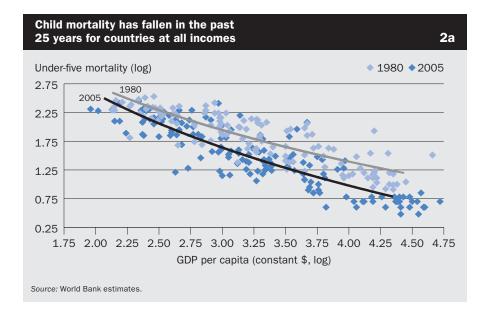


he wide health divide

Advances in technology and knowledge for health and hygiene have transformed life over the past 50 years. In 1960 more than 20 percent of children in developing countries died before reaching their fifth birthday; by 2005 this had fallen to just over 8 percent. The declines are large, even for the poorest countries (figure 2a). But this reassuring picture, painted by rising global averages, obscures substantial disparities among the world's regions and among the poor within countries. For millions of people health services and modern medicines are still out of reach, and many die prematurely from diseases that are easily prevented or cured. More than 25 years after the Health for All declaration, improving the health of the poorest people in developing countries remains a challenge.

What can improve all this? There is no consensus on which determinants are most important across countries. But there is agreement on the need to reduce extreme income poverty, the major risk for poor health and premature death. The World Health Organization (WHO) concurs, noting that a poverty-oriented health strategy requires complementary policies in other sectors (WHO 2003). These include improving access to education, enhancing the position of women and other marginalized groups, shaping development policies in agriculture and rural development, and promoting open and participatory governance.

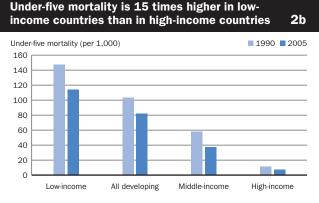
Priorities in healthcare are also clear: focus on health problems and diseases that affect the poor disproportionately. Health gains require directing program benefits toward the poor and increasing the quality and availability of health services, especially where they are least available. This section looks at the rich-poor health divide between and within countries—and at the factors behind that divide.



The divide between rich and poor countries

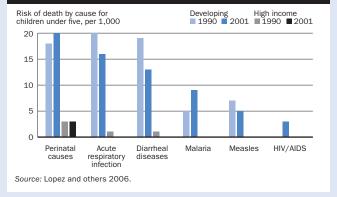
Differences in the health of rich and poor countries remain large and in some cases are increasing. Under-five mortality fell more than 36 percent in high-income countries from 1990 to 2005, but only 20 percent in developing countries, as preventable diseases continue to take a toll on the world's poorest people. But more important than the changes in proportions are the levels: under-five mortality is five times higher in middle-income countries than in high-income countries and 15 times higher in lower-income countries (figure 2b).

What accounts for these disparities? Child mortality from malaria doubled from 1990 to 2001, with the largest increase in Sub-Saharan Africa (Lopez and others 2006). Other increases in child mortality in developing countries came from HIV/AIDS, again with the largest increase in Sub-Saharan Africa, and problems in the first months of life, which depend strongly on the quality and availability of prenatal services. Child deaths from these causes are far less common in high-income countries, just as they are from acute respiratory infections, diarrheal diseases, and measles. But for developing countries, these diseases, along with malnutrition, remain significant causes of avoidable child deaths (figure 2c).



Source: Harmonized estimates from WHO, UNICEF, and World Bank

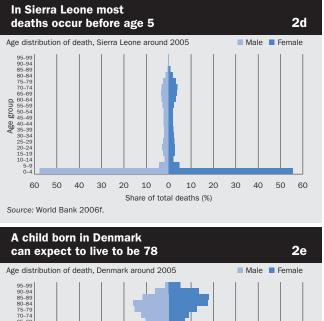
Little reduction in risks for poor children



2c

The differing patterns of mortality and well-being reflected in the age distributions of death for developing and highincome countries show their impact on life expectancies at birth (figures 2d, 2e, and 2f). In developing countries, where deaths of children under age five are still the major health issue, average life expectancy at birth is 65 years. But several countries—such as Lesotho, Zambia, and Zimbabwe, with high AIDS-related mortality—have life expectancies of less than 40 years. In high-income countries, by contrast, noncommunicable illnesses—such as cardiovascular diseases, diabetes, and related conditions of high blood pressure, high cholesterol, and excessive body weight-cluster deaths at older ages, and the average life expectancy at birth is 79 years. Indeed, in Canada, France, Japan, Norway, Sweden, and Switzerland life expectancies of 80 years and above are the norm. So any efforts to improve health and increase life expectancy in developing countries will have to focus on diseases that kill children.

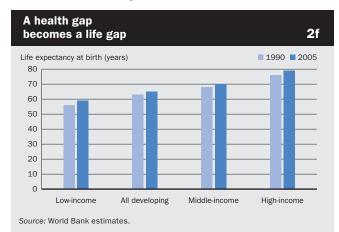
Why are there health gaps between rich and poor countries? Poverty makes people in developing countries more vulnerable to disease. Nearly a third of the people in South Asia and half those in Sub-Saharan Africa lived on less than \$1





a day in 2002. The majority of them typically lack access to safe drinking water and adequate sanitation, food, education, employment, health information, and professional healthcare. Almost half the people in Sub-Saharan Africa cannot obtain essential drugs (Jamison and others 2006). Many developing countries experienced little increase in immunization coverage between 1990 and 2005, and in 2005 only 75 percent of children ages 12–23 months were vaccinated against measles and diphtheria, pertussis, and whooping cough, compared with almost 95 percent for high-income countries.

Several barriers beyond low income exclude people in developing countries from getting appropriate care, and these can be related to services, clients, and institutions. Service factors include the high cost of care and transportation, poor quality and inappropriate care, and negative staff attitudes. Client factors include social and cultural constraints on women's movements and limited information about their health needs and availability of services. And institutional factors include men's control over decisionmaking and budgets, local perceptions about illness and treatment norms, and discrimination in health settings.



Health inequalities by social,	
cultural, and geographic factors	Box 2g

Inequalities in health go beyond income to such sociocultural, demographic, and geographic factors as sex, race, religion, ethnic group, language, and residence. In parts of India and China infant girls are more likely to die than infant boys because the cultural preference for male children puts girls at a disadvantage in nutrition and healthcare early in life. Women and girls also face discrimination in healthcare because cultural norms restrict them from traveling long distances, especially alone.

Poor communities—rural, remote, and in urban slums—typically face multiple health risks related to gaps in infrastructure, services, and trained personnel. For example, ethnic minorities, especially in isolated regions in Bangladesh, were less likely to be vaccinated for childhood diseases.

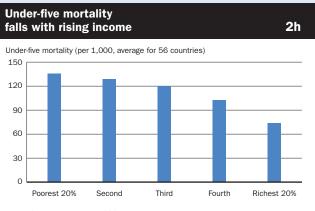
Source: Carr 2004; Ashford, Gwatkin, and Yazbeck 2006.

The health divide within countries: the rich-poor gap

Inequalities in health within countries are pervasive. Even in healthy countries such as Finland, the Netherlands, and the United Kingdom, the poor die 5–10 years before the rich (Carr 2004). But the inequalities are most apparent in poorer developing countries. Studies from many developing countries show that the poorest 20 percent of the population fares far worse than the richest 20 percent on a range of health outcomes, including child mortality and nutritional status (box 2g, figures 2h and 2i). On average a child in the poorest 20 percent is twice as likely to die before age 5 as a child in the richest 20 percent. The disparity is similar for maternal nutrition, with women in the poorest 20 percent almost twice as likely to be malnourished as those in the richest 20 percent.

Severe malnutrition among children reveals more pronounced inequality, with children in the poorest 20 percent more than three times as likely to be underweight as children in the richest 20 percent. The inequality is largest in South Asia, where 21 percent of children in the poorest 20 percent were underweight, compared with 6 percent in the richest.

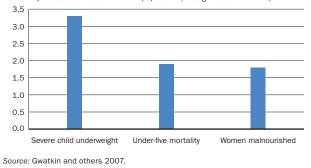
Demographic and Health Surveys find that gaps in the use of health services are closely related to economic



Source: Gwatkin and others 2007.

Health inequalities in developing countries

Ratio of poorest to richest 20% of the population (average for 56 countries)



37

2i

status (box 2j and figure 2k). On average, children ages 12–23 months in the richest 20 percent of the population are more than twice as likely as those in the poorest 20 percent to have received basic immunizations. Inequality in immunization is especially high in Sub-Saharan Africa: only 32 percent of children in the poorest 20 percent have been fully immunized, compared with 60 percent in the richest 20 percent.

Use of professional healthcare during childbirth also varies by income. Rich women are four times more likely to use modern methods of birth control than their poorer counterparts and nearly five times more likely to be attended by a skilled health professional during childbirth. Several countries, such as Benin, Morocco, Nicaragua, and Vietnam, have reduced inequalities and increased the coverage of trained medical staff attending childbirths for the poorest women (figure 2I). Childbirths attended by trained staff among the poorest 20 percent more than doubled in Nicaragua from 1997 to 2001, from 33 percent to 78 percent. In a few countries, such as Chad and Ghana, inequalities increased because of lack of progress in coverage among poor women.

Why do the poor receive and seek less health care than the rich?

Box 2j

According to *World Development Report 2006: Equity and Development* (World Bank 2005d), inequities occur when some groups of people have less say and fewer opportunities to shape events and institutions around them, resulting in institutions that favor the privileged, who are often the rich. In health this translates into a lower likelihood of the poor taking preventive measures and seeking and using healthcare.

Government actions affect the health of poor people. Public spending on health can influence the type and quality of services available to the poor. Governments may allocate high proportions of their health budgets to urban hospitals, leaving rural residents without adequate health facilities. Income is another important constraint. In South Africa people in the poorest 20 percent have to travel an average of nearly two hours to obtain medical attention, compared with 34 minutes for those in the wealthiest 20 percent.

Additional barriers that lower demand for health services include a lack of knowledge about hygiene, nutrition, and the availability of treatment options, particularly among the uneducated. This can keep people from seeking care when they need it, even when price is not an issue. In India immunization rates are low, even though immunization is free: mothers cited lack of knowledge of the benefits of vaccination and of the clinic location as the main reasons why their children had not been immunized.

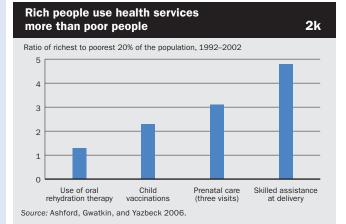
Lack of knowledge can also lead people to pay for inappropriate healthcare. Unqualified providers can overprescribe treatment to patients who do not know what is in their best interest. For example, instead of effective and inexpensive oral rehydration therapy, a poor child in Indonesia gets more than four (often useless) drugs per diarrhea episode.

Poorer members of a community often have less say in whether to seek care than wealthier members, and this can affect the level of resources used in their interest. Similarly, within a family, women and children have less voice than men and older family members.

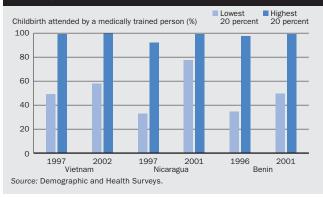
Main determinant of health status: health spending

Differences in health spending contribute to global disparities in health outcomes (figure 2m). In rich countries, total health spending, at 6 percent of GDP, is almost twice that of developing countries, and childhood vaccinations, skilled attendants at birth, and access to effective health interventions are almost universal. In developing countries, where access to free health services is seen as a basic human right, public spending on health is less than 3 percent of GDP. In low-income countries the annual per capita spending on healthcare in 2004 was just \$32, well below the \$60 that the WHO deems sufficient for an adequately performing health system (WHO, *World Health Report 2000*). By contrast, annual per capita health spending in high-income countries was \$3,724.

The most obvious barrier to expanding health coverage in developing countries is the current low level of spending. Expanding access to successful interventions will require more funds, a situation made more difficult as HIV/AIDS spreads and more spending is allocated to the treatment of AIDS and AIDS-related opportunistic infections, such as tuberculosis and pneumonia. As public funds for general health shrink, the



Some countries have reduced inequalities in use of professional healthcare in childbirth



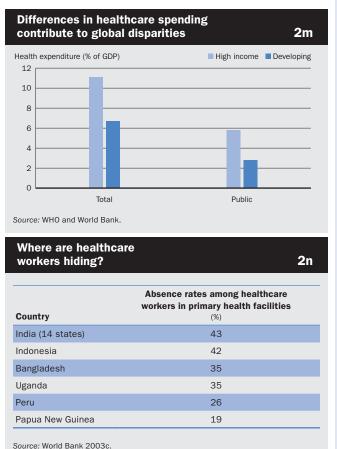
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costs are borne more by households and the private sector. In 2004 more than 80 percent of the people in developing countries paid out of pocket for health services, compared with just 37 percent in high-income countries.

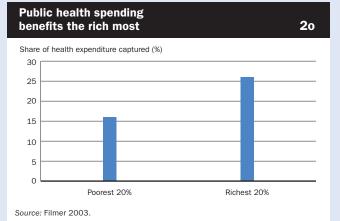
Greater public spending is not, however, always associated with better outcomes, and performance varies across countries based on the capabilities of government and health systems. In many countries staff ostensibly delivering services do not, and absenteeism is high (figure 2n). Corruption in the form of informal payments, coupled with the low technical quality of service providers and the poor attitudes of health staff, especially to the poorer population, often discourage a second visit. According to *World Development Report 2006: Equity and Development* (World Bank 2005d), more than 70 percent of patients in Azerbaijan, Poland, and the Russian Federation, and more than 90 percent in Armenia, made "informal payments" for services.

To improve health conditions among the poor and vulnerable in developing countries, governments support free or subsidized health services, often as part of a national policy to reduce poverty. Government spending on health is

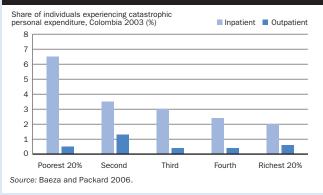


thus designed to give everyone equal access to care, and this rationale is typically invoked to justify direct government involvement in service provision. In reality, equal access is elusive, and research confirms that publicly financed healthcare benefits the rich more than the poor (figure 20). In 21 countries the richest 20 percent received more than 26 percent of government health spending, compared with 16 percent for the poorest 20 percent. Even health programs that address illnesses affecting the poor tend to favor the rich. In Sub-Saharan Africa the rich benefited more (53 percent) from prophylactic treatment for malaria than did the poor (34 percent).

Primary healthcare is often free in the public health system, but treatment for major illnesses can be costly if payment is required for drugs and services on top of transport costs and time off from work. Indeed, health shocks can push a high proportion of households into poverty because of outof-pocket health expenditures (figure 2p). This underscores the need for policymakers to maintain and improve the health status of the poor through effective interventions—and to protect households from falling into poverty.



Health shocks can push households into poverty



39

2p

Population dynamics

		Total population		Average popul growt	ation		opulation a compositio	-	-	idency tio	Crude death rate	Crude birth rate
	1990	millions 2005	2015	% 1990–2005		Ages 0–14 2005	% Ages 15–64 2005	Ages 65+ 2005	proportion	ents as of working- pulation Old 2005	per 1,000 people 2005	per 1,000 people 2005
Afghanistan				••							••	
Albania	3.3	3.1	3.2	-0.3	0.4	27.0	64.7	8.3	0.4	0.1	6	13
Algeria	25.3	32.9	38.0	1.7	1.5	29.6	65.8	4.5	0.5	0.1	5	21
Angola	10.5	15.9	20.9	2.8	2.7	46.5	51.1	2.5	0.9	0.0 ^a	22	48
Argentina	32.6	38.7	42.5	1.2	0.9	26.4	63.4	10.2	0.4	0.2	8	18
Armenia	3.5	3.0	3.0	-1.1	-0.2	20.8	67.1	12.1	0.3	0.2	8	12
Australia	17.1	20.3	22.3	1.2	0.9	19.6	67.7	12.7	0.3	0.2	6	13
Austria	7.7	8.2	8.3	0.4	0.1	15.5	67.8	16.7	0.2	0.2	9	10
Azerbaijan	7.2	8.4	9.2	1.1	0.9	25.8	67.1	7.1	0.4	0.1	6	17
Bangladesh	104.0	141.8	168.0	2.1	1.7	35.5	60.9	3.6	0.6	0.1	8	26
Belarus	10.2	9.8	9.2	-0.3	-0.6	15.2	70.2	14.7	0.2	0.2	15	9
Belgium	10.0 5.2	10.5	10.5	0.3	0.1 2.8	16.8 44.2	65.6	17.6	0.3	0.3	10	11 41
Benin Bolivia	5.2 6.7	8.4 9.2	11.2 10.8	3.3 2.1	2.8	44.2 38.1	53.1 57.4	2.7 4.5	0.8 0.7	0.1	12 8	41 29
Bosnia and Herzegovina	6.7 4.3	9.2 3.9	3.9	-0.7	-0.1	38.1 16.5	57.4 69.5	4.5 14.0	0.7	0.1	8 9	29 9
Botswana	4.5	1.8	1.7	-0.7	-0.1	37.6	59.0	3.3	0.2	0.2	27	26
Brazil	149.4	186.4	208.8	1.5	1.1	27.9	66.0	6.1	0.4	0.1	7	20
Bulgaria	8.7	7.7	7.1	-0.8	-0.8	13.8	69.4	16.8	0.2	0.2	15	9
Burkina Faso	8.5	13.2	17.3	2.9	2.7	47.2	50.1	2.7	0.9	0.1	16	46
Burundi	5.7	7.5	10.6	1.9	3.4	45.0	52.3	2.7	0.9	0.1	18	45
Cambodia	9.7	14.1	17.1	2.5	1.9	37.1	59.5	3.4	0.6	0.1	10	30
Cameroon	11.7	16.3	20.2	2.2	2.1	41.2	55.1	3.7	0.7	0.1	17	34
Canada	27.8	32.3	34.9	1.0	0.8	17.6	69.3	13.1	0.3	0.2	7	11
Central African Republic	3.0	4.0	4.6	2.0	1.4	43.0	53.0	4.1	0.8	0.1	22	37
Chad	6.1	9.7	12.5	3.2	2.5	47.3	49.7	3.0	1.0	0.1	20	49
Chile	13.2	16.3	17.9	1.4	0.9	24.9	67.0	8.1	0.4	0.1	5	16
China	1,135.2	1,304.5	1,378.1	0.9	0.5	21.4	71.0	7.6	0.3	0.1	6	12
Hong Kong, China	5.7	6.9	7.6	1.3	0.9	14.4	73.6	12.0	0.2	0.2	6	8
Colombia	35.0	45.6	51.5	1.8	1.2	31.0	63.9	5.1	0.5	0.1	5	21
Congo, Dem. Rep.	37.8	57.5	77.9	2.8	3.0	47.3	50.1	2.7	0.9	0.1	20	50
Congo, Rep.	2.5	4.0	5.2	3.2	2.7	47.1	49.9	2.9	0.9	0.1	13	44
Costa Rica	3.1	4.3	5.0	2.3	1.4	28.4	65.8	5.8	0.4	0.1	4	17
Côte d'Ivoire	12.7	18.2	21.6	2.4	1.7	41.9	54.9	3.3	0.8	0.1	17	36
Croatia	4.8	4.4	4.3	-0.5	-0.2	15.5	67.3	17.2	0.2	0.3	11	9
Cuba Czech Republic	10.5 10.4	11.3 10.2	11.4 10.1	0.4 -0.1	0.1 -0.2	19.1 14.6	70.1 71.2	10.8 14.2	0.3 0.2	0.2	7 11	11 10
Denmark	5.1	5.4	5.5	0.3	-0.2	14.0	66.2	14.2	0.2	0.2	10	10
Dominican Republic	7.1	8.9	10.1	1.5	1.3	32.7	63.1	4.1	0.5	0.2	6	24
Ecuador	10.3	13.2	15.1	1.7	1.3	32.4	61.8	5.8	0.5	0.1	5	24
Egypt, Arab Rep.	55.7	74.0	88.1	1.9	1.7	33.6	61.7	4.8	0.5	0.1	6	26
El Salvador	5.1	6.9	8.0	2.0	1.5	34.0	60.7	5.4	0.6	0.1	6	24
Eritrea	3.0	4.4	5.8	2.5	2.8	44.8	52.9	2.3	0.8	0.0 ^a	11	39
Estonia	1.6	1.3	1.3	-1.0	-0.3	15.2	68.3	16.5	0.2	0.2	13	11
Ethiopia	51.2	71.3	86.8	2.2	2.0	44.5	52.5	2.9	0.8	0.1	19	39
Finland	5.0	5.2	5.3	0.3	0.2	17.3	66.8	15.9	0.3	0.2	9	11
France	56.7	60.9	62.4	0.5	0.2	18.2	65.2	16.6	0.3	0.3	9	13
Gabon	1.0	1.4	1.6	2.5	1.5	40.0	55.6	4.4	0.7	0.1	13	30
Gambia, The	0.9	1.5	1.9	3.2	2.2	40.1	56.1	3.7	0.7	0.1	11	34
Georgia	5.5	4.5	4.2	-1.3	-0.7	18.9	66.8	14.3	0.3	0.2	10	11
Germany	79.4	82.5	81.8	0.3	-0.1	14.3	66.9	18.8	0.2	0.3	10	8
Ghana	15.5	22.1	26.5	2.4	1.8	39.0	57.3	3.7	0.7	0.1	10	31
Greece	10.2	11.1	11.2	0.6	0.0	14.3	67.5	18.2	0.2	0.3	9	9
Guatemala	8.9	12.6	15.8	2.3	2.3	43.2	52.5	4.3	0.8	0.1	6	34
Guinea	6.2	9.4	11.8	2.8	2.3	43.7	52.7	3.5	0.8	0.1	13	41
Guinea-Bissau	1.0	1.6	2.1	3.0	2.9	47.5	49.4	3.1	1.0	0.1	19	50
Haiti	6.9	8.5	9.7	1.4	1.3	37.5	58.5	4.0	0.6	0.1	13	30



