

## Measuring human development

### An introduction to Table 10

If development is to be measured by a comprehensive and inclusive assessment, then the need arises for a method of measuring human as well as economic progress. From UNICEF's point of view, there is a need for an agreed method of measuring the level of child well-being and its rate of change.

The under-five mortality rate (U5MR) is used in Table 10 (*pages 150–153*) as the principal indicator of such progress. In 2007, the number of children dying before their fifth birthday fell to 9.2 million. In comparison, in 1960, approximately 20 million children were dying every year – highlighting an important long-term decline in the global number of under-five deaths.

The U5MR has several advantages. First, it measures an end result of the development process rather than an 'input', such as school enrolment level, per capita calorie availability or the number of doctors per thousand population – all of which are means to an end.

Second, the U5MR is known to be the result of a wide variety of inputs: antibiotics to treat pneumonia; insecticide-treated mosquito nets to prevent malaria; the nutritional health and the health knowledge of mothers; the level of immunization and oral rehydration therapy use; the availability of maternal and child health services, including prenatal care; income and food availability in the family; the availability of safe drinking water and basic sanitation; and the overall safety of the child's environment.

Third, the U5MR is less susceptible to the fallacy of the average than, for example, per capita gross national income (GNI). This is because the natural scale does not allow the children of the rich to be one thousand times as likely to survive, even if the human-made scale does permit them to have one thousand times as much income. In other words, it is much more difficult for a wealthy minority to affect a nation's U5MR, and it therefore

presents a more accurate, if far from perfect, picture of the health status of the majority of children and of society as a whole.

The speed of progress in reducing the U5MR can be measured by calculating its average annual rate of reduction (AARR). Unlike the comparison of absolute changes, the AARR reflects the fact that the lower limits to U5MR are approached only with increasing difficulty. As lower levels of under-five mortality are reached, for example, the same absolute reduction obviously represents a greater percentage reduction. The AARR therefore shows a higher rate of progress for a 10-point reduction, for example, if that reduction happens at a lower level of under-five mortality. A fall in the U5MR of 10 points from 100 to 90 represents a reduction of 10 per cent, whereas the same 10-point fall from 20 to 10 represents a reduction of 50 per cent. (A negative value for the percentage reduction indicates an increase in the U5MR over the period specified.)

When used in conjunction with gross domestic product (GDP) growth rates, the U5MR and its rate of reduction can therefore give a picture of the progress being made by any country, territory or region, and over any period of time, towards the satisfaction of some of the most essential of human needs.

As Table 10 shows, there is no fixed relationship between the annual reduction rate of the U5MR and the annual rate of growth in per capita GDP. Such comparisons help to shed light on the relationship between economic advances and human development.

Finally, the table gives the total fertility rate for each country and territory and the corresponding average annual rate of reduction. It is clear that many of the nations that have achieved significant reductions in their U5MR have also achieved significant reductions in fertility.

