.7		
	18	1990.7	1991-1992 Demographic and Health Survey [DHS Direct]	
	18	1995.6	1996 Demographic and Health Survey [DHS Direct]	
	18	1999.5	2000 Demographic and Health Survey [DHS Direct]	
	18	2002.9	2006 Demographic and Health Survey [DHS Direct]	
	18	2006	2008 Demographic and Health Survey [DHS Direct]	
	12	2009.7	2011 Demographic and Health Survey [DHS Direct]	
Philippines	117	2019.5		
	18	1992.2	1993 National Demographic and Health Survey [DHS Direct]	
	18	1997.1	1998 National Demographic and Health Survey [DHS Direct]	
	60	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]	
	21	1999.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Poland	156	2021.5	, J	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - unadjusted) [VR]	
Portugal	159	2021.5		
2 5100801	3	2010.8	2011 Census [Others Direct]	
	156	2010.6	WHO/Human Mortality Database Vital Registration (recalculated - un-	
		2021.5	adjusted) [VR]	
Qatar	87	2020.5		
Karm	07	2020.3	Continued on next page	

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	Table 28 – continued from previous page			
	#	Most		
Country	obs.	recent	Data series name [source type]	
	UDS.	obs. year		
	87	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Romania	99	2021.5		
	99	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Russian Federation	150	2020.5		
	150	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-	
			adjusted) [VR]	
Rwanda	90	2018.8	<i>y</i> , <i>t</i> , <i>t</i>	
	15	1999.4	2000 Demographic and Health Survey [DHS Direct]	
	3	2002.1	2002 Census [Others Direct]	
	15	2004.1	2005 Demographic and Health Survey [DHS Direct]	
	18	2009.7	2010 Demographic and Health Survey [DHS Direct]	
	3	2012.1	2012 Census [Others Direct]	
	18	2013.8	2014-2015 Demographic and Health Survey [DHS Direct]	
	18	2018.8	2020 Demographic and Health Survey [DHS Direct]	
Saint Kitts and	50	2015.5	2020 20 omographic and recaim buries [Dito Ditect]	
Nevis	30	2013.3		
TTCVIS	50	2015.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Saint Lucia	84	2013.5	WHO That Registration (recalculated - unaufusica) [VR]	
Saint Lucia	84	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]	
Samoa	12	2016.3	WHO Vital Registration (recalculated - unaujusted) [VR]	
Samoa	3	1999	1999 Demographic and Health Survey [Others Direct]	
		2006.4		
	3	2006.4	2006 Census [Others Direct]	
	3		2011 Population and Housing Census [Others Direct]	
Can Marina	3	2016.4	2016 Population and Housing Census [Others Direct]	
San Marino	10	2011.0		
Sao Tome and	12	2011.9		
Principe		2005.7	2000 2000 D	
	6	2005.7	2008-2009 Demographic and Health Survey [DHS Direct]	
	3	2011.9	2012 Census [Others Direct]	
0 1 4 1 1	3	2008.3	2014 Multiple Indicator Cluster Survey [Others Direct]	
Saudi Arabia	14	2017.5	1000 B	
	3	1998.6	1999 Demographic Survey [Others Direct]	
	3	2004.2	2004 Census [Others Direct]	
	3	2009.8	2010 Census [Others Direct]	
	2	2015.5	2016 Demographic Survey [Others Direct]	
G 1	3	2017.5	2018 Household Health Survey [Others Direct]	
Senegal	78	2016.2	1000 1000 D	
	18	1991.8	1992-1993 Demographic and Health Survey [DHS Direct]	
	3	2002.5	2002 Census [Others Direct]	
	18	2004.1	2005 Demographic and Health Survey [DHS Direct]	
	18	2009.7	2010-2011 Demographic and Health Survey [DHS Direct]	
	3	2013.4	2013 Census [Others Direct]	
	18	2016.2	2017 Demographic and Health Survey [DHS Direct]	
Serbia	99	2021.5		
	60	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]	

