



MATERNAL HEALTH AND SAFE MOTHERHOOD PROGRAMME



World Health Organization
Division of Family Health, Geneva

**MATERNAL MORTALITY
RATIOS AND RATES
A TABULATION OF AVAILABLE INFORMATION**

**THIRD EDITION
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A TABULATION OF AVAILABLE INFORMATION

Third edition

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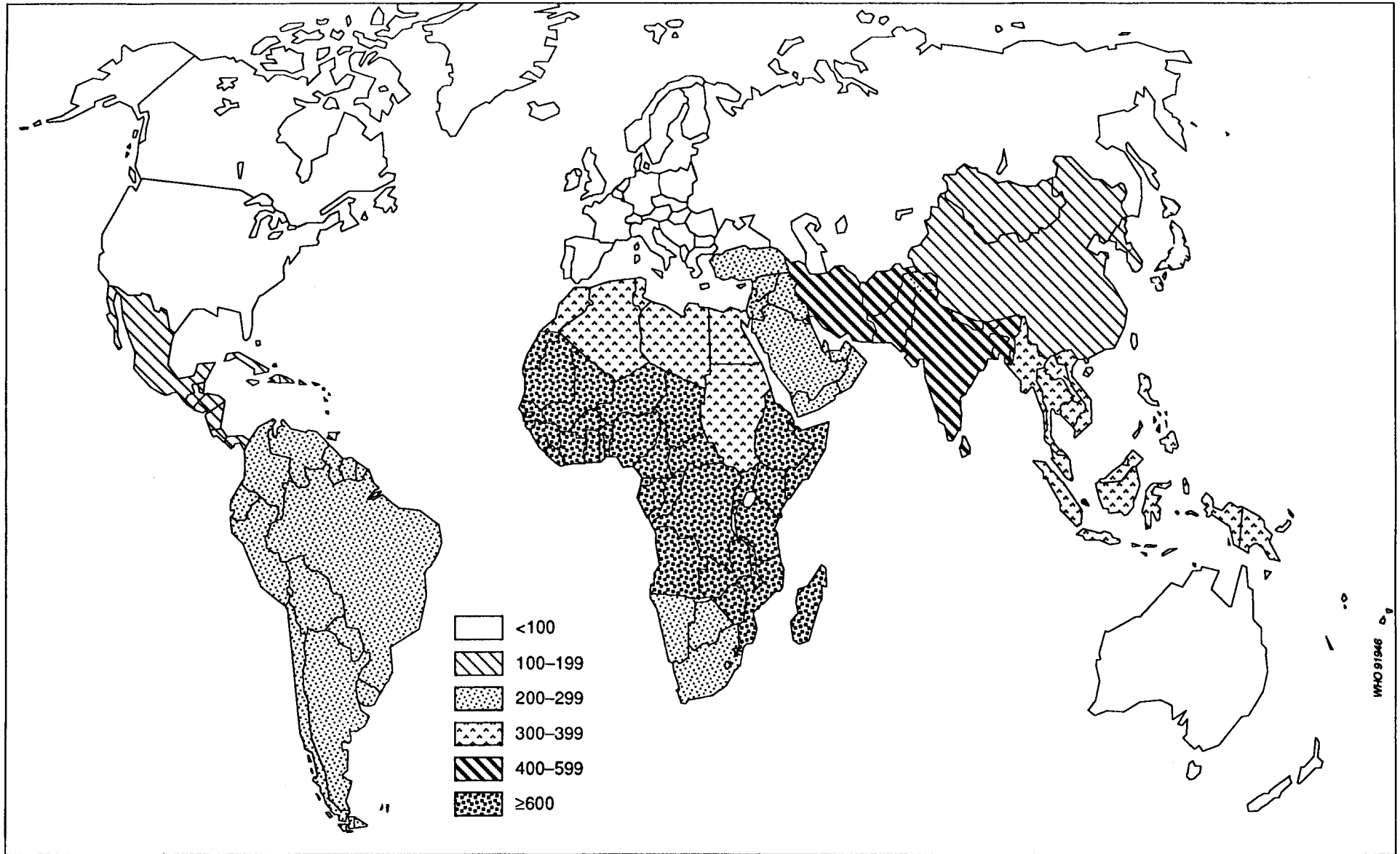
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Maternal mortality in developing countries by UN regions (around 1988)
(maternal deaths per 100 000 live births)



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FOR THE SECRETARY

1. INTRODUCTION

Maternal mortality is among the leading causes, if not *the* leading cause of death among women of reproductive age in most of the developing world, and has been given high priority in strategies for Health for All by the year 2000.

The importance of the problem is not always evident from official statistics. In areas where the problem is greatest, most maternal deaths go unregistered; either entirely so or their cause is not specified. There has therefore been a tendency to underestimate the gravity of the situation. There is now growing evidence from indirect measures that the problem of maternal mortality is vast. It is estimated that at least 500 000 women die as a result of pregnancy each year - most of them from preventable causes such as unsafe abortions or from lack of adequate health care.

The difficulty of measuring maternal mortality has long proved an impediment to progress in alerting health planners and others to the magnitude and causes of this problem and hence to effective interventions on an appropriate scale.

The tabulations contained in this document are drawn from the WHO maternal mortality database and represent an attempt to bring together all readily available information on maternal mortality, especially from countries for which such information is not published in international publications. The tabulations, which were originally compiled as part of a wider review of maternal mortality and morbidity were first issued in 1985 in response to the many requests received for information on maternal mortality. The favourable reception given to the tabulations has encouraged us to issue updated versions. The Second Edition comprised data available until the end of 1986 and the present document, the Third Edition, contains data available up to the end of 1991. The majority of the studies listed are described in detail in *Maternal Mortality: A Global Factbook*.¹ The data presented in this document are more concise. We hope they will prove useful to research and other workers in the field of women's health.

As in the previous editions, this document contains global estimates of maternal mortality. Since the last tabulations were published a considerable amount of new information - based on community studies and on better information systems - has become available and has made it possible to reassess the situation and update the estimates of maternal mortality formulated 5 years ago in preparation for the Safe Motherhood Conference of 1987. A number of interesting changes have emerged. These are described below. The country estimates upon which the regional and global figures were built, are derived from a model based on available data and may differ from figures reported by governments. WHO technical materials and assistance are at the disposal of countries wishing to assess their own situation with more precision.

The tabulations are as complete as it was possible to make them. There will inevitably be gaps where additional information exists of which we were not aware. Anyone having such information is strongly encouraged to send it to the Maternal Health and Safe Motherhood Programme, Division of Family Health, World Health Organization, 1211 Geneva 27, Switzerland, thus enabling us to improve the database.

This document is one of a series of informal information-exchange documents. Companion documents give information on the Coverage of Maternity Care (document number WHO/FHE/89.2), on the frequency and mortality of Unsafe Abortion (document number WHO/MCH/90.14) and on the Prevalence of Nutritional Anaemia in Women (in press).

¹ *Maternal Mortality. A Global Factbook*. Compiled by Carla AbouZahr and Erica Royston. World Health Organization, 1991. 608 pages (English only); ISBN 92 4 59001 7; Sw.fr.50.-/US\$45.00 (in developing countries: Sw.fr.35.-); Order No. 1930024.

2. OVERVIEW

2.1 The present day situation

On the basis of the data tabulated here it is possible to estimate that at least half a million women die from causes related to pregnancy and childbirth each year. All but about 4 000 of these deaths take place in developing countries which account for 87% of the world's births but 99% of the maternal deaths. (see Table 1.)

Maternal mortality ratios, (see explanation of terms used under Definitions in Section 4.1 below) which measure the risk of dying from a given pregnancy, are highest in Africa, with figures of up to 1 000 per 100 000 live births reported in several rural areas; ratios of over 500 have been reported in some cities. The risks of pregnancy are considerably higher in Western, Central and Eastern Africa than they are in Northern and Southern Africa. Overall in sub-Saharan Africa high maternal mortality ratios are compounded by high fertility - an average of 8 live births per woman and possibly 10 pregnancies per woman is not uncommon. An African woman's lifetime risk of dying from pregnancy-related causes is thus often greater than 1 in 20.

Maternal mortality in Southern Asia is also very high. Recent community studies in rural Bangladesh, for example, found ratios of approximately 600. In rural Andhra Pradesh, India, a 1984-85 study found a ratio of 874. Whilst fertility rates are not quite as high as in Africa, Southern Asia with its dense population accounts for nearly half of the world's maternal deaths for 29% of its births. In contrast, ratios in East Asia are quite low. A recent study from China, however, shows considerable variations, with a ratio of 50 in urban and 115 in rural areas. In remote rural areas the ratio was above 200. Ratios in Southeastern and Western Asia, whilst on average not as high as in Southern Asia, are still in excess of 700 in some areas.

Most of the data pertaining to Latin America are based on civil registration and therefore tend to be underestimates. A number of recent studies have made it possible to assess the degree of under-reporting, which in some cases is as high as 60%. This means that in many countries ratios are considerably higher than was previously thought. It is estimated that the average for this area is 200 per 100 000 live births. Except for some parts of the Caribbean, the risks of pregnancy are lower in Latin America than in Africa and most of Asia, despite a large number of abortion deaths.

The risk of dying as a result of a given pregnancy in the richest developed countries is at least 100 fold smaller than in the poorest countries in Africa and Asia. Maternal mortality ratios in Western and Northern Europe are about 10 or lower. In Southern and Eastern Europe they are slightly higher, but, with the notable exception of Romania which had, until recently, very high mortality due to abortions, they are rarely more than 30. Ratios in Australia, Canada, Japan, New Zealand and the USA are in line with those in Europe. Allowing for under registration, for which there is now ample evidence, it is estimated that the developed countries as a whole have a maternal mortality ratio of about 26 per 100 000 live births. Coupled with low fertility this means that only between 4,000 and 5,000 maternal deaths a year - one percent of the total - occur in the developed world and that a woman living in a developed country has only a 1 in 2 000 risk of dying from pregnancy-related causes.

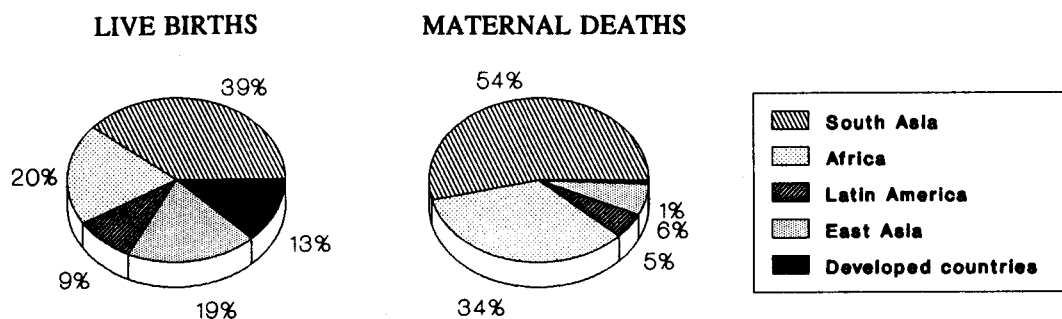


Table 1.