# TABLE 10. THE RATE OF PROGRESS

Countries and territories	Under-5 mortality rank	Under-5 mortality rate			Average annual rate of reduction (%) <sup>a</sup>		Reduction since 1990 (%) <sup>b</sup>	GDP per capita average annual growth rate (%)		Total fertility rate			Average annual rate of reduction (%)	
		1970	1990	2007	1970-1990	1990-2007		1970-1990	1990-2007	1970	1990	2007	1970-1990	1990-2007
Afghanistan	2	320	260	257	1.0	0.1	1	-	-	7.7	8.0	7.1	-0.2	0.7
Albania	126	107	46	15	4.2	6.6	67	-0.7x	5.2	4.9	2.9	2.1	2.6	2.0
Algeria	75	220	69	37	5.8	3.7	46	1.6	1.4	7.4	4.7	2.4	2.3	4.0
Andorra	189	-	6	3	-	4.1	50	-	-	-	-	-	-	-
Angola	16	-	258	158	-	2.9	39	0.4x	2.9	7.3	7.2	6.5	0.1	0.6
Antigua and Barbuda	140	-	-	11	-	-	-	8.3x	1.7	-	-	-	-	-
Argentina	125	68	29	16	4.3	3.5	45	-0.7	1.5	3.1	3.0	2.3	0.1	1.7
Armenia	99	-	56	24	-	5.0	57	-	5.8	3.2	2.5	1.4	1.2	3.7
Australia	160	21	9	6	4.2	2.4	33	1.5	2.4	2.7	1.9	1.8	1.9	0.3
Austria	173	29	9	4	5.9	4.8	56	2.4	1.8	2.3	1.5	1.4	2.3	0.2
Azerbaijan	71	-	98	39	-	5.4	60	-	2.8	4.6	3.0	1.8	2.2	3.1
Bahamas	134	49	29	13	2.6	4.7	55	1.8	0.4x	3.6	2.6	2.0	1.6	1.5
Bahrain	145	82	19	10	7.3	3.8	47	-1.3x	2.4x	6.5	3.7	2.3	2.8	2.8
Bangladesh	58	238	151	61	2.3	5.3	60	0.6	3.1	6.4	4.4	2.9	1.9	2.5
Barbados	137	54	17	12	5.8	2.0	29	1.5	1.3x	3.1	1.7	1.5	3.1	0.6
Belarus	134	-	24	13	-	3.6	46	-	3.4	2.3	1.9	1.2	1.0	2.6
Belgium	166	24	10	5	4.4	4.1	50	2.2	1.8	2.2	1.6	1.6	1.7	-0.2
Belize	97	-	43	25	-	3.2	42	2.9	2.4	6.3	4.5	3.0	1.7	2.5
Benin	25	256	184	123	1.7	2.4	33	0	1.3	7.0	6.8	5.5	0.2	1.3
Bhutan	45	288	148	84	3.3	3.3	43	6.8x	5.2	6.7	5.9	2.2	0.6	5.7
Bolivia	61	243	125	57	3.3	4.6	54	-1.1	1.3	6.6	4.9	3.5	1.5	1.9
Bosnia and Herzegovina	132	82	22	14	6.6	2.7	36	-	10.8x	2.9	1.7	1.2	2.6	2.0
Botswana	69	144	57	40	4.6	2.1	30	8.2	4.2	6.6	4.7	2.9	1.7	2.8
Brazil	107	134	58	22	4.2	5.7	62	2.3	1.2	5.0	2.8	2.3	2.9	1.3
Brunei Darussalam	148	78	11	9	9.8	1.2	18	-2.2x	-0.3x	5.7	3.2	2.3	2.8	2.0
Bulgaria	137	33	18	12	3.0	2.4	33	3.4x	2.3	2.2	1.7	1.3	1.2	1.6
Burkina Faso	7	281	206	191	1.6	0.4	7	1.3	2.5	7.6	7.3	6.0	0.2	1.1
Burundi	10	219	189	180	0.7	0.3	5	1.1	-2.7	6.8	6.8	6.8	0.0	0.0