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a	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	39	2001.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Seychelles	66	2016.5	
	3	1959.8	1960 Census [Others Direct]
	63	2016.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Sierra Leone	57	2018.3	
	3	2004.4	2004 Census [Others Direct]
	18	2007.2	2008 Demographic and Health Survey [DHS Direct]
	18	2012.4	2013 Demographic and Health Survey [DHS Direct]
	18	2018.3	2019 Demographic and Health Survey [DHS Direct]
Singapore	96	2020.5	
	96	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Slovakia	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Slovenia	120	2021.5	
	120	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Solomon Islands	3	2009.4	
	3	2009.4	2009 Census [Others Direct]
Somalia		200711	
South Africa	99	2020.5	
South / Hired	3	1997	1997 Household Survey [Others Direct]
	18	1997	1998 Demographic and Health Survey [DHS Direct]
	3	1997.2	2003 World Health Survey [Others Direct]
	3	2011.3	2011 Census [Others Direct]
	9	2011.3	2016 Demographic and Health Survey [DHS Direct]
	63	2020.5	Rapid Mortality Surveillance [VR]
South Sudan	0.5	2020.3	Rupid Moranty Surventance [VK]
Spain	153	2020.5	
Spain	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	155	2020.3	adjusted) [VR]
Sri Lanka	75	2014.5	aujusteu) [VK]
SII Lalika		1997.2	2002 Would Hoolth Courses [Othors Direct]
	3 72		2003 World Health Survey [Others Direct]
Calut Minarut and		2014.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Saint Vincent and	84	2017.5	
the Grenadines	0.4	2017.5	WHO Was Devised in Constant and Sect A IVID
Ct.t. CD 1 (84	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
State of Palestine	2	1002.0	
Sudan	3	1992.8	1002 C
G :	3	1992.8	1993 Census [Others Direct]
Suriname	93	2019.5	D. J. J. J. WINGERING
	93	2019.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
Eswatini	27	2006.8	
	3	1996.9	1997 Census [Others Direct]
	3	1997.2	2003 World Health Survey [Others Direct]
	18	2005.5	2006-2007 Demographic and Health Survey [DHS Direct]
			Continued on next page

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	#	Most	
Country	obs.	recent	Data series name [source type]
		obs. year	
	3	2006.8	2007 Census [Others Direct]
Sweden	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Switzerland	156	2021.5	
	156	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
Syria	39	2010.5	
	39	2010.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tajikistan	63	2021.5	
	33	1999.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	30	2021.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Tanzania	93	2014.6	
	3	1967.2	1967 Census [Others Direct]
	3	1973.3	1973 National Demographic Survey [Others Direct]
	3	1988.2	1988 Census [Others Direct]
	18	1995.5	1996 Demographic and Health Survey [DHS Direct]
	3	2002.2	2002 Census [Others Direct]
	18	2003.8	2004-2005 Demographic and Health Survey [DHS Direct]
	18	2008.9	2010 Demographic and Health Survey [DHS Direct]
	3	2010.4	2010-2011 National Panel Survey [Others Direct]
	6	2012.2	2012-2013 National Panel Survey [Others Direct]
	18	2014.6	2015-2016 Demographic and Health Survey [DHS Direct]
Thailand	93	2019.5	
	3	1995.5	1995-1996 Survey of Population Change [Others Direct]
	90	2019.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Timor Leste	39	2015.2	
	3	1991.7	1997 Demographic and Health Survey [DHS Direct]
	18	2008.6	2009-2010 Demographic and Health Survey [DHS Direct]
	6	2014.5	2015 Census [Others Direct]
	12	2015.2	2016 Demographic and Health Survey [DHS Direct]
Togo	41	2012.8	
	3	1961.4	1961 Demographic survey [Others Direct]
	3	1981.4	1981 Census [Others Direct]
	18	1997.1	1998 Demographic and Health Survey [DHS Direct]
	17	2012.8	2013-2014 Demographic and Health Survey [DHS Direct]
Tonga	72	2018.5	
	3	2006.4	2006 Census [Others Direct]
	39	2005.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	30	2018.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Trinidad and To-	87	2017.5	
bago			
	87	2017.5	WHO/UNPD Vital Registration (recalculated - unadjusted) [VR]
Tunisia	37	2017.5	
	7	2000.2	2003 World Health Survey [Others Direct]
	21	2000.5	Recalculated based on WHO - adjusted for incompleteness [VR]
	. '		Continued on payt page