WHO ESTIMATES OF MATERNAL MORTALITY (around 1988)

REGION	LIVE BIRTHS Millions	MATERNAL DEATHS Thousands	MATERNAL MORTALITY		LIFETIME RISK	TOTAL FERTILITY
			Per 100 000 live births	Per 100 000 women		
WORLD	137.6	509	370	39	(1 in 73)	3.4
DEVELOPING COUNTRIES	120.3	505	420	50	(1 in 57)	3.8
DEVELOPED COUNTRIES*	17.3	4	26	1	(1 in 1,825)	1.9
AFRICA	26.7	169	630	116	(1 in 23)	6.1
Eastern	8.8	60	680	138	(1 in 20)	6.8
Middle	3.0	21	710	135	(1 in 20)	6.2
Northern	4.9	17	360	53	(1 in 52)	4.9
Southern	1.3	4	270	35	(1 in 74)	4.6
Western	8.7	66	760	154	(1 in 18)	6.8
ASIA*	81.2	310	380	39	(1 in 71)	3.4
Eastern*	24.6	30	120	8	(1 in 326)	2.3
South-eastern	12.5	42	340	37	(1 in 77)	3.5
Southern	39.6	224	570	80	(1 in 35)	4.6
Western	4.4	12	280	41	(1 in 67)	4.9
LATIN AMERICA	12.2	25	200	22	(1 in 131)	3.4
Caribbean	0.8	2	260	24	(1 in 122)	2.9
Central	3.5	6	160	19	(1 in 150)	3.7
South	8.0	17	220	23	(1 in 126)	3.3
NORTHERN AMERICA	4.0	1	12	1	(1 in 4,006)	1.8
EUROPE	6.4	1	23	1	(1 in 2,288)	1.7
OCEANIA*	0.2	1	600	79	(1 in 32)	4.8
USSR	5.2	2	45	3	(1 in 863)	2.3

* Japan, Australia and New Zealand have been excluded from the regional estimates, but are included in the total for developed countries. Maternal deaths and maternal mortality rates/ratios are WHO Estimates. Number of births for 1988 are estimates for 1985-90 from *UN Demographic indicators of countries: Estimates and projections as assessed in 1990*. New York, Department of International Economic and Social Affairs, United Nations, 1991.
Figures may not add to totals due to rounding.

2.2 Changes since 1983

Comparing the new information on maternal mortality with that available 5 years ago shows that pregnancy and childbirth have become safer for women in most of Asia and in parts of Latin America. In contrast, the situation has changed very little for women in most parts of sub-Saharan Africa where the increased number of births has led to a parallel increase in the number of maternal deaths. (see Table 2.)

Comparisons of the present estimates with those made 5 years ago must, however, be treated with caution, because it is not immediately apparent which of the changes are real and which are due to better information which has become available in the meantime. For example, in the earlier period the figure for China was thought to be around 50 deaths per 100 000 live births, but a recent nation-wide study has shown it to be nearer 100. The seemingly large declines in Northern and Southern Africa are also largely due to better information.

The risks associated with pregnancy and childbirth are, at the global level, about 5% lower than they were 5 years ago. However, because over the same period the number of births has increased by some 7%, the total *number* of maternal deaths remains almost unchanged. In developed countries the number of births has fallen slightly and the 13% fall in the maternal mortality ratio has led to an equivalent fall in the number of maternal deaths. Aside from areas where an apparent increase in maternal mortality is attributable to better information, such as in the Caribbean, the only real increases in maternal mortality have taken place in sub-Saharan Africa, where increases in the risks of pregnancy and childbirth (the maternal mortality ratio) have been aggravated by very large increases in the number of births. The resulting situation is the worst in the world and reflects the deteriorating economic and health conditions.

A number of good studies from Latin America have made it possible to assess the degree of underreporting in official figures and to make more reliable estimates of the current situation. With a few notable exceptions such as Haiti and Bolivia, most countries in the region have maternal mortality ratios lower than 200 deaths per 100 000 live births. The number of maternal deaths in the region as a whole appears to have declined by about one quarter. There are also signs of improvement in Asia, where falls in both the risks of pregnancy and the number of deaths are apparent in all sub-regions except Eastern Asia (see note about China above).

Table 2.
CHANGES IN MATERNAL MORTALITY
(around 1983 and 1988)

REGION	LIVE BIRTHS		MATERNAL DEATHS		MATERNAL MORTALITY	
	Millions		Thousands		Per 100 000 live births	
	1983	1988	1983	1988	1983	1988
WORLD	128.3	137.6	500	509	390	370
DEVELOPING COUNTRIES	110.1	120.3	494	505	450	420
DEVELOPED COUNTRIES*	18.2	17.3	6	4	30	26
AFRICA	23.4	26.7	150	169	640	630
Eastern	7.0	8.8	46	60	660	680
Middle	2.6	3.0	18	21	690	710
Northern	4.8	4.9	24	17	500	360
Southern	1.4	1.3	8	4	570	270
Western	7.6	8.7	54	66	700	760
ASIA*	73.9	81.2	308	310	420	380
Eastern*	21.8	24.6	12	30	55	120
South-eastern	12.4	12.5	52	42	420	340
Southern	35.6	39.6	230	224	650	570
Western	4.1	4.4	14	12	340	280
LATIN AMERICA	12.6	12.2	34	25	270	200
Caribbean	0.9	0.8	2	2	220	260
Central	3.7	3.5	9	6	240	160
South	8.0	8.0	23	17	290	220
NORTHERN AMERICA	4.0	4.0	1	1	12	12
EUROPE	6.6	6.4	2	1	27	23
OCEANIA*	0.2	0.2	2	1	300	600
USSR	5.2	5.2	3	2	50	45

* Japan, Australia and New Zealand have been excluded from the regional estimates, but are included in the total for developed countries. Maternal deaths and maternal mortality ratios are WHO Estimates. Number of births for 1983 are estimates for 1980-85 from *UN Demographic indicators of countries: Estimates and projections as assessed in 1980*. New York, Department of International Economic and Social Affairs, United Nations, 1982. Number of births for 1988 are estimates for 1985-90 from *UN Demographic indicators of countries: Estimates and projections as assessed in 1990*. New York, Department of International Economic and Social Affairs, United Nations, 1991. Figures may not add to totals due to rounding.

3. EXPLANATIONS

3.1 Definitions

In accordance with WHO usage and the definitions laid down by the International Classification of Diseases, previous editions of these tabulations used the term *maternal mortality rate* to describe the ratio of maternal deaths to live births, which measures the chance of dying from a given pregnancy. Considerable confusion has arisen because the term *maternal mortality rate* correctly relates maternal deaths to the number of women of reproductive age, and is widely used in this sense. To bring the terms used in this document in line with those used elsewhere the following definitions have been used in this edition of the tabulations:

Maternal mortality ratio - the number of maternal deaths divided by the number of live births.

Maternal mortality rate - the number of maternal deaths divided by the number of women of reproductive age.

In all instances, maternal mortality ratios are expressed as per 100 000 (live) births. The ratios are those given in the source and hence conform to the definition used by the author of the data. The exact definition used is not always clear, particularly as regards the inclusion of abortion-related deaths. Where the source specifically indicates that abortion is included this is indicated in column 11. Conversely, where abortion is specifically excluded this is also indicated.

3.2 Sources of information

The data presented in the tabulations, and the maternal mortality database of which they are a printout, are based on information readily available at the headquarters of the World Health Organization - in the library, in the documentation centres and in the possession of individual members of staff. All relevant data bases - e.g. MEDLINE, POPLINE - were searched, as were national yearbooks, the reports of consultants, needs assessment missions, evaluation studies, etc. Helpful colleagues around the world who know of our interest also provide information. The database is as complete as it was possible to make it with the resources available.

All data sources are listed in Section 6. For ease of identification and in order to avoid confusion, the four digit number of the source corresponds to its accession number on our database - the numbers listed in section 6 are therefore not contiguous.

Most of the country information summarised in the tabulations is analysed and described more fully in *Maternal Mortality: A Global Factbook*. (see footnote on page 1.)

3.3 Geographic coverage

All countries of the world are included in the database and some information is available for 145 of the 150 countries listed. These countries account for over 96% of all births in the world in 1985-1990. Emphasis was placed on obtaining information relating to countries which do not have well-developed and reliable registration systems. Countries are arranged by UN regions.

3.4 Methods of estimation.

The total fertility rate, as well as the annual number of births and the number of women of reproductive age which were both used to calculate the ratios, rates, lifetime risk and the number of deaths, are United Nations Population Division Estimates, as given in *UN Demographic indicators of countries: Estimates and projections as assessed in 1990*. New York, Department of International Economic and Social Affairs, United Nations, 1991.

The number of maternal deaths and hence the ratios, rates and lifetime risks, are WHO estimates. These were obtained as follows:-

For countries with good registration systems the maternal mortality ratio based on these was corrected for underreporting, using factors derived from several recent reproductive age mortality studies.

Where good community studies exist, the results of these were used. If necessary, the results were weighted for urban-rural and/or socio-economic differentials.

Where no reliable data - or indeed no data at all - were available, the logistic regression curve obtained by plotting maternal mortality ratios (based on good community studies or adequate registration data only) against a number of demographic indicators - particularly female life expectancy - and other development indicators, was used to estimate the ratios. Needless to say, all the ratios, including the estimated values so obtained, were weighted by the number of births or converted into the estimated number of deaths, before being added together to obtain regional and global estimates. The logistic curve also provided a useful tool for assessing whether ratios obtained from civil registers, studies or other sources are plausible.

The life-time risk was calculated using the maternal mortality ratio and the total fertility rate, increased by 10% to allow for pregnancy wastage.

3.5 Layout of the tabulations

Each line in the tables in Section 4 represents one survey, study or other piece of information. When a given source deals with more than one hospital, population group, or point in time, each is assigned one line.

From left to right the table shows:

- | | |
|--------------------|---|
| Column 1 | The name of the country and the location to which the ratios refer. |
| Column 2 | The year to which the data refer, or if this is not known, the year of publication of the information followed by the letter P. |
| Column 3 | shows ratios based on civil registers. |
| Columns 4, 5 and 6 | show ratios based on community data, i.e. relating to maternal deaths and births occurring in a given population, regardless of whether they took place in hospital or at home. |
| Columns 7, 8 and 9 | relate to hospital-based data. Where the information was given in the source the ratios are shown separately for booked patients (Column 7) and unbooked patients (Column 8). Where no separation is possible the ratio is shown in Column 9. In a few instance both disaggregated and aggregated ratios are shown. |
| Column 10 | shows ratios obtained from other sources, e.g. government estimates. |
| Column 11 | shows, where this is known, whether the data include abortion deaths. |
| Column 12 | lists the principle source of information. |
| Column 13 | contains notes most usually the name of the institution to which the data refer. |
| Column 14 | gives the source of information, detailed in section 6. |

3.6 Abbreviations.

abort.	abortion
CDC	Centres for Disease Control
D., Dem.	Democratic
DHS	Demographic and Health Survey
E	estimated
EMRO	WHO Eastern Mediterranean Regional Office
Excl.	Excluding
FIGO	International Federation of Gynaecology and Obstetrics
Govt	government
Hlth	health
Hosp.	hospital
IBRD	World Bank
ICMR	Indian Council of Medical Research
Incl.	including
Inst.	institutional
Mat.	maternity
N	northern
P	year of publication
PAHO	Pan American Health Organization
priv.	private
R., Rep.	Republic
RAMOS	Reproductive age mortality survey
S.	Socialist
U.	United
UN	United Nations
UNICEF	United Nations Children's Fund
UNFPA	United Nations Population Fund
Univ.	University
WHO	World Health Organization
WPRO	WHO Western Pacific Regional Office

4.