Cambodia	40	-	119	91	-	1.6	24	-	6.2x	5.9	5.8	3.2	0.1	3.5
Cameroon	18	215	139	148	2.2	-0.4	-6	3.3	0.6	6.2	5.9	4.4	0.2	1.8
Canada	160	22	8	6	5.1	1.7	25	2	2.2	2.2	1.7	1.5	1.5	0.5
Cape Verde	84	-	60	32	-	3.7	47	-	3.3	7.0	5.5	3.4	1.2	2.8
Central African Republic	12	232	171	172	1.5	0.0	-1	-1.3	-0.8	5.7	5.7	4.6	0.0	1.2
Chad	3	-	201	209	-	-0.2	-4	-1	2.4	6.5	6.7	6.2	-0.1	0.4
Chile	148	98	21	9	7.7	5.0	57	1.5	3.7	4.0	2.6	1.9	2.1	1.8
China	107	118	45	22	4.8	4.2	51	6.6	8.9	5.6	2.2	1.7	4.7	1.4
Colombia	112	105	35	20	5.5	3.3	43	2	1	5.6	3.0	2.2	3.1	1.8
Comoros	55	215	120	66	2.9	3.5	45	0.1x	-0.4	7.1	6.1	4.4	0.7	2.0
Congo	24	142	104	125	1.6	-1.1	-20	3.2	-0.2	6.3	5.4	4.5	0.8	1.0
Cook Islands	117	-	32	18	-	3.4	44	-	-	-	-	-	-	-
Costa Rica	140	83	18	11	7.6	2.9	39	0.7	2.5	5.0	3.2	2.1	2.3	2.4
Côte d'Ivoire	22	236	151	127	2.2	1.0	16	-1.9	-0.7	7.4	6.6	4.5	0.5	2.2
Croatia	160	42	13	6	5.9	4.5	54	-	3	2.0	1.7	1.3	0.9	1.3
Cuba	156	39	13	7	5.5	3.6	46	-	3.6x	4.0	1.8	1.5	4.2	0.9
Cyprus	166	31	11	5	5.2	4.6	55	5.9x	2.2	2.6	2.4	1.6	0.4	2.5
Czech Republic	173	24	12	4	3.5	6.5	67	-	2.4	2.0	1.8	1.2	0.5	2.3
Democratic People's Republic of Korea	62	70	55	55	1.2	0.0	0	-	-	4.0	2.4	1.9	2.6	1.5
Democratic Republic of the Congo	15	235	200	161	0.8	1.3	20	-2.4	-4.3	6.4	6.7	6.7	-0.3	0.0
Denmark	173	16	9	4	2.9	4.8	56	2	1.9	2.1	1.7	1.8	1.2	-0.5
Djibouti	22	-	175	127	-	1.9	27	-	-2.1	7.4	6.2	4.0	0.9	2.5
Dominica	140	60	18	11	6.0	2.9	39	4.7x	2.4	-	-	-	-	-
Dominican Republic	73	131	66	38	3.4	3.2	42	2.1	3.8	6.2	3.3	2.8	3.1	0.9
Ecuador	107	140	57	22	4.5	5.6	61	1.3	1.2	6.3	3.7	2.6	2.7	2.0
Egypt	77	236	93	36	4.7	5.6	61	4.3	2.5	6.2	4.4	2.9	1.7	2.4
El Salvador	99	162	60	24	5.0	5.4	60	-1.8	1.8	6.4	3.7	2.7	2.7	1.8
Equatorial Guinea	4	-	170	206	-	-1.1	-21	-	21.1	5.7	5.9	5.4	-0.2	0.5
Eritrea	50	237	147	70	2.4	4.4	52	-	-0.3x	6.6	6.2	5.1	0.3	1.2
Estonia	160	20	18	6	0.5	6.5	67	1.5x	5.2	2.1	1.9	1.5	0.4	1.6
Ethiopia	27	241	204	119	0.8	3.2	42	-	2.2	6.8	6.8	5.3	0.0	1.4
Fiji	117	-	22	18	-	1.2	18	0.6x	1.5x	4.5	3.4	2.8	1.5	1.2
Finland	173	16	7	4	4.1	3.3	43	2.8	2.8	1.9	1.7	1.8	0.3	-0.2