Population dynamics **2.1**

		Total population		-	e annual lation h rate		opulation a composition	-	Depen rat	-	Crude death rate	Crude birth rate
	1990	millions 2005	2015	9 1990–2005		Ages 0–14 2005	% Ages 15–64 2005	Ages 65+ 2005		ents as of working- oulation Old 2005	per 1,000 people 2005	per 1,000 people 2005
									-			-
Honduras Hungary	4.9 10.4	7.2 10.1	8.8 9.8	2.6 -0.2	2.0 -0.3	39.2 15.7	56.9 69.1	3.9 15.2	0.7 0.2	0.1	6 14	28 10
India	849.5	1,094.6	1,248.5	1.7	1.3	32.1	62.7	5.3	0.5	0.1	8	24
Indonesia	178.2	220.6	244.0	1.4	1.0	28.3	66.2	5.5	0.4	0.1	7	20
Iran, Islamic Rep.	54.4	68.3	78.4	1.5	1.4	28.7	66.8	4.5	0.4	0.1	4	15
Iraq	18.5	••	••	••	••	••	••	••	••	••	••	••
Ireland	3.5	4.2	4.7	1.1	1.1	20.2	68.9	10.9	0.3	0.2	7	15
Israel	4.7	6.9	8.1	2.6	1.5	27.8	62.1	10.1	0.4	0.2	6	21
Italy Jamaica	56.7 2.4	58.6 2.7	58.0 2.7	0.2	-0.1 0.3	14.0 31.2	66.0 61.2	20.0 7.6	0.2 0.5	0.3 0.1	10 6	10 16
Japan	123.5	127.8	124.9	0.2	-0.2	14.0	66.3	19.7	0.3	0.1	9	8
Jordan	3.2	5.5	6.7	3.6	2.0	37.2	59.6	3.2	0.2	0.1	3	28
Kazakhstan	16.3	15.1	15.0	-0.5	-0.1	23.1	68.3	8.5	0.3	0.1	10	18
Kenya	23.4	34.3	44.1	2.5	2.5	42.8	54.4	2.8	0.8	0.1	14	39
Korea, Dem. Rep.	19.7	22.5	23.3	0.9	0.3	25.0	68.2	6.8	0.4	0.1	11	15
Korea, Rep.	42.9	48.3	49.2	0.8	0.2	18.6	72.0	9.4	0.3	0.1	5	9
Kuwait	2.1	2.5	3.4	1.2	2.8	24.3	73.9	1.8	0.3	0.0 ^a	2	19
Kyrgyz Republic	4.4	5.1	5.7	1.0	1.0	31.5	62.4	6.1	0.5	0.1	7	21
Lao PDR	4.1 2.7	5.9 2.3	7.3 2.2	2.4 -1.0	2.1 -0.6	40.9	55.5 68.4	3.7	0.7 0.2	0.1	12 14	34 9
Latvia Lebanon	2.7	3.6	4.0	-1.0 1.8	-0.8	14.7 28.6	64.0	16.9 7.3	0.2	0.2	14 7	9 18
Lesotho	1.6	1.8	1.7	0.8	-0.3	38.6	56.2	5.3	0.7	0.1	25	28
Liberia	2.1	3.3	4.4	2.9	2.9	47.1	50.7	2.2	0.9	0.0 ^a	20	50
Libya	4.3	5.9	7.0	2.0	1.8	30.1	65.9	4.1	0.5	0.1	4	23
Lithuania	3.7	3.4	3.3	-0.5	-0.5	16.7	67.8	15.5	0.2	0.2	13	9
Macedonia, FYR	1.9	2.0	2.1	0.4	0.2	19.6	69.3	11.1	0.3	0.2	9	11
Madagascar	12.0	18.6	23.8	2.9	2.5	44.0	52.9	3.1	0.8	0.1	12	38
Malawi	9.5	12.9	16.0	2.1	2.2	47.3	49.6	3.0	1.0	0.1	21	43
Malaysia	17.8	25.3	29.5	2.3	1.5	32.4	63.0	4.6	0.5	0.1	5	21 49
Mali Mauritania	8.9 2.0	13.5 3.1	18.0 4.0	2.8 2.8	2.9 2.6	48.2 43.0	49.1 53.6	2.7 3.4	1.0 0.8	0.1	17 13	49
Mauritius	2.0	1.2	4.0	2.8	0.7	43.0 24.6	68.8	6.6	0.8	0.1	13 7	40 15
Mexico	83.2	103.1	114.3	1.4	1.0	31.0	63.7	5.3	0.5	0.1	4	18
Moldova	4.4	4.2	4.1	-0.2	-0.3	18.3	71.6	10.1	0.3	0.1	12	11
Mongolia	2.1	2.6	2.9	1.3	1.2	30.5	65.8	3.8	0.5	0.1	6	18
Morocco	23.9	30.2	34.2	1.5	1.3	31.1	64.1	4.8	0.5	0.1	6	23
Mozambique	13.4	19.8	23.5	2.6	1.7	44.0	52.7	3.3	0.8	0.1	20	39
Myanmar	40.8	50.5	54.9	1.4	0.8	29.5	65.6	4.9	0.4	0.1	9	19
Namibia	1.4	2.0	2.2	2.5	1.0	41.5	55.0	3.5	0.8	0.1	6	22
Nepal	19.1	27.1	32.7	2.3	1.9	39.0	57.3	3.7	0.7	0.1	8 8	29
Netherlands New Zealand	15.0 3.4	16.3 4.1	16.8 4.4	0.6 1.2	0.3 0.6	18.2 21.3	67.7 66.4	14.1 12.3	0.3 0.3	0.2 0.2	8 7	12 14
Nicaragua	4.0	4.1 5.1	6.2	1.2	1.8	38.9	57.8	3.3	0.3	0.2	5	28
Niger	4.0 8.5	14.0	19.2	3.3	3.2	49.0	49.0	2.0	1.0	0.1 0.0 ^a	20	53
Nigeria	90.6	131.5	160.8	2.5	2.0	44.3	52.7	3.0	0.8	0.1	19	41
Norway	4.2	4.6	4.8	0.6	0.5	19.6	65.4	15.0	0.3	0.2	9	12
Oman	1.8	2.6	3.2	2.2	2.1	34.5	63.0	2.6	0.5	0.0 ^a	3	25
Pakistan	108.0	155.8	190.5	2.4	2.0	38.3	57.9	3.8	0.7	0.1	7	26
Panama	2.4	3.2	3.8	2.0	1.5	30.4	63.6	6.0	0.5	0.1	5	22
Papua New Guinea	4.1	5.9	7.0	2.4	1.7	40.3	57.3	2.4	0.7	0.0 ^a	10	29
Paraguay	4.2	5.9	7.1	2.2	1.8	37.6	58.7 62.5	3.7	0.6	0.1	5	29
Peru Philippines	21.8 61.1	28.0 83.1	32.1 98.7	1.7 2.0	1.4 1.7	32.2 35.1	62.5 61.0	5.3 3.9	0.5 0.6	0.1	6 5	22 24
Poland	61.1 38.1	83.1 38.2	98.7 37.6	2.0 0.0 ^a	-0.2	35.1 16.3	61.0 70.7	3.9 12.9	0.6	0.1	5 10	24 9
Portugal	9.9	10.5	10.9	0.4	0.3	15.9	67.0	17.1	0.2	0.2	10	11
Puerto Rico	3.5	3.9	4.1	0.7	0.4	22.3	65.7	12.1	0.3	0.2	8	13

Population dynamics

	Total population		Average popul growt	ation		opulation a compositio	0	-	idency tio	Crude death rate	Crude birth rate	
	1990	millions 2005	2015	% 1990–2005		Ages 0–14 2005	% Ages 15–64 2005	Ages 65+ 2005	proportion	lents as of working- bulation Old 2005	per 1,000 people 2005	per 1,000 people 2005
Romania	23.2	21.6	20.7	-0.5	-0.4	15.4	69.8	14.8	0.2	0.2	12	10
Russian Federation	148.3	143.1	136.0	-0.2	-0.5	15.3	70.9	13.8	0.2	0.2	16	10
Rwanda	7.1	9.0	11.3	1.6	2.2	43.5	54.0	2.5	0.8	0.0 ^a	18	41
Saudi Arabia	16.4	23.1	28.9	2.3	2.2	37.3	59.8	2.9	0.6	0.0 ^a	4	27
Senegal	8.0	11.7	14.5	2.5	2.2	42.6	54.3	3.1	0.8	0.1	11	36
Serbia and Montenegro	10.5 ^b	8.1	8.0 ^c	0.1 ^d	-0.1 ^c	18.3	67.6	14.1	0.3	0.2	14	11
Sierra Leone	4.1	5.5	6.9	2.0	2.2	42.8	53.8	3.3	0.8	0.1	23	46
Singapore	3.0	4.3	4.8	2.4	1.1	19.5	72.0	8.5	0.3	0.1	4	10
Slovak Republic	5.3	5.4	5.4	0.1	-0.1	16.7	71.5	11.8	0.2	0.2	10	10
Slovenia	2.0	2.0	2.0	0.0 ^a	-0.2	13.9	70.5	15.6	0.2	0.2	9	9
Somalia	6.7	8.2	11.0	1.4	2.9	44.1	53.3	2.6	0.8	0.0 ^a	17	44
South Africa	35.2	46.9	47.3	1.9	0.1	32.6	63.1	4.2	0.5	0.1	21	24
Spain	38.8	43.4	44.4	0.7	0.2	14.3	69.2	16.5	0.2	0.2	9	11
Sri Lanka	17.0	19.6	21.0	1.0	0.7	24.1	68.6	7.3	0.4	0.1	6	18
Sudan	26.1	36.2	44.1	2.2	2.0	39.2	57.2	3.6	0.7	0.1	11	32
Swaziland	0.8	1.1	1.1	2.6	-0.4	41.0	55.5	3.5	0.7	0.1	20	34
Sweden	8.6	9.0	9.3	0.4	0.3	17.5	65.3	17.2	0.3	0.3	10	10
Switzerland	6.7	7.4	7.5	0.7	0.0 ^a	16.5	67.6	16.0	0.2	0.2	8	10
Syrian Arab Republic	12.8	19.0	23.8	2.6	2.2	36.9	60.0	3.1	0.6	0.1	3	28
Tajikistan	5.3	6.5	7.6	1.4	1.5	39.0	57.2	3.9	0.7	0.1	7	28
Tanzania	26.2	38.3	47.1	2.5	2.1	42.6	54.2	3.2	0.8	0.1	16	36
Thailand	54.6	64.2	69.0	1.1	0.7	23.8	69.1	7.1	0.3	0.1	7	16
Togo	4.0	6.1	7.8	2.9	2.4	43.5	53.4	3.1	0.8	0.1	12	38
Trinidad and Tobago	1.2	1.3	1.3	0.5	0.2	21.5	71.1	7.4	0.3	0.1	8	14
Tunisia	8.2	10.0	11.0	1.4	1.0	25.9	67.8	6.3	0.4	0.1	6	17
Turkey	56.2	72.1	80.7	1.7	1.1	28.4	65.7	5.9	0.4	0.1	6	19
Turkmenistan	3.7	4.8	5.5	1.8	1.3	31.8	63.6	4.7	0.5	0.1	8	22
Uganda	17.8	28.8	41.8	3.2	3.7	50.5	47.1	2.5	1.1	0.1	15	51
Ukraine	51.9	47.1	42.3	-0.6	-1.1	14.9	69.0	16.1	0.2	0.2	17	9
United Arab Emirates	1.8	4.5	5.6	6.3	2.2	22.0	76.9	1.1	0.3	0.0 ^a	1	16
United Kingdom	57.6	60.2	61.7	0.3	0.2	17.9	66.1	16.0	0.3	0.2	10	12
United States	249.6	296.4	322.5	1.1	0.8	20.8	66.9	12.3	0.3	0.2	8	14
Uruguay	3.1	3.5	3.7	0.7	0.5	24.3	62.5	13.2	0.4	0.2	9	15
Uzbekistan	20.5	26.2	30.1	1.6	1.4	33.2	62.1	4.7	0.5	0.1	6	20
Venezuela, RB	19.8	26.6	31.1	2.0	1.6	31.2	63.7	5.1	0.5	0.1	5	22
Vietnam	66.2	83.1	92.1	1.5	1.0	29.5	65.0	5.4	0.5	0.1	6	18
West Bank and Gaza	2.0	3.6	4.9	4.1	3.0	45.5	51.4	3.1	0.9	0.1	4	33
Yemen, Rep.	12.1	21.0	28.4	3.7	3.0	46.4	51.4	2.3	0.9	0.0 ^a	8	40
Zambia Zimbabwe	8.4 10.6	11.7 13.0	13.8 13.8	2.2 1.4	1.7 0.6	45.8 40.0	51.2 56.4	3.0 3.6	0.9 0.7	0.1	22 23	40 29
World Low income	5,256.3 s	6,437.7 s		1.4 w 2.0	1.1 w 1.7	28.1 w 36.4	64.5 w 59.3	7.4 w 4.3	0.4 w	0.1 w	9 w 10	20 w 29
Middle income	2,613.4	3,074.5	2,787.8 3,322.7	2.0	0.8	25.0	67.7	7.3	0.8	0.1	8	29 16
Lower middle income	2,013.4	2,474.6	2,694.1	1.1	0.8	25.0	67.9	6.9	0.4	0.1	° 7	16
Upper middle income	2,083.6	2,474.6	2,694.1	0.8	0.8	25.3 24.2	66.7	9.1	0.4	0.1	10	16
Low & middle income	529.8 4,352.8	599.8 5,426.9	6,110.5	1.5	0.5 1.2	24.2 30.0	64.0	9.1 6.0	0.4	0.1	9	22
East Asia & Pacific	4,352.8	1,885.5	2,027.8	1.5	0.7	23.9	69.2	6.9	0.3	0.1	9 7	15
Europe & Central Asia	466.1	471.8	471.5	0.1	0.0 ^a	23.9 19.7	68.6	11.8	0.3	0.1	12	13
Latin America & Carib.	437.6	550.8	620.1	1.5	1.2	30.0	63.9	6.1	0.5	0.2	6	20
Middle East & N. Africa	225.5	306.0	365.1	2.0	1.2	33.5	62.3	4.2	0.5	0.1	6	20
South Asia	1,113.1	1,469.8	1,703.4	1.9	1.5	33.4	61.7	4.2	0.5	0.1	8	24 25
Sub-Saharan Africa	514.4	743.1	922.6	2.5	2.2	43.5	53.4	3.1	0.5	0.1	17	40
High income	903.5	1010.8	1055.3	0.7	0.4	43.5 18.2	67.0	14.8	0.8	0.1	8	40 12
Europe EMU	903.5 295.3	313.9	316.7	0.7	0.4	15.5	66.8	14.8	0.3	0.2	° 9	12

a. Less than 0.05. b. Includes population of Kosovo and Metahia until 1999. c. Projections are based on data for Serbia and Montenegro before it separated into two independent states in 2006. d. Data are for 1990–99.

Population estimates are usually based on national population censuses, but the frequency and quality vary by country. Most countries conduct a complete enumeration no more than once a decade. Estimates for the years before and after the censuses are interpolations or extrapolations based on demographic models. Errors and undercounting occur even in high-income countries; in developing countries such errors may be substantial because of limits in the transport, communications, and other resources required to conduct and analyze a full census.

The quality and reliability of official demographic data are also affected by the public trust in the government, the government's commitment to full and accurate enumeration, the confidentiality and protection against misuse accorded to census data, and the independence of census agencies from undue political influence. Moreover, the international comparability of population indicators is limited by differences in the concepts, definitions, data collection procedures, and estimation methods used by national statistical agencies and other organizations that collect population data.

Of the 152 economies listed in the table, 130 (about 86 percent) conducted a census between 1995 and 2005. The currentness of a census, along with the availability of complementary data from surveys or registration systems, is one of many objective ways to judge the quality of demographic data. In some European countries registration systems offer complete information on population in the absence of a census. See *Primary data documentation* for the most recent census or survey year and for the completeness of registration.

Current population estimates for developing countries that lack recent census-based data, and preand post-census estimates for countries with census data, are provided by the United Nations Population Division and other agencies. The standard estimation method requires fertility, mortality, and net migration data, which are often collected from sample surveys, some of which may be small or limited in coverage. The population estimates are the product of demographic modeling and so are susceptible to biases and errors because of shortcomings in the model as well as in the data. Population projections are made using the cohort component method.

The growth rate of the total population conceals the fact that different age groups may grow at very different rates. In many developing countries the population under age 15 was previously growing rapidly but is now starting to shrink. Previously high fertility rates and declining mortality rates are now reflected in the larger share of the working-age population. Dependency ratios take into account variations in the different age groups: the proportions of children, elderly people, and working-age people in the population. Separate calculations of young-age and old-age dependency suggest the burden of dependency that the working-age population must bear in relation to children and the elderly. But dependency ratios show only the age composition of a population, not economic dependency. Some children and elderly people are part of the labor force, and many working-age people are not.

The vital rates shown in the table are based on data derived from birth and death registration systems, censuses, and sample surveys conducted by national statistical offices and other organizations, or on demographic analysis. The estimates for 2005 for many countries are national projections based on extrapolations of levels and trends measured in earlier years.

Vital registers are the preferred source of these data, but in many developing countries systems for registering births and deaths do not exist or are incomplete because of deficiencies in the coverage of events or of geographic areas. Many developing countries carry out special household surveys that estimate vital rates by asking respondents about births and deaths in the recent past. Estimates derived in this way are subject to sampling errors as well as errors due to inaccurate recall by the respondents.

The United Nations Statistics Division monitors the completeness of vital registration systems. The share of countries with at least 90 percent complete vital registration increased from 45 percent in 1988 to 62 percent in 2005. Still, some of the most populous developing countries—China, India, Indonesia, Brazil, Pakistan, Bangladesh, Nigeria—do not have complete vital registration systems. Between 2003 and 2005, 51 percent of births and deaths and 48 percent of infant deaths worldwide were registered and reported.

International migration is the only other factor besides birth and death rates that directly determines a country's population growth. From 1990 to 2000 the number of migrants in high-income countries increased by 23 million. About 190 million people currently live outside their home country, accounting for about 3 percent of the world's population. Estimating international migration is difficult. At any time many people are located outside their home country as tourists, workers, or refugees or for other reasons. Standards relating to the duration and purpose of international moves that qualify as migration vary, and accurate estimates require information on flows into and out of countries that is difficult to collect.

Definitions

· Total population of an economy includes all residents regardless of legal status or citizenshipexcept for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. The values shown are midyear estimates for 1990 and 2005 and projections for 2015. • Average annual population growth rate is the exponential change for the period indicated. See Statistical methods for more information. • Population age composition refers to the percentage of the total population that is in specific age groups. • Dependency ratio is the ratio of dependents—people younger than 15 or older than 64-to the working-age population-those ages 15-64. • Crude death rate and crude birth rate are the number of deaths and the number of live births occurring during the year, per 1,000 population, estimated at midyear. Subtracting the crude death rate from the crude birth rate provides the rate of natural increase, which is equal to the population growth rate in the absence of migration.

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Data sources

The World Bank's population estimates are compiled and produced by its Human Development Network and Development Data Group in consultation with its operational staff and country offices. Important inputs to the World Bank's demographic work come from the United Nations Population Division's World Population Prospects: The 2004 Revision: census reports and other statistical publications from national statistical offices; household surveys conducted by national agencies, Macro International, and the U.S. Centers for Disease Control and Prevention: Eurostat. Demographic Statistics (various years); Centro Latinoamericano de Demografía, Boletín Demográfico (various years): and U.S. Bureau of the Census. International Database.

2.2 Labor force structure

Labor force participation rate

Labor force

	٩	% ages Viale	15-64	Female			Ages 15 and older average annual % growth		nale oor force
	1990	2005	1990	2005	1990	2005	1990-2005	1990	2005
fghanistan				••		••			
Ibania	86.3	75.7	63.3	54.7	1.6	1.4	-0.9	40.2	42.1
Igeria	81.0	83.5	23.7	38.0	7.2	13.4	4.1	22.6	30.7
ngola	90.9	92.2	76.0	75.6	4.5	7.0	2.9	46.4	45.8
rgentina	84.7	82.4	43.5	61.1	13.0	18.4	2.3	34.4	42.9
rmenia	89.7	65.9	76.7	55.4	1.9	1.3	-2.8	47.7	49.2
ustralia	84.4	80.8	61.5	67.4	8.4	10.3	1.3	41.3	45.5
ustria	80.1	77.4	55.3	63.8	3.5	4.0	0.8	40.8	44.6
zerbaijan	80.6	78.1	68.5	66.2	3.3	4.1	1.5	47.4	47.7
angladesh	89.8	88.1	64.5	55.2	46.9	63.9	2.1	40.2	36.9
elarus	82.2	72.3	72.4	66.4	5.3	4.8	-0.7	48.6	49.3
elgium	71.3	72.5	46.2	57.3	3.9	4.5	0.9	39.0	43.5
enin	90.0	86.5	59.2	54.8	2.0	3.3	3.3	40.8	38.3
olivia	80.9	84.3	49.9	64.5	2.5	4.2	3.4	39.2	43.6
osnia and Herzegovina	82.4	78.3	66.1	70.5	2.3	2.1	-0.7	44.7	48.1
otswana	76.0	68.2	58.9	46.7	0.5	0.6	1.2	45.2	41.8
Brazil	88.8	83.6	47.6	61.0	62.4	91.3	2.5	35.0	42.9
Julgaria	77.8	62.6	72.3	52.4	4.4	3.1	-2.4	48.0	42.9
Surkina Faso	92.1	90.2	72.3	79.5	3.8	5.8	2.9	46.3	46.6
urundi	90.7	93.2	91.8	92.8	2.8	3.8	2.9	40.3 52.6	40.0 51.9
ambodia	90.7 86.7	93.2 81.4	91.8 81.0	78.0	4.4	5.8 6.8	2.1	52.6	51.9
ameroon	83.5	81.1	58.2	53.9	4.4	6.3	2.3	41.5	39.9
anada	84.9	82.6	68.3	72.8	4.4	17.6	1.2	44.0	46.4
entral African Republic	89.4	89.4	71.7	70.8	1.4	1.8	2.0	44.0	46.4
	79.0	77.0	••••••		2.3	3.7	3.0		46.9
had		···· · ······	64.7	66.0			••••	46.0	•••••••
hile	80.9	76.0	35.2	40.9	5.0	6.5	1.8 1.2	30.5	35.1
hina	88.9	87.8	79.1	75.8	650.1	776.0		44.8	44.5
Hong Kong, China	85.5	81.1	53.0	62.2	2.9	3.7	1.7	36.3	46.6
olombia	85.0	85.2	48.5	65.9	14.1	22.3	3.1	36.9	44.3
ongo, Dem. Rep.	91.2	91.1	62.6	63.1	15.0	22.9	2.8	41.6	41.2
ongo, Rep.	86.3	86.6	57.7	56.1	1.0	1.5	3.0	41.5	40.3
osta Rica	87.6	84.8	35.3	48.6	1.2	2.0	3.5	27.6	35.1
ôte d'Ivoire	90.3	89.1	44.5	40.1	4.6	6.8	2.6	30.2	29.3
roatia	76.9	71.0	55.0	57.5	2.2	2.0	-0.8	42.1	45.0
uba	79.5	82.3	43.5	50.8	4.5	5.4	1.1	34.8	37.4
zech Republic	82.2	77.4	74.1	64.0	5.5	5.2	-0.3	47.4	45.2
enmark	87.1	82.6	77.6	74.2	2.9	2.8	-0.2	46.1	46.8
ominican Republic	85.6	84.0	37.8	48.5	2.6	3.8	2.5	29.6	35.9
cuador	85.9	85.4	33.6	64.1	3.7	6.4	3.6	27.8	42.4
gypt, Arab Rep.	76.7	76.9	27.6	21.6	16.6	22.9	2.1	26.3	21.7
I Salvador	81.9	78.7	53.5	50.4	2.0	2.8	2.3	41.2	40.2
ritrea	92.6	90.7	63.1	59.8	1.2	1.8	2.5	42.4	41.1
stonia	83.0	73.6	76.0	64.4	0.9	0.7	-1.7	49.9	49.4
thiopia	92.3	90.7	74.5	73.5	22.6	31.6	2.2	44.9	44.9
inland	79.0	76.8	72.2	72.8	2.6	2.7	0.2	47.2	47.8
ance	75.0	73.5	57.0	62.4	24.8	27.1	0.6	43.3	45.9
abon	85.5	83.9	65.5	64.1	0.4	0.6	2.7	43.9	43.3
ambia, The	86.2	86.6	63.3	60.3	0.4	0.7	3.4	43.4	41.6
eorgia	78.2	76.1	79.1	52.4	2.9	2.3	-1.7	52.3	43.4
ermany	81.4	79.3	56.8	67.4	38.3	41.0	0.4	40.4	45.2
hana	80.5	75.7	77.5	71.8	6.7	9.8	2.5	48.9	48.0
ireece	76.7	78.8	43.1	56.0	4.2	5.1	1.4	36.2	40.9
luatemala	90.7	84.7	30.2	35.2	2.9	4.1	2.3	24.7	31.2
uinea	90.8	88.6	82.8	82.6	3.0	4.4	2.6	46.2	46.6
Guinea-Bissau	91.4	93.0	60.5	63.1	0.4	0.6	2.9	40.3	40.9
laiti	82.7	83.3	59.1	57.9	2.6	3.7	2.2	43.3	41.7