MATERNAL MORTALITY

TABULATIONS OF AVAILABLE INFORMATION

BY COUNTRY

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
EASTERN AFRICA													
BURUNDI													
COMOROS													
National	1980	500								Govt		2008	
DJIBOUTI													
National	1980s							700		WHO		1950	
National	1988							740		UNICEF		3222	
Djibouti & 4 rural areas	1989P				740				Incl.		Sisterhood method	2565	
National	1988							740		EMRO		3264	
ETHIOPIA													
National	1972												
Addis Ababa	1980-81					210	1050	2000		Incl.	UNFPA	Probably based on inst.data	0731
Addis Ababa	1980-85							960				Black Lion Hospital	0550
Addis Ababa	1981-83							964		Incl.		Black Lion Hospital	2247
Addis Ababa	1981-83		457					1268				Black Lion Hospital	0596
Addis Ababa	1981-83									Incl.		Household survey	1120
Addis Ababa	1981-83							452				Yekatit 12 Hospital	0596
Addis Ababa	1981-83							694		Incl.		Five hospitals	1803
Addis Ababa	1981-83							427				Gandhi, Paulos & Zweditu Hosp	0596
KENYA													
National	1970	204											0753
National	1977	168								Incl.	Govt		0386
Coastal Province	1987							300		Incl.	Govt		2230
Five rural areas	1975-79			84								Rural hospitals	
Kibwezi Maasailand	1990			440								Kambusu, Kingoti, Katheka, Kaitu, Ulaani	2073
Kwale District	1984-87							400-500				Sisterhood method. Thought to be an underestimate	2714
Kwale District	1987									Incl.		Two referral hospitals	2230
Nairobi	1977			657				510		Incl.		Networking	2230
Nairobi	1978					210	1170	350		Excl.		Kenyatta National Hospital	0017
Pumwani	1975-84							67		Excl.		Kenyatta National Hospital	1288
Thika	1981-88							190		Incl.		Maternity Hospital	2462
													2752
MADAGASCAR													
National	1974-75								127		WHO		0791

11. WSSS/401/11/6/6

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1979	300							240	Govt		0421	
National	1981								570	WHO		2008	
National	1986-88											2569	
Antananarivo	1986-88							257			Maternite de l'Hopital Joseph Andrianavalona	2509	
Antananarivo	1986-88								474		General Hospital	2569	
Befelatanana	1980-83											2509	
Firaisana of Belamoty	1988P			3594						Incl.		2509	
Toamasina	1977-85							495			Maternite d l'Hop Principal	2509	
Tulear, Betioky Sud	1987								1030			2509	
Tulear, Tolanaro	1987								400			2509	
MALAWI													
National	1975P	250										0904	
National	1980-84								250	WHO		2474	
National	1985							40-100		WHO	All health institutions	1338	
National	1985								180			2474	
National	1987								167			2474	
12 hospitals	1989								609			2472	
Central Region	1977								263	Incl.	All health institutions	0114	
Central Region	1977				103						Deaths at home probably under reported		
Central region	1987								180			0114	
Ekwendeni	1986-88								32			2474	
Lilongwe	1985								854	Incl.	Kamuzu Central Hospital	1563	
Mulanje	1989								411		Mission Hospital	2518	
Mulanje	1989-90								520	Excl.	Mulanje Mission Hospital	2976	
Northern region	1987											2474	
Six district hospitals	1983								269			0929	
Southern region	1987											2474	
Thyolo District	1985-89				420					Incl.		2484	
Thyolo District	1989			456							Sisterhood method	2565	
MAURITIUS													
National	1970-74	150										0443	
National	1975-79	117										0443	
National	1980	108										0443	
National	1982	99								Incl.		0753	
National	1983	55										0834	
National	1984								52	Incl.		1341	
National	1984	94										0834	
National	1985	104								Incl.		0753	
National	1985	103										0834	

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1986	126								Govt		0834	
National	1987	99								Govt		0834	
MOZAMBIQUE													
National	1981							300		Govt		1148	
Maputo	1984						371		Incl.		Maputo Central Hospital	0848	
REUNION													
National	1985	31										2255	
RWANDA													
National	1966-71										All institutions	1906	
National	1971						848				All institutions	1906	
National	1976						292				Public & private hospitals	0627	
National	1982						346		210	Govt		1296	
SOMALIA													
National	1981								1100	WHO		0816	
National	1987								1100	EMRO		3264	
U. REP. TANZANIA													
National	1977						250				All inst. deliveries	0319	
National	1979-89								185	Govt		2332	
National	1984-86								200			1627	
National	1986						342			Incl.	48 hospitals, all regions	1798	
4 regions	1983-84						378			Govt		1243	
Dar es Salaam	1972-73						182			Govt	Ocean Road Hospital	0212	
Dar es-Salaam	1974-77						213				Muhimbili Medical Centre	0471	
Dar es-Salaam	1983-84						680				Muhimbili Medical Centre	1322	
Dar-es-Salaam	1988-89						670				Muhimbili Medical Centre	3137	
Iringa District	1983-85			571								2093	
Iringa region	1985						259					0995	
Ludewa District	1976-79						484			Incl.	Lugarwa Mission Hospital	1578	
Mbeya region	1976-79						660			Incl.	Mbozi District Hospital	1578	
Mbeya region	1984						249			Govt		0995	
Moshi	1971-77						329			Incl.	Kilimanjaro Christ Med Centre	0043	
Moshi	1980-81						256				Kilimanjaro Christ Med Centre	1112	
Moshi region	1984						239			Govt		0995	
Mwanza	1975-76						386			Incl.	Bugando Hill Hospital	0469	
Mwanza	1981-82						230				Bugando Hill Hospital	1112	
Mwanza region	1984						457			Govt		0995	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Rural areas	1972-73							480				45 rural hospitals	0212
Southern Highlands	1983			78								Serious under reporting	1229
Southern Tanzania	1986-87							518				Sonega Regional Hospital	3112
UGANDA													
National	1966-67							397				All institutions	0242
National	1972-76							326				Government hospitals	0115
National	1984								300	Govt			0900
National	1989								400-700				2216
Kampala	1980-86							332		Incl.		5 major hospitals	1879
Kampala	1980-86							347		Incl.		5 Hospitals	1577
Kampala	1980-86							332		Incl.		5 hospitals	3279
Mbale	1971-80							377		Excl.		Mbale General Hospital	0841
ZAMBIA													
National	1975-79								100-140		Govt		1143
National	1977							229		Govt		All hospitals	0842
National	1979								140	Govt			0843
National	1980-81								106-109				1149
National	1982							100		WHO		All hospitals	1338
National	1983								151				1421
National	1983-88							105		Incl.		Six hospitals	2463
Eastern Province.	1980				122								1421
Kawamba District	1983-87							294		Excl.		Hospitals & health centres	2495
Luapula Province	1983-87							334		Excl.		Hospitals & health centres	2495
Lusaka	1976							170				Lusaka Univ. Teaching Hosp	0240
Lusaka	1982-83							118		Incl.		Lusaka Univ. Teaching Hosp	1149
Mansa District	1983-87							272		Excl.		Hospitals & health centres	2495
Mwense District	1983-87							132		Excl.		Hospitals & health centres	2495
Nchelenge District	1983-87							461		Excl.		Hospitals & health centres	2495
Samfya District	1983-87							577		Excl.		Hospitals & health centres	2495
ZIMBABWE													
National	1979							145			Govt	All hospitals	0845
National	1979								483	Govt			0845
National	1988								77	Govt			2561
Gweru	1982-84							194		Incl.		Gweru General Hospital	1976
Gweru	1984-86							57		Incl.		Gweru General Hospital	2481
Harare	1976						59	330		Incl.		Harare Hospital	0111
Harare	1983						29	56		Incl.		Maternity Hospital	1389
Harare	1987							122				Greater Harare Maternity	2755
OTHER AFRICA													
													1789

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
NORTHERN AFRICA													
ALGERIA													
National	1973								150-300				0028
National	1978							136		Govt	All institutions		0027
National	1981							129		Govt	Public maternity services		0025
15 western Wilayate	1987							75			Public hospitals		2500
Algiers	1977-84							105			Bab El Oued Teaching Hospital		1525
Hussein-Dey	1963-71										Maternity Hospital		2114
Oran	1971-80							322			All health institutions		2114
Oran	1975							122			All institutions		0233
Oran	1980							160			All health institutions		2114
Oran	1980							68					
EGYPT													
National	1970	107								Incl.	UN		0753
National	1970	90											0028
National	1975	73								Incl.	UN		0753
National	1977-83							266			Sample of health facilities		0571
National	1979	78								Incl.	Govt		0834
National	1980	80									Govt		0196
National	1981								500		WHO		0708
National	1982	79								Incl.	UN		0753
National	1987	60								Excl.	Govt		0834
Assiut Governorate	1985							309		Incl.		Hospital and health centre in El-Kossia	1771
Cairo	1976							396			Ain Shams University Hosp.		0424
Cairo	1980-84							279			Ain Shams University Hosp		2321
Cairo	1987P							670			Al-Galaa Maternity Hospital		2777
Giza	1985-86				150					Incl.		RAMOS	2396
Giza	1985-86							255			Boulak El-Dakroun Hospital		2396
Menoufia	1981-83			190						Incl.		RAMOS	1006
Menoufia	1981			263						Incl.			0226
National	1987	80								Excl.	EMRO		3264
Upper Egypt	1981-83											3 hospitals in Assiut, Suhag & Kena Governorates	1266
Upper Egypt	1981-83							386		Incl.		3 areas	1955
Upper Egypt	1984-85				300					Incl.		Assiut, Suhag & Kena Governorates	1266
LIBYAN A. J.													
National	1978								80		WHO		0149

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Benghazi	1981-84							21			Al Jamahiriya Hospital	1677	
National	1987								70	EMRO		3264	
MOROCCO													
National	1974								200-300			1902	
Casablanca	1978-80							327	Excl.	EMRO	C.H.U Averroes de Casablanca	0103	
National	1989	5							Excl.		Maternity Hospital	2114	
Oujda	1975-81							586	Excl.		C.H.U. de Rabat-Sale	1902	
Rabat	1976-77							200					
SUDAN													
National	1983								655			1735	
Gezira Province	1987				319						Retrospective household survey	2407	
Khartoum	1976-81							160	Incl.		Soba Univ. Teaching Hospital	0198	
Khartoum	1979-81							90			Khartoum North Hospital	1112	
Khartoum	1985		522									2405	
National	1976-89				456					DHS	Sisterhood	2584	
National	1980-89								947		Est. on basis of death rates	3228	
National	1984								550	EMRO		3264	
Northern Darfur	1980-82							1508	Excl.		El Fashir Civic Hospital	0272	
Omdurman	1968-70							523			All hospitals	0056	
Omdurman	1970							500			Maternity Services	0459	
Omdurman	1979-81							140	Excl.		Obdurman Maternity Hospital	1112	
Omdurman	1980-84							306	Excl.		Omdurman Hospital	1263	
Wad Medani	1979-81							600	Excl.		Wad Medani Hospital	1112	
Wad Medani	1988							1515	Excl.		Wad Medani Hospital	2406	
West Country	1974-76							2270	Excl.		El Obeid Hospital	0323	
TUNISIA													
National	1971								310	WHO		0817	
National	1971							72-1000			Hospital rates by governate	0309	
National	1975			1000						UNFPA		0748	
National	1982								39		Estimated on basis of female mortality rates	2487	
National	1987								50	UNICEF		3222	
National	1989							127		Govt	All hospitals	2562	
Bab El Oued	1977-84							104	Excl.		Bab El Oued Hospital	1525	
Bizerte	1971-82							104			Bizerte Maternity Hospital	2487	
Kasserine	1979-80							698			Kasserine Maternity Hospital	2487	
National	1988								70	EMRO		3264	
Sfax	1976-78							165			Sfax Maternity Hospital	0553	
Sfax	1979-83							55			Regional Hospital	2487	
Tunis	1963-72							167	Excl.		Aziza Othmana Hospital	0102	