	Under-5 mortality rank	Under-5 mortality rate			Average annual rate of reduction (%) <sup>a</sup>		Reduction since 1990 (%) <sup>b</sup>	GDP per capita average annual growth rate (%)		Total fertility rate			Average annual rate of reduction (%)	
		1970	1990	2007	1970-1990	1990-2007		1970-1990	1990-2007	1970	1990	2007	1970-1990	1990-2007
France	173	18	9	4	3.5	4.8	56	2.2	1.6	2.5	1.8	1.9	1.7	-0.5
Gabon	40	—	92	91	—	0.1	1	0.3	-0.7	4.8	4.8	3.1	0.0	2.6
Gambia	34	311	153	109	3.5	2.0	29	0.9	0.2	6.7	6.0	4.8	0.5	1.4
Georgia	88	—	47	30	—	2.6	36	3.2	1.8	2.6	2.1	1.4	1.0	2.4
Germany	173	26	9	4	5.3	4.8	56	2.3x	1.4	2.0	1.4	1.4	1.9	0.0
Ghana	30	183	120	115	2.1	0.3	4	-2.1	2.1	6.7	5.8	3.9	0.7	2.3
Greece	173	32	11	4	5.3	6.0	64	1.3	2.7	2.4	1.4	1.3	2.5	0.5
Grenada	114	—	37	19	—	3.9	49	4.9	2.5	4.6	3.7	2.3	1.1	2.8
Guatemala	71	168	82	39	3.6	4.4	52	0.2	1.4	6.2	5.6	4.2	0.6	1.7
Guinea	17	326	231	150	1.7	2.5	35	0.3x	1.3	7.0	6.7	5.5	0.2	1.2
Guinea-Bissau	5	—	240	198	—	1.1	18	-0.2	-2.6	6.8	7.1	7.1	-0.2	0.0
Guyana	59	—	88	60	—	2.3	32	-1.5	3.1	5.6	2.6	2.3	3.8	0.6
Haiti	47	222	152	76	1.9	4.1	50	-0.3	-2.1	5.8	5.4	3.6	0.3	2.5
Holy See	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Honduras	99	169	58	24	5.3	5.2	59	0.8	1.5	7.3	5.1	3.3	1.7	2.5
Hungary	156	40	17	7	4.3	5.2	59	3	3.3	2.0	1.8	1.3	0.6	2.0
Iceland	189	16	7	3	4.1	5.0	57	3.2	2.4	3.0	2.2	2.0	1.6	0.3
India	49	190	117	72	2.4	2.9	38	2.1	4.5	5.4	4.0	2.8	1.5	2.0
Indonesia	86	172	91	31	3.2	6.3	66	4.7	2.3	5.5	3.1	2.2	2.8	2.1
Iran (Islamic Republic of)	83	191	72	33	4.9	4.6	54	-2.3	2.5	6.6	5.0	2.0	1.3	5.3
Iraq	66	125	53	44	4.3	1.1	17	—	—	7.2	5.9	4.3	1.0	1.9
Ireland	173	23	9	4	4.7	4.8	56	2.8	5.8	3.9	2.1	2.0	3.1	0.4
Israel	166	29	12	5	4.4	5.1	58	1.9	1.7	3.8	3.0	2.8	1.2	0.4
Italy	173	33	10	4	6.0	5.4	60	2.8	1.2	2.4	1.3	1.4	3.1	-0.3
Jamaica	86	62	33	31	3.2	0.4	6	-1.3	0.8	5.5	2.9	2.5	3.1	1.1
Japan	173	17	6	4	5.2	2.4	33	3	0.9	2.1	1.6	1.3	1.3	1.3
Jordan	99	107	40	24	4.9	3.0	40	2.5x	2	7.9	5.5	3.1	1.8	3.3
Kazakhstan	84	88	60	32	1.9	3.7	47	—	3.2	3.5	2.8	2.3	1.1	1.3