Labor force structure **2.2**

Labor force participation rate

orce

	M	% ages		nale	Tot millio		Ages 15 and older average annual % growth		nale oor force
	1990	2005	1990	2005	1990	2005	1990-2005	1990	2005
Honduras	89.0	90.5	34.6	56.5	1.6	3.1	4.4	27.7	37.7
Hungary	74.4	66.8	57.3	53.5	4.5	4.2	-0.5	44.5	45.1
India	86.6	84.3	40.3	36.0	335.1	435.0	1.7	29.9	28.4
Indonesia	82.9	87.1	52.1	53.0	75.3	107.2	2.4	38.4	37.9
Iran, Islamic Rep.	82.3	75.5	22.5	40.5	15.6	27.5	3.8	20.2	33.8
Iraq	77.8		16.4		4.7			16.8	
Ireland	77.9	80.4	42.3	62.2	1.3	2.1	3.0	34.3	43.0
Israel	68.1	65.6	46.8	58.7	1.6	2.7	3.4	40.5	47.0
Italy	76.7	74.3	44.6	50.1	23.9	24.4	0.1	37.1	40.1
Jamaica	83.0	78.0	71.3	59.3	1.1	1.2	0.3	46.8	43.6
Japan	83.1	84.8	57.1	60.5	63.9	66.6	0.3	40.6	41.1
Jordan	71.3	79.7	18.6	28.9	0.8	1.8	6.0	18.8	24.4
Kazakhstan	81.6	80.1	68.0	73.6	7.7	8.1	0.3	46.3	49.6
Kenya	90.6	89.6	76.2	73.3	9.8	15.5	3.0	46.0	43.8
Korea, Dem. Rep.	84.0	89.0	56.4	49.9	9.8	10.7	0.6	39.3	38.7
	75.3	77.3	49.7	49.9 54.2	9.7	24.4	1.6	39.3	40.8
Korea, Rep. Kuwait	75.3 83.1	86.4	49.7 35.6	54.2 50.4	19.1 0.9	24.4 1.4	1.6 3.2	39.3 21.8	40.8 25.4
Kyrgyz Republic	78.0	77.5	65.0	59.9	1.8	2.3	1.4	46.2	44.2
Lao PDR	81.6	82.3	56.3	56.4	1.5	2.4	2.8	41.3	40.6
Latvia	83.4	71.9	75.0	63.0	1.5	1.1	-1.9	49.5	48.7
Lebanon	81.5	83.9	34.4	35.7	0.9	1.4	2.7	31.8	30.4
Lesotho	86.8	73.8	59.4	48.7	0.6	0.6	0.3	46.5	44.5
Liberia	85.2	83.8	55.9	55.7	0.8	1.2	2.8	39.4	39.9
Libya	81.4	82.8	19.9	33.9	1.3	2.3	4.1	17.3	27.1
Lithuania	81.7	72.4	70.4	65.9	1.9	1.6	-1.1	48.1	49.2
Macedonia, FYR	77.5	73.2	52.8	47.9	0.9	0.9	0.1	40.0	39.2
Madagascar	83.6	86.3	79.5	79.8	5.4	8.6	3.1	49.2	48.4
Malawi	91.7	89.9	86.2	86.2	4.5	5.9	1.9	50.3	49.8
Malaysia	82.7	83.7	45.3	48.1	7.1	11.0	2.9	34.8	35.8
Mali	90.7	85.1	75.1	74.8	3.8	5.5	2.5	46.0	47.5
Mauritania	87.6	85.1	57.8	56.5	0.8	1.2	2.7	40.7	40.4
Mauritius	86.6	84.1	45.2	46.9	0.5	0.6	1.4	33.9	35.7
Mexico	85.4	83.0	36.2	42.6	29.5	42.3	2.4	30.6	35.2
Moldova	81.5	76.0	70.4	65.4	2.1	2.2	0.1	48.6	47.7
Mongolia	83.7	83.3	59.3	56.2	0.8	1.2	2.4	41.0	40.1
Morocco	83.9	83.8	25.6	28.7	7.5	11.1	2.6	23.7	25.5
Mozambique	88.0	82.7	88.1	84.9	6.3	9.3	2.6	54.0	53.5
Myanmar	89.2	87.7	71.2	70.0	20.0	27.4	2.1	44.6	45.0
Namibia	67.1	64.5	50.6	48.4	0.4	0.6	2.5	44.1	43.6
Nepal	82.5	80.6	50.4	52.5	7.1	10.5	2.6	37.9	40.5
Netherlands	80.0	84.5	53.1	69.5	6.9	8.6	1.4	39.1	44.2
New Zealand	83.0	83.3	63.2	71.2	1.7	2.2	1.7	43.1	44.2
Nicaragua	87.0	87.4	36.8	36.9	1.7	1.9	2.7	30.1	29.8
Niger	94.7	95.5	72.4	73.0	3.6	1.9 5.9	3.4	42.6	42.0
	94.7 86.9	95.5 85.8	49.0			5.9 47.9	3.4 2.5	42.6 36.2	42.0
Nigeria				46.6	32.7				
Norway	82.5	83.6	69.9	77.3	2.2	2.5	0.9	44.7	47.3
Oman Dakiatan	83.8	82.7	15.7	23.6	0.6	1.0	3.5	11.1	16.4
Pakistan	88.1	85.7	28.8	33.7	35.2	56.5	3.2	23.3	27.0
Panama	82.7	83.0	41.6	54.9	0.9	1.5	3.1	32.5	38.8
Papua New Guinea	75.9	75.2	72.3	72.8	1.8	2.6	2.5	46.4	47.6
Paraguay	85.7	86.9	54.4	68.6	1.6	2.8	3.4	38.3	43.5
Peru	82.0	83.5	48.6	61.2	8.5	13.3	3.0	37.0	42.0
Philippines	83.7	84.7	48.7	56.5	23.4	37.1	3.1	36.6	39.8
Poland	79.2	68.8	65.1	57.6	18.6	17.3	-0.5	45.8	45.7
Portugal	82.6	79.7	59.2	67.8	4.8	5.6	1.0	42.7	46.5
Puerto Rico	67.4	67.7	35.0	44.4	1.2	1.5	1.6	35.8	41.5

2.2 Labor force structure

Labor force participation rate

Labor force

	М	% ages	15-64	Female	0		male bor force		
	1990	2005	1990	2005	1990	2005	1990-2005	1990	2005
Romania	77.2	69.5	61.1	55.3	11.0	10.3	-0.4	44.3	46.2
Russian Federation	81.6	75.3	71.7	67.1	77.2	73.2	-0.4	48.3	49.0
Rwanda	88.3	84.9	87.4	82.0	3.1	4.2	2.1	51.0	51.2
Saudi Arabia	81.3	80.4	15.6	18.5	5.1	7.5	2.5	11.4	15.2
Senegal	87.8	83.4	63.4	58.4	3.1	4.6	2.6	43.4	42.5
Serbia and Montenegro	77.0	76.0	54.9	54.7	4.9 ^a	3.9	0.0 ^b	41.7	42.2
Sierra Leone	90.2	94.5	55.6	58.4	1.7	2.4	2.2	38.5	38.5
Singapore	83.9	82.8	54.2	56.7	1.6	2.2	2.4	38.8	39.9
Slovak Republic	82.5	76.4	70.6	62.4	2.6	2.2	0.1	46.3	45.1
Slovenia	76.9	75.5	63.3	66.6	1.0	1.0	0.1	45.5	46.2
Somalia	95.8	95.1	63.1	61.0	2.8	3.5	1.4	39.9	39.2
South Africa	95.8 81.6	81.9	57.4	49.3	14.4	19.6	2.1	41.6	39.2
		81.9		57.2	•••••••				
Spain Sri Lanka	80.3		41.9		16.0	20.9	1.8	34.3	41.0
Sri Lanka	82.9	81.9 70 F	48.2	38.5	7.3	8.4	1.0	34.8	30.4
Sudan Swaziland	78.9	72.5	27.8	24.2	7.8	10.5	2.0	26.0	24.8
	79.6	74.5	39.6	32.9	0.2	0.3	2.7	38.0	32.9
Sweden	86.0	79.0	81.9	74.9	4.7	4.7	-0.1	47.7	47.4
Switzerland	90.2	87.6	62.8	75.3	3.7	4.2	0.9	40.4	46.6
Syrian Arab Republic	83.7	89.2	29.7	39.9	3.7	7.6	4.8	26.2	30.6
Tajikistan	77.6	65.8	56.2	49.5	1.9	2.1	0.8	42.2	43.8
Tanzania	92.1	90.7	90.2	88.2	12.8	19.3	2.7	50.2	49.4
Thailand	90.6	84.5	79.2	71.0	30.4	35.7	1.1	46.6	46.2
Togo	90.8	90.4	55.2	51.7	1.5	2.4	3.1	38.5	36.9
Trinidad and Tobago	79.7	82.5	45.9	51.4	0.5	0.6	1.9	36.1	38.9
Tunisia	79.2	78.4	22.1	31.1	2.4	3.8	3.0	21.5	27.6
Turkey	84.5	76.0	36.2	27.2	21.0	26.6	1.6	29.4	26.4
Turkmenistan	80.0	76.5	69.1	65.1	1.5	2.2	2.4	46.9	46.7
Uganda	92.4	87.3	82.0	81.2	7.8	11.9	2.8	47.5	48.3
Ukraine	79.7	72.4	70.7	62.9	26.3	22.3	-1.1	49.2	49.1
United Arab Emirates	92.4	92.0	25.9	39.0	0.9	2.7	7.3	9.8	13.4
United Kingdom	87.9	81.9	67.2	69.3	29.4	30.6	0.3	44.0	46.0
United States	85.1	81.5	67.5	70.1	129.3	155.5	1.2	44.4	46.2
Uruguay	85.9	86.1	54.3	66.3	1.4	1.8	1.6	39.9	44.2
Uzbekistan	78.5	75.7	64.4	60.6	8.2	11.3	2.2	45.4	44.6
Venezuela, RB	82.4	85.7	39.8	61.9	7.3	12.9	3.8	31.8	40.9
Vietnam	85.5	82.4	79.4	77.4	31.3	44.0	2.3	48.3	48.5
West Bank and Gaza	67.0	68.8	9.5	10.9	0.4	0.8	4.5	11.9	13.1
Yemen, Rep.	76.1	77.5	28.6	30.8	3.0	5.9	4.6	27.3	27.9
Zambia	90.4	91.5	67.8	68.3	3.5	4.9	2.4	43.2	42.2
Zimbabwe	81.0	85.2	69.9	64.5	4.3	5.8	2.0	47.2	44.0
World	85.5 w	83.8 w	58.9 v	v 57.9 w	2,390.7 t	3,027.5 t	1.6 w	39.9 w	40.1 w
Low income	87.0	85.0	50.6	47.8	699.6	965.3	2.1	35.7	35.0
Middle income	85.8	84.0	63.9	62.7	1,263.5	1,569.4	1.4	41.8	42.1
Lower middle income	86.7	85.4	66.2	65.1	1,031.9	1,301.1	1.5	42.0	42.3
Upper middle income	82.2	77.9	55.0	52.6	231.6	268.3	1.0	40.6	40.9
Low & middle income	86.3	84.4	59.0	56.7	1,963.1	2,534.7	1.7	39.6	39.4
East Asia & Pacific	87.8	87.0	74.3	71.4	856.8	1,063.4	1.4	44.1	43.8
Europe & Central Asia	80.8	74.0	65.1	57.9	223.8	219.1	-0.1	45.6	44.9
Latin America & Carib.	85.9	83.5	43.8	56.0	171.0	252.9	2.6	34.0	40.7
Middle East & N. Africa	79.9	79.3	24.5	31.1	64.9	108.3	3.4	22.9	27.6
South Asia	86.9	84.8	41.7	38.1	437.0	585.0	1.9	30.6	29.4
Sub-Saharan Africa	87.8	86.3	65.1	62.6	209.7	306.0	2.5	43.0	42.1
High income	82.1	80.4	58.6	63.8	427.6	492.8	0.9	41.3	43.7
Europe EMU	78.5	77.4	51.7	61.1	131.5	147.2	0.8	39.6	43.7

a. Includes population of Kosovo and Metahia until 1999. b. Data are for 1990-99.

The labor force is the supply of labor available for the production of goods and services in an economy. It includes people who are currently employed and people who are unemployed but seeking work as well as first-time job-seekers. Not everyone who works is included, however. Unpaid workers, family workers, and students are among those usually omitted, and in some countries members of the military are not counted. The size of the labor force tends to vary during the year as seasonal workers enter and leave it.

Data on the labor force are from labor force surveys, censuses, establishment censuses and surveys, and various types of administrative records such as employment exchange registers and unemployment insurance schemes. For some countries a combination of these sources is used. While the resulting statistics may provide rough estimates of the labor force, they are not comparable across countries or sometimes within countries because of the noncomparability of the original data, differences in concepts and methodologies, and the different ways the original sources may be combined.

Labor force surveys are the most comprehensive source for internationally comparable labor force data. They can be designed to cover all noninstitutionalized civilians, all branches and sectors of the economy, and all categories of workers, including people who hold multiple jobs. By contrast, labor force data obtained from population censuses are often based on a limited number of questions on the economic characteristics of individuals, with little scope to probe. The resulting data are often contrary to labor force survey data and often vary considerably from country to country, depending on the scope and coverage of the census. Establishment censuses and surveys provide data only on the employed population, leaving out unemployed workers, workers in small establishments, and workers in the informal sector (International Labour Organization, Key Indicators of the Labour Market 2001-2002).

The reference period of the census or survey is another important source of differences: in some countries data refer to people's status on the day of the census or survey or during a specific period before the inquiry date, while in others the data are recorded without reference to any period. In developing countries, where the household is often the basic unit of production and all members contribute to output, but some at low intensity or irregular intervals, the estimated labor force may be significantly smaller than the numbers actually working.

The labor force participation rates presented in the table are from the International Labour Organization's (ILO) Estimates and Projections of the Economically Active Population, 5th edition. These new estimates used stricter data selection criteria and enhanced

methods to ensure comparability across countries and over time, including collection and tabulation methodologies as well as for country-specific factors such as military service requirements. The estimates are based mainly on labor force surveys. Some population census estimates are also included in the estimates, but only when no labor force survey data are available. Data from official government estimates are not included as these methodologies can differ significantly across countries and over time. Data with limited age group and geographic coverage are also excluded.

The labor force participation rate of the population ages 15–64 provides an indication of the relative size of the labor supply. But in many developing countries children under age 15 work full or part time. And in some high-income countries many workers postpone retirement past age 65. As a result, labor force participation rates calculated in this way may systematically over- or under-estimate actual rates. For further information on the labor force participation rate, consult the original source.

The labor force estimates in the table were calculated by World Bank staff by applying labor force participation rates from the ILO database to World Bank population estimates to create a series consistent with these population estimates. This procedure sometimes results in estimates of labor force size that differ slightly from those in the ILO's Yearbook of Labour Statistics and its database Key Indicators of the Labour Market. The labor force estimates in this year's World Development Indicators, as were last year's, are for the population ages 15 and older. In previous editions the labor force included children under age 15. For this reason, labor force estimates are not comparable across editions.

In general, estimates of women in the labor force are lower than those of men and are not comparable internationally, reflecting the fact that for women demographic, social, legal, and cultural trends and norms determine whether their activities are regarded as economic. In many countries large numbers of women work on farms or in other family enterprises without pay, while others work in or near their homes, mixing work and family activities during the day. Countries differ in the criteria used to determine the extent to which such workers are to be counted as part of the labor force. In most economies the gap between male and female labor force participation rates has been narrowing since 1980. This stems from both falling rates for men and rising rates for women. The largest gap between men and women in labor force participation is observed in the Middle East and North Africa, where low participation of women in the work force also brings down the overall labor force participation rate.

Definitions

• Labor force participation rate is the proportion of the population ages 15–64 that is economically active: all people who supply labor for the production of goods and services during a specified period. • Total labor force comprises people ages 15 and older who meet the ILO definition of the economically active population. It includes both the employed and the unemployed. • Average annual growth rate of the labor force is calculated using the exponential endpoint method (see *Statistical methods* for more information). • Females as a percentage of the labor force show the extent to which women are active in the labor force.

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Data sources

The labor force participation rates are from the ILO database Estimates and Projections of the Economically Active Population, 1980–2020, 5th edition. The ILO publishes estimates of the economically active population in its *Yearbook of Labour Statistics*. Labor force numbers were calculated by World Bank staff, applying labor force participation rates from the ILO database to population estimates.

2.3 Employment by economic activity

	Agriculture			Indu	istry			Serv	rices			
	% of r employ	Male % of male employment 1990–92 ª 2000–05 ª		Female % of female employment 1990–92ª 2000–05ª 2		Male % of male employment 1990–92ª 2000–05ª 19		Female % of female employment 1990–92ª 2000–05ª		ale male yment 2000–05 ª	Female % of female employment 1990–92ª 2000–05ª	
Afghanistan	••		••		••	••				••		
Albania												
Algeria	••	20	••	22		26	••	28		54		49
Angola												
Argentina	0 ^{b, c}	2 ^c	0 ^{b, c}	1 ^{b, c}	40 ^c	33 ^c	18 ^c	11 ^c	59 ^c	66 ^c	81 ^c	88 ^c
Armenia		••	••	••		••	••	••				••
Australia	6	5 ^c	4	3°	32	31 ^c	12	9°	61	65 ^c	84	88 ^c
Austria	6	6 ^c	8	6 ^c	47	40 ^c	20	13 ^c	46	55 ^c	72	81 ^c
Azerbaijan		41	••	37		15	••	9		44		54
Bangladesh	54	50	85	59	16	12	9	18	25	38	2	23
Belarus	••	••	••			••	••	••				
Belgium	3 ^c	3 ^c	2 ^c	1 ^c	41 ^c	35 ^c	16 ^c	11 ^c	56 ^c	62 ^c	81 ^c	82 ^c
Benin												
Bolivia	3 ^c	6 ^c	1 ^c	3 ^c	42 ^c	39 ^c	17 ^c	14 ^c	55 ^c	55 ^c	82 ^c	82 ^c
Bosnia and Herzegovina	••	••	••	••	••	••	••	••		••		
Botswana	••	26	••	19	••	29	••	13	••	43	••	58
Brazil	31 ^c	25 ^c	25 ^c	16 ^c	27 ^c	27 ^c	10 ^c	13 ^c	43 ^c	48 ^c	65 ^c	71 ^c
Bulgaria		11		7		39		29		50		64
Burkina Faso		••	••	••	•••	••	••	••	•••	•••	•••	••
Burundi	••	••		••	••	••	••		••		••	
Cambodia	••	61		59		12		13	••	27	••	27
Cameroon	53		68		14	••	4		26		23	
Canada	6 ^c	4 ^c	2 ^c	2 ^c	31 ^c	32 ^c	11 ^c	11 ^c	64 ^c	64 ^c	87 ^c	88 ^c
Central African Republic	••									••		
Chad	••	••	••	••	•••	••	••	••	•••	•••	•••	
Chile	24	17	6	6	32	29	15	12	45	54	79	83
China										••		
Hong Kong, China	1	0 ^b	0 ^b	0 ^b	37	22	27	7	63	77	73	93
Colombia	_ 2 ^c	32	1 ^c	8	35 ^c	21	25 ^c	16	63 ^c	48	74 ^c	76
Congo, Dem. Rep.												
Congo, Rep.	••	••	••	••	•••	••	••	••		•••		
Costa Rica	32	21	5	5	27	26	25	13	41	52	69	82
Côte d'Ivoire												
Croatia	••	 16	••	 19	••	 37	••	 18		47	··· ··	 63
Cuba	••	28	••	10	•••	23	••	14	•••	50	•••	76
Czech Republic	 9	5	 7	3	 55	49	33	27	 36	46	 61	71
Denmark	7	4	3	2	37	34	16	12	56	62	81	86
Dominican Republic	26	4 23	3 3	2	23	24	21	12	50	53	76	83
Ecuador	20 10 ^c	23 11 ^c	2 ^c	2 4 ^c	23 29 ^c	24 27 ^c	17 ^c	15 12 ^c	62 ^c	62 ^c	81 ^c	84 ^c
Egypt, Arab Rep.	35	28	52	39	29-	21-	10	6	41	49	37	55
El Salvador	35 48	28 30	52 15	39	25	23	23	22	29	49	63	55 75
Eritrea												
	 23	 7	 13	 4	 42	 44	 30	 24	 36	 49	 57	 72
Estonia Ethiopia					••••••	••••••	••••••		36	••••••	••••••	
Ethiopia Finland		 7		 2	 20	 20					 70	
Finland	11		6	3	38	38	15	12	51	56	78	84
France	••	5	••	3	••	35	••	12	••	60	••	84
Gabon	••	••	••	••	••	••	••	••		••		••
Gambia, The	••		••		••		••					
Georgia		52		57		14		4		34		38
Germany	4	3	4	2	50	41	24	16	47	56	72	82
Ghana	66	60	59	50	10	14	10	15	23	27	32	36
Greece	20 ^c	12 ^c	26 ^c	14 ^c	32 ^c	30°	17 ^c	10°	48 ^c	58°	56 ^c	76 ^c
Guatemala	••	50	••	18		18	••	23		27		56
Guinea	••		••				••	••				••
Guinea-Bissau	••	••	••	••	••	••	••	••	••	••	••	••
Haiti												