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Tunis	1963-74											0814	
Tunis	1972-75									Excl.		0199	
Tunis	1975											0748	
Tunis	1975-84									UNFPA	La Rabta Hospital	2487	
Tunis	1980										Habib Thameur Hospital	0414	
Tunis	1985-89										La Rabta Hospital	2487	
WESTERN AFRICA													
BENIN													
National	1975										67 maternity centres	0219	
National	1975							168				1899	
National	1975							170		WHO		0028	
National	1981							160				1732	
National	1986										67 maternity centres	2490	
National	1987										217 maternity hospitals	2271	
Cotonou	1981										Univ. Clinic of Gyn/Obst	2490	
Cotonou	1982										Maternite de Cotonou	0219	
Cotonou	1987										University Clinic of Gyn/Obst	2490	
BURKINA FASO													
National	1986								350		UNICEF	Attended by trained persons	1910
National	1986								810		Govt		2095
National	1987								610		Govt		2995
CAPE VERDE													
National	1975	134											0753
National	1988								60	Incl.	UN UNICEF		3222
COTE D'IVOIRE													
Abidjan	1967-70											C.H.U. de Treichville	1900
Abidjan	1984											C.H.U. de Cocody.	1898
Abidjan	1988-89											C.H.U. de Treichville	2490
GAMBIA													
National	1973		111										0801
National	1984									1500	WHO WHO		1339
Farafenni	1982-83			2232								Prior to PHC programme	2333
Farafenni	1984-87			1019								Post-PHC programme	2333
Farafenni	1987			1005								Six villages. Sisterhood method	2355
Keneba	1951-75			1050								od	1007

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Manduar	1951-75			950							Longitudinal study	1007	
North Bank Division	1982-83			2226								1462	
Three regions	1985				1034					Incl. Excl.	Survey of married men. Eastern, Central & Western	1652	
West Kiang District	1951-75			1025							Longitudinal study in Kaneba and Manduar villages	1131	
GHANA													
National	1968							554		UNFPA		0986	
National	1974							390		WHO		0028	
National	1977P							500-1000				0036	
National	1978P			1400						Govt		0237	
National	1978							484		UNFPA		0986	
National	1983						413			Govt			
National	1984							500-1500		Govt	All health units and private maternity homes	1010	
Accra	1963-67						1074			Incl.	Census returns	1338	
Accra	1974							800			Maternity Hospital	0033	
Accra	1981-82						220					0503	
Accra Region	1989						690				Korle-Bu University Teaching Hospital	1112	
Ashanti	1983						1111				Three hospitals	3162	
											All health units and private maternity homes	1010	
Birim District	1989-90			725								3162	
Birim District	1990			800								2715	
Brong Ahafo	1983						400				All health units and private maternity homes	1010	
Central Region	1983						1190				All health units and private maternity homes	1010	
Danfa	1972			400						Incl.		1010	
Eastern Region	1983						272				All health units and private maternity homes	1280	
Greater Accra	1983						139				All health units and private maternity homes	1010	
Kassena Nankana District	1991P							813			All health units and private maternity homes	1010	
Upper Region	1983						506				All health units and private maternity homes	3124	
Volta Region	1983						822				All health units and private maternity homes	1010	
Western Region	1983						100				All health units and private maternity homes	1010	
GUINEA													
National	1987							800		UNICEF		3222	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Conakry	1980-86							833			Maternite d'Ignace Deen	2395	
Conakry	1982							630		Incl.	CHU Donka	1908	
Conakry	1986							1247			CHU Donka	1951	
Conakry	1989							900			Donka & Ignace Deen Hosps	2490	
Conakry	1989-90		559							Incl.	RAMOS	2757	
Gueckedou	1986							700				1908	
Kankan	1989							500-700				2415	
Kissidougou	1986							1120				1908	
Labe	1989							2000				2415	
GUINEA-BISSAU													
National	1986							700			Probably based on inst.data	1639	
National	1989-90										Registered births only	2759	
National	1989-90				914			779		Incl.	RAMOS	3223	
Bafata	1986							1974		Incl.	RAMOS	1639	
Bafata	1988-89				1490						Bafata Maternity Hospital	2756	
Bissau	1977							278			Pilot study	0096	
Bissau	1986-87							1200			Simao Mendes Mat.Hosp	1639	
Cachungo	1986							315			Cachungo Reg.Mat.Hosp	1639	
L'olio Region	1984-86							4075		Incl.	Farim Hospital	1639	
National	1979-83							760			All hospitals	1537	
LIBERIA													
National	1974							173			All hospitals	0211	
MALI													
National	1984							1750		Govt		1744	
Bamako	1979-81							11			Hamdallaye Mat.Hosp	1112	
Bamako	1979-88							1006			Hopital Gabriel Toure	2995	
MAURITANIA													
National	1970											0374	
National	1973											0374	
Nouakchott	1985-87							450				2995	
NIGER													
National	1980										Based on "expected" births	0697	
National	1982							420			All institutions	0586	
National	1988											2088	
Agadez	1982							304			All institutions	0586	
Diffa	1982							487			All institutions	0586	
Dosso	1982							476			All institutions	0586	
Maradi	1982							426			All institutions	0586	

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M A T E R N A L M O R T A L I T Y

(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Niamey	1982							263			All institutions	0586	
Niamey	1985-88							456			Maternite Centrale	2164	
Tahoua	1982							426			All institutions	0586	
Zinder	1982							612			All institutions	0586	
Zinder rural area	1988								860			2088	
NIGERIA													
National	1988								800		WHO	2480	
Aba, S.E. State	1970-71					535	9666	1741		Excl.	Aba Maternity Unit	0775	
Anambra State	1981-85							497		Incl.	Ten hospitals	2237	
Benin	1986-88							419		Incl.	Univ.of Benin Teach.Hosp	2419	
Benin City	1970-71							466		Incl.	General Hospital	0164	
Benin City	1973-85							563		Incl.	Univ.of Benin Teach.Hosp	2152	
Benin City	1981-82							160			Benin City Univ.Hosp	1112	
Benin City	1985-86					103	1407	334			Catholic Maternity Hospital	2404	
Calabar, S.E State	1964-65					316	12915	1891		Excl.	Calabar Maternity Unit	0775	
Enugu	1971-72							1350			Univ.of Nigeria Teach.Hosp	2419	
Ibadan	1962-71							820		Incl.	University College Hospital	0503	
Ibadan	1983-84							353		Excl.	University College Hospital	2371	
Ibadan	1983-84							200		Excl.	Oloyoro Catholic Hospital	2371	
Ibadan	1988							589		Incl.	University College Hospital	2419	
Ibadan city	1982					120	1420	310		Excl.	5 Hospitals	1658	
Ile-Ife	1966-75							683			Baptist Medical Centre	0049	
Ilesha	1958-70					285	2406	918		Excl.	Wesley Guild Hospital	0320	
Ilorin	1984-87							498		Excl.	Univ.of Ilorin Teach.Hosp	2411	
Ilorin	1988							258		Excl.	Univ.of Ilorin Teach.Hosp	2419	
Ilorin.	1972-83							450				1728	
Imesi-Ile	1961-69		172									0321	
Kaduna	1964-72							380		Excl.	Ahmadu Bello Univ. Hosp	0057	
Kaduna	1975-76							634		Excl.	Ahmadu Bello Hospital	0117	
Kaduna	1987-88							573		Incl.	Ahmadu Bello University	2419	
Kaduna, Ogun, Ondo & Oyo	1981-83								1500		Govt	1217	
Katsina	1974-81							600		Excl.	Maternity Hospital	1519	
Katsina	1988							4481		Excl.	Maternity Hospital	2419	
Lagos	1966-72							827		Incl.	Lagos Island Mat.Hosp	0023	
Lagos	1966-72							513		Excl.	Lagos Univ.Teach.Hosp	0023	
Lagos	1970-74					142	4660	344		Excl.	Lagos Univ.Teach.Hosp.	0504	
Ogun State	1984								800		WHO	1339	
Ondo	1973							720			General Hospital	0663	
Plateau Region	1978-80							411		Excl.	Jos Univ.Teach.Hosp	2488	
Sokoto	1985							1965		Incl.	Sokoto Univ.Teach.Hosp	2310	
Sokoto	1988							5998		Incl.	Univ.Teach.Hosp	2310	
Sokoto	1988							5998			Sokoto Univ.Teach.Hosp	2419	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Urua Akpan	1985										St. Mary's Hospital	2244	
Western State	1973										23 medical institutions	0506	
Zaria	1976-77										Ahmadu Bello Univ.Hosp	0516	
Zaria	1976-79					130	2860				Ahmadu Bello Univ.Hosp	1356	
Zaria	1988										Ahmadu Bello Univ.Hosp	2419	
SENEGAL													
National	1975								530			0160	
National	1981-85								600			1745	
24 villages	1988-89				948					Incl.		2459	
Bandafassi	1975-87								1285			1928	
Cap Vert	1986-87										3 Hospitals	1878	
Dakar	1971-75										Aristide Le Dantec	0160	
Dakar	1975									Excl.	Aristide Le Dantec	0706	
Dakar	1980-81										Centre Hosp.Abasse N'Dao	1112	
Dakar	1980-81										Centre Hosp.Abasse N'Dao	0551	
Dakar	1986-87									Incl.	Hopital Principale	1878	
Dakar	1986-87										Centre Hosp.Abbas N'dao	1878	
Dakar	1986-88										Aristide Le Dantec	1391	
Kaolack	1984-85										Rural areas	3195	
National	1988-89										Hospitals, health centres and health posts	2459	
Sine Saloum	1963-83										Longitudinal survey	0213	
Sine-Saloum	1983-86										Niakhar zone	1423	
SIERRA LEONE													
National	1981								450			0032	
National	1986								450		UNDP IBRD	1420	
Freetown	1970-72									Incl.	Connaught Hospital	0782	
Freetown	1980-81										Princess Christian Mat.Hosp.	1112	
TOGO													
National	1977								87	Excl.		0774	
National	1987								420		UNICEF	3222	
Lome	1974									Excl.	Centre Hosp.Univ.	1189	
Lome	1982-86									Incl.	Centre Hosp.Univ.	2490	
Lome	1985										Seven hospitals	2490	
MIDDLE AFRICA													
ANGOLA													
National	1973	113								Incl.	UN	0753	
C.AFRICAN REP.													
National	1983P								600		UNFPA	0751	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
CAMEROON													
National	1973							158				All health establishments	0422
National	1974							210		UNFPA			0729
National	1975							165				25 hospitals	0120
National	1980s								430	WHO			2490
Limba Province	1980s								570	WHO			2490
National	1978								303	WHO			0422
Yaounde	1977							201				Maternite Centrale	2271
Yaounde	1978							140				Maternite centrale	0422
Yaounde	1980-85							130		Incl.		Maternite Centrale	1680
Yaounde	1980							155				Central Maternity Hospital	2271
Yaounde	1982-86							36				University Teaching Hospital	2470
Yaounde	1985							65				Maternite Centrale	2018
CHAD													
National	1972								858		Govt		1907
National	1987								960		UNICEF		3222
National	1989							710				Hopital de N'Djamena	2995
N'Djamena	1986							833		Incl.		Maternity Hospital	2030
CONGO													
National	1971								1000		FIGO		0345
National	1986								900		UNICEF		3222
Three rural areas	1981							217					2393
Urban areas	1978-82							74		Incl.		Brazzaville & Pointe-Noire	2393
EQUAT. GUINEA													
National	1987P								430			Based on model life tables	1655
GABON													
National	1983								190		Govt		2389
Estuaire	1983								220		Govt		2389
Haut Ogooue	1983								160		Govt		2389
Libreville	1984-86							147		Incl.		Centre Hospitalier	1904
Libreville	1985							135			Govt	Two maternity hospitals	2389
Libreville	1987							169		Incl.		Centre Hospitalier	2420
Nyanga	1983								220		Govt		2389
Ogooue Ivindo	1983								990		Govt		2389
Ogooue Maritime	1983								40		Govt		2389
Woleu-Ntem	1983								530		Govt		2389
ZAIRE													
National	1980							200-800				All hospitals.	0496