Kenya	26	156	97	121	2.4	-1.3	-25	1.2	0	8.1	5.9	5.0	1.6	1.0
Kiribati	57	—	88	63	—	2.0	28	-5.3	1.8	—	—	—	—	—
Kuwait	140	59	15	11	6.8	1.8	27	-6.8x	1.1x	7.2	3.5	2.2	3.6	2.8
Kyrgyzstan	73	—	74	38	—	3.9	49	—	-0.5	4.9	3.9	2.5	1.2	2.7
Lao People's Democratic Republic	50	218	163	70	1.5	5.0	57	—	4.2	6.4	6.2	3.2	0.2	3.9
Latvia	148	20	17	9	0.8	3.7	47	3.4	4.7	1.9	1.9	1.3	0.0	2.3
Lebanon	91	54	37	29	1.9	1.4	22	—	2.5	5.1	3.1	2.2	2.4	2.1
Lesotho	45	171	102	84	2.6	1.1	18	3.1	1.8	5.8	4.9	3.4	0.8	2.2
Liberia	20	284	205	133	1.6	2.5	35	-4.2	1.9	6.9	6.9	6.8	0.0	0.1
Libyan Arab Jamahiriya	117	160	41	18	6.8	4.8	56	-4.9x	—	7.6	4.8	2.8	2.3	3.3
Liechtenstein	189	—	10	3	—	7.1	70	—	—	—	—	—	—	—
Lithuania	151	22	16	8	1.6	4.1	50	—	3	2.3	2.0	1.3	0.7	2.7
Luxembourg	189	23	9	3	4.7	6.5	67	2.7	3.2	2.0	1.6	1.7	1.1	-0.3
Madagascar	32	180	168	112	0.3	2.4	33	-2.4	-0.4	6.8	6.2	4.8	0.4	1.5
Malawi	33	334	209	111	2.3	3.7	47	-0.1	0.3	7.3	7.0	5.6	0.2	1.2
Malaysia	140	70	22	11	5.8	4.1	50	4	3.2	5.6	3.7	2.6	2.0	2.1
Maldives	88	—	111	30	—	7.7	73	—	5.5x	7.0	6.2	2.6	0.6	5.1
Mali	6	372	250	196	2.0	1.4	22	-0.3	2.2	7.5	7.4	6.5	0.0	0.8
Malta	166	28	11	5	4.7	4.6	55	6.5	2.7x	2.1	2.0	1.4	0.0	2.4
Marshall Islands	64	—	92	54	—	3.1	41	—	-2	—	—	—	—	—
Mauritania	27	233	130	119	2.9	0.5	8	-0.9	0.6	6.6	5.8	4.4	0.6	1.6
Mauritius	126	86	24	15	6.4	2.8	38	5.1x	3.7	3.7	2.2	1.9	2.5	1.1
Mexico	78	111	52	35	3.8	2.3	33	1.6	1.6	6.7	3.4	2.2	3.4	2.5
Micronesia (Federated States of)	69	—	58	40	—	2.2	31	—	-0.2	6.9	5.0	3.8	1.7	1.6
Moldova	117	65	37	18	2.8	4.2	51	1.8x	-1.3	2.6	2.4	1.4	0.3	3.2
Monaco	173	—	9	4	—	4.8	56	—	—	—	—	—	—	—
Mongolia	67	—	98	43	—	4.8	56	—	2.2	7.5	4.1	1.9	3.0	4.6
Montenegro	145	—	16	10	—	2.8	38	—	3.4x	2.4	2.0	1.8	0.9	0.6
Morocco	81	184	89	34	3.6	5.7	62	2	2	7.1	4.0	2.4	2.8	3.1
Mozambique	14	277	201	168	1.6	1.1	16	-1x	4.1	6.6	6.2	5.2	0.3	1.1
Myanmar	36	179	130	103	1.6	1.4	21	1.5	6.8x	6.1	3.4	2.1	2.8	3.0
Namibia	53	126	87	68	1.9	1.4	22	-2.3x	1.8	6.5	5.8	3.2	0.5	3.5
Nauru	88	—	—	30	—	—	—	—	—	—	—	—	—	—