Employment by economic activity **2.3**

		Agriculture				Indu	ıstry			Serv	ervices					
	% of employ	Maie % of maie employment 1990-92ª 2000-05ª		Female % of female employment 1990–92ª 2000–05ª 1		Male % of male employment 1990–92ª 2000–05ª		Female % of female employment 1990–92^a 2000–05^a		ale male yment 2000–05ª	Female % of female employment 1990-92^a 2000-05^a					
Honduras	53 ^c	51 ^c	6 ^c	13 ^c	18 ^c	20 ^c	25 ^c	23 ^c	29 ^c	29 ^c	69 ^c	63 ^c				
Hungary		7 ^c		3c		42 ^c		21 ^c		51 ^c		76 ^c				
India		••				••		••	••		••					
Indonesia	54	43	57	45	15	20	13	15	31	37	31	40				
Iran, Islamic Rep.	••	23	••	34		31		28		46		37				
Iraq																
Ireland	19	9	3	1	33	39	18	12	48	51	78	86				
Israel Italy	5	3 5	2 9	1 3	38 37	32 39	15 22	11 18	57 55	64 56	83 70	88 79				
Jamaica	36	25	16	9	25	27	12	5	39	48	70	86				
Japan	6	4	7	5	40	35	27	18	54	59	65	77				
Jordan		4	 	2	+0	23		13		73		83				
Kazakhstan		35		32		24		10		41		58				
Kenya	19 ^c		20 ^c		23 ^c		9 ^c	•••	58 ^c	•••	71 ^c					
Korea, Dem. Rep.	••															
Korea, Rep.	14	7	18	9	40	34	28	17	46	59	54	74				
Kuwait	••	••	••		••		••		••	••	••					
Kyrgyz Republic		51		55		13		7		36		38				
Lao PDR	••	••	••	••	••	••	••	••	••	••	••					
Latvia		15 ^c	••	8 ^c		35 ^c		16 ^c		49 ^c	••	75 ^c				
Lebanon		••	••													
Lesotho																
Liberia		••		••	••							••				
Libya		••	••					···	···							
Lithuania	25	17	15	11	46	37	31	21	29	46	54	68				
Macedonia, FYR		20		19	••	34		30	••	46		51				
Madagascar	••	77	••	79		7		6	••	16		15				
Malawi																
Malaysia	23	16	20	11	31	35	32	27	46	49	48	62				
Mali		••	••	••	••	••	••	••	••			••				
Mauritania	 15 ^c	 11	 13 ^c	 9	 36 ^c	 34	 48 ^c	 29	 48 ^c	 55	 39 ^c	 62				
Mauritius Mexico	33	21	10	5	25	34	19	19	48	49	62	76				
Moldova		41		40		21		12		38	•••••••••••••••••••••••••••••••••••••••	48				
Mongolia	••	43		38		19		14		39	··· ··	49				
Morocco		41		63		23		15	····	36		22				
Mozambique	••	••	••					••	••							
Myanmar			••			••		••	••							
Namibia	45	33	52	29	21	17	8	7	32	49	29	63				
Nepal	••	••	••	••	••	••	••	••	••	••	••	••				
Netherlands	5	4	3	2	33	30	10	8	60	62	82	86				
New Zealand	13	9	8	5	31	32	13	11	56	59	80	84				
Nicaragua		43		10		19		17		32		52				
Niger	••	••														
Nigeria																
Norway	7	5	3	2	34	32	10	8	58	63	86	90				
Oman		7		5		11		14		82		80				
Pakistan	45	38	69	65	20	22	15	16	35	40	16	20				
Panama	35	22	3	4	20	22	11	9	45	56	85	86				
Papua New Guinea	 3 ^c		 O ^{b, c}													
Paraguay	3° 1°	39 1 ^c	0b, c	20 0 ^c	33°	19 31 ^c	19 ^c	10 13 ^c	64 ^c	42	80 ^c	70 86 ^c				
Peru					30 ^c		13 ^c		69 ^c	68 ^c	87 ^c					
Philippines Poland	53	45 18 ^c	32	25 17 ^c	17	17 39 ^c	14	12 17 ^c	29	39 43 ^c	55	64 66 ^c				
Portugal	 10	18°	 13	175	 39	39° 42	 24	21	 51	43°	 63	66				
Puerto Rico	5	3	0 ^b	0 ^b	27	42 25	19	11	67	72	80	89				
	D	3	U	U	21	20	ΤΆ	<u> </u>	10	12	00	03				

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2.3 Employment by economic activity

	Agriculture			Indu	ıstry			Serv	vices			
	% of n employ	Male % of male employment 1990-92^a 2000-05^a 1		Female % of female employment 1990-92^a 2000-05^a 1		Male % of male employment 1990-92^a 2000-05^a 1		Female % of female employment		ale male yment 2000-05ª	% of f	nale emale yment 2000_05ª
Romania	29	31	38	33	44	35	30	25	28	34	33	42
Russian Federation	••	12	••	8		38		21	••	50		71
Rwanda	••	·· ·							••	 		
Saudi Arabia		5	••	1	••	24	••	1	••	71	••	98
Senegal	••	••	••	••	••	••	••	••	••	••	••	••
Serbia and Montenegro	••	••	••	••	••	••	••	••	••	••	••	••
Sierra Leone		 O ^b	 O ^b	 O ^b	 วด							
Singapore	1	6 ^c		3 ^c	36	36 50 ^c	32	21 25 ^c	63	63 44 ^c	68	79 72 ^c
Slovak Republic	••	9	••	9	••	47	••	25	••	44-		65
Slovenia Somalia	••		••		••		••	••••••	••	••••••	••	••••••
South Africa	••	 13	••	 7	••	 33	••	 14	••	 54	••	 79
Spain	 11 ^c	13 6 ^c	 8 ^c	4 ^c	 41 ^c	33 41 ^c	 16 ^c	14 12 ^c	 49 ^c	54 52 ^c	 76 ^c	79 84 ^c
Sri Lanka		32 ^c		40 ^c		40 ^c	••••••	35°	••••••	29 ^c	••••••	25°
Sudan	••		••		••		••	••••••	····			••••••
Swaziland		••	••	••	·· ··		••	••	 			·· ··
Sweden	 5	 3	 2	 1	40	 34	 12	 9	 55	 63	 86	 90
Switzerland	4	5°	4	3 ^c	37	32 ^c	15	12 ^c	59	63 ^c	81	85 ^c
Syrian Arab Republic		24		58		31		7		45		35
Tajikistan		- · 										
Tanzania	 78 ^c	 80 ^c	 90 ^c	 84 ^c	 7 ^c	 4 ^c	 1 ^c	 1 ^c	 15 ^c	 16 ^c	 8 ^c	 15 ^c
Thailand	59	44	60	41	16	22	14	19	25	34	25	41
Togo		••										
Trinidad and Tobago	15	10	6	2	34	37	14	14	51	53	80	84
Tunisia												
Turkey	33	22	72	52	26	28	11	15	41	50	17	33
Turkmenistan							••					
Uganda	91	60	91	77	4	11	6	5	5	28	3	17
Ukraine		21		17		38	•••	21		41		62
United Arab Emirates		9		0 ^b		36		14	••	55	····	86
United Kingdom	3	2	1	1	41	33	16	9	55	65	82	90
United States	4	2	1	1	34	30	14	10	62	68	85	90
Uruguay	7 ^c	7 ^c	1 ^c	2 ^c	36 ^c	29 ^c	21 ^c	13 ^c	57 ^c	64 ^c	78 ^c	86 ^c
Uzbekistan		••			••			••	••	••	••	••
Venezuela, RB	17	16 ^c	2	2 ^c	32	25 ^c	16	11 ^c	52	59 ^c	82	86 ^c
Vietnam	••	56	••	60	••	21	••	14	••	23		26
West Bank and Gaza		12		34		28	••	8		59		56
Yemen, Rep.	••	••	••	••	••	••	••	••	••	••	••	••
Zambia	••	••	••	••	••	••		••				••
Zimbabwe			••	••	••	••			••			
World	w	w	w	w	w	w	w	w	w	w	w	w
Low income					••							
Middle income	••	••	••	••		••		••	••	••		
Lower middle income		••	••									
Upper middle income	••	16	••	12	••	34		19		50		69
Low & middle income		••	••	••	••	••	••	••		••	••	••
East Asia & Pacific		••	••	••	••	••	••	••		••	••	
Europe & Central Asia		17		17		35	••	20		47		63
Latin America & Carib.	20	21	14	10	30	27	14	14	50	52	72	76
Middle East & N. Africa	••	••	••	••	••	••		••	••	••		••
South Asia			••	••		••						
Sub-Saharan Africa												
High income	6	4	5	2	38	34	19	12	56	62	77	96
Europe EMU	7	5	7	3	42	39	20	15	50	56	72	82

Note: Data across sectors may not sum to 100 percent because of workers not classified by sectors. a. Data are for the most recent year available. b. Less than 0.5. c. Limited coverage.

The International Labour Organization (ILO) classifies economic activity using the International Standard Industrial Classification (ISIC) of All Economic Activities, revision 2 (1968) and revision 3 (1990). Because this classification is based on where work is performed (industry) rather than on what type of work is performed (occupation), all of an enterprise's employees are classified under the same industry, regardless of their trade or occupation. The categories should add up to 100 percent. Where they do not, the differences arise because of workers who cannot be classified by economic activity.

Data on employment are drawn from labor force surveys, household surveys, official estimates, censuses and administrative records of social insurance schemes, and establishment surveys when no other information is available. The concept of employment generally refers to people above a certain age who worked, or who held a job, during a reference period. Employment data include both full-time and part-time workers.

There are many differences in how countries define and measure employment status, particularly parttime workers, members of the armed forces, and household or contributing family workers. Where the armed forces are included, they are allocated to the service sector, causing that sector to be somewhat overstated relative to the service sector in economies where they are excluded. Where data are obtained from establishment surveys, they cover only employees; thus self-employed and contributing familv workers are excluded. In such cases the employment share of the agricultural sector is severely underreported. Caution should be also used where the data refer only to urban areas, which record little or no agricultural work. Moreover, the age group and area covered could differ by country or change over time within a country. For detailed information on breaks in series, consult the original source.

Countries also take different approaches to the treatment of unemployed people. In most countries unemployed people with previous job experience are classified according to their last job. But in some countries the unemployed and people seeking their first job are not classifiable by economic activity. Because of these differences, the size and distribution of employment by economic activity may not be fully comparable across countries.

The ILO's Yearbook of Labour Statistics and its database Key Indicators of the Labour Market report data by major divisions of the ISIC revision 2 or revision 3. In this table the reported divisions or categories are aggregated into three broad groups: agriculture. industry, and services. Such broad classification may obscure fundamental shifts within countries' industrial patterns. A slight majority of countries report economic activity according to the ISIC revision 2 instead of ISIC revision 3. The use of one classification or another should not have a significant impact on the information for the three broad sectors presented in this table.

The distribution of economic wealth in the world remains strongly correlated with employment by economic activity. The wealthier economies are those with the largest share of total employment in services, whereas the poorer economies are largely agriculture based.

Box 2.3a

Lower wages and less rewarding employment opportunities mean higher risk of poverty for women

Within any employment status, women's earnings in Egypt tend to be lower than men's (see table). A small- and micro-enterprise survey for Egypt found that while workers' wages increased with firm size, women accounted for a decreasing share of total employment. Taken together, less rewarding employment opportunities and lower wages mean that women face a higher risk of poverty.

Average wages per worker and women's share of employment by firm size in Egypt, 2003

Size of firm	Average wages (2002 Egyptian pounds)	Women as share of total employment (%)
1 worker	112.8	17.1
2-4 workers	172.1	9.4
5-9 workers	290.1	7.9
10-24 workers	1,073.4	5.9
Total (firms of all sizes)	160.1	14.3

The distribution of economic activity by gender reveals some clear patterns. Men still make up the majority of people employed in all three sectors, but the gender gap is biggest in industry. Employment in agriculture is also male-dominated, although not as much as industry. Segregating one sex in a narrow range of occupations significantly reduces economic efficiency by reducing labor market flexibility and thus the economy's ability to adapt to change. This segregation is particularly harmful for women, who have a much narrower range of labor market choices and lower levels of pay than men (see box 2.3a). But it is also detrimental to men when job losses are concentrated in industries dominated by men and job growth is centered in service occupations, where women have better chances, as has been the recent experience in many countries.

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There are several explanations for the rising importance of service jobs for women. Many service jobssuch as nursing and social and clerical work-are considered "feminine" because of a perceived similarity to women's traditional roles. Women often do not receive the training needed to take advantage of changing employment opportunities. And the greater availability of part-time work in service industries may lure more women, although it is unclear whether this is a cause or an effect.

Definitions

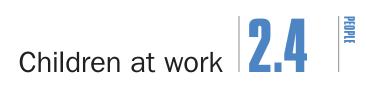
· Agriculture corresponds to division 1 (ISIC revision 2) or tabulation categories A and B (ISIC revision 3) and includes hunting, forestry, and fishing. • Industry corresponds to divisions 2-5 (ISIC revision 2) or tabulation categories C-F (ISIC revision 3) and includes mining and quarrying (including oil production), manufacturing, construction, and public utilities (electricity, gas, and water). • Services correspond to divisions 6–9 (ISIC revision 2) or tabulation categories G-P (ISIC revision 3) and include wholesale and retail trade and restaurants and hotels; transport, storage, and communications; financing, insurance, real estate, and business services; and community, social, and personal services

Data sources

Data on employment are from the ILO database Key Indicators of the Labour Market, 4th edition.

Children at work

	Survey year		Economi	cally activ	e children			Emplo	oyment by e	economic ad	ctivity ^a	
			% of childrer ages 7–14	1	% of econom children a	ges 7–14	Agric	culture	children a	nically active ages 7–14 acturing	Ser	vices
		Total	Male	Female	Work only	Work and study	Male	Female	Male	Female	Male	Female
Afghanistan											•••	
Albania	2000	36.6	41.1	31.8	43.1	56.9	••	••	••	••	••	••
Algeria										••		
Angola ^b	2001	30.1	30.0	30.3	26.6	73.4						
Argentina	1997	20.7	25.4	16.0	8.6	91.4	••		••	••		••
Armenia								••				
Australia				••	••	••	••		••	••		
Austria							••					
Azerbaijan	2000	9.7	12.0	7.3	4.2	95.8						
Bangladesh	2003	17.5	20.9	13.9	63.3	36.7	61.4	64.0	11.6	15.5	25.2	18.3
Belarus		••	••		••			••				
Belgium		••	••	••	••	••	••	••	••	••	••	
Benin Bolivia	2000	 19.2	 20.4	 18.0	 19.7	 80.3	 77.8	 72.9	 4.3	 3.5		23.6
	2000	20.2	20.4	18.0		96.0				-	15.0	
Bosnia and Herzegovina Botswana	2000				4.0		••	••	••	••	••	••
Brazil	2003	 7.1	 9.5	 4.6	 5.8	 94.2	 64.3	 49.8	 6.5	 9.1	 26.8	40.9
Bulgaria	2003			4.0			04.5	43.0	0.5			40.3
Burkina Faso ^c	1998	 66.5	 65.4	 67.7	 95.9	 4.1	 98.0	 98.2	 0.6	 0.5	 1.3	1.2
Burundi	2000	37.0	38.4	35.7	48.3	51.7						
Cambodia	2000	52.3	52.4	52.1	16.5	83.5	 78.5	 73.6	4.7	 5.4	 15.7	20.4
Cameroon ^c	2001	15.9	14.5	17.4	52.5	47.5	90.4	86.3	1.9	2.3	5.1	8.8
Canada											····	
Central African Republic	2000	67.0	66.5	67.6	54.9	45.1						••
Chad	2000	69.9	73.5	66.5	44.6	55.4	••	••	••	••	••	••
Chile	2003	8.8	10.5	6.9	4.0	96.0	31.5	11.9	7.6	5.8	58.5	80.6
China			••	••	••	••	••	••	••	••	••	
Hong Kong, China		••	••	••	••	••	••	••			••	
Colombia	2001	12.2	16.6	7.7	23.0	77.0						
Congo, Dem. Rep.	2000	39.8	39.9	39.8	35.7	64.3					••	••
Congo, Rep.		••	••	••	••	••	••	••	••	••	••	
Costa Rica	2002	6.7	9.7	3.5	20.8	79.2	56.5	55.2	8.7	2.7	28.0	42.1
Côte d'Ivoire	2000	40.7	40.9	40.5	46.4	53.6						
Croatia				••	••	••	••		••	••		
Cuba						••	••					
Czech Republic			••		••	••	••		••	••	••	
Denmark							••	••	••	••	••	
Dominican Republic	2000	12.5	16.7	8.1	7.2	92.8						
Ecuador	2001	17.9	22.1	13.6	25.0	75.0	65.1	69.2	10.7	8.6	21.2	22.1
Egypt, Arab Rep. El Salvador	1998 2003	6.4 12.7	4.0	8.9 8.1	60.9	39.1						
Eritrea	2003		17.1		19.5	80.5	66.4	17.6	10.8	16.1	21.2	66.3
Estonia		••	••	••	••	••	••	••	••	••	••	
Ethiopia	2001	 57.1	 67.9	 45.9	 63.5	 36.5	 96.5	 88.7	 0.5	 2.8	 2.5	6.2
Finland				+5.5								v.2
France			••	••	••	••	••	••	••	••	•••	
Gabon												
Gambia, The	2000	25.3	25.4	25.3	41.6	58.4						
Georgia												
Germany							••	••	••		•••	
Ghana	2000	28.5	28.5	28.4	36.4	63.6	81.0	59.1	4.5	7.6	13.8	32.0
Greece		••	••	••	••	••	••		••	••	••	
Guatemala	2000	20.1	25.9	13.9	38.5	61.5	74.5	39.8	5.9	20.1	14.7	40.0
Guinea	1994	48.3	47.2	49.5	98.6	1.4						
Guinea-Bissau	2000	67.5	67.4	67.5	63.7	36.3		••				
Haiti		••			••				••	••		



	Survey year		Economic	ally activ	e children			Emplo	oyment by e	conomic ac	tivity ^a	
			% of children ages 7–14		% of econom children a		Agric	ulture	children a	nically active ages 7–14 acturing	Ser	vices
		Total	Male	Female	Work only	study	Male	Female	Male	Female	Male	Female
Honduras	2002	11.4	16.5	6.1	41.9	58.1	73.6	19.8	5.9	24.4	18.6	55.7
Hungary			••		••			••	••	••		
India	2000	5.2	5.3	5.1	89.8	10.2	70.5	76.6	10.0	15.4	15.9	6.5
Indonesia			••		••		••	••	••	••		
Iran, Islamic Rep.	2000	 13.7	 17.4	 9.7	 51.7	 48.3	••	••	••	••	••	
Iraq Ireland	2000			 		40.3		···		••		••
Israel												
Italy												
Jamaica	2000	1.1	1.5	0.6	17.1	82.9	36.8	17.1	6.2	11.6	43.6	71.3
Japan					••	••						
Jordan		••		••		••	••		••	••	••	
Kazakhstan	1996	29.7	30.3	29.1	4.4	95.6						
Kenya	1999	6.7	6.9	6.4	44.8	55.2	87.3	74.4	2.5	0.3	8.8	25.3
Korea, Dem. Rep.		••	••	••	••	••	••	••	••	••	••	
Korea, Rep. Kuwait		••	••	••	••	••	••	••	••	••	••	
Kyrgyz Republic	1998	 8.6	 9.7	 7.6	 7.0	 93.0	 93.0	 96.3	 0.0	 0.0	 7.0	2.7
Lao PDR	1000		 									2.1
Latvia							••	••	••	••	••	
Lebanon		••	••		••		••	••	••	••	••	
Lesotho	2000	30.8	34.2	27.5	17.6	82.4		••	••		••	
Liberia			••		••			••				
Libya		••	••	••	••	••	••	••	••	••	••	
Lithuania			••		••		••	••	••	••		
Macedonia, FYR	2001							 93.9				2.0
Madagascar Malawi	2001 2000	25.6 10.6	26.1 9.4	25.1 11.6	85.1 17.1	14.9 82.9	94.1		0.6	1.4	2.0	2.9
Malaysia	2000	10.0	5.4				••	·· 	••	·· 	••	••
Mali	2001	25.3	32.3	18.6	68.7	31.3						••
Mauritania		••	••	••	••	••	••	••	••	••	••	
Mauritius		••	••	••	••	••	••	••	••	••	••	
Mexico ^d	1996	14.7	20.0	9.5	45.6	54.4	61.3	38.3	11.4	12.9	22.6	48.2
Moldova	2000	33.5	34.1	32.8	3.8	96.2						
Mongolia	2000	22.0	23.5	20.6	28.2	71.8						
	1998–99	13.2	13.5	12.8	93.2	6.8	60.8	60.3	8.1	8.5	13.5	6.4
Mozambique Myanmar		••	••	••	••	••	••	••	••	••	••	
Namibia	1999	 15.4	 16.2	 14.7	 9.5	 90.5	 91.5	 91.7	 0.4	 0.4	 8.1	8.0
Nepal	1999	47.2	42.2	52.4	35.6	64.4	89.0	86.1	1.2	1.5	9.7	12.3
Netherlands			••		••			••				
New Zealand			••		••		••		••		••	
Nicaragua	2001	12.1	17.5	6.5	33.3	66.7	73.2	32.0	3.0	10.2	23.3	57.8
Niger			••		••		••					
Nigeria		••	••	••	••	••	••	••	••	••	••	
Norway		••	••	••	••	••	••	••	••	••	••	
Oman Pakistan							••	••				
Panama	2000	 4.0	 6.4	 1.4	 37.5	 62.5	 71.1	 38.4	 1.4	 8.0	 27.2	49.5
Papua New Guinea	2000	ч.0 		 								
Paraguay	1999	8.1	11.7	4.4	24.2	75.7	61.2	30.9	3.8	4.6	33.1	64.5
Peru	1994	17.7	20.4	15.2	7.3	92.7	78.9	76.3	3.6	3.4	17.5	20.3
Philippines Poland	2001	13.3 	16.3 	10.0 	14.8 	85.2 	72.6 	53.6 	3.6 	5.3 	22.1 	41.0
Portugal Puerto Rico	2001	3.6 	4.6 	2.6 	3.6 	96.4 	52.7 	40.7 	11.4 	10.7 	25.6 	47.7