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1987								800		UNICEF		3222
3 urban and rural areas	1986									Excl.			3074
Karawa	1981-83								630	Excl.		Cliniques Univ. Kinshasa, Bonzola & Boende Hospitals	0924
Karawa	1981-82								600			HopCommEvang Ubangi-Mongala	1112
Kinshasa	1961-80								69	Excl.		Karawa Christ. Miss. Hosp- Cliniques Univ. du Mont Amba	1909
Kinshasa	1972-81								261			Vanga Mission Hospital	1774
Kinshasa	1986								236	Excl.		Cliniques Univ. du Mont Amba	2021
Upper Zaire region	1981-82								464			Centre Med. Evang. Nyakunde	1461
Upper Zaire region	1981-84								412	Excl.		Aba Hospital	1461
Upper Zaire region	1982-84								178			Aru Hospital	1461
SOUTHERN AFRICA													
BOTSWANA													
National	1970								200-300		WHO		0801
National	1980								400		Govt		0280
National	1982								90		Govt	All hospitals	0252
National	1982-87								41			Official notifications prob. mostly institutional	2477
National	1989								200		UNICEF		3222
Kgalagadi District	1987				380								2477
National	1982-87								68	200-300	Govt		3282
LESOTHO													
National	1973								1600		FIGO		0345
SOUTH AFRICA													
National	1980-82								84	Incl.		267 hospitals	1520
Bloemfontein	1980-85					32	1113		287	Incl.		Pelonomi Hospital	2331
Cape Town	1972-77								50	Excl.		Peninsular Mat. & Neon. Servs	0762
Cape Town	1978-83								43			Peninsular Mat. & Neon. Servs	2153
Cape Town	1978-83								63	Incl.		Blacks	2153
Cape Town	1978-83								36	Incl.		Coloureds	2153
Cape Town	1980		34								Govt		0664
Durban	1953-71								170	Excl.		King Edward VIII Hospital	0165
Durban	1975-82								192	Incl.		King Edward VIII Hospital	0581
Durban	1978		20								Govt		0665
Pietermaritzburg	1973-75								454	Incl.		Edendale Hospital	0066
Umphambinyoni	1972-82				550								0406
SWAZILAND													
National	1982								120		WHO		1338

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1987							129			Excl.	All health institutions	1980
NORTHERN AMERICA													
CANADA													
National	1970	20											0827
National	1975	7									Incl.	WHO	0753
National	1978	6										WHO	0827
National	1980	8									Incl.	UN	0753
National	1982	2									Incl.	UN	0753
National	1985	4									Incl.	Govt	2722
National	1987	4									Incl.	Govt	2722
National	1988	5									Incl.	Govt	2722
Ontario	1985				9						Excl.	Govt	1986
USA													
National	1970	22									Incl.	WHO	0827
National	1975	13									Incl.	UN	0753
National	1979	10										WHO	0827
National	1980	9									Incl.	UN	0753
National	1983	8									Incl.	UN	0753
National	1985	8									Incl.	Govt	2722
National	1986	8									Incl.	Govt	1956
National	1987	7									Incl.	Govt	2722
Georgia	1975-76				23						Excl.		0619
Massachusetts	1980-84	35									Incl.	Record linkage survey	1734
Massachusetts	1980-84	10									Incl.	Non-white population	1734
New York	1981-83	36									Incl.	White population	2723
New York City	1980-84	40									Govt		3208
Oklahoma	1970-79	19									Incl.	White population	1790
Oklahoma	1970-79	93									Incl.	Black population	1790
Oklahoma	1970-79	23									Incl.	Indian population	1790
MIDDLE AMERICA													
BELIZE													
National	1984	49										Govt	2334
COSTA RICA													
National	1970	95									Incl.	WHO	0827
National	1975	70									Incl.	UN	0753
National	1979	42									Incl.	WHO	0827
National	1980	23									Incl.	Govt	0162

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1981	35											
National	1983	26							Incl.	UN			0753
National	1984	22							Incl.	UN			0753
National	1986	36							Incl.	Govt			1945
National	1987	20							Incl.	Govt			2827
National	1988	18							Incl.	Govt			2827
EL SALVADOR													
National	1970	101											
National	1980	71							Incl.	WHO			0827
National	1983	74							Incl.	UN			0753
National	1983-87								Incl.	UN			0753
National	1984	70						148	Incl.	WHO	22 public hospitals		2830
National	1984								Incl.	PAHO			1625
National	1985	59							300	Govt			2713
National	1985								Incl.	Govt			2827
GUATEMALA													
National	1970	157											
National	1970	160							Incl.	WHO			0827
National	1973	170							Govt				1598
National	1976	77							Govt				0245
National	1980	96							Incl.	UN			0753
National	1981	105							Incl.	WHO			0827
National	1984	79							Incl.	UN			0753
National	1984	76							Incl.	WHO			1625
National	1984								Incl.	UN			0753
National	1985	110							300	PAHO			2713
National	1986	113							Govt				1598
National	1986	132							Incl.	Govt			2827
National	1987	111											3011
National	1988	92							Incl.	Govt			2827
HONDURAS													
National	1970	174											
National	1974	127							Incl.	WHO			0827
National	1979	82							Govt				0328
National	1983	50							Incl.	WHO			0827
National	1983								Incl.	WHO			1625
National	1989-90								300	PAHO			2713
National	1989-90				221				Incl.	RAMOS			2776
MEXICO													
National	1966	150											
National	1970	143							Incl.	Govt			2158
National	1970								Incl.	WHO			0827

1989-90

M A T E R N A L M O R T A L I T Y

(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1975	113								UN		0753	
National	1978	103								UN		0753	
National	1980	94								Govt		2306	
National	1981	92								UN		0753	
National	1981	89								Govt		2306	
National	1982	91								WHO		1625	
National	1982	90								Govt		2306	
National	1983	82								Govt		2158	
National	1983	81								Govt		2306	
National	1985	64								Govt		2827	
National	1986	65								Govt		2827	
National	1986							200		PAHO		2713	
Mexico City	1969-73						357				Hospital de la Mujer	0711	
NICARAGUA													
National	1973	94								WHO		0827	
National	1978	65								UN		0834	
National	1979							190		UNICEF		3222	
National	1984	47								WHO		1625	
National	1986	12								Govt		2827	
National	1987								300	PAHO		2713	
IV Region	1988						219					2338	
PANAMA													
National	1970	135								WHO		0827	
National	1975	95								UN		0753	
National	1978	90								Govt		0519	
National	1980	73								WHO		0827	
National	1981	70								Govt		0900	
National	1982	90								UN		0753	
National	1984	49								WHO		1625	
National	1985	57								UN		0753	
National	1986	62								Govt		2827	
National	1987	38								Govt		2827	
National	1987							60		PAHO		2713	
CARIBBEAN													
ANTIGUA & BARBUDA													
National	1960	532								Govt		2334	
National	1983	20										2334	
BAHAMAS													
National	1970	94								WHO		0827	

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1975	50								UN		0753	
National	1979	37								WHO		0827	
National	1981	38								UN		0753	
National	1983	19								WHO		1625	
National	1984	57								UN		0753	
National	1987	69									Based on 3 deaths	2722	
BARBADOS													
National	1970	143								WHO		0827	
National	1975	21								UN		0753	
National	1980	24								WHO		0827	
National	1983	19								Govt		2334	
National	1984	69								WHO		1625	
National	1984	71								UN		0753	
National	1984	69								Govt		2334	
National	1988	27										2722	
CUBA													
National	1970	73								WHO		0827	
National	1970							70		Govt	All health institutions	1261	
National	1975	39								UN		0753	
National	1979	52								WHO		0827	
National	1981	40								Govt		0262	
National	1982	56								UN		0753	
National	1984	46								WHO		1625	
National	1984							31		Govt	All health institutions	1261	
National	1985	46								Govt		2827	
National	1986	52								Govt		2827	
National	1987	34								Govt		1989	
National	1987	49								Govt		2827	
National	1988	39								Govt		2827	
National	1990								36	PAHO		2713	
National 3 cities	1979-82	43								Govt	Havana, Holguin & Cienfuegos	2806	
DOMINICA													
National	1984	58								Govt		2334	
DOMINICAN REP.													
National	1970	102								WHO		0827	
National	1976	70								Govt		0182	
National	1978	56								WHO		0827	
National	1982	66								WHO		1625	
National	1984	74								PAHO		1998	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	94										2827	
National	1985							300	Incl.	Govt		2713	
National	1987	100							Incl.	PAHO Govt		2827	
GRENADA													
National	1984	142								Govt		2334	
National	1987-88	104									6 deaths	3275	
GUADELOUPE													
National	1971	129											
National	1978	106							Incl.	WHO		0827	
National	1979	103							Incl.	WHO		0827	
National	1979	103							Incl.	WHO		1625	
HAITI													
National	1974-78	367											
National	1978							1370		Govt UNFPA		0207	
National	1981									Govt	All hospitals	0271	
National	1984							164		Govt		0304	
National	1987							230	Incl.	PAHO		1912	
National	1987							340		UNICEF		3222	
National	1990P							600		PAHO		2713	
JAMAICA													
National	1970	106											
National	1972	121								WHO		0827	
National	1977	50								WHO		0827	
National	1977	50								UN		0360	
National	1981-83				108					RAMOS		0991	
National	1982	36								WHO		1625	
National	1984	26								Govt		2827	
National	1986-87				115						Review of all deaths	2699	
MARTINIQUE													
National	1970	140											
National	1975	27								WHO		0827	
National	1975	27								WHO		0827	
PUERTO RICO													
National	1970	27											
National	1975	4								WHO		0827	
National	1975	4								UN		0753	
National	1978-79				42						Nat. surv. preg.-related deaths		
National	1979	37										1301	
National	1980	8								CDC		0757	
National	1982	11								WHO		0827	
National	1982	11								UN		0753	
National	1982				40					RAMOS		3142	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1983	6								Incl.	WHO		1625
National	1984	10								Incl.	UN		0753
National	1987	17								Excl.	Govt		2827
National	1990P								21		PAHO		2713
National	1989	33-51								Incl.	Govt		3251
ST CHRIST & NEVIS													
National	1983	183									Govt		2334
ST LUCIA													
National	1983	26									Govt		2334
ST VINCENT													
National	1980	13									Govt		2334
TRINIDAD & TOBAGO													
National	1970	135									Incl.	WHO	0827
National	1975	128									Incl.	UN	0753
National	1977	81									Incl.	WHO	0827
National	1981	68									Incl.	WHO	1625
National	1983	54									Incl.	PAHO	1998
National	1984	28									Incl.	Govt	2827
National	1986	56									Incl.	Govt	2827
National	1986								111		PAHO		2713
National	1987	89									Incl.	Govt	2827
Port of Spain	1981-86							32			Excl.	Govt	Mt. Hope Maternity Hospital 1589
TROP. S. AMERICA													
BOLIVIA													
National	1973-77	480									WHO		0791
National	1973-77	480											2713
National	1985							200				All hospitals	3013
National	1986							154				All hospitals	3013
National	1987							210				All hospitals	3013
National	1988							247				All hospitals	3013
National	1989P				371							Sisterhood method	2585
National	1990								600		PAHO		2713
National	1990P								770			MEDICOM SRL	2809
Avaroa Province	1988P			1379								Sisterhood method	2565
Inquisivi	1989-90			1400									3259
BRAZIL													
National	1979P	134											0281