# TABLE 10. THE RATE OF PROGRESS

	Under-5 mortality rank	Under-5 mortality rate			Average annual rate of reduction (%) <sup>a</sup>		Reduction since 1990 (%) <sup>b</sup>	GDP per capita average annual growth rate (%)		Total fertility rate			Average annual rate of reduction (%)	
		1970	1990	2007	1970-1990	1990-2007		1970-1990	1990-2007	1970	1990	2007	1970-1990	1990-2007
Nepal	62	237	142	55	2.6	5.6	61	1.2	1.9	5.9	5.2	3.3	0.6	2.6
Netherlands	166	16	8	5	3.5	2.8	38	1.5	2.1	2.4	1.6	1.7	2.2	-0.6
New Zealand	160	21	11	6	3.2	3.6	45	0.8	2	3.1	2.1	2.0	2.0	0.2
Nicaragua	78	165	68	35	4.4	3.9	49	-3.7	1.9	6.9	4.8	2.8	1.9	3.2
Niger	11	318	304	176	0.2	3.2	42	-2.2	-0.6	8.1	7.9	7.2	0.1	0.5
Nigeria	8	265	230	189	0.7	1.2	18	-1.4	1.2	6.9	6.8	5.4	0.1	1.3
Niue	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norway	173	16	9	4	2.9	4.8	56	3.2	2.6	2.5	1.9	1.8	1.5	0.1
Occupied Palestinian Territory	95	-	38	27	-	2.0	29	-	-2.9x	7.9	6.4	5.2	1.0	1.3
Oman	137	200	32	12	9.2	5.8	63	3.3	2.2x	7.2	6.6	3.0	0.4	4.6
Pakistan	43	184	132	90	1.7	2.3	32	3	1.6	6.6	6.3	3.5	0.2	3.4
Palau	145	-	21	10	-	4.4	52	-	-	-	-	-	-	-
Panama	104	68	34	23	3.5	2.3	32	0.3	2.6	5.3	3.0	2.6	2.8	0.9
Papua New Guinea	56	156	94	65	2.5	2.2	31	-0.7	-0.6	6.2	4.8	3.8	1.2	1.3
Paraguay	91	75	41	29	3.0	2.0	29	2.8	-0.3	5.7	4.5	3.1	1.2	2.2
Peru	112	170	78	20	3.9	8.0	74	-0.6	2.7	6.3	3.9	2.5	2.4	2.6
Philippines	94	89	62	28	1.8	4.7	55	0.8	1.7	6.3	4.3	3.3	1.8	1.7
Poland	156	35	17	7	3.6	5.2	59	-	4.4	2.2	2.0	1.2	0.4	3.0
Portugal	173	66	15	4	7.4	7.8	73	2.6	1.9	2.8	1.5	1.5	3.0	0.3
Qatar	126	51	26	15	3.4	3.2	42	-	-	6.9	4.4	2.7	2.3	2.9
Republic of Korea	166	54	9	5	9.0	3.5	44	6.2	4.4	4.5	1.6	1.2	5.2	1.7
Romania	126	52	32	15	2.4	4.5	53	0.9x	2.3	2.9	1.9	1.3	2.0	2.3
Russian Federation	126	40	27	15	2.0	3.5	44	-	1.2	2.0	1.9	1.3	0.3	2.0
Rwanda	9	223	195	181	0.7	0.4	7	1.1	1.1	8.2	7.6	5.9	0.4	1.5
Saint Kitts and Nevis	117	-	36	18	-	4.1	50	6.3x	2.8	-	-	-	-	-
Saint Lucia	117	66	21	18	5.7	0.9	14	5.3x	1.3	6.1	3.3	2.2	3.0	2.5
Saint Vincent and the Grenadines	114	72	22	19	5.9	0.9	14	3.3	3	6.0	3.0	2.2	3.5	1.8
Samoa	95	101	50	27	3.5	3.6	46	-	2.6	6.1	4.8	4.0	1.2	1.0
San Marino	173	-	13	4	-	6.9	69	-	-	-	-	-	-	-
Sao Tome and Principe	38	104	101	99	0.1	0.1	2	-	-	6.5	5.4	3.9	0.9	1.9
Saudi Arabia	97	185	44	25	7.2	3.3	43	-1.5	0.3	7.3	5.8	3.4	1.1	3.2
Senegal	31	276	149	114	3.1	1.6	23	-0.7	1.1	7.0	6.6	4.7	0.3	1.9
Serbia	151	-	-	8	-	-	-	-	2.6x	2.4	2.1	1.8	0.6	1.0
Seychelles	134	59	19	13	5.7	2.2	32	2.9	1.4	-	-	-	-	-
Sierra Leone	1	371	290	262	1.2	0.6	10	-0.4	-0.4	6.5	6.5	6.5	0.0	0.0
Singapore	189	27	8	3	6.1	5.8	63	5.6	3.8	3.0	1.8	1.3	2.7	1.9
Slovakia	151	31	15	8	3.6	3.7	47	-	3.3	2.5	2.0	1.2	1.0	2.9
Slovenia	173	29	11	4	4.8	6.0	64	-	3.5	2.3	1.5	1.3	2.0	1.0
Solomon Islands	50	-	121	70	-	3.2	42	3.4	-1.6	6.9	5.9	3.9	0.8	2.4
Somalia	19	-	203	142	-	2.1	30	-0.9	-	7.3	6.8	6.1	0.3	0.6
South Africa	60	113	64	59	2.8	0.5	8	0.1	1	5.6	3.6	2.7	2.2	1.7
Spain	173	25	9	4	5.1	4.8	56	1.9	2.4	2.9	1.3	1.4	3.9	-0.2
Sri Lanka	110	100	32	21	5.7	2.5	34	3	3.9	4.4	2.5	1.9	2.7	1.7
Sudan	34	168	125	109	1.5	0.8	13	0.1	3.6	6.6	6.0	4.3	0.5	1.9
Suriname	91	-	51	29	-	3.3	43	-2.4x	1.8	5.7	2.7	2.4	3.6	0.7
Swaziland	40	199	96	91	3.6	0.3	5	3.1	-0.3	6.9	5.7	3.5	0.9	2.9
Sweden	189	13	7	3	3.1	5.0	57	1.8	2.2	2.0	2.0	1.8	0.1	0.7
Switzerland	166	18	8	5	4.1	2.8	38	1.2	0.7	2.0	1.5	1.4	1.4	0.5
Syrian Arab Republic	123	128	37	17	6.2	4.6	54	2	1.5	7.6	5.5	3.1	1.6	3.4
Tajikistan	54	138	117	67	0.8	3.3	43	-	-2.2	6.9	5.2	3.4	1.4	2.5
Thailand	156	103	31	7	6.0	8.8	77	5	2.9	5.5	2.1	1.8	4.8	0.8
The former Yugoslav Republic of Macedonia	123	119	38	17	5.7	4.7	55	-	0.5	3.2	1.9	1.4	2.4	1.8
Timor-Leste	39	-	184	97	-	3.8	47	-	-	6.3	5.3	6.6	0.8	-1.2
Togo	37	219	150	100	1.9	2.4	33	-0.6	-0.2	7.0	6.4	4.9	0.5	1.6
Tonga	104	50	32	23	2.2	1.9	28	-	2	5.9	4.6	3.8	1.3	1.2
Trinidad and Tobago	78	54	34	35	2.3	-0.2	-3	0.5	5.1	3.5	2.4	1.6	1.8	2.4
Tunisia	110	201	52	21	6.8	5.3	60	2.5	3.4	6.6	3.6	1.9	3.0	3.7
Turkey	104	201	82	23	4.5	7.5	72	1.9	2.2	5.5	3.0	2.1	3.0	2.1
Turkmenistan	65	-	99	50	-	4.0	49	-	-6.8x	6.3	4.3	2.5	1.9	3.2