Children at work

	Survey year		Economi	cally activ	e children			Emplo	yment by e	conomic ac	tivity ^a	
		Total	% of children ages 7–14 Male	Female	% of econom children a Work only		Agric	culture Female	children a	nically active ages 7–14 acturing Female	Ser Male	vices Female
Romania	2000	1.4	1.7	1.1	20.7	79.3	96.4	98.1	0.0	0.0	2.6	1.9
Russian Federation	2000										2.0	1.5
Rwanda	2000	 33.1	 36.1	30.3	 27.5	 72.5	••			••		
Saudi Arabia	2000											
Senegal	2000	 35.4	 43.2	 27.7	 56.2	 43.8	••	••	••	••	••	
Serbia and Montenegro	2000						••	••	••		••	••
Sierra Leone	2000	 74.0	 24.7	 72.7	 53.8	 46.2	••	••	••	••	••	
Singapore	2000		••••	•••••••			••	••	••	••		••
<u> </u>		••	••		••			••	••	••	••	
Slovak Republic Slovenia		••	••	••	••	••	••	••	••	••	••	
		••	••	••	••		••	••	••	••	••	
Somalia	4000						••	••	••	••	••	
South Africa	1999	27.7	29.0	26.4	5.1	94.9	••	••	••	••	••	••
Spain	4000											10 5
Sri Lanka	1998	17.0	20.4	13.4	5.4	94.6	71.1	71.4	12.0	15.0	15.8	13.5
Sudan	2000	19.1	21.5	16.8	55.9	44.1	••	••	••	••	••	••
Swaziland	2000	11.2	11.4	10.9	14.0	86.0	••	••	••	••	••	
Sweden		••		••		••	••	••	••	••	••	
Switzerland		••		••		••	••	••	••		••	
Syrian Arab Republic			••		••			••	••		••	
Tajikistan												
Tanzania	2001	40.4	41.5	39.2	40.0	60.0	83.5	73.1	0.1	0.2	16.3	26.7
Thailand		••		••			••	••		••	••	
Togo	2000	72.5	73.4	71.6	28.4	71.6	••	••	••	••	••	
Trinidad and Tobago	2000	3.9	5.2	2.8	12.8	87.2	••	••	••	••	••	
Tunisia		••	••	••	••	••	••	••	••	••	••	
Turkey	1999	4.5	5.2	3.8	66.8	33.2	52.7	83.4	19.9	10.2	10.2	1.8
Turkmenistan		••		••		••	••	••	••	••	••	
Uganda	2002–03	13.1	15.0	11.3	18.3	81.7	94.3	92.3	1.5	1.3	3.2	6.0
Ukraine		••		••		••	••	••	••	••	••	
United Arab Emirates								••			••	
United Kingdom												
United States			••	••	••		••	••			••	
Uruguay		••		••		••	••	••	••	••	••	
Uzbekistan	2000	18.1	22.0	14.0	4.1	95.9					••	
Venezuela, RB ^c	2003	9.1	11.4	6.6	17.6	82.4	35.2	9.2	7.3	9.5	53.9	81.0
Vietnam		••	••	••	••	••		••	••		••	
West Bank and Gaza		••	••	••	••	••	••	••	••	••	••	
Yemen, Rep.	1999	13.1	12.4	14.0	64.3	35.7	87.2	96.6	1.2	0.8	10.8	1.8
Zambia	1999	14.4	15.0	13.9	72.8	27.2	92.7	88.1	0.3	0.8	6.6	11.0
Zimbabwe	1999	14.3	13.3	15.3	12.0	88.0				••		

a. Shares by major industrial category do not sum to 100 percent because of a residual category not included in the table. b. The totals (urban and rural combined) represent what can be described as Angola-Secured Territory but not the nation as a whole. c. Data are for children ages 10–14. d. Data are for children ages 12–14.

The data in the table refer to children's economic activity, a broader concept than child labor. According to a gradually emerging consensus, child labor is a subset of children's economic activity or children's work that is injurious and therefore targeted for elimination. There is also growing recognition that there are certain intolerable, or "unconditionally worst," forms of child labor that constitute especially serious violations of children's rights, and these should be targeted as a priority for immediate action.

In line with the international definition of employment. the threshold for classifying a child as economically active is spending one hour on economic activity during the reference week. Economic activity is as defined by the 1993 United Nations System of National Accounts (revision 3) and corresponds to the international definition of employment adopted by the Thirteenth International Conference of Labor Statisticians in 1982. Economic activity covers all market production and certain types of nonmarket production, including production of goods for own use. It excludes household chores performed by children in their own household. But some forms of economic activity are not captured by household surveys and so are not reflected in the estimates. These include unconditional forms of child labor, which require different data collection methodologies.

The data used to develop the indicators are from household surveys conducted by the International Labour Organization (ILO), the United Nations Children's Fund (UNICEF), the World Bank, and national statistical offices. These surveys yield a variety of data in education, employment, health, expenditure, and consumption that relate to child work. But they do not provide information on unconditional forms of children's work.

Household survey data generally include information on work type—for example, whether a child is

working for pay in cash or in kind or is involved in unpaid work, whether a child is working for someone who is not a member of the household, whether a child is involved in any type of family work (on the farm or in a business), and the like. The ages used in country surveys to define child labor range from 5 to 14 years old. The data in the table have been recalculated to present statistics for children ages 7–14.

Although efforts are made to harmonize the definition of employment and the questions on employment used in survey questionnaires, some differences remain among the survey instruments used to collect the information on working children. Differences exist not only among different household surveys in the same country, but also within the same type of survey carried out in different countries.

Because of the differences in the underlying survey instruments and in survey dates, estimates of the economically active child population are not fully comparable across countries. Caution should be exercised in drawing conclusions concerning relative levels of child economic activity across countries or regions based on the published estimates.

The table aggregates the distribution of working children by the industrial categories of the International Standard Industrial Classification (ISIC): agriculture, industry, and services. The residual category, which includes mining and quarrying; electricity, gas, and water; construction; extraterritorial organization; and other inadequately defined activities, is not presented in the table, and so the broad groups do not add up to 100 percent. The use of either ISIC revision 2 or revision 3 is strictly related to the codification applied by each country in describing the economic activity. The use of two different classifications does not affect the definition of the groups presented in the table.

Child labor is an obstacle to education for all

Box 2.4a

There is broad consensus that the single most effective way to stem the flow of school-age children into work is to extend and improve access to school, so that families have the opportunity to invest in their children's education and it is worthwhile for them to do so. With no access to quality education, millions of children are left to work. More than one in five children ages 5–17 is economically active (see table).

Age group	Economically active children (% of age group)
5–17	20.3
5–14	15.8
15–17	35.2

Definitions

• Survey year is the year in which the underlying data were collected. • Economically active children refer to children involved in economic activity for at least one hour in the reference week of the survey. • Work only refers to children involved in economic activity and not attending school. • Work and study refer to children attending school in combination with economic activity. • Employment by economic activity refers to the distribution of economically active children by the major industrial categories (ISIC revision 2 or revision 3). • Agriculture corresponds to division 1 (ISIC revision 2) or categories A and B (ISIC revision 3) and includes agriculture and hunting, forestry and logging, and fishing. • Manufacturing corresponds to division 3 (ISIC revision 2) or category D (ISIC revision 3). • Services correspond to divisions 6-9 (ISIC revision 2) or categories G-P (ISIC revision 3) and include wholesale and retail trade, hotels and restaurants, transport, financial intermediation, real estate, public administration, education, health and social work, other community services, and private household activity.

PEOPLE

Data sources

Estimates are produced by the Understanding Children's Work project based on household survey datasets made available by the ILO's International Programme on the Elimination of Child Labour under its Statistical Monitoring Programme on Child Labour, UNICEF under its Multiple Indicator Cluster Survey program, the World Bank under its Living Standards Measurement Study program, and national statistical offices. Information on how the data were collected and some indication of their reliability can be found at www. ilo.org/public/english/standards/ipec/simpoc/, www.childinfo.org, and www.worldbank.org/lsms. Detailed country statistics can be found at www. ucw-project.org.



			Unemp	loyment			u	Long-term nemploymer	ıt	1	employmen tional attai	-
	% of	ale male force 2000–05 ª	% of f labor	nale emale force 2000–05 ª	% of labor	tal total force 2000–05 ª	ر Male 2000–03 ^a	% of total inemployment Female 2000–03ª	Total 2000–03 ª	Primary 2000–04 ª	% of total unemploymer Secondary 2000–04 ª	nt Tertiary 2000–04ª
Afghanistan												
Albania	••	13.2		18.3		15.2			••	56.4	38.4	3.4
Algeria	••	19.8		21.3	••	20.1	••		••	••	••	••
Angola	••						••					
Argentina	6.4 ^b	16.3 ^b	7.0 ^b	14.7 ^b	6.7 ^b	15.6 ^b				42.8 ^b	38.5 ^b	17.7 ^b
Armenia		 = ab		 – – h		 – .h	72.2	70.8	71.6	5.2	81.5	13.3
Australia	11.3	5.3 ^b	9.5	5.5 ^b	10.5	5.4 ^b	27.1 ^b	17.0 ^b	22.5 ^b	48.3	32.7	19.0
Austria	3.5	4.5	3.8	5.4	3.6	4.9	25.0	23.9	24.5	37.3	55.7	7.0
Azerbaijan							••		••	4.6	31.4	64.1
Bangladesh	2.0	4.2	1.9	4.9	1.9	4.3	••	••	••	54.3	22.7	8.4
Belarus										10.2	40.6	49.1
Belgium	4.8	6.6	9.5	8.3	6.7	7.4	44.8	48.2	46.3	43.7	38.1	18.2
Benin	 E ED		 E cb	 6 0	 E Eb	 F F			••	 co. ob	 20 Fb	 4.4 ^b
Bolivia Bosnia and Herzegovina	5.5 ^b	4.3	5.6 ^b	6.9	5.5 ^b	5.5				60.2 ^b	32.5 ^b	
Botswana	 11.7	 15.7	 17.3	 22.3	 13.9	 18.6	••	••	••	 63.8	 23.8	
Brazil	5.4 ^b	7.8 ^b	7.9 ^b	12.3 ^b	6.4 ^b	9.7 ^b		··	••			
Bulgaria		12.5		11.5		9.7		••	••	 37.8	 50.9	 11.4
Burkina Faso	••		••	••••••			••	••	••	46.8	19.3	5.6
Burundi	 0.7	••	 0.3	••	 0.5	••	••	··	••			
Cambodia		 0.8	0.3	 0.9	0.5	 0.8		••				••
Cameroon		8.2		6.7		7.5		••	••	••	••	••
Canada	 12.1 ^b	7.5 ^b	 10.2 ^b	6.8 ^b	 11.2 ^b	7.2 ^b	 11.4	 8.4	 10.1	 29.0 ^b	 30.8 ^b	 40.2 ^b
Central African Republic												
Chad										 	 	
Chile	 3.9	 6.9	 5.3	 9.5	4.4	 7.8				 18.5	 59.0	 21.8
China					2.3 ^b	4.2						
Hong Kong, China	2.0	7.8	1.9	5.6	2.0	6.8	•••			48.6	39.4	10.1
Colombia	6.7 ^b	10.6	13.0 ^b	17.8	9.4 ^b	13.7				26.9	52.9	16.5
Congo, Dem. Rep.												
Congo, Rep.				•••	•••							
Costa Rica	3.4	5.4	5.4	8.5	4.0	6.4	8.9	13.3	10.9	62.2	24.1	9.9
Côte d'Ivoire		•••	••									
Croatia		11.7	•••	14.0		12.7	52.9 ^c	56.3 ^c	54.6 ^c	21.5	68.4	9.8
Cuba			••	•••	4.6	3.3	••			••	••	
Czech Republic		7.0	••	9.9	••	8.3	47.4	51.9	49.9	24.6	71.8	3.5
Denmark	8.3	5.0	9.9	5.4	9.0	5.2	21.8	17.9	19.9	25.9	46.6	25.5
Dominican Republic	11.7	10.5	34.9	30.7	20.3	18.4	2.2	1.3	1.6	••		
Ecuador	6.0 ^b	6.6 ^b	13.2 ^b	11.4 ^b	8.9 ^b	8.6 ^b	••	••	••	28.8	47.7	21.9
Egypt, Arab Rep.	6.4	7.3	17.0	23.2	9.0	11.0	••		••	••		••
El Salvador	3.9 ^b	8.7	4.9 ^b	3.9	4.3 ^b	6.8	••		••	••	••	••
Eritrea												
Estonia	3.9	10.4	3.5	8.9	3.7	9.6				20.9	62.1	16.8
Ethiopia		15.8 ^b		31.2 ^b		23.1 ^b			••	••		
Finland	13.6	8.8	9.7	9.0	11.7	8.9	27.7	21.4	24.7	35.8	46.3	17.5
France	7.9 ^b	9.0 ^b	12.7 ^b	11.1 ^b	10.0 ^b	9.9 ^b	43.1 ^b	42.8 ^b	42.9 ^b	40.6	39.9	17.7
Gabon	••											
Gambia, The												
Georgia		13.4 ^b		11.8 ^b		12.6 ^b				5.8	57.6	36.5
Germany	5.3	10.2	8.4	9.3	6.6	9.8	48.3	52.3	50.0	27.1	60.5	12.4
Ghana	••	7.5	••	8.7		8.2	••	••	••			••
Greece	4.9	6.4	12.9	15.9	7.8	10.2	49.2	61.0	56.5	34.2	50.0	15.1
Guatemala	2.6 ^b	2.2	4.6 ^b	3.7	3.2 ^b	2.8						
Guinea	••	••	••	••		••	••		••	••	••	••
Guinea-Bissau	••	••	••	••	••	••	••	••	••	••	••	••
Haiti	11.2		13.6		12.2							



			Unemp	loyment			u	Long-term nemployme	nt		employmen tional attai	-
	Ma % of i labor 1990–92 ª	nale	% of f	nale emale force 2000–05 ª	% of	tal total force 2000–05 ª	Male 2000-03ª	% of total unemploymen Female 2000–03 ª	t Total 2000–03ª	Primary 2000–04 ª	% of total unemploymer Secondary 2000–04 ª	it Tertiary 2000–04 ª
Honduras	3.3 ^b	4.7 ^b	3.0 ^b	8.3 ^b	3.2 ^b	5.9 ^b	····			···		
Hungary	11.0	6.1	8.7	6.1	9.9	6.1	42.2	42.2	42.2	33.5	61.2	5.4
India		4.9 ^b		5.3 ^b		5.0 ^b				27.0	41.1	31.9
Indonesia	2.7	8.1	3.1	12.9	2.9	9.9	••	••	••	46.0	36.6	6.7
Iran, Islamic Rep.	9.5	10.1	24.4	20.4	11.1	11.6				38.3	37.1	19.3
Iraq		29.4	••	15.0	••	26.8	••	••	••	••	••	••
Ireland	15.2	4.9	15.2	3.7	15.2	4.4	40.9	26.0	35.4	48.2	24.9	24.0
Israel	9.2	10.2	13.9	11.3	11.2	10.7				20.2	48.8	27.0
Italy	8.1	6.4	17.3	10.5	11.6	8.0	57.5	58.9	58.2	49.4	41.4	7.5
Jamaica	9.4	8.1	22.2	15.7	15.4	11.4	24.4	36.2	31.7	13.0	5.4	6.1
Japan	2.1 ^b	4.9 ^b	2.2 ^b	4.4 ^b	2.2 ^b	4.7 ^b	38.9	24.6	33.5	70.8	53.4	29.2
Jordan Kazakhatan	••	11.8	••	16.5		12.4	••					
Kazakhstan	••	7.0	••	9.8		8.4		••	••	7.9	53.2	38.9
Kenya Korea, Dem. Rep.	••	••	••	••		••	••	••	••	••		
Korea, Rep.	 2.8	 3.7	 2.1	 3.1	 2.5	 3.5	 0.7	 0.3	 0.6	 17.0	 53.4	 29.6
Kuwait			••••••	••••••	••••••	1.7				27.5	39.9	6.1
Kyrgyz Republic		 11.2		 14.3	··· ··	12.5			·· ··	13.7	67.8	18.5
Lao PDR												
Latvia		9.0		8.4		8.7				22.4	68.5	8.8
Lebanon												
Lesotho				····		•••	•••					·····
Liberia		••	•••			••	••	••		••	••	
Libya												
Lithuania	••	••	••	••	••	8.3	••	••	57.8	15.0	68.5	16.5
Macedonia, FYR		36.7		37.8		37.2						
Madagascar	••	3.5	···	5.6		4.5	••			42.7	18.8	6.1
Malawi		••										
Malaysia		3.6		3.6	3.7	3.5				32.0	48.8	15.6
Mali	••	7.2	••	10.9		8.8	••	••		••		
Mauritania								••	••	 74 ch		••
Mauritius	3.2	5.8	3.1	13.5	3.1	8.5				71.5 ^b	28.2 ^b	
Mexico	2.7	2.9	4.0	3.4 6.3	3.1	3.0 8.1	1.1	0.8	1.0	13.7	30.1	46.4
Moldova		10.0 14.3	••	0.3 14.1		8.1 14.2	••	••	••	 35.0	 45.8	 18.4
Mongolia Morocco	 13.0 ^b	14.3	 25.3 ^b	14.1	 16.0 ^b	14.2	••	••	••	51.5 ^c	45.8 20.1 ^c	19.8°
Mozambique							••	••	••	•••••••••••••••••••••••••••••••••••••••		13.0
Myanmar	 4.7		 8.8		 6.0		••	••	••	••		•••
Namibia	20.0	 26.8	19.0	 35.9	19.0	 31.1	·· ··	••	·· ··			
Nepal		7.4		10.7		8.8						
Netherlands	4.3	4.1	7.3	4.4	5.5	4.3	30.1	28.1	29.2	46.3	35.1	17.4
New Zealand	11.0 ^b	3.5 ^b	9.6 ^b	4.4 ^b	10.4 ^b	3.9 ^b	15.5	11.0	13.3	1.0	48.8	16.0
Nicaragua	11.3	7.6	19.4	8.0	14.4	7.8	••			50.8 ^b	24.8 ^b	19.7 ^b
Niger		••	••	••	••	••	••	••	••	••	••	••
Nigeria												
Norway	6.6	4.8	5.1	3.8	5.9	4.4	7.1	5.4	6.4	21.7	54.7	21.7
Oman	••	••	••					••				
Pakistan	3.8	6.6	14.0	12.8	5.2	7.7				14.7	12.3	24.1
Panama	10.8	9.4	22.3	17.2	14.7	12.3	24.0	35.7	29.3	35.9	37.3	26.0
Papua New Guinea	9.0	4.3	5.9	1.3	7.7	2.8						
Paraguay	6.4 ^b	6.7	3.8 ^b	10.1	5.3 ^b	8.1	••			 	 	
Peru	7.5 ^b	9.4 ^b	12.5 ^b	12.0 ^b	9.4 ^b	10.5 ^b				9.4 ^b	61.4 ^b	28.6 ^b
Philippines	7.9	10.4	9.9	11.7	8.6	10.9						
Poland	12.2	16.6	14.7	19.1	13.3	17.7	56.1 ^c	59.3°	57.7°	18.0	75.4	6.7
Portugal	3.5 ^b	5.8	5.0 ^b 13.3	7.6 9.1	4.1 ^b 17.0	6.7 ^b 10.6	31.2	32.7	32.0	70.7	14.6	8.8

2.5 Unemployment

			Unemp	loyment			u	Long-term nemploymei	nt		Unemployment by educational attainment		
	Ma % of r labor 1 1990–92^a	nale	% of f	nale ëmale force 2000–05 ª	% of	tal total force 2000–05 ª	Male 2000-03 ^a	% of total unemploymen Female 2000–03 ª	t Total 2000–03ª	Primary 2000–04 ª	% of total unemployme Secondary 2000–04 ª	Tertiary	
Romania		9.0		6.9		8.0				26.0	66.9	5.4	
Russian Federation	5.4	7.8	5.2	8.0	5.3	7.9							
Rwanda		••	••	••	••	••	••	••	••	60.7	24.1	5.9	
Saudi Arabia	7.4	4.7	4.9	14.7	••	••	••	••	••	12.0 ^c	49.0 ^c	40.0 ^c	
Senegal		••	••	••	••	••	••	••	••	••	••	••	
Serbia and Montenegro		14.4	••	16.4	••	15.2	••	••	••	••	••	••	
Sierra Leone													
Singapore	2.7	5.5	2.6	5.3	2.7	5.4	••	••	••	22.4	25.0	38.8	
Slovak Republic		17.3	••	19.1	••	18.1	60.2	62.1	61.1	24.1 ^b	71.7 ^b	4.3 ^b	
Slovenia		5.7		6.5		6.1				26.2	63.9	8.2	
Somalia	••	••	••	••	••	••		••	••				
South Africa	••	23.5 ^b		31.6 ^b	••	27.1 ^b	••	••	••	50.2	41.0	5.1	
Spain	13.9	8.2	25.8	15.0	18.1	11.0	34.3	43.9	39.8	56.0	20.4	22.7	
Sri Lanka	10.1 ^b	6.0 ^b	19.8 ^b	13.5 ^b	13.3 ^b	8.5 ^b	••	••	••	47.2	••	52.8	
Sudan	••	••			••	••	••	••	••	••	••	••	
Swaziland	••	••			••	••	••	••	••	••	••	••	
Sweden	6.8	6.9	4.6	6.2	5.7	6.5	19.6	15.3	17.8	23.2	58.1	17.5	
Switzerland	2.3	3.9	3.5	4.8	2.8	4.3	21.6	32.6	27.0	28.7	54.5	16.9	
Syrian Arab Republic	••	9.0		28.3		12.3				75.2	10.3	9.8	
Tajikistan		••	••	••	••	••	••	••	••	••	••	••	
Tanzania	2.7 ^b	4.4	4.2 ^b	5.8	3.5 ^b	5.1 ^b	••				••		
Thailand	1.3	1.6	1.5	1.4	1.4	1.5	••			40.0	47.2	0.2	
Togo		••	••	••	••	••	••	••	••	••	••	••	
Trinidad and Tobago	17.0 ^b	7.8 ^b	23.9 ^b	14.5 ^b	19.6 ^b	10.4 ^b	20.3	34.7	27.6	55.5	40.5	1.8	
Tunisia						14.7	••			43.4	37.4	10.0	
Turkey	8.8	10.3	7.8	10.3	8.5	10.3	36.5 ^c	46.9 ^c	39.2 ^c	55.7 ^c	28.1 ^c	11.4 ^c	
Turkmenistan		••	••		•••	••	••		••	••	••		
Uganda		2.5		3.9		3.2	••			••	••	••	
Ukraine		8.9	••	8.3	••	8.6	••	••	••	13.5	54.3	32.2	
United Arab Emirates		2.2		2.6	••	2.3	••		••	••	••		
United Kingdom	11.5	5.0	7.3	4.2	9.7	4.6	26.5	17.1	23.0	30.3	44.4	14.6	
United States	7.9	5.6	7.0	5.4	7.5	5.5	12.5	11.0	11.8	18.4	34.3	47.3	
Uruguay	6.8 ^b	13.5 ^b	11.8 ^b	20.8 ^b	9.0 ^b	16.8 ^b	••		••	54.8 ^b	31.3 ^b	13.9 ^b	
Uzbekistan							••			••	••	••	
Venezuela, RB	8.2	14.4 ^b	6.8	20.3 ^b	7.7	16.8 ^b	••	••	••	••	••	••	
Vietnam		1.9	••	2.4	••	2.1				••	••	••	
West Bank and Gaza	••	28.1		20.1		26.8				57.5	14.5	17.6	
Yemen, Rep.										••	••	••	
Zambia	16.3	••	22.4	••	18.9	••	••	••	••	••	••	••	
Zimbabwe	••	10.4		6.1	••	8.2	••	••	••	••	••	••	
World	w	w	w	w	w	6.4 w	w	w	w	w	w	w	
Low income													
Middle income					3.9	6.6							
Lower middle income					3.4	5.9			••				
Upper middle income	6.3	9.6	6.8	10.8	6.4	9.8			••	37.7	48.2	11.3	
Low & middle income	••		••	••		6.4	••	••	••				
East Asia & Pacific					2.5	4.2			••				
Europe & Central Asia		9.9	••	9.9		9.9			••				
Latin America & Carib.	5.4	8.1	8.5	12.0	6.6	9.6							
Middle East & N. Africa		13.4		21.3		14.8			••				
South Asia		5.1	••	6.2	••	5.4		••	••	30.0	34.8	27.4	
Sub-Saharan Africa													
High income	7.0	6.2	7.9	6.6	7.4	6.4	27.3	23.9	26.0	34.8	39.3	29.7	
Europe EMU	7.5	8.2	12.6	10.6	9.5	9.2	44.1	46.4	45.5	40.3	42.5	16.3	

a. Data are for the most recent year available. b. Limited coverage. c. Data are for 2005.