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1979	97								UN		0753	
National	1979-81									Incl.		2804	
National	1980	70						245		Govt	37 hospitals Fundacao SESP	1723	
National	1980								154		Adjusted for under reporting	1299	
National	1980	92								Incl.		0753	
National	1980	100								UN		0107	
National	1983	78								Govt		0753	
National	1984	120								UN		1999	
National	1987	140										2713	
National	1990								200	Govt		2713	
Centroeste	1984	121								PAHO		1999	
Goiania	1970-78							180			Maternidade Nossa Senhora de Lourdes	2119	
Goiania	1975-83							311			Hospital Geral de Goiania	2117	
Manaus	1974		310									0555	
Manaus	1980		140							Govt		1729	
Nordeste	1984	155										1999	
Norte	1984	313										1999	
Palmares	1980-82								60			2803	
Porto Alegre	1980		70							Govt		1729	
Recife	1974		220									0555	
Recife	1980		60							Govt		1729	
Ribeiro Preto	1970-74				75							0123	
Rio de Janeiro	1972		130									0555	
Rio de Janeiro	1977-83							194		Incl.	Hosp.Municipal Salgado Filho.	2055	
Rio de Janeiro	1978-87							177		Incl.	Municipal Hosp. Miguel Couto	2493	
Rio de Janeiro	1980		60							Govt		1729	
Santa Catarina State	1975-79							101			Florianopolis Hospital	0666	
Sao Paulo	1986		95							Incl.		1992	
Sao Paulo	1986		97							RAMOS		2287	
Sao Paulo St.	1973		74	99	91					RAMOS		0555	
Sao Paulo State	1980	55										2810	
Sao Paulo State	1984	49										2810	
Sud	1984	81										1999	
Sudeste	1984	70										1999	
Teresina	1980		150							Govt		1729	
COLOMBIA													
National	1970	230								Incl.	Govt	0827	
National	1977	134								Incl.	Govt	0827	
National	1981	126								Incl.	Govt	1625	
National	1984	107								Incl.	Govt	1697	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1984	100										2827	
National	1985	86										2827	
National	1986	74										2827	
National	1987							200		PAHO		2713	
Bogota	1971-73										Instituto Materno Infantil	0632	
Bogota	1976-80										Instituto Materno Infantil	2816	
Cali	1970				160							1988	
Cali	1984	89										0996	
Cali	1984				100							1988	
Department of Antioquia	1986	110										2429	
Medellin	1963-72										Hosp.Univ.S.Vicente de Paul	0371	
Medellin	1988-89		72							RAMOS		3220	
Valle del Cauca	1986	117								Govt		1988	
Valle del Cauca excl Cali	1984	115										0996	
ECUADOR													
National	1970	230										0827	
National	1978	216										0827	
National	1978	220										0191	
National	1980	160										1686	
National	1980	191										1625	
National	1982	163										1625	
National	1983							200		PAHO		1912	
National	1985	189										1686	
National	1986	160										2827	
National	1987	174										2827	
National	1988	156										2827	
National	1988								170	UNICEF		3222	
National	1991P							300		PAHO		2713	
Region Amazonica	1985	138										1686	
Region Insular	1985	571										1686	
FRENCH GUYANA													
National	1984	129								PAHO		1998	
GUYANA													
National	1971	160										0753	
National	1971	177								UN		0249	
National	1976	133								UN		0753	
National	1977	104								WHO		0827	
National	1979	35								WHO		1625	
National	1984	11								Govt		2827	
National	1984							200		PAHO		2713	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
PARAGUAY													
National	1970	559								Incl.	WHO		0827
National	1977	468									Govt		0521
National	1980	469								Incl.	WHO		0827
National	1984	274								Incl.	WHO		1625
National	1984	383								Incl.	UN		0753
National	1985	283											2387
National	1986	261								Incl.	Govt		2827
National	1986								300		PAHO		2713
National	1987	194								Incl.	Govt	Provisional data	2827
PERU													
National	1970	215								Incl.	WHO		0827
National	1978	103								Incl.	UN		0753
National	1978	153								Incl.	WHO		0827
National	1980	108								Incl.	WHO		1625
National	1982	85								Incl.	WHO		1625
National	1982	88								Incl.	UN		0753
National	1983	89								Incl.	Govt		2827
National	1983								300		PAHO		2713
National	1984P								314				1354
Lima	1988				286							Peri-urban.Sisterhood method	2565
SURINAME													
National	1970	71								Incl.	WHO		0827
National	1980	82								Incl.	WHO		0921
National	1982	89								Incl.	WHO		1625
VENEZUELA													
National	1970	92								Incl.	WHO		0827
National	1975	68								Incl.	UN		0753
National	1979	59									Govt		0768
National	1980	65								Incl.	WHO		0827
National	1981	52								Incl.	WHO		1625
National	1983	59								Incl.	WHO		1625
National	1985	58								Incl.	Govt		2827
National	1986	59								Incl.	Govt		2827
National	1987	55								Incl.	Govt		2827
National	1990P								200		PAHO		2713
Caracas	1973-74									Incl.		Matern.Concepcion Palacios	0019
Maracaibo	1961-67									Incl.		Armando Castillo Plaza Hosp	1826
TEMP. S. AMERICA													
ARGENTINA													
National	1970	139								Incl.	WHO		0827

M A T E R N A L M O R T A L I T Y

(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1979	85								UN		0753	
National	1979	78								UN		0834	
National	1981	69								WHO		1625	
National	1982	70										2827	
National	1983	60										2827	
National	1984	61										2827	
National	1985	59										2827	
National	1986	55										2827	
National	1990							140		PAHO		2713	
Cordoba	1987				180					RAMOS		2316	
Salta Province	1988	113										2793	
Salta Province	1989	98										2793	
CHILE													
National	1970	168								WHO		0827	
National	1972	163								Govt		0141	
National	1975	122								UN		0753	
National	1975	131								Govt		0607	
National	1977							137			Metropolitan Regions	0464	
National	1977		61								Metropolitan Regions	0464	
National	1980	73								WHO		0827	
National	1981	65								Govt		0900	
National	1981	68										1881	
National	1982	52								WHO		1625	
National	1983	55								Govt		0283	
National	1984	37								WHO		1625	
National	1985	50								Govt		2116	
National	1986	47								Govt		1989	
National	1987	48								Govt		2827	
National	1987							67		PAHO		2713	
Cautin Province	1988P				414						Indian pop.Sisterhood method	2565	
Concepcion	1975-79										Hospital Grant Benavente	1875	
Santiago de Chile	1961-69							277			Hospital Felix Bulnes	1932	
VIII Region Bio Bio	1987							86			44% rural area	2273	
URUGUAY													
National	1970	77								WHO		0827	
National	1975	69								UN		0753	
National	1978	49								WHO		0827	
National	1978	56								UN		0753	
National	1980	50								WHO		1625	
National	1982	37								WHO		1625	
National	1984	38								WHO		1625	

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M A T E R N A L M O R T A L I T Y

(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	45											2827
National	1986	26											2827
National	1987	28											2827
National	1990P								36	Incl.	Govt Govt Govt PAHO		2713
SOUTH EAST ASIA													
BURMA													
National	1989	100									Govt		3236
DEM. KAMPUCHEA													
National	1981								500		UNICEF		2608
EAST TIMOR													
INDONESIA													
National	1976								300		WHO		0829
National	1977-80												0138
National	1979							390		Excl.	Govt	12 teaching hospitals	2354
National	1980								80				0918
National	1980								300		IBRD		0787
National	1985-86								450		Govt		2001
National	1987								400				1784
Bali	1980-82			761									1260
Bandung	1970-72										RAMOS	Hasan Sadikin Hospital	0458
Cantral Java	1987			230									2163
Central Java	1986-87											70% rural villages	2163
Central Java	1986-87											Household survey.	2494
Central Java Prov.	1989											Sisterhood method	2565
East Java	1981											Surabaya Hospital	0641
Jenponto	1978-80			1076									2354
Manado	1969-73												0461
Mojokerto, East Java	1989P					85	832	189		Excl.		Gunung Wenang Hospital	2775
South Sulawesi	1978-80			530								Sisterhood method	2354
West Aceh	1986-87												3121
West Java Province	1989											Sisterhood method	2565
LAO, P.D.R.													
National	1989										Govt		2422
National	1990										WHO		2721
National	1991										WHO		3153
5 provinces & Vientiane	1989	282									Govt		2422

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
5 provinces & Vientiane Six Provinces	1990 1987	374						561		Govt Govt		2422 1948	
MALAYSIA													
National	1981	59								WHO		0870	
Kedah State	1984				120							2278	
Kerian	1976-80				110							0838	
Kerian	1983				109							2065	
Kuala Lumpur	1968-73							98			University hospital.	0397	
Kuala Lumpur	1982		14						Incl. Excl.			0173	
Peninsular	1970	148								Govt		2860	
Peninsular	1980	63								Govt		2860	
Peninsular	1982	50								WHO		1417	
Peninsular	1983	40							Incl.			1211	
Peninsular	1985	37							Excl.	Govt		2860	
Peninsular	1986				37				Excl.	Govt		1963	
Peninsular	1988	26							Incl.	Govt		2860	
Sabah	1986				21				Excl.	Govt		1963	
Sarawak	1978				43					Govt		0429	
Sarawak	1986				10				Excl.	Govt		1963	
Selangor	1982				76				Excl.			0173	
Selangor	1982-83				70				Excl.			1099	
West	1967-69							253	Excl.		Government hospitals	0438	
MYANMAR													
National	1970	130								Govt		0116	
National	1977		100							WHO		0804	
National	1978								120	IPPF		0167	
National	1980								140	WHO		0829	
National	1980	120							Excl.	Govt	Selected towns	0830	
National	1981P	170										0916	
National	1981	460									New registration system	1522	
National	1982							150		UNICEF		2608	
National	1985				135				Excl.	WHO	33,000 household sample	1289	
National	1985	90								Govt		2001	
North Okkalapa	1981P		80	230						Govt		0703	
Rangoon	1977							173	Incl.		Central Women's Hospital	0681	
Rangoon	1983-87							107	Incl.		Workers' Hospital	2361	
PHILIPPINES													
National	1971	131								WHO		0834	
National	1975	143								Govt		0536	
National	1977	142								WHO		0834	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1979	114										1137	
National	1980	125										0753	
National	1980-81							110	Incl.	Govt UN		2440	
National	1981	110										1347	
National	1983	90								WHO		0869	
National	1984	90								WHO		1747	
National	1984	80								Govt		2440	
National	1985-86							242	Incl.		78 Hospitals.	1892	
National	1987							100				2636	
National	1989							74				3153	
Manila	1972		71									0432	
S. REP. VIET-NAM													
National	1982							100		UNICEF		0917	
National	1983-85							576		Govt	All hospitals	0997	
National	1983	110								Govt		1417	
National	1986	142								Govt		1920	
National	1987	130								Govt		2774	
National	1989							120				3153	
Quang Ngai	1967-69							1060	Excl.		Provincial Hospital	0862	
Saigon	1972		378									0230	
Saigon	1972							276				0230	
South	1972				268							0230	
SINGAPORE													
National	1971	21								WHO		0834	
National	1975	30							Incl.	UN		0753	
National	1978-88							30	Incl.		Alexandra Hospital	2445	
National	1980	5							Incl.	UN		0753	
National	1981	5							Incl.	UN		0753	
National	1983	11										1345	
National	1985	5							Incl.	UN		0753	
National	1988	10							Incl.	Govt		2434	
THAILAND													
National	1971	210								WHO		0834	
National	1981	81							Incl.	WHO		0834	
National	1981	110								Govt		0918	
National	1983											1241	
National	1985	50						270		Govt		2001	
National	1986	30								Govt		2375	
Ayuthaya Province	1977-78			537							140 villages, Bang Pa-In Dist	1487	
Ayuthaya Province	1979-80			200							140 villages, Bang Pa-In Dist	1487	