	Under-5 mortality rank	Under-5 mortality rate			Average annual rate of reduction (%) <sup>o</sup>		Reduction since 1990 (%) <sup>o</sup>	GDP per capita average annual growth rate (%)		Total fertility rate			Average annual rate of reduction (%)	
		1970	1990	2007	1970–1990	1990–2007		1970–1990	1990–2007	1970	1990	2007	1970–1990	1990–2007
Tuvalu	75	–	53	37	–	2.1	30	–	–	–	–	–	–	–
Uganda	21	195	175	130	0.5	1.7	26	–	3.1	7.1	7.1	6.5	0.0	0.5
Ukraine	99	36	25	24	1.8	0.2	4	–	-0.7	2.1	1.9	1.2	0.6	2.6
United Arab Emirates	151	84	15	8	8.6	3.7	47	-4.8x	-0.3x	6.6	4.4	2.3	2.1	3.8
United Kingdom	160	21	9	6	4.2	2.4	33	2	2.4	2.3	1.8	1.8	1.2	0.0
United Republic of Tanzania	29	217	157	116	1.6	1.8	26	–	1.8	6.8	6.1	5.2	0.5	0.9
United States	151	23	11	8	3.7	1.9	27	2.2	2	2.2	2.0	2.1	0.6	-0.2
Uruguay	132	60	25	14	4.4	3.4	44	0.9	1.5	2.9	2.5	2.1	0.7	1.0
Uzbekistan	68	–	74	41	–	3.5	45	–	1.2	6.5	4.2	2.5	2.2	3.0
Vanuatu	81	155	62	34	4.6	3.5	45	1.1x	-0.4	6.3	4.9	3.8	1.2	1.6
Venezuela (Bolivarian Republic of)	114	62	32	19	3.3	3.1	41	-1.6	-0.2	5.4	3.4	2.6	2.2	1.7
Viet Nam	126	85	56	15	2.1	7.7	73	–	6	7.0	3.7	2.2	3.2	3.2
Yemen	48	309	127	73	4.4	3.3	43	–	1.6	8.6	8.1	5.5	0.3	2.2
Zambia	13	179	163	170	0.5	-0.2	-4	-2.3	0.1	7.4	6.5	5.2	0.7	1.2
Zimbabwe	43	131	95	90	1.6	0.3	5	-0.4	-2.1x	7.4	5.2	3.2	1.8	2.8