Unemployment and total employment in an economy are the broadest indicators of economic activity as reflected by the labor market. The International Labour Organization (ILO) defines the unemployed as members of the economically active population who are without work but available for and seeking work, including people who have lost their jobs and those who have voluntarily left work. Some unemployment is unavoidable in all economies. At any time some workers are temporarily unemployed—between jobs as employers look for the right workers and workers search for better jobs. Such unemployment, often called frictional unemployment, results from the normal operation of labor markets.

Changes in unemployment over time may reflect changes in the demand for and supply of labor, but they may also reflect changes in reporting practices. Ironically, low unemployment rates can often disguise substantial poverty in a country, while high unemployment rates can occur in countries with a high level of economic development and low incidence of poverty. In countries without unemployment or welfare benefits, people eke out a living in the informal sector. In countries with well-developed safety nets, workers can afford to wait for suitable or desirable jobs. But high and sustained unemployment indicates serious inefficiencies in the allocation of resources.

The ILO definition of unemployment notwithstanding, reference periods, the criteria for those considered to be seeking work, and the treatment of people temporarily laid off and those seeking work for the first time vary across countries. In many developing countries it is especially difficult to measure employment and unemployment in agriculture. The timing of a survey, for example, can maximize the effects of seasonal unemployment in agriculture. And informal sector employment is difficult to quantify where informal activities are not registered and tracked.

Data on unemployment are drawn from labor force sample surveys and general household sample surveys, censuses, and official estimates, which are generally based on information from different sources and can be combined in many ways. Administrative records, such as social insurance statistics and employment office statistics, are not included in this table because of their limitations in coverage. Labor force surveys generally yield the most comprehensive data because they include groups not covered in other unemployment statistics, particularly people seeking work for the first time. These surveys generally use a definition of unemployment that follows the international recommendations more closely than that used by other sources and therefore generate statistics that are more comparable internationally. But the age group, geographic coverage, and collection methods could differ by country or change over time within a country. For detailed information on breaks in series, consult the original source

Women tend to be excluded from the unemployment count for various reasons. Women suffer more from discrimination and from structural, social, and cultural barriers that impede them from actively seeking work. Also, women are often responsible for the care of children and the elderly or for other household affairs. They may not be available for work during the short reference period, as they need to make arrangements before starting work. Furthermore, women are considered to be employed when they are working part-time or in temporary jobs in the informal sector, despite the instability of these jobs or their active searching for more secure employment.

Long-term unemployment is measured by the length of time that an unemployed person has been without work and looking for a job. The data in this table are from labor force surveys. The underlying assumption is that shorter periods of ioblessness are of less concern, especially when the unemployed are covered by unemployment benefits or similar forms of welfare support. The length of time that a person has been unemployed is difficult to measure. because the ability to recall that time diminishes as the period of joblessness extends. Women's longterm unemployment is likely to be lower in countries where women constitute a large share of the unpaid family workforce. Women in such countries have more access than men to nonmarket work and are more likely to drop out of the labor force and not be counted as unemployed.

Unemployment by level of educational attainment provides insights into the relationship between the educational attainment of workers and unemployment and may be used to draw inferences about changes in employment demand. Information on education attainment is the best available indicator of skill levels of the labor force.

Besides the limitations to comparability raised for measuring unemployment, the different ways of classifying the level of education across countries may also cause inconsistency. The level of education is supposed to be classified according to International Standard Classification of Education 1997 (ISCED97). For more information on ISCED97, see About the data for table 2.9.

Definitions

Unemployment refers to the share of the labor force without work but available for and seeking employment. Definitions of labor force and unemployment may differ by country (see About the data).
Long-term unemployment refers to the number of people with continuous periods of unemployment extending for a year or longer, expressed as a percentage of the total unemployed. • Unemployment by educational attainment shows the unemployed by level of educational attainment as a percentage of the total unemployed. The levels of educational attainment accord with the ISCED97 of the United Nations Educational, Cultural, and Scientific Organization.

PEOPLE

Data sources

Data on unemployment are from the ILO database Key Indicators of the Labour Market, 4th edition.



National poverty line

International poverty line

	Р	opulation poverty			Po	pulation b poverty				Population below	Poverty gap at	Population below	Poverty gap at
	Survey year	Rural %	Urban %	National %	Survey year	Rural %	Urban %	National %	Survey year	\$1 a day %	\$1 a day %	\$2 a day %	\$2 a day %
Afganistan													
Albania	2002	29.6	19.8	25.4		••		••	2004 ^a	<2	<0.5	10.0	1.6
Algeria	1988	16.6	7.3	12.2	1995	30.3	14.7	22.6	1995 ^a	<2	<0.5	15.1	3.8
Angola						••							·····
Argentina	1995	•••	28.4		1998		29.9		2004 ^b	6.6	2.1	17.4	7.1
Armenia	1998–99	50.8	58.3	55.1	2001	48.7	51.9	50.9	2003 ^a	<2	<0.5	31.1	7.1
Australia		•••				••							•••
Austria													
Azerbaijan	1995			68.1	2001	42.0	55.0	49.6	2001 ^a	3.7	0.6	33.4	9.1
Bangladesh	1995–96	55.2	29.4	51.0	2000	53.0	36.6	49.8	2000 ^a	41.3	10.3	84.0	38.3
Belarus	2000			41.9					2002 ^a	<2	<0.5	<2	<0.5
Belgium													
Benin	1995	25.2	28.5	26.5	1999	33.0	23.3	29.0	2003 ^a	30.9	8.2	73.7	31.7
Bolivia	1997	77.3	53.8	63.2	1999	81.7	50.6	62.7	2002 ^b	23.2	13.6	42.2	23.2
Bosnia and Herzegovina	2001-02	19.9	13.8	19.5			•				10.0		
Botswana									1993 ^a	 28.0	 9.9	 55.5	 26.5
Brazil	1998	51.4	14.7	22.0	2002–03	41.0	17.5	21.5	2004 ^b	7.5	3.4	21.2	8.5
Bulgaria	1997			36.0	2001			12.8	2003 ^a	<2	<0.5	6.1	1.5
Burkina Faso	1998	 61.1	 22.4	54.6	2001	 52.4	 19.2	46.4	2000 2003 ^a	27.2	7.3	71.8	30.4
Burundi	1990	36.0	43.0	36.4					1998 ^a	54.6	22.7	87.6	48.9
Cambodia	1997	40.1	21.1	36.1	2004	38.0	18.0	35.0	1997 ^a	34.1	9.7	77.7	34.5
Cameroon	1996	59.6	41.4	53.3	2001	49.9	22.1	40.2	2001 ^a	17.1	4.1	50.6	19.3
Canada	1000				2001				2001			00.0	10.0
Central African Republic		····							1993 ^a	 66.6	 38.1	 84.0	 58.4
Chad	1995–96	 67.0	 63.0	 64.0					1000				00.1
Chile	1996			19.9	1998			 17.0	2003 ^b	 <2	 <0.5	 5.6	 1.3
China	1996	 7.9	 <2	6.0	1998	4.6	 <2	4.6	2003 2004 ^a	9.9	2.1	34.9	12.5
Hong Kong, China	1000		· 	0.0	1000	1.0		1.0	2001		 		
Colombia	1995	 79.0	48.0	 60.0	1999	 79.0	 55.0	 64.0	2003 ^b	 7.0	 3.1	 17.8	 7.7
Congo, Dem. Rep.	1000				1000				2000				
Congo, Rep.													
Costa Rica	1992	25.5	 19.2	 22.0				••	2003 ^b	 3.3	 1.6	 9.8	4.0
Côte d'Ivoire	1002					·· 	·· 		2003 2002 ^a	14.8	4.1	48.8	18.4
Croatia						•••••••	••••••		2002 2001 ^a	<2	<0.5	<2	<0.5
Cuba	·····	••	••	••		••	••	••	2001			••••••	~0.0
Czech Republic		••	·· 	··· 		·· 	·· 		1996 ^b	 <2	 <0.5	 <2	 <0.5
Denmark		••					•••••••••••••••••••••••••••••••••••••••		1000			•••••••••••••••••••••••••••••••••••••••	~0.0
Dominican Republic	2000	 45.3	 18.2	 27.7	2004	 55.7	 34.7	 42.2	2004 ^b	 2.8	 0.5	 16.2	 4.9
Ecuador	1995	45.3 56.0	19.0	34.0	1998	69.0	30.0	42.2	1998 ^b	17.7	7.1	40.8	4.9
Egypt, Arab Rep.	1995-96	23.3	22.5	22.9	1999-00	03.0	••••••		999–2000 ^a	3.1	<0.5	43.9	11.3
El Salvador	1995–90	64.8	38.9	50.6	2002	 49.8	 28.5	37.2	2002 ^b	19.0	<0.5 9.3	40.6	17.7
Eritrea	1993-94			53.0	2002	49.0	20.5		2002	19.0			11.1
Estonia	1993-94	 14.7	 6.8	8.9		••	••	••	2003 ^a	 <2	 <0.5	 7.5	 1.9
Ethiopia	1995-96	47.0	33.3	45.5	1999–00	 45.0	 37.0		2003 ² 999–2000 ^a	23.0	<0.5 4.8	7.5	29.6
Finland	T990-90				1999-00				555-2000				
France			••	••		••	••	••		••	••	••	••
Gabon		••	••	••		••	••	••		••	••	••	••
Gambia, The	1992	••	••	 64.0	1998	 61.0	 48.0	 57.6	1998 ^a	 59.3	 28.8	 82.9	 51.1
Georgia	2002	 55.4	 48.5	52.1	2003	52.7	48.0 56.2	54.5	2003 ^a	6.5	20.0	25.3	8.6
Germany	2002		••••••		2003		••••••		2003-			•	0.0
Ghana	1992				1998–99	 10 0	 186	 39.5	1998–99 ^a		 173	 78 5	
	1992	···		50.0	7220-23	49.9	18.6		T220-22	44.8	17.3	78.5	40.8
Greece	1000		 22 7		2000		 27 1		anap			 21 0	
Guatemala Guinea	1989	71.9	33.7	57.9	2000	74.5	27.1	56.2	2002 ^b	13.5	5.5	31.9	13.8
	1994			40.0	•••••••••••••••••••••••••••••••••••••••	••		••		••	••	••	••
Guinea Bissau	4007	••			4005			••	0004h			 79.0	
Haiti	1987			65.0	1995	66.0	••	••	2001 ^b	53.9	26.6	78.0	47.4



National poverty line

International poverty line

	Ρ	opulation I poverty			Po	pulation b poverty				Population below	Poverty gap at	Population below	Poverty gap at
	Survey year	Rural %	Urban %	National %	Survey year	Rural %	Urban %	National %	Survey year	\$1 a day %	\$1 a day %	\$2 a day %	\$2 a day %
Honduras	1998–99	71.2	28.6	52.5	2004	70.4	29.5	50.7	2003 ^b	14.9	4.4	35.7	15.1
Hungary	1993			14.5	1997			17.3	2002 ^a	<2	<0.5	<2	<0.5
India	1993–94	37.3	32.4	36.0	1999-00	30.2	24.7	28.6	2004-05 ^a	33.5	7.6	80.0	34.6
Indonesia	1996		••	15.7	1999	34.4	16.1	27.1	2002 ^a	7.5	0.9	52.4	15.7
Iran, Islamic Rep.				••			••		1998 ^a	<2	<0.5	7.3	1.5
Iraq													
Ireland		••	•••	••		••	••	••		••			••
Israel										••			
Italy			••			••							
Jamaica	1995	37.0	18.7	27.5	2000	25.1	12.8	18.7	2004 ^a	<2	<0.5	14.4	3.3
Japan													
Jordan	1997	27.0	19.7	21.3	2002	18.7	12.9	14.2	2002–03 ^a	<2	<0.5	7.0	1.5
Kazakhstan	1996	39.0	30.0	34.6				 	2003 ^a	<2	<.5	16.0	3.8
Kenya	1994	47.0	29.0	40.0	1997	 53.0	 49.0	 52.0	1997 ^a	22.8	5.9	58.3	23.9
Korea, Dem. Rep.	1994				1991				1331				
Korea, Rep.		••	••	••		••	••	••	1998 ^b	 <2	 <0.5	 <2	
Kuwait		••		••	•	••		••	T220,		<u>∼0.5</u>	•••••	<u>∼0.5</u>
	2004	 51 0			2002	••	••		20028	 <2	 ~0 5	 21 /	 4.4
Kyrgyz Republic	2001	51.0	41.2	47.6	2003			41.0	2003 ^a		< 0.5	21.4	
Lao PDR	1993	48.7	33.1	45.0	1997–98	41.0	26.9	38.6	2002 ^a	27.0	6.1	74.1	30.2
Latvia		••		••		••	••	••	2003 ^a	<2	<0.5	4.7	1.2
Lebanon				••				••					
Lesotho									1995 ^a	36.4	19.0	56.1	33.1
Liberia								••			••		
Libya													
Lithuania				••				••	2003 ^a	<2	<0.5	7.8	1.8
Macedonia, FYR	2002	25.3		21.4	2003	22.3		21.7	2003 ^a	<2	<0.5	<2	<0.5
Madagascar	1997	76.0	63.2	73.3	1999	76.7	52.1	71.3	2001 ^a	61.0	27.9	85.1	51.8
Malawi	1990–91			54.0	1997–98	66.5	54.9	65.3	2004–05 ^a	20.8	4.7	62.9	24.3
Malaysia	1989			15.5					1997 ^b	<2	<0.5	9.3	2.0
Mali	1998	75.9	30.1	63.8					2001 ^a	36.1	12.2	72.1	34.2
Mauritania	1996	65.5	30.1	50.0	2000	61.2	25.4	46.3	2000 ^a	25.9	7.6	63.1	26.8
Mauritius				••									
Mexico	2000	42.4	12.6	24.2	2004	27.9	11.3	17.6	2004 ^a	3.0	1.4	11.6	4.2
Moldova	2001	64.1	58.0	62.4	2002	67.2	42.6	48.5	2003 ^a	<2	<0.5	20.8	4.7
Mongolia	1998	32.6	39.4	35.6	2002	43.4	30.3	36.1	2002 ^a	10.8	2.2	44.6	15.1
Morocco	1990-91	18.0	7.6	13.1	1998–99	27.2	12.0	19.0	1998–99	<2	<0.5	14.3	3.1
Mozambique	1996–97	71.3	62.0	69.4		••			2002–03	36.2	11.6	74.1	34.9
Myanmar							•••••						
Namibia									1993 ^b	34.9	14.0	55.8	30.4
Nepal	1995–96	43.3	21.6	41.8	2003-04	34.6	9.6	30.9	2003–04 ^a	24.1	5.4	68.53	26.79
Netherlands	1000 00				2000 01				2000 01			••••••	
New Zealand		••	••	••		••	••	••		••	••	••	••
Nicaragua	1993	 76.1	 31.9	 50.3	1998	 68.5	 30.5	 47.9	2001 ^a	 45.1	 16.7	 79.9	 41.2
	1993		52.0	63.0	7330	00.0		•••••	1995 ^a	45.1 60.6		79.9 85.8	41.2 54.6
Niger		66.0			1002 02	 26 4	 20.4	 24.1			34.0	•••••••	
Nigeria	1985	49.5	31.7	43.0	1992–93	36.4	30.4	34.1	2003 ^a	70.8	34.5	92.4	59.5
Norway		••		••		••	••	••		••	••	••	••
Oman Datiatar	4000				4000.00				00000				
Pakistan	1993	33.4	17.2	28.6	1998–99	35.9	24.2	32.6	2002 ^a	17.0	3.1	73.6	26.1
Panama	1997	64.9	15.3	37.3		••	••	••	2003 ^b	7.4	2.1	18.0	7.5
Papua New Guinea	1996	41.3	16.1	37.5									
Paraguay	1991	28.5	19.7	21.8					2003 ^b	13.6	5.6	29.8	13.8
Peru	2001	77.1	42.0	54.3	2004	72.1	42.9	53.1	2003 ^b	10.5	2.9	30.6	11.9
Philippines	1994	53.1	28.0	40.6	1997	50.7	21.5	36.8	2002 ^a	14.8	2.9	43.0	16.3
Poland	1993			23.8					2002 ^a	<2	<0.5	<2	<0.5
Portugal		••	•••	••		••	••	••		••	••	••	
Puerto Rico							••						

National poverty line

International poverty line

	Ρ	opulation I poverty			Po	pulation b poverty				Population below	Poverty gap at	Population below	Poverty gap at
	Survey year	Rural %	Urban %	National %	Survey year	Rural %	Urban %	National %	Survey year	\$1 a day %	\$1 a day %	\$2 a day %	\$2 a day %
Romania	1994	27.9	20.4	21.5					2003 ^a	<2	0.5	12.9	3.0
Russian Federation	1994	••	•••	30.9		•••	••	••	2002 ^a	<2	<0.5	12.1	3.1
Rwanda	1993			51.2	1999–00	65.7	14.3	60.3	2000 ^a	60.3	25.6	87.8	51.5
Saudi Arabia								••					
Senegal	1992	40.4	23.7	33.4			••	••	2001 ^a	17.0	3.6	56.2	20.9
Serbia and Montenegro						••							
Sierra Leone	1989			82.8	2003-04	79.0	56.4	70.2	1989 ^a	57.0	39.5	74.5	51.8
Singapore													
Slovak Republic									1996 ^b	<2	<0.5	2.9	0.8
Slovenia									1998 ^a	<2	<0.5	<2	<0.5
Somalia					•••••••••••••••••••••••••••••••••••••••								
South Africa									2000 ^a	10.7	1.7	34.1	12.6
Spain									2000				
Sri Lanka	1990–91	22.0	15.0	20.0	1995–96	27.0	15.0	25.0	2002 ^a	5.6	0.8	41.6	
Sudan	1000 01			20.0	1000 00				2002	0.0			11.0
Swaziland									2000–01 ^a	 47.7	 19.4	 77.8	 42.4
Sweden							•••••••	••••	2000 01				
Switzerland		••		••		••	••	••		••	••	••	••
Syrian Arab Republic		••				••	••	••		••	••		
Tajikistan				••		••	••	••	2003 ^a	 7.4	 1.3	 42.8	 13.0
Tanzania	1991	 40.8	 31.2	 38.6	2000-01	 38.7	29.5	 35.7	2003 ^a	57.8	20.7	89.9	49.3
Thailand	1991			9.8	1998	30.1	29.5	13.6	2000-01 ^a	<2	<0.5	25.2	49.3 6.2
	·····				1998	••	•••••••••••••••••••••••••••••••••••••••		20024	<2		23.2	0.2
Togo	1987-89			32.3		••	••	••	1000h				
Trinidad and Tobago	1992	20.0	24.0	21.0	1005				1992 ^b	12.4	3.5	39.0	14.6
Tunisia	1990	13.1	3.5	7.4	1995	13.9	3.6	7.6	2000 ^a	<2	<0.5	6.6	1.3
Turkey	1994	••	••	28.3	2002	34.5	22.0	27.0	2003 ^a	3.4	0.8	18.7	5.7
Turkmenistan													
Uganda	1999–2000	37.4	9.6	33.8	2002-03	41.7	12.2	37.7					
Ukraine	2000	34.9		31.5	2003	28.4	••	19.5	2003 ^a	<2	<0.5	4.9	0.9
United Arab Emirates				••		••	••	••		••	••	••	
United Kingdom													
United States										••			
Uruguay	1994		20.2		1998		24.7		2003 ^b	<2	<0.5	5.7	1.6
Uzbekistan	2000	30.5	22.5	27.5					2003 ^a	<2	<0.5	<2	0.6
Venezuela, RB	1989			31.3				••	2003 ^b	18.5	8.9	40.1	19.2
Vietnam	1998	45.5	9.2	37.4	2002	35.6	6.6	28.9					
West Bank and Gaza													
Yemen, Rep.	1998	45.0	30.8	41.8					1998 ^a	15.7	4.5	45.2	15.0
Zambia	1998	83.1	56.0	72.9	2004	78.0	53.0	68.0	2004 ^a	63.8	32.6	87.2	55.2
Zimbabwe	1990–91	35.8	3.4	25.8	1995–96	48.0	7.9	34.9	1995–96 ^a	56.1	24.2	83.0	48.2

a. Expenditure base. b. Income base.

Poverty **2.6**

2.6a

Regional poverty estimates

Regional poverty estimates									2.68
Region	1981	1984	1987	1990	1993	1996	1999	2002	2004 ^a
People living on less than \$1 a day (I	nillions)								
East Asia & Pacific	796	564	429	476	420	279	277	227	169
China	634	425	310	374	334	211	223	177	128
Europe & Central Asia	3	2	2	2	17	21	18	6	4
atin America & Caribbean.	39	51	50	45	39	43	49	48	47
Middle East & North Africa	9	7	6	5	5	4	6	5	4
South Asia	473	457	469	479	440	459	475	485	462
Sub-Saharan Africa	168	200	223	240	252	286	296	296	298
otal	1,489	1,281	1,179	1,247	1,172	1,093	1,120	1,067	986
Excluding China	855	856	868	873	838	881	897	890	857
hare of people living on less than \$:	1 a day (%)								
ast Asia & Pacific	57.7	39.0	28.2	29.8	25.2	16.1	15.5	12.3	9.0
China	63.8	41.0	28.6	33.0	28.4	17.4	17.8	13.8	9.9
Europe & Central Asia	0.7	0.5	0.4	0.5	3.6	4.4	3.8	1.3	0.9
atin America & Caribbean.	10.8	13.1	12.1	10.2	8.4	8.9	9.7	9.1	8.6
/liddle East & North Africa	5.1	3.8	3.1	2.3	1.9	1.7	2.1	1.7	1.5
South Asia	51.6	46.6	44.9	43.0	37.1	36.6	35.8	34.7	32.0
Sub-Saharan Africa	42.3	46.2	47.2	46.7	45.5	47.7	45.8	42.6	41.1
otal	40.6	33.0	28.7	28.7	25.6	22.7	22.3	20.4	18.4
Excluding China	32.0	30.1	28.7	27.1	24.6	24.6	23.8	22.6	21.1
People living on less than \$2 a day (i	nillions)								
ast Asia & Pacific	1,170	1,116	1,041	1,113	1,083	908	883	766	684
China	876	819	744	819	803	649	628	524	452
Europe & Central Asia	20	17	14	20	78	85	88	61	46
atin America & Caribbean	104	126	122	115	111	122	128	131	121
/liddle East & North Africa	51	49	50	49	52	55	64	61	59
South Asia	818	853	904	954	976	1,035	1,073	1,124	1,124
Sub-Saharan Africa	295	333	365	396	422	458	491	513	522
otal	2,457	2,494	2,496	2,647	2,722	2,664	2,727	2,665	2,556
Excluding China	1,581	1,675	1,752	1,828	1,919	2,014	2,099	2,131	2,104
Share of people living on less than \$3	2 a day (%)								
ast Asia & Pacific	84.8	77.2	68.5	69.7	65.0	52.5	49.3	41.7	36.6
China	88.1	79.0	68.6	72.2	68.1	53.3	50.1	40.9	34.9
Europe & Central Asia	4.6	3.9	3.1	4.3	16.5	18.0	18.6	12.9	9.8
atin America & Caribbean	28.4	32.2	29.6	26.2	24.1	25.2	25.3	24.8	22.2
/iddle East & North Africa	29.2	25.6	24.2	21.7	21.4	21.4	23.6	21.1	19.7
South Asia	89.1	87.1	86.6	85.7	82.4	82.4	80.8	80.3	77.7
Sub-Saharan Africa	74.5	77.0	77.4	77.1	76.1	76.4	75.8	73.8	72.0
otal	67.1	64.3	60.7	60.8	59.4	55.5	54.4	50.8	47.7
Excluding China	59.3	58.9	57.9	56.8	56.4	56.2	55.8	54.1	51.8

a. Preliminary estimate.

2007 World Development Indicators

63

The World Bank produced its first global poverty estimates for developing countries for World Development Report 1990 using household survey data for 22 countries (Ravallion, Datt, and van de Walle 1991). Incorporating survey data collected during the last 17 years, the database has expanded considerably and now includes more than 550 surveys representing about 100 developing countries. Some 1.1 million randomly sampled households were interviewed in these surveys, representing 93 percent of the population of developing countries. The surveys asked detailed questions on sources of income and how it was spent and on other household characteristics such as the number of people sharing that income. Most interviews were conducted by staff of government statistics offices. Along with improvements in data coverage and quality, the underlying methodology has also improved, resulting in better and more comprehensive estimates.

Data availability

Since 1979 there has been considerable expansion in the number of countries that field such surveys, the frequency of the surveys, and the quality of their data. The number of data sets rose dramatically from a mere 10 between 1979 and 1981 to 162 between 2000 and 2004. The drop to 30 available surveys after 2002 reflects the lag between the time data are collected and the time they become available for analysis, not a reduction in data collection. Data coverage is improving in all regions, but the Middle East and North Africa continues to lag, with only three countries having at least one data set available since 2000. A complete overview of data availability by year and country can be obtained at http://iresearch. worldbank.org/povcalnet/.

Data quality

The problems of estimating poverty and comparing poverty rates do not end with data availability. Several other issues, some related to data quality, also arise in measuring household living standards from survey data. One relates to the choice of income or consumption as a welfare indicator. Income is generally more difficult to measure accurately, and consumption comes closer to the notion of standard of living. And income can vary over time even if the standard of living does not. But consumption data are not always available. Another issue is that household surveys can differ widely, for example, in the number of consumer goods they identify. And even similar surveys may not be strictly comparable because of differences in timing or the quality and training of survey enumerators.

Comparisons of countries at different levels of development also pose a potential problem because of differences in the relative importance of consumption of nonmarket goods. The local market value of all consumption in kind (including own production. particularly important in underdeveloped rural economies) should be included in total consumption expenditure. Similarly, imputed profit from the production of nonmarket goods should be included in income. This is not always done, though such omissions were a far bigger problem in surveys before the 1980s. Most survey data now include valuations for consumption or income from own production. Nonetheless, valuation methods vary. For example, some surveys use the price in the nearest market, while others use the average farmgate selling price.

Whenever possible, the table uses consumption data in deciding who is poor and income surveys only when consumption data are unavailable. In recent editions there has been a change in how income surveys are used. In the past, average household income was adjusted to accord with consumption and income data from national accounts. But when this approach was tested using data for some 20 countries for which income and consumption expenditure data were both available from the same survevs, income was found to vield a higher mean than consumption but also higher inequality. When poverty measures based on consumption and income were compared, these two effects roughly cancelled each other out: statistically, there was no significant difference. So recent editions use income data to estimate poverty directly, without adjusting average income measures.

International poverty lines

International comparisons of poverty estimates entail both conceptual and practical problems. Countries have different definitions of poverty, and consistent comparisons across countries can be difficult. Local poverty lines tend to have higher purchasing power in rich countries, where more generous standards are used, than in poor countries. Is it reasonable to treat two people with the same standard of living—in terms of their command over commodities—differently because one happens to live in a better-off country?

Poverty measures based on an international poverty line attempt to hold the real value of the poverty line constant across countries, as is done

when making comparisons over time. The commonly used \$1 a day standard, measured in 1985 international prices and adjusted to local currency using purchasing power parities (PPPs), was chosen for the World Bank's World Development Report 1990: Poverty because it is typical of the poverty lines in low-income countries. PPP exchange rates, such as those from the Penn World Tables or the World Bank. are used because they take into account the local prices of goods and services not traded internationally. But PPP rates were designed for comparing aggregates from national accounts, not for making international poverty comparisons. As a result, there is no certainty that an international poverty line measures the same degree of need or deprivation across countries.

Early editions of *World Development Indicators* used PPPs from the Penn World Tables. Recent editions use 1993 consumption PPP estimates produced by the World Bank. Recalculated in 1993 PPP terms, the original international poverty line of \$1 a day in 1985 PPP terms is now about \$1.08 a day. The 2005 round of the International Comparison Program will provide new consumption PPPs in the coming year. Any revisions in the PPP of a country to incorporate better price indexes can produce dramatically different poverty lines in local currency.

Issues also arise when comparing poverty measures within countries. For example, the cost of living is typically higher in urban than in rural areas. One reason is that food staples tend to be more expensive in urban areas. So the urban monetary poverty line should be higher than the rural poverty line. But it is not always clear that the difference between urban and rural poverty lines found in practice reflects only differences in the cost of living. In some countries the urban poverty line in common use has a higher real value-meaning that it allows the purchase of more commodities for consumption-than does the rural poverty line. Sometimes the difference has been so large as to imply that the incidence of poverty is greater in urban than in rural areas, even though the reverse is found when adjustments are made only for differences in the cost of living. As with international comparisons, when the real value of the poverty line varies it is not clear how meaningful such urban-rural comparisons are.

By combining all this information, a team in the World Bank's Development Research Group calculates the number of people living below various international poverty lines, as well as other poverty and inequality measures that are published in *World*

Poverty **2.6**

Definitions

Development Indicators. The database is updated annually as new survey data become available, and a major reassessment of progress against poverty is made about every three years.

Do it yourself: PovcalNet

Recently, this research team developed *PovcalNet*, an interactive Web-based computational tool that allows users to replicate the calculations by the World Bank's researchers in estimating the extent of absolute poverty in the world. *PovcalNet* is self contained and powered by reliable built-in software that performs the relevant calculations from a primary database. The underlying software can also be downloaded from the site and used with distributional data of various formats. The *PovcalNet* primary database consists of distributional data calculated directly from household survey data. Detailed information for each of these is also available from the site.

Estimation from distributional data requires an interpolation method. The method chosen was Lorenz curves with flexible functional forms, which have proved reliable in past work. The Lorenz curve can be graphed as the cumulative percentages of total consumption or income against the cumulative number of people, starting with the poorest individual. The empirical Lorenz curves estimated by *PovcalNet* are weighted by household size, so they are based on percentiles of population, not households.

PovcalNet also allows users to calculate poverty measures under different assumptions. For example, instead of \$1 a day, users can specify a different poverty line, say \$1.50 or \$3. Users can also specify different PPP rates and aggregate the estimates using alternative country groupings (for example, UN country groupings or groupings based on average incomes) or a selected set of individual countries. PovcalNet is available online at http://iresearch. worldbank.org/povcalnet/

• Survey year is the year in which the underlying data were collected. • Rural poverty rate is the percentage of the rural population living below the national rural poverty line. • Urban poverty rate is the percentage of the urban population living below the national urban poverty line. • National poverty rate is the percentage of the population living below the national poverty line. National estimates are based on population-weighted subgroup estimates from household surveys. • Population below \$1 a day and population below \$2 a day are the percentages of the population living on less than \$1.08 a day and \$2.15 a day at 1993 international prices. As a result of revisions in PPP exchange rates, poverty rates for individual countries cannot be compared with poverty rates reported in earlier editions. • Poverty gap is the mean shortfall from the poverty line (counting the nonpoor as having zero shortfall), expressed as a percentage of the poverty line. This measure reflects the depth of poverty as well as its incidence.

Data sources

The poverty measures are prepared by the World Bank's Development Research Group. The national poverty lines are based on the World Bank's country poverty assessments. The international poverty lines are based on nationally representative primary household surveys conducted by national statistical offices or by private agencies under the supervision of government or international agencies and obtained from government statistical offices and World Bank Group country departments. The World Bank Group has prepared an annual review of its poverty work since 1993. For details on data sources and methods used in deriving the World Bank's latest estimates, see Chen and Ravallion's "How Have the World's Poorest Fared Since the Early 1980s?" (2004).

2.7 Distribution of income or consumption

Survey year Gini

index

Percentage share of

income or consumption

			Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Afghanistan								-	
Albania	2004 ^a	 31.1	 3.4	 8.2	 12.6	 17.0	 22.6	 39.5	 24.4
Algeria	1995 ^a	35.3	2.8	7.0	11.6	16.1	22.0	42.6	24.4
Angola	1999			••••••				••••••	•••••••
Argentina ^b	2004 ^c	 51.3	 0.9	 3.1	 7.6	 12.8	 21.1	 55.4	 38.2
Armenia	2004 2003 ^a	33.8	3.6	8.5	12.3	12.8	20.6	42.8	29.0
	1994 ^c	35.2	2.0	5.9	12.3	17.2	20.6	42.8	29.0
Australia	2000 ^c								
Austria		29.1	3.3	8.6	13.3	17.4	22.9	37.8	23.0
Azerbaijan	2001 ^a	36.5	3.1	7.4	11.5	15.3	21.2	44.5	29.5
Bangladesh	2000 ^a	33.4	3.7	8.6	12.1	15.6	21.0	42.7	27.9
Belarus	2002 ^a	29.7	3.4	8.5	13.2	17.3	22.7	38.3	23.5
Belgium	2000 ^c	33.0	3.4	8.5	13.0	16.3	20.8	41.4	28.1
Benin	2003 ^a	36.5	3.1	7.4	11.3	15.4	21.5	44.5	29.0
Bolivia	2002 ^c	60.1	0.3	1.5	5.9	10.9	18.7	63.0	47.2
Bosnia and Herzegovina	2001 ^a	26.2	3.9	9.5	14.2	17.9	22.6	35.8	21.4
Botswana	1993 ^a	60.5	1.2	3.2	6.0	9.7	16.0	65.1	51.0
Brazil	2004 ^c	57.0	0.9	2.8	6.4	11.0	18.7	61.1	44.8
Bulgaria	2003 ^a	29.2	3.4	8.7	13.7	17.2	22.1	38.3	23.9
Burkina Faso	2003 ^a	39.5	2.8	6.9	10.9	14.5	20.5	47.2	32.2
Burundi	1998 ^a	42.4	1.7	5.1	10.3	15.1	21.5	48.0	32.8
Cambodia	2004 ^a	41.7	2.9	6.8	10.2	13.7	19.6	49.6	34.8
Cameroon	2001 ^a	44.6	2.3	5.6	9.3	13.7	20.4	50.9	35.4
Canada	2000 ^c	32.6	2.6	7.2	12.7	17.2	23.0	39.9	24.8
Central African Republic	1993 ^a	61.3	0.7	2.0	4.9	9.6	18.5	65.0	47.7
Chad			••			••			
Chile	2003 ^c	54.9	1.4	3.8	7.3	11.1	17.8	60.0	45.0
China	2004 ^c	46.9	1.6	4.3	8.5	13.7	21.7	51.9	34.9
Hong Kong, China	1996 ^c	43.4	2.0	5.3	9.4	13.9	20.7	50.7	34.9
Colombia	2003 ^c	58.6	0.74	2.48	6.20	10.60	18.05	62.67	46.90
Congo, Dem. Rep.									
Congo, Rep.			••			••			
Costa Rica	2003 ^c	49.8	1.0	3.5	8.2	13.1	21.2	54.1	37.4
Côte d'Ivoire	2002 ^a	44.6	2.0	5.2	9.1	13.7	21.3	50.7	34.0
Croatia	2001 ^a	29.0	3.4	8.3	12.8	16.8	22.6	39.6	24.5
Cuba		••				••			
Czech Republic	1996 ^c	25.4	4.3	10.3	14.5	17.7	21.7	35.9	22.4
Denmark	1997 ^c	24.7	2.6	8.3	14.7	18.2	22.9	35.8	21.3
Dominican Republic	2004 ^c	51.6	1.4	4.0	7.8	12.1	19.3	56.7	41.1
Ecuador	1998 ^c	53.6	0.9	3.3	7.5	11.7	19.4	58.0	41.6
Egypt, Arab Rep.	1999–2000 ^a	34.4	3.7	8.6	12.1	15.4	20.4	43.6	29.5
El Salvador	2002 ^c	52.4	0.7	2.7	7.5	12.8	21.2	55.9	38.8
Eritrea								••	
Estonia	2003 ^a	35.8	2.5	6.7	11.8	16.3	22.4	42.8	27.6
Ethiopia	1999–2000 ^a	30.0	3.9	9.1	13.2	16.8	21.5	39.4	25.5
Finland	2000 ^c	26.9	4.0	9.6	14.1	17.5	22.1	36.7	22.6
France	1995 ^c	32.7	2.8	7.2	12.6	17.2	22.8	40.2	25.1
Gabon		••						••	••
Gambia, The	1998 ^a	50.2	1.8	4.8	8.7	12.8	20.3	53.4	37.0
Georgia	2003 ^a	40.4	2.0	5.6	10.5	15.3	22.3	46.4	30.3
Germany	2000 ^c	28.3	3.2	8.5	13.7	17.8	23.1	36.9	22.1
Ghana	1998–99 ^a	40.8	2.1	5.6	10.1	14.9	22.9	46.6	30.0
Greece	2000 ^c	34.3	2.5	6.7	11.9	16.8	23.0	41.5	26.0
Guatemala	2002 ^c	55.1	0.9	2.9	7.0	11.6	19.0	59.5	43.4
Guinea	2003 ^a	38.6	2.9	7.0	10.8	14.7	21.4	46.1	30.7
Guinea-Bissau	1993 ^a	47.0	2.1	5.2	8.8	13.1	19.4	53.4	39.3
Haiti	2001 ^c	59.2	0.7	2.4	6.2	10.4	17.7	63.4	47.7

2.7 Distribution of income or consumption

	Survey year	Gini index	Percentage share of income or consumption						
			Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Honduras	2003 ^c	53.8	1.2	3.4	7.1	11.6	19.6	58.3	42.2
Hungary	2003 ⁻ 2002 ^a	26.9	4.0	9.5	13.9	17.6	22.4	36.5	42.2
India	2002 2004–05 ^a	36.8	3.6	8.1	11.3	14.9	20.4	45.3	31.1
Indonesia	2001 00 2002 ^a	34.3	3.6	8.4	11.9	15.4	21.0	43.3	28.5
Iran, Islamic Rep.	1998 ^a	43.0	2.0	5.1	9.4	14.1	21.5	49.9	33.7
Iraq	1000								
Ireland	2000 ^c	34.3	2.9	7.4	12.3	16.3	21.9	42.0	27.2
Israel	2001 ^c	39.2	2.1	5.7	10.5	15.9	23.0	44.9	28.8
Italy	2000 ^c	36.0	2.3	6.5	12.0	16.8	22.8	42.0	26.8
Jamaica	2004 ^a	45.5	2.1	5.3	9.2	13.2	20.6	51.6	35.8
Japan	1993 ^c	24.9	4.8	10.6	14.2	17.6	22.0	35.7	21.7
Jordan	2002–03 ^a	38.8	2.7	6.7	10.8	14.9	21.3	46.3	30.6
Kazakhstan	2003 ^a	33.9	3.0	7.4	11.9	16.4	22.8	41.5	25.9
Kenya	1997 ^a	42.5	2.5	6.0	9.8	14.3	20.8	49.1	33.9
Korea, Dem. Rep.									
Korea, Rep.	1998 ^c	31.6	2.9	7.9	13.6	18.0	23.1	37.5	22.5
Kuwait		••	••			••			••
Kyrgyz Republic	2003 ^a	30.3	3.8	8.9	12.8	16.4	22.5	39.4	24.3
Lao PDR	2002 ^a	34.6	3.4	8.1	11.9	15.6	21.1	43.3	28.5
Latvia	2003 ^a	37.7	2.5	6.6	11.2	15.5	22.0	44.7	29.1
Lebanon									••
Lesotho	1995 ^a	63.2	0.5	1.5	4.3	8.9	18.8	66.5	48.3
Liberia		••				••		••	
Libya	00003								
Lithuania	2003 ^a 2003 ^a	36.0	2.7	6.8	11.6	16.0 15 5	22.3	43.2	27.7
Macedonia, FYR	2003- 2001 ^a	39.0 47.5	2.4 1.9	6.1 4.9	10.8 8.5	15.5 12.7	22.2 20.4	45.5 53.5	29.6 36.6
Madagascar Malawi	2001- 2004-05 ^a	39.0	2.9	7.0	10.8	14.8	20.4	46.6	31.8
Malaysia	1997 ^c	49.2	2.9 1.7	4.4	8.1	14.8	20.7	54.3	38.4
Mali	2001 ^a	40.1	2.4	6.1	10.2	14.7	20.3	46.6	30.2
Mauritania	2001 2000 ^a	39.0	2.5	6.2	10.2	15.2	22.2	45.7	29.5
Mauritius	2000								
Mexico	2004 ^a	46.1	1.6	4.3	8.3	12.6	19.7	55.1	39.4
Moldova	2003 ^a	33.2	3.2	7.8	12.2	16.5	22.1	41.4	26.4
Mongolia	2002 ^a	32.8	3.0	7.5	12.2	16.8	23.1	40.5	24.6
Morocco	1998–99 ^a	39.5	2.6	6.5	10.6	14.8	21.3	46.6	30.9
Mozambique	2002–03 ^a	47.3	2.1	5.4	9.3	13.0	18.7	53.6	39.4
Myanmar									••
Namibia	1993 ^c	74.3	0.5	1.4	3.0	5.4	11.5	78.7	64.5
Nepal	2003-04 ^a	47.2	2.6	6.0	9.0	12.4	18.0	54.6	40.6
Netherlands	1999 ^c	30.9	2.5	7.6	13.2	17.2	23.3	38.7	22.9
New Zealand	1997 ^c	36.2	2.2	6.4	11.4	15.8	22.6	43.8	27.8
Nicaragua	2001 ^a	43.1	2.2	5.6	9.8	14.2	21.1	49.3	33.8
Niger	1995 ^a	50.5	0.8	2.6	7.1	13.9	23.1	53.3	35.4
Nigeria	2003 ^a	43.7	1.9	5.0	9.6	14.5	21.7	49.2	33.2
Norway	2000 ^c	25.8	3.9	9.6	14.0	17.2	22.0	37.2	23.4
Oman			••			••		••	
Pakistan	2002 ^a	30.6	4.0	9.3	13.0	16.3	21.1	40.3	26.3
Panama	2003 ^c	56.1	0.7	2.5	6.6	11.4	19.6	59.9	43.0
Papua New Guinea	1996 ^a	50.9	1.7	4.5	7.9	11.9	19.2	56.5	40.5
Paraguay	2003°	58.4	0.7	2.4	6.3	10.8	18.6	61.9	46.1
Peru	2003 ^c	52.0	1.3	3.7	7.7	12.2	19.7	56.7	40.9
Philippines Polond	2003 ^a 2002 ^a	44.5	2.2	5.4	9.1	13.6	21.3	50.6	34.2
Poland Portugal	1997 ^c	34.5 38.5	3.1 2.0	7.5 5.8	11.9	16.1 15.5	22.2	42.2 45.9	27.0
Puerto Rico	T991.	38.5	2.0	5.8		15.5 	21.9	45.9	29.8

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2.7 Distribution of income or consumption

Survey year Gini

index

Percentage share of income or consumption

			Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Romania	2003 ^a	31.0	3.3	8.1	12.9	17.1	22.7	39.2	24.4
Russian Federation	2002 ^a	39.9	2.4	6.1	10.5	14.9	21.8	46.6	30.6
Rwanda	2000 ^a	46.8	2.1	5.3	9.1	13.2	19.4	53.0	38.2
Saudi Arabia									
Senegal	2001 ^a	41.3	2.7	6.6	10.3	14.2	20.6	48.4	33.4
Serbia and Montenegro	2003 ^a	30.0	3.4	8.3	13.0	17.3	23.0	38.4	23.4
Sierra Leone	1989 ^a	62.9	0.5	1.1	2.0	9.8	23.7	63.4	43.6
Singapore	1998 ^c	42.5	1.9	5.0	9.4	14.6	22.0	49.0	32.8
Slovak Republic	1996 ^c	25.8	3.1	8.8	14.9	18.7	22.8	34.8	20.9
Slovenia	1998 ^a	28.4	3.6	9.1	14.2	18.1	22.9	35.7	21.4
Somalia									
South Africa	2000 ^a	57.8	1.4	3.5	6.3	10.0	18.0	62.2	44.7
Spain	2000 ^c	34.7	2.6	7.0	12.1	16.4	22.5	42.0	26.6
Sri Lanka	2002 ^a	40.2	3.0	7.0	10.5	14.2	20.4	48.0	32.7
Sudan				••					••
Swaziland	2000-01 ^c	50.4	1.6	4.3	8.2	12.3	18.9	56.3	40.7
Sweden	2000 ^c	25.0	3.6	9.1	14.0	17.6	22.7	36.6	22.2
Switzerland	2000 ^c	33.7	2.9	7.6	12.2	16.3	22.6	41.3	25.9
Syrian Arab Republic					••			••	
Tajikistan	2003 ^a	32.6	3.3	7.9	12.3	16.5	22.4	40.8	25.6
Tanzania	2000-01 ^a	34.6	2.9	7.3	12.0	16.1	22.3	42.4	26.9
Thailand	2002 ^a	42.0	2.7	6.3	9.9	14.0	20.8	49.0	33.4
Тодо		••							
Trinidad and Tobago	1992 ^c	38.9	2.2	5.9	10.8	15.3	23.1	44.9	28.8
Tunisia	2000 ^a	39.8	2.3	6.0	10.3	14.8	21.7	47.3	31.5
Turkey	2003 ^a	43.6	2.0	5.3	9.7	14.2	21.0	49.7	34.1
Turkmenistan	1998 ^a	40.8	2.6	6.1	10.2	14.7	21.5	47.5	31.7
Uganda	2002 ^a	45.7	2.3	5.7	9.4	13.2	19.1	52.5	37.7
Ukraine	2003 ^a	28.1	3.9	9.2	13.6	17.3	22.4	37.5	23.0
United Arab Emirates		••							`
United Kingdom	1999 ^c	36.0	2.1	6.1	11.4	16.0	22.5	44.0	28.5
United States	2000 ^c	40.8	1.9	5.4	10.7	15.7	22.4	45.8	29.9
Uruguay ^b	2003 ^c	44.9	1.9	5.0	9.1	14.0	21.5	50.5	34.0
Uzbekistan	2003 ^a	36.8	2.8	7.2	11.7	15.4	21.0	44.7	29.6
Venezuela, RB	2003 ^c	48.2	0.7	3.3	8.7	13.9	22.0	52.1	35.2
Vietnam	2004 ^a	34.4	4.2	9.0	11.4	14.7	20.5	44.3	28.8
West Bank and Gaza									
Yemen, Rep.	1998 ^a	33.4	3.0	7.4	12.2	16.7	22.5	41.2	25.9
Zambia	2004 ^a	50.8	1.2	3.6	7.9	12.6	20.8	55.1	38.8
Zimbabwe	1995–96 ^a	50.1	1.8	4.6	8.1	12.2	19.3	55.7	40.3

a. Refers to expenditure shares by percentiles of population, ranked by per capita expenditure. b. Urban data. c. Refers to income shares by percentiles of population, ranked by per capita income.

Inequality in the distribution of income is reflected in the percentage shares of income or consumption accruing to portions of the population ranked by income or consumption levels. The portions ranked lowest by personal income receive the smallest shares of total income. The Gini index provides a convenient summary measure of the degree of inequality. Data on the distribution of income or consumption come from nationally representative household surveys. Where the original data from the household survey were available, they have been used to directly calculate the income or consumption shares by quintile. Otherwise, shares have been estimated from the best available grouped data.

For most countries the income distribution indicators are based on the same data used to derive the \$1 and \$2 a day poverty estimates in table 2.6. This table contains additional countries for which poverty estimates are not provided in table 2.6, either because no reasonable purchasing power parity estimates are available or because the international poverty lines are not relevant for high-income economies.

The distribution data have been adjusted for household size, providing a more consistent measure of per capita income or consumption. No adjustment has been made for spatial differences in cost of living within countries, because the data needed for such calculations are generally unavailable. For further details on the estimation method for low- and middle-income economies, see Ravallion and Chen (1996).

Because the underlying household surveys differ in method and type of data collected, the distribution data are not strictly comparable across countries. These problems are diminishing as survey methods improve and become more standardized, but achieving strict comparability is still impossible (see *About the data* for table 2.6).

Two sources of noncomparability should be noted in particular. First, the surveys can differ in many respects, including whether they use income or consumption expenditure as the living standard indicator. The distribution of income is typically more unequal than the distribution of consumption. In addition, the definitions of income used differ more often among surveys. Consumption is usually a much better welfare indicator, particularly in developing countries. Second, households differ in size (number of members) and in the extent of income sharing among members. And individuals differ in age and consumption needs. Differences among countries in these respects may bias comparisons of distribution.

World Bank staff have made an effort to ensure that the data are as comparable as possible. Wherever possible, consumption has been used rather than income. Income distribution and Gini indexes for high-income countries are calculated directly from the Luxembourg Income Study database, using an estimation method consistent with that applied for developing countries.

Definitions

• Survey year is the year in which the underlying data were collected. . Gini index measures the extent to which the distribution of income (or consumption expenditure) among individuals or households within an economy deviates from a perfectly equal distribution. A Lorenz curve plots the cumulative percentages of total income received against the cumulative number of recipients, starting with the poorest individual. The Gini index measures the area between the Lorenz curve and a hypothetical line of absolute equality, expressed as a percentage of the maximum area under the line. Thus a Gini index of 0 represents perfect equality, while an index of 100 implies perfect inequality. . Percentage share of income or consumption is the share of total income or consumption that accrues to subgroups of population indicated by deciles or quintiles. Percentage shares by quintile may not sum to 100 because of rounding.

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Data sources

Data on distribution are compiled by the World Bank's Development Research Group using primary household survey data obtained from government statistical agencies and World Bank country departments. Data for high-income economies are estimated from the Luxembourg Income Study database.

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Image: Second security Image: Second security Image: Second security

	Urban in sector em			uth Ioyment	Female-headed households		Pensie contribu				xpenditu ensions	re
	% of u employ Male 1998 - 2001 ^a		Male % of male labor force ages 15–24 2000–05 ^a	Female % of female labor force ages 15–24 2000–05 ^a	% of total 2000–05 ª	Year	% of labor force	% of working- age population	Year	% of GDP	Year	Average pension % of per capita income
Afghanistan			••		••			····	2005	0.5	•••••••••••••••••••••••••••••••••••••••	
Albania		••	42	 27		2004	 48.8	 33.0	2000	4.6	•	
Algeria		••	43	46		2002	36.7	22.0	2002	3.2	2002	89.1
Angola	••											
Argentina		••	22 ^b	28 ^b		2004	34.9	25.8	1994	6.2	2002	73.7
Armenia	••				29	2002	64.4	48.3	2004	3.4		
Australia	••	••	11	10	••			••	2003	5.4	2002	52.4
Austria			11 ^b	10 ^b	••	2004	80.8	58.8	2003	11.6	2002	93.2
Azerbaijan	••				••	1996	52.0	46.0	1996	2.5		
Bangladesh		••	7	6	10	2004	2.8	2.1	1992	0.0	••••••	
Belarus		••			••	1992	97.0	94.0	1997	7.7	•••••	•••
Belgium			16	20		1995	86.2	65.9	2003	8.5	2002	62.8
Benin	50	41			21	1996	4.8		1993	0.4		••
Bolivia	••	••			20	2002	10.1	7.8	2000	4.5	••••••	••
Bosnia and Herzegovina	••				••	2004	35.9	24.6	2004	8.8		
Botswana	••	••	34	46			••	••	••••••	•••		••
Brazil		••	14 ^b	23 ^b	••	2004	52.2	38.7	1997	9.8	•	•••
Bulgaria	••		23	21	••	1994	64.0	63.0	2005	8.9	2002	75.2
Burkina Faso	••	••	••	••	9	1993	3.1	3.0	1992	0.3		••
Burundi			••		••	1993	3.3	3.0	1991	0.2	•	
Cambodia					25							
Cameroon					24	1993	13.7	11.5	2001	0.8		
Canada			14 ^b	11 ^b		2003	57.0	63.0	2003	5.4	2002	57.1
Central African Republic									1990	0.3		
Chad					20	1990	1.1	1.0	1997	0.1		
Chile			15	21	••	2003	58.0	35.2	2001	2.9	2002	53.5
China						2005	20.5	17.2	1996	2.7		
Hong Kong, China	••	••	14	8				••			•••••••••••••••••••••••••••••••••••••••	
Colombia		••	20	32	30	2000	19.0	14.0	1994	1.1	2002	54.4
Congo, Dem. Rep.												
Congo, Rep.						1992	5.8	5.6	1992	0.9		
Costa Rica				22		2004	55.2	37.6	1997	4.2	2002	103.1
Côte d'Ivoire		••				1997	9.3	9.1	1997	0.3	2002	100.1
Croatia			30	36		2004	71.0	46.0	2005	12.3	2002	61.6
Cuba						2001			1992	12.6	2002	01.0
Czech Republic			 19	 19		2003	 86.0	 61.0	2003	10.5	2002	 58.2
Denmark			9	9		2003	92.0	74.0	2003	9.6	2002	54.1
Dominican Republic			16	34	28	2005	27.2	18.6	2000	0.8	2002	55.9
Ecuador			12 ^b	21 ^b		2000	27.0	20.7	2002	2.5	2002	00.0
Egypt, Arab Rep.			21	40		2004	55.4	27.7	2002	4.1	2002	 119.8
El Salvador			13	40 9		2004	18.0	12.0	1997	1.3	2002	39.3
Eritrea					 47	2000			2001	0.3	2002	
Estonia			 16	 15		2000	 91.0	 66.0	2001	6.3	2002	 60.9
Ethiopia	 39	 65	4	11	 24	2000			1993	0.9	2002	
Finland			18	19		2003	 90.3	 67.0	2003	9.0	2002	 78.8
France			22 ^b	24 ^b	••	2003	90.0	62.0	2003	13.3	2002	65.0
Gabon					 26	1995	15.0	14.0	2000	••••••	2002	
Gambia, The		••	••			1000						••
Georgia	 21		 27	 31	••	2004	 30.0	 22.7	2004	 3.0	•••••••••••••••••••••••••••••••••••••••	
Germany			16	14		2004	88.0	64.0	2004	13.2	2002	 71.8
Ghana	••	••	13	14		2003	9.1	7.1	2003	1.3	2002	
Greece	••	••	13	35		2003	79.0	52.0	2002	12.8	2002	 99.9
Guatemala	••	••				2002	19.0	11.7	1995	0.7	2002	
Guinea	••	••	••		••	1993	19.0	1.8	T320			••
Guinea-Bissau	••	••		••	••	±333				••	•••••••••••••••••••••••••••••••••••••••	••
Haiti	••		 	••			·· ··	·· ··	••••••	·· 	•••••••••••••••••••••••••••••••••••••••	••

Assessing vulnerability and security **2.8**

	Urban in sector em			uth oyment	Female-headed households		Pensio contribu				xpendituı ensions	e
	% of u emplo Male 1998 – 2001 ª		Male % of male labor force ages 15–24 2000–05 ^a	Female % of female labor force ages 15–24 2000–05 ^a	% of total 2000–05 ª	Year	% of labor force	% of working- age population	Year	% of GDP	Year	Average pension % of per capita income
Honduras	••		5 ^b	11 ^b	••	1999	20.6	17.7	1994	0.6		
Hungary			20	19	••	1996	77.0	65.0	2003	11.0	2002	90.5
India	54	41	10 ^b	11 ^b		2004	9.1	5.7				
Indonesia		••			12	1995	8.0	7.0			•	••
Iran, Islamic Rep.		••	20	32	••	2001	35.0	20.0	2000	1.1	2002	124.2
Iraq		••		••		-	••	••		••		••
Ireland			9	7		2002	93.0	64.7	2003	4.7	2002	36.6
Israel		••	17	19	••	1992	82.0	63.0	1996	5.9		
Italy		••	21	27	••	2003	90.0	56.0	2003	15.5	2002	88.8
Jamaica		••	22	36	••		••	·-				••
Japan		••	10	7		2003	94.0	73.0	2003	8.9	2002	59.1
Jordan	••	••	28	43	12	2003	30.3	17.4	2001	2.2	2002	76.1
Kazakhstan		••	13	16		2004	33.7	26.3	2004	4.9		••
Kenya		••	••	••	32	2005	8.0	6.2	1993	0.5		
Korea, Dem. Rep.			 12	 9	••	1996	 58.0	 43.0	2003	 1.3	2002	 43.3
Korea, Rep. Kuwait		••			••	1990	••••••		2003 1990	3.5	2002	
Kyrgyz Republic	 33	 25	 19	 21	••	2004	 40.1	 28.3	1990	6.4		••
Lao PDR					••	2004	40.1		1997	••••••		••
Latvia	••	••	 12	 14	••	2003	 90.0	 64.0	2002	 8.2	2002	 81.8
Lebanon						2003	32.1	19.6	2002	2.1	2002	
Lesotho					••	2000			2000	<u>-</u> 		
Liberia									••••••		•	
Libya					••	2003	65.5	37.1	2001	2.1	2002	91.2
Lithuania	50	27	16	15	••	2004	79.7	58.9	2003	6.2	2002	71.3
Macedonia, FYR			63	62		2000	63.8	38.8	1998	8.7		
Madagascar				••	22	1993	5.4	4.8	1990	0.2		
Malawi	••	••	••	••	27		••		••••••			••
Malaysia	••	••	8	8	••	1993	48.7	37.8	1999	6.5		••
Mali			••		11	1990	2.5	2.0	1991	0.4		
Mauritania			••		29	1995	5.0	4.0	1992	0.2		
Mauritius		••	21	34	••	2000	51.3	33.6	1999	4.4		
Mexico	18	22	6	7	••	2002	34.6	22.6	2003	1.3	2002	45.1
Moldova			19	18	••	2000	60.0	43.0	2003	8.0		
Mongolia		••	20	21		2002	61.4	49.1	2002	5.8		
Morocco		••	17	16	17	2003	22.4	12.3	2003	1.9	2002	74.1
Mozambique	••	••		···	26	1995	2.0	2.1	1996	0.0		••
Myanmar		••					••					
Namibia		 76	40	49	42	2002	 0 1		2002		.	••
Nepal Netherlands	60	76	 10	 10	16	2003 2002	2.1 94.0	1.4 72.0	2003 2003	0.3 9.0	2002	 8/1 1
New Zealand	••		10 9	10	••	2002			2003	9.0 7.4	2002	84.1 39.5
Nicaragua	••	••	9 11 ^b	10 16 ^b	 31	2005	 17.9	 11.5	1996	2.5	2002	•••••••••••••••••••••••••••••••••••••••
Niger	••			••••••		1992	1.3	1.5	1990	0.1	•	••
Nigeria	••	••	••	••	 17	2000	1.9	1.3	1991	0.1		··
Norway			 13	 12		2000	92.0	75.0	2003	10.7	2002	 65.1
Oman	••	••										
Pakistan	64	61	11	15		2004	6.4	4.0	1993	0.9		
Panama			19	30	••	1998	51.6	40.7	1996	4.3	•	
Papua New Guinea				5				••				
Paraguay			12	17	••	2004	11.6	9.1	2001	1.2		
Peru		••	21 ^b	21 ^b	20	2003	16.3	12.3	2000	2.6	2002	43.9
Philippines		••	15	19	15	2000	27.0	18.6	1993	1.0		••
Poland		••	37	39	••	2005	84.8	54.5	2003	15.8	2002	69.7
Portugal			14	19	••	2003	92.0	71.0	2003	11.9	2002	79.8
Puerto Rico		••	25 ^b	21 ^b								

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2.8 Assessing vulnerability and security

	Urban in sector em			uth oyment	Female-headed households		Pensio contribu				xpenditu ensions	re
	% of u employ Male 1998– 2001 ^a		Male % of male labor force ages 15–24 2000–05 ^a	Female % of female labor force ages 15–24 2000–05 ^a	% of total 2000–05 ª	Year	% of labor force	% of working- age population	Year	% of GDP	Year	Average pension % of per capita income
D						0005	F7 F	20.4		<u> </u>		
Romania			21	18	••	2005	57.5	39.1	2003	6.9		
Russian Federation	10	9	••	••			••	••	2004	5.8	···-	••
Rwanda	••	••	••		36		••	••		••	···-	••
Saudi Arabia	••	••			••	2002	 		2002			
Senegal	••	••	••	••	••	2003	5.2	3.8	2003	1.3		••
Serbia and Montenegro	••	••	••	••		2003	45.9	32.1	2003	12.4	···-	••
Sierra Leone	••	••	••		••	2004	4.6	3.6	4000			••
Singapore	••	••	4	6	••	1995	73.0	56.0	1996	1.4		
Slovak Republic	••	••	30 ^b	29 ^b	••	2003	58.8	55.0	2003	8.5	2002	60.2
Slovenia			11	12	••	1995	86.0	68.7	2003	10.1		
Somalia					••					••		••
South Africa	16	28	56	65	••							
Spain	••	••	17	24		2003	92.0	63.0	2003	10.6	2002	88.3
Sri Lanka			20	37		2004	35.6	22.2	1996	2.4		
Sudan						1995	12.1	12.0				
Swaziland					••							
Sweden	••	••	16	13		2003	90.0	72.0	2003	14.0	2002	68.2
Switzerland			9	9	••	2003	99.0	84.0	2003	12.1	2002	67.3
Syrian Arab Republic			21	39					1991	0.5		
Tajikistan	••	••	••	••	••		••	••	1996	3.0		••
lanzania	••	••	••	••	25	1996	2.0	2.0		••		••
[hailand			5	5		1999	18.0	17.0				
Годо	••	••	••	••	••	1997	15.9	15.0	1997	0.6	•••••••••••••••••••••••••••••••••••••••	••
Frinidad and Tobago		••	17 ^b	26 ^b	••			••	1996	0.6		••
Tunisia			31	29		2003	54.9	30.0	2003	4.3	2002	72.7
Furkey	10	6	19	19	••	2002	44.9	24.3	2002	7.1	2002	103.3
Turkmenistan					27				1996	2.3		
Jganda					28	2004	1.8	1.6	2003	0.3		
Jkraine	••		16	17	••	2005	76.0	52.0	2005	15.4		
United Arab Emirates					••						••••	
Jnited Kingdom			 13	 10		2003	 94.0	 73.0	2003	 8.3	2002	 47.6
Jnited States			13	10		2003	91.0	71.0	2003	7.5	2002	51.0
Jruguay	••	••	25 ^b	35 ^b	••	2003	57.7	44.3	1996	15.0	2002	125.4
Jzbekistan					••	2001			1996	15.0 5.3	2002	
	••	••	 24 ^b	 35 ^b	••	2001	 20.8	 14.6	2001	5.3 2.7		••
/enezuela, RB	••	••					••••••	•••••••••••••••••••••••••••••••••••••••	••••••			••
/ietnam West Bank and Gaza	••	••	4	5	27	1998	8.4	10.0	1998	1.6		••
	••	••	39	45	••	2000	19.0	6.4	2001	0.8	0000	
Yemen, Rep.	••	••	••	••		1999	15.0	7.0	1994	0.1	2002	106.3
Zambia Zirohahura					23	2000	5.9	4.9	1993	0.1		
Zimbabwe			28	21		1995	12.0	10.0	2002	2.3		
World			w	w								
Low income												
Viddle income												
Lower middle income			••									
Upper middle income			24	27							<u>.</u>	
.ow & middle income												
East Asia & Pacific												
Europe & Central Asia												
Latin America & Carib.			14	20								
Middle East & N. Africa			••	••								
South Asia			11	12							•••••	
Sub-Saharan Africa				 								
High income			13	12							•••••••••••••••••••••••••••••••••••••••	
Europe EMU			16	19							••••	

a. Data are for the most recent year available. b. Limited coverage.

As traditionally defined and measured, poverty is a static concept, and vulnerability a dynamic one. Vulnerability reflects a household's resilience in the face of shocks and the likelihood that a shock will lead to a decline in well-being. Thus, it depends primarily on the household's asset endowment and insurance mechanisms. Because poor people have fewer assets and less diversified sources of income than the better-off, fluctuations in income affect them more.

Enhancing security for poor people means reducing their vulnerability to such risks as ill health, providing them the means to manage risk themselves, and strengthening market or public institutions for managing risk. The tools include microfinance programs, old age assistance and pensions, and public provision of education and basic health care (see tables 2.9 and 2.14).

Poor households face many risks, and vulnerability is thus multidimensional. The indicators in the table focus on individual risks—informal sector employment, youth unemployment, female-headed households, income insecurity in old age, and the extent to which publicly provided services may be capable of mitigating some of these risks. Poor people face labor market risks, often having to take up precarious, low-quality jobs in the informal sector and to increase their household's labor market participation by sending their children to work (see table 2.4). Income security is a prime concern for the elderly.

For informal sector employment the data are from a variety of sources, including labor force and special informal sector surveys, household surveys, surveys of household industries or economic activities, surveys of small enterprises and micro enterprises, and official estimates. The international comparability of the data is affected by differences among countries in definitions and coverage and in treatment of domestic workers. The data in the table are based on national definitions of informal sector and urban areas established by countries and therefore data may not be comparable across countries. For details on these definitions, consult the original source.

Youth unemployment is an important policy issue for many economies. Experiencing unemployment may permanently impair a young person's productive potential and future employment opportunities. The table presents unemployment among youth ages 15–24, but the lower age limit for young people in a country could be determined by the minimum age for leaving school, so age groups could differ across countries. Also, since this age group is likely to include school leavers, the level of youth unemployment varies considerably over the year as a result of different school opening and closing dates. The youth unemployment rate shares similar limitations on comparability as the general unemployment rate. For further information, see *About the data* for table 2.5 and the original source.

The data on female-headed households are from recent Demographic and Health Surveys. The definition and concept of the female-headed household differ greatly across countries, making cross-country comparison difficult. In some cases it is assumed that a woman cannot be the head of any household in which an adult male is present, because of sexbiased stereotype. Users need to be cautious when interpreting the data.

The data on pension contributors come from national sources, the