M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Ayuthaya Province	1981-83			55							140 villages, Bang Pa-In Dist	1487	
Bangkok	1969-82										Ramathibodi Hospital	1503	
Bangkok	1973-77										Rajvithi Hospital	0602	
Bangkok	1973-77										Chulalongkorn Hospital	0602	
Bangkok	1973-77										Siriraj Hospital	0602	
Chonburi	1978				27					Govt		0695	
EASTERN ASIA													
CHINA													
National	1982	50								Govt		0837	
National	1984	44									National sample	1094	
National	1987							44		UNICEF		3222	
21 provinces	1984		25									1419	
21 provinces	1984			59								1419	
21 provinces	1984				49							1419	
30 provinces	1989		50	115	95					Incl.	Govt	3014	
4 provinces	1982			25-86						IBRD	Extension of 21 Prov.study	1363	
Beijing	1980		18									0913	
Beijing	1982		22							Govt		1363	
Beijing	1982	50								Govt		0837	
Beijing urban districts	1979-83					21				Incl.		1675	
Heilongjiang	1982								25	IBRD	World Bank Health Project	1361	
Henan Province	1988-89				147					Incl.		2704	
Jiangsu	1988-89				45					Incl.		2704	
Meiyun County	1985-88			114						Incl.		2640	
Ningxia	1982								86	IBRD	World Bank Health Project	1361	
Shangdong	1982								28	IBRD	World Bank Health Project	1361	
Shanghai	1962-71					11					International Peace Hosp	0835	
Shanghai	1980-87				25					Incl.	Govt	2079	
Shanghai	1981		22									1008	
Shanghai	1984		13	22	18					Excl.		1094	
Shanghai	1987		27	29	27					Excl.		2005	
Sichuan	1982								39	IBRD	World Bank Health Project	1361	
Taiwan	1980		19							Govt		0144	
Taiwan	1981-84	16								Excl.		1473	
HONG KONG													
National	1972	20								Incl.	UN	0834	
National	1975	2								Incl.	UN	0753	
National	1975-83					10				Incl.	Tsan Yuk Hospital	1481	
National	1981	8								Incl.	WHO	0834	
National	1982	1								Incl.	UN	0753	

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1984	6								Govt		1350	
National	1985	5								UN		0753	
National	1987	4								Govt		2722	
JAPAN													
National	1972	41								Incl.	WHO	0834	
National	1975	29								Incl.	UN	0753	
National	1980	20								Incl.	UN	0753	
National	1981	19								Incl.	WHO	0834	
National	1982	18									Govt	0364	
National	1983	15								Incl.	UN	0753	
National	1985	16									Govt	2722	
National	1987	12									Govt	2722	
National	1989	11								Incl.	Govt	3083	
National	1989	11									Govt	2722	
MACAU													
National	1982	40									Govt	1488	
MONGOLIA													
National	1976	100									WHO	0830	
National	1978	140										1231	
National	1981	100								Incl.		1522	
National	1988	140									Govt	2378	
National	1988								140		UNICEF	3222	
Ulan Bator	1985P	60-80										1295	
REPUBLIC OF KOREA													
National	1981	41								Incl.	Govt	0548	
National	1983	38									Govt	1348	
National	1985	34									WHO	1417	
SOUTH WEST ASIA													
BAHRAIN													
National	1977-86	34								Incl.	Govt	2258	
National	1981	19									Govt	0055	
National	1989	20									EMRO	3264	
CYPRUS													
DEM. YEMEN													
National	1979	1000									Govt	0650	

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National Aden.	1984P 1982-86	100						256		Incl.	Govt		0900 1676
IRAQ													
National	1977-89				117					Incl.		Sisterhood method	2728
National	1985								160		EMRO		3264
ISRAEL													
National	1962-71	32									Govt		0387
National	1971	15								Incl.	UN		0753
National	1980	5								Incl.	UN		0753
Rehovet	1972-76							28				Kaplan Hospital	0387
JORDAN													
National	1974							103				26 hospitals	0704
National	1979							48				26 hospitals	0704
National	1990	40									EMRO		3264
KUWAIT													
National	1973							35		Excl.		Kuwait Maternity Hospital	0556
National	1976	18									Govt		0424
National	1980							10				Kuwait Maternity Hospital	0715
National	1980	5											0715
National	1982	18								Incl.	UN		0753
National	1983	13								Incl.	UN		0753
National	1986	6									WHO		0884
National	1987	2											2722
LEBANON													
Beirut	1971-82					19	197	128		Incl.		American Univ.of Beirut	0441
OMAN													
National	1987	7									EMRO		3264
QATAR													
National	1977-81							19				Women's Hospital, Doha	0206
National	1982-85							10				Women's Hospital, Doha	1538
National	1989	9									EMRO		3264
SAUDI ARABIA													
National	1988	41									EMRO		3264
Asir Province	1976-79							100				King Faisal Hospital	0322

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
Riyadh	1978-80							52					0129
Riyadh	1981-83							21					3289
Riyadh	1984-86							29					3289
SYRIAN A. REP.													
National	1973	6											0834
National	1979								300-400	WHO			0685
National	1980	7								UN			0834
National	1984P								280	UNFPA			1414
National	1985	6								Govt			2722
National	1990				143								2781
Aleppo	1981							470					0216
Damascus	1981							138					0216
Damascus	1981							127					0216
National	1989								120	EMRO			3264
TURKEY													
National	1974												0934
National	1974-75								207				0512
National	1975-82								207				1265
National	1980							150		Govt	Urban areas.		1797
National	1981							113		Govt	All institutions		1797
National	1985P								208	Govt	All institutions		1265
National	1986P	208											1524
National	1986							79		Govt	All hospitals		3144
National	1989P				146						Sisterhood method		2565
Adiyaman Province	1986				91								1689
Ankara	1968-88							140					3252
Ankara	1971-81							64					2307
Eastern Provinces	1986				284								1687
K.Karas Province	1986												2086
K.Maraz Province	1986				284								1689
UNITED ARAB EMIRATES													
National	1985	13								EMRO			3264
YEMEN													
National	1979												0650
National	1985								1000				2711
National	1986							330					2711
National (South)	1989	1000			376					Govt	All institutions		2565
Aden	1986							286					1676
National Aden	1984								100	EMRO	Abood Maternity Hospital		3264

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National Sana'a North-eastern Yemen	1987 1985			1040					1000		EMRO	Yemen Arab Republic	3264 2711
MIDDLE S. ASIA													
AFGHANISTAN													
National	1975		400		690						Govt	Demographic survey	0011
National	1981								600				0231
National	1989								640		UNICEF		3222
National	1987								644		EMRO		3264
BANGLADESH													
National	1968								2540		Govt		0063
National	1978								1500		UNICEF		0688
National	1978								700		UNFPA		0726
National	1980								3000		WHO		0829
National	1985P								600		Govt		1087
4 Upazillas	1985-86			474						Incl.		Longitudinal surveillance	1505
Chandina, Gabtali & Tongi	1982-83								480				1386
Jamalpur district	1982-83				623					Incl.		Prospective study	1254
Jessore district	1986				300					Excl.		Based on only 5 deaths	2617
Matlab Thana	1967-68				769					Incl.		Pre-intervention	0131
Matlab Thana	1969-70				572					Incl.		Post-intervention	0131
Matlab Thana	1976-85				551					Incl.			1576
National	1970-90		770		470	570					Govt		3280
Tangail district	1982-83				566					Incl.		Prospective study.	1279
BHUTAN													
National	1983	773											2373
National	1984	1710									Govt		2001
National	1987								773				2373
18 districts	1990							1305		Excl.	Govt		2600
Eighteen districts	1990							1305		Excl.			2600
Thimphu	1977-87							809		Incl.		Thimphu General Hospital	2724
INDIA													
National	1975P	370											0366
National	1975		157								Govt		0339
National	1976	400-500									Govt		1235
National	1978-80		700	1360	1250						WHO		0829
National	1978	480									FOGSI		0175
National	1978-81							721		Incl.		41 teaching centres	0284
National	1984	460									Govt		1098

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	340								Govt		1522	
Ambala	1985-86			230						Incl.		2630	
Andhra Pradesh	1984-85		545	830	798					Incl.	Anantapur district	1259	
Bombay	1980		500									0680	
Bombay	1980-83										Nowrosjee Wadia Mat.Hosp	2007	
Calcutta	1966-68										NRS Medical College Hosp	0172	
Calcutta	1972-74										Eden Hospital	0615	
Calcutta	1981-85		120								Urban slum areas	1375	
Chandigarh	1981-85			150						ICMR		1375	
Delhi	1981-85		460							ICMR	Urban slum areas	1375	
Gujarat	1967-68										Baroda Medical College	2482	
Gujarat	1983-84										Baroda Medical College	2482	
Lucknow	1970-73					31	4360				Queen Mary's Hospital	0208	
Madras	1960-72										Govt. Erskine Hospital	0089	
Madras	1974-75		204									0605	
Madras	1974-75										4 teaching mat.instit.	0605	
Madras	1981-85		450							ICMR	Urban slum areas	1375	
Madurai, Tamil Nadu	1960-72		387								Govt. Erskine Hospital	0089	
Mysore	1967-71										Cheluvamba Hospital	0522	
New Delhi	1983-85										Safdarjung Hospital	3193	
Pachod, Maharashtra	1977-78			1200							Baseline survey	2732	
Pachod, Maharashtra	1981-82			440							Post-intervention survey	2732	
Pachod, Maharashtra	1987-88			210								2732	
Pondicherry	1971										Jipmer rural health centre	0169	
Pune	1981-84			260								1981	
Rajasthan Alwar	1974-79			592							Longitudinal study	0256	
Rural area	1985			595								1359	
Varansi	1981-85			530						ICMR		1375	
IRAN, ISLAMIC REP													
National	1985		77	233	136						10% sample	2702	
National	1986								120	Govt		1962	
National	1987		63	184	120					Govt	10% sample	2702	
Cities	1987		7							Govt	WHO databank	2722	
Fars Province	1963-69										Pahlavi University	0168	
Fars Province	1970-76										Pahlavi University	0099	
Isafahan	1971-75										Amin Maternity Hospital	0238	
National	1987								120	EMRO		3264	
National	1988		41	138	91					Govt	1% sample survey.	3254	
MALDIVES													
National	1985	330								Govt		2001	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1987	500								Govt		2068	
National	1988							480				2379	
NEPAL													
National	1983							853		Govt		2001	
Dhankuta District	1977			1657	2083							0649	
Jumla	1981											1369	
Kathmandu	1979-85						189		Excl.		Maternity Hospital	1691	
Kathmandu & 2 areas	1975-78				848							0634	
PAKISTAN													
National	1978P							600-800		Govt		0518	
National	1983P							600-800		IBRD		1216	
National	1984P							400-600				0297	
National	1988P				270						Sisterhood method	2565	
Faisalabad City	1989		86									2710	
Faisalabad District	1977				1007							2365	
Faisalabad District	1978-87				186						Selected areas	2365	
Islamabad	1975-84						170		Excl.		Fed.Govt.Hospital	1226	
Karachi	1979-83						2736		Incl.		Civil Hospital	1304	
Lahore	1984							560			Urban & adjacent rural areas	2894	
Lahore	1988							260			Urban & adjacent rural areas	2894	
National	1987							400	Excl.	EMRO		3264	
SRI LANKA													
National	1970	150								Incl.	Govt	0671	
National	1975	100								Govt		0910	
National	1978	80								Incl.	Govt	0671	
National	1979	80								Govt		1329	
National	1980	90								Govt		0910	
National	1985	60								Govt		2317	
National	1986	72								Govt		2317	
National	1987	80								Govt		2317	
Colombo	1982	25										0527	
OCEANIA													
AUSTRALIA													
National	1971	19								Incl.	WHO	0834	
National	1975	6								Incl.	UN	0753	
National	1980	10								Incl.	WHO	0834	
National	1981	11								Incl.	UN	0753	
National	1985	8								Incl.	UN	0753	