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	#	Most	
Country	obs.	recent	Data series name [source type]
	UDS.	obs. year	
	9	2017.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Turkey	33	2019.5	
	3	2002.7	2003 National Verbal Autopsy Survey [Others Direct]
	30	2019.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Turkmenistan	81	2015.5	
	81	2015.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
Turks and Caicos	6	2002	
Islands			
	6	2002	WHO Vital Registration (recalculated - unadjusted) [VR]
Tuvalu	8	2002	
	8	2002	WHO Vital Registration (recalculated - unadjusted) [VR]
Uganda	90	2015.4	
-	18	1994.2	1995 Demographic and Health Survey [DHS Direct]
	18	1999.7	2000-2001 Demographic and Health Survey [DHS Direct]
	18	2005.3	2006 Demographic and Health Survey [DHS Direct]
	18	2010.4	2011 Demographic and Health Survey [DHS Direct]
	18	2015.4	2016 Demographic and Health Survey [DHS Direct]
Ukraine	153	2021.5	
	153	2021.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
			adjusted) [VR]
United Arab Emi-	3	1997.2	<i>y</i> , <i>t</i> , <i>t</i>
rates			
	3	1997.2	2003 World Health Survey [Others Direct]
United Kingdom	93	2019.5	
	93	2019.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	, -		adjusted) [VR]
United States of	153	2020.5	
America	100	202010	
Timorica	153	2020.5	WHO/Human Mortality Database Vital Registration (recalculated - un-
	100	202010	adjusted) [VR]
Uruguay	93	2020.5	adjusted) [+ 12]
Cruguay	93	2020.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Uzbekistan	99	2021.5	wite viair registration (recalculated analysisca) [viv]
O Z D C KISTUII	99	2021.5	Recalculated based on WHO - adjusted for incompleteness [VR]
Vanuatu	3	2009.4	recalculated based on with adjusted for meompleteness [viv]
vanuatu	3	2009.4	2009 Census [Others Direct]
Venezuela (Boli-	78	2016.5	2007 Comuna [Others Direct]
varian Republic	70	2010.3	
of)			
01)	45	2016.5	Recalculated based on WHO/UNPD - adjusted for incompleteness [VR]
	33	2010.5	WHO Vital Registration (recalculated - unadjusted) [VR]
Vietnam	39	2000.5	77110 71ttli Registration (recalculated - unaujusted) [VR]
v ICHIAIII	39	1978.8	1979 Census [Others Direct]
	3	1978.8	1989 Census [Others Direct]
	3	1988.7	1999 Census [Others Direct]
	3	1998.7	2003 World Health Survey [Others Direct]
	3	177/.4	2003 WORD HEARTH SULVEY [OTHERS DIRECT]

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#			
		Data series name [source type]	
UDS.	obs. year		
3	2006.8	2007 Population Change and Family Planning Survey [Others Direct]	
3	2007.5	2008 Population Change and Family Planning Survey [Others Direct]	
3	2010.8	2011 Population Change and Family Planning Survey [Others Direct]	
3	2011.8	2012 Population Change and Family Planning Survey [Others Direct]	
3	2012.8	2013 Population Change and Family Planning Survey [Others Direct]	
3	2013.5	2014 Intercensal Demographic Survey [Others Direct]	
3	2014.8	2015 Population Change and Family Planning Survey [Others Direct]	
3	2016.5	2017 Population Change and Family Planning Survey [Others Direct]	
3	2017.5	2018 Population Change and Family Planning Survey [Others Direct]	
111	2017.5		
18	1995.5	1996 Demographic and Health Survey [DHS Direct]	
18	2000.8	2001-2002 Demographic and Health Survey [DHS Direct]	
18	2002.2	2003 World Health Survey [Others Direct]	
18	2006.2	2007 Demographic and Health Survey [DHS Direct]	
3	2010.3	2010 Census [Others Direct]	
18	2012.6	2013-2014 Demographic and Health Survey [DHS Direct]	
18	2017.5	2018 Demographic and Health Survey [DHS Direct]	
130	2016.5		
3	1992.1	1992 Census [Others Direct]	
18	1993.5	1994 Demographic and Health Survey [DHS Direct]	
3	1997.1	1997 Inter-Censal Demographic Survey [Others Direct]	
18	1998.7	1999 Demographic and Health Survey [DHS Direct]	
3	2002.1	2002 Census [Others Direct]	
16	2002.2	2003 World Health Survey [Others Direct]	
18	2004.6	2005-2006 Demographic and Health Survey [DHS Direct]	
18	2009.7	2010-2011 Demographic and Health Survey [DHS Direct]	
3	2012.1	2012 Census [Others Direct]	
9	2012.2	2014 Multiple Indicator Cluster Survey [Others Direct]	
18	2014.5	2015 Demographic and Health Survey [DHS Direct]	
3	2016.5	2017 Inter-Censal Demographic Survey [Others Direct]	
	3 3 3 3 3 3 3 3 3 3 3 18 18 18 18 130 3 18 3 18	# Most recent obs. year 3 2006.8 3 2007.5 3 2010.8 3 2011.8 3 2012.8 3 2013.5 3 2014.8 3 2016.5 3 2017.5 111 2017.5 18 1995.5 18 2000.8 18 2002.2 18 2006.2 3 2010.3 18 2012.6 18 2017.5 130 2016.5 3 1992.1 18 1993.5 3 1997.1 18 1998.7 3 2002.1 16 2002.2 18 2004.6 18 2009.7 3 2012.1 9 2012.2 18 2014.5	

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