## SUMMARY INDICATORS

Sub-Saharan Africa	232	186	148	1.1	1.3	20	-0.1	1.3	6.8	6.3	5.2	0.4	1.1
Eastern and Southern Africa	202	165	123	1.0	1.7	25	–	1.4	6.8	6.0	4.9	0.6	1.2
West and Central Africa	260	206	169	1.2	1.2	18	-0.6	1.3	6.8	6.6	5.5	0.1	1.1
Middle East and North Africa	195	79	46	4.5	3.2	42	-0.1	1.6	6.8	5.0	3.0	1.5	3.0
South Asia	197	125	78	2.3	2.8	38	2.1	4.1	5.7	4.3	3.0	1.4	2.2
East Asia and Pacific	121	56	27	3.9	4.3	52	5.7	6.8	5.6	2.5	1.9	4.1	1.6
Latin America and Caribbean	122	55	26	4.0	4.4	53	1.4	1.5	5.3	3.2	2.4	2.5	1.8
CEE/CIS	91	53	25	2.7	4.4	53	–	1.6	2.8	2.3	1.7	0.9	1.9
Industrialized countries <sup>s</sup>	24	10	6	4.4	3.0	40	2.3	1.9	2.3	1.7	1.7	1.3	0.2
Developing countries <sup>s</sup>	162	103	74	2.3	1.9	28	2.4	4	5.8	3.6	2.8	2.3	1.6
Least developed countries <sup>s</sup>	241	179	130	1.5	1.9	27	-0.2	2.5	6.7	5.8	4.7	0.7	1.3
World	143	93	68	2.2	1.8	27	2.3	2.4	4.7	3.2	2.6	1.9	1.3

<sup>s</sup> Also includes territories within each country category or regional group. Countries and territories in each country category or regional group are listed on page 152.

## DEFINITIONS OF THE INDICATORS

**Under-five mortality rate** – Probability of dying between birth and exactly five years of age, expressed per 1,000 live births.

**Reduction since 1990 (%)** – Percentage reduction in the under-five mortality rate (U5MR) from 1990 to 2007. The United Nations Millennium Declaration in 2000 established a goal of a two-thirds (67 per cent) reduction in U5MR from 1990 to 2015. This indicator provides a current assessment of progress towards this goal.

**GDP per capita** – Gross domestic product (GDP) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output. GDP per capita is gross domestic product divided by midyear population. Growth is calculated from constant price GDP data in local currency.

**Total fertility rate** – Number of children who would be born per woman if she lived to the end of her childbearing years and bore children at each age in accordance with prevailing age-specific fertility rates.

## MAIN DATA SOURCES

**Under-five mortality rate** – UNICEF, United Nations Population Division and United Nations Statistics Division.

**GDP per capita** – World Bank.

**Fertility** – United Nations Population Division.

## NOTES

- Data not available.
- x Data refer to years or periods other than those specified in the column heading, differ from the standard definition or refer to only part of a country. Such data are not included in the calculation of regional and global averages.
- <sup>o</sup> A negative value indicates an increase in the under-five mortality rate since 1990.