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	4							Incl.	Govt		2722	
National	1988	5							Incl.	Govt		2722	
Northern Territory	1968-80	133							Incl.		Aboriginals	2354	
FIJI													
National	1970	156										0223	
National	1978	86										0900	
National	1978	53							Incl.	WHO		0834	
National	1982	47								Govt		0876	
National	1985	41							Incl.	UN		0753	
National	1986	68							Incl.	Govt		2096	
NEW CALEDONIA													
National	1984	160								Govt		1488	
NEW ZEALAND													
National	1971	22										0834	
National	1975	23							Incl.	WHO		0753	
National	1980	14							Incl.	UN		0753	
National	1981	6							Incl.	UN		0753	
National	1983	20							Incl.	WHO		0834	
National	1983	20							Incl.	UN		0753	
National	1984	6							Incl.	UN		0753	
National	1985	14							Incl.	Govt	7 deaths	2722	
National	1987	13							Incl.	Govt	7 deaths	2722	
PAPUA NEW GUINEA													
National	1971-72							600-1000				0053	
National	1973-75							700				1868	
National	1976									Govt		0520	
National	1976-83		200	2000	800						Estimates	1230	
National	1980							900		Govt		0873	
National	1982P							700-1000		UN		0189	
National	1989							700			Estimates	2604	
National rural	1973-75			800								1868	
National urban	1973-75		200									1868	
Eastern Highlands	1964-73											0121	
Sepik District	1963-69			1596						Incl.	Goroka Base Hospital Longitudinal study	0677	
Simbu Province					746						Data from prov.hlth team	2335	
Simbu Province	1982-86							212			Hospitals and health centres	2335	
Tari, Southern Highlands	1977-83				460						Based on estimated births	1309	
SAMOA													
National	1982							200				1262	

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(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1986								400				3153
SOLOMON ISLANDS													
National	1984								10	Govt			1488
TONGA													
National	1986								42	Govt			2290
National	1987								37	Govt			2290
VANUATU													
National	1983								107	Govt			1488
NORTHERN EUROPE													
DENMARK													
National	1971	5								Incl. WHO			0834
National	1980	2								Incl. UN			0753
National	1981	4								Incl. WHO			0834
National	1987	9								Incl. Govt	5 deaths		2722
National	1988	3								Incl. Govt	2 deaths		2722
FINLAND													
National	1971	8								Incl. WHO			0834
National	1975	11								Incl. UN			0753
National	1980	2								Incl. UN			0753
National	1982	5								Incl. UN			0753
National	1985	6								Incl. UN			0753
National	1986	7								Incl. Govt	4 deaths		2722
National	1987	5								Incl. Govt	3 deaths		2722
National	1988	11								Incl. Govt	7 deaths		2722
ICELAND													
National	1971	48								Incl. WHO			0834
National	1975	23								Incl. WHO			0834
National	1981	0								Incl. Govt			1504
National	1985	0											2722
National	1988	0											2722
IRELAND													
National	1975	7								Incl. UN			0753
National	1980	7								Incl. UN			0753
National	1981	4								Incl. WHO			1440
National	1983	12								Incl. UN			0753

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	6								Govt	4 deaths	2722	
National	1987	3								Govt	2 deaths	2722	
NORWAY													
National	1971	20								Incl.		0834	
National	1975	7								UN		0753	
National	1980	12								UN		0753	
National	1981	2								WHO		0834	
National	1983	4								UN		0753	
National	1985	2								Govt	1 death.	2722	
National	1987	6								Govt	3 deaths	2722	
SWEDEN													
National	1971	8								Incl.		0834	
National	1975	2								UN		0753	
National	1980	8								UN		0753	
National	1981	4								WHO		0834	
National	1982	4								UN		0753	
National	1985	5								Govt	5 deaths	2722	
National	1987	5								Govt	5 deaths	2722	
UNITED KINGDOM													
National	1985	7								Incl.		2722	
National	1987	6								Govt		2722	
National	1988	6								Govt		2722	
England/Wales	1971	17								WHO		0834	
England/Wales	1975	13								UN		0753	
England/Wales	1980	11								UN		0753	
England/Wales	1981	9								WHO		0834	
England/Wales	1982	7								UN		0753	
England/Wales	1984	8								UN		0753	
N. Ireland	1975	11								UN		0753	
N. Ireland	1980	7								UN		0753	
N. Ireland	1981	4								WHO		0834	
N. Ireland	1984	11								UN		0753	
Scotland	1975	9								UN		0753	
Scotland	1980	14								UN		0753	
Scotland	1981	19								WHO		0834	
Scotland	1983	12								UN		0753	
Scotland	1985	14								UN		0753	
EASTERN EUROPE													
BULGARIA													
National	1971	34								Incl.	WHO	0834	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1975	28							Incl.	UN		0753	
National	1980	21							Incl.	UN		0753	
National	1982	18							Incl.	WHO		0834	
National	1983	22							Incl.	UN		0753	
National	1985	13							Incl.	UN		0753	
National	1986	25							Incl.	Govt		2722	
National	1987	20							Incl.	Govt		2722	
National	1988	9							Incl.	Govt		2722	
CZECHOSLOVAKIA													
National	1971	18							Incl.	WHO		0834	
National	1975	18							Incl.	UN		0753	
National	1981	14							Incl.	WHO		0834	
National	1982	8							Incl.	UN		0753	
National	1983	10							Incl.	Govt		1504	
National	1984	10							Incl.	UN		0753	
National	1985	8							Incl.	Govt		2722	
National	1986	11							Incl.	Govt		2722	
National	1987	7							Incl.	Govt		2722	
National	1988	13							Incl.	Govt		2722	
National	1989	10							Incl.	Govt		2722	
HUNGARY													
National	1971	35							Incl.	WHO		0834	
National	1975	27							Incl.	UN		0753	
National	1980	21							Incl.	UN		0753	
National	1981	18							Incl.	WHO		0834	
National	1982	28							Incl.	UN		0753	
National	1983	14							Incl.	Govt		1504	
National	1985	26							Incl.	Govt		2722	
National	1987	14							Incl.	Govt		2722	
National	1988	17							Incl.	Govt		2722	
POLAND													
National	1971	22							Incl.	WHO		0834	
National	1975	15							Incl.	UN		0753	
National	1980	12							Incl.	WHO		0834	
National	1984	14							Incl.	WHO		1440	
National	1985	11							Incl.	UN		0753	
National	1987	16								Govt		2722	
National	1989	11								Govt		2722	
ROMANIA													
National	1971	131							Incl.	WHO		0834	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1975	123								UN		0753	
National	1980	132								UN		0753	
National	1982	175								WHO		0834	
National	1983	170								Govt		1504	
National	1984	149								UN		0753	
National	1990	83								Incl.		3227	
SOUTHERN EUROPE													
ALBANIA													
GREECE													
National	1971	40								Incl.	WHO	0834	
National	1975	19								Incl.	UN	0753	
National	1980	18								Incl.	UN	0753	
National	1981	11								Incl.	WHO	0834	
National	1982	12								Incl.	UN	0753	
National	1982	12								Incl.		2014	
National	1984	9								Incl.		0753	
National	1985	7								UN		2722	
National	1987	5								Govt	5 deaths	2722	
National	1987	5								Govt		2722	
National	1987	5								Govt		2722	
National	1988	8								Govt		2722	
ITALY													
National	1971	52								Incl.	WHO	0834	
National	1975	26								Incl.	UN	0753	
National	1975-79	19								Govt		2051	
National	1978	17								Incl.	WHO	0834	
National	1980	13								Incl.	UN	0753	
National	1982	10								Incl.	UN	0753	
National	1985	8								Govt		2722	
National	1987	5								Govt		2722	
National	1988	8								Govt		2722	
MALTA													
National	1971	18								Incl.	WHO	0834	
National	1974-78	25								Incl.	Govt	1586	
National	1977	18								Incl.	WHO	0834	
National	1982	33								Incl.	UN	0753	
National	1983	0								Incl.	WHO	1440	
National	1989	0										2722	
PORTUGAL													
National	1971	55								Incl.	WHO	0834	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1975	43							Incl.	UN		0753	
National	1979	31							Incl.	WHO		0834	
National	1980	20							Incl.	UN		0753	
National	1982	22							Incl.	UN		0753	
National	1984	15								Govt		1097	
National	1985	10							Incl.	UN		0753	
National	1985	10								Govt		2722	
National	1987	12								Govt		2722	
National	1988	7								Govt		2722	
SPAIN													
National	1971	30								Incl.	WHO		0834
National	1975	22							Incl.	UN		0753	
National	1979	10							Incl.	WHO		0834	
National	1980	11							Incl.	UN		0753	
National	1985	4								Govt		2722	
National	1986	6								Govt		2722	
YUGOSLAVIA													
National	1971	49							Incl.	WHO		0834	
National	1975	29							Incl.	UN		0753	
National	1980	18							Incl.	UN		0753	
National	1981	27							Incl.	WHO		0834	
National	1982	15							Incl.	Govt		1504	
National	1982	22							Incl.	UN		0753	
National	1985	16								Govt		2722	
National	1987	11								Govt		2722	
National	1988	16								Govt		2722	
WESTERN EUROPE													
AUSTRIA													
National	1971	30							Incl.	WHO		0834	
National	1975	17							Incl.	UN		0753	
National	1980	8							Incl.	UN		0753	
National	1982	17							Incl.	WHO		0834	
National	1983	11							Incl.	UN		0753	
National	1985	7							Incl.	UN		0753	
National	1989	8							Incl.	OVT.		2722	
BELGIUM													
National	1971	21							Incl.	WHO		0834	
National	1975	12							Incl.	UN		0753	

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M A T E R N A L M O R T A L I T Y
(per 100,000 live births)

Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1981	10											0824
National	1982	7											1504
National	1984	9											0753
National	1986	3											2722
FRANCE													
National	1971	22											0834
National	1975	20											0753
National	1980	13											0753
National	1981	16											1504
National	1981	16											1440
National	1984	14											0753
National	1985	12											2722
National	1986	11											2722
National	1987	10											2722
National	1988	9											2722
GERMANY													
National F.R.	1975	40											0753
National F.R.	1971	51											0834
National F.R.	1980	21											0753
National F.R.	1981	20											0834
National F.R.	1983	11											0753
National F.R.	1984	11											1504
National F.R.	1985	11											0753
National F.R.	1985	11											2722
National F.R.	1987	9											2722
National F.R.	1989	5											2722
National G.D.R.	1973	27											0834
National G.D.R.	1989	12											2722
National G.D.R.	1975	23											0753
National G.D.R.	1976	22											0834
National G.D.R.	1979	23											0753
National G.D.R.	1983	17											0753
National G.D.R.	1985	16											0753
National G.D.R.	1985	17											2722
National G.D.R.	1987	12											2722
LUXEMBOURG													
National	1971	68											0834
National	1975	25											0753
National	1979	25											0834
National	1984	0											1440

M A T E R N A L M O R T A L I T Y													
(per 100,000 live births)													
Region, Country or Area	Year	Civil Register	Community Data			Hospital Data			Other	Abortion Deaths	Source	Notes	Ref.
			Urban	Rural	Both	Booked	Unbooked	Both					
National	1985	0								Incl.	UN		0753
National	1989	0											2722
NETHERLANDS													
National	1971	13								Incl.	WHO		0834
National	1975	11								Incl.	UN		0753
National	1980	9								Incl.	UN		0753
National	1981	8								Incl.	WHO		0834
National	1983	5								Incl.	UN		0753
National	1985	5								Incl.	UN		0753
National	1987	8									Govt		2722
National	1988	10									Govt		2722
SWITZERLAND													
National	1971	27								Incl.	WHO		0834
National	1975	13								Incl.	UN		0753
National	1980	5								Incl.	UN		0753
National	1981	7								Incl.	WHO		0834
National	1983	5								Incl.	UN		0753
National	1985	5								Incl.	UN		0753
National	1989	4								Incl.	Govt	3 deaths	2722
USSR													
National	1985	47								Incl.	Govt		1445
National	1986	48								Incl.	Govt		1445

World Health Organization. Extracted from FHE database.

as done 11/11/2014, P.26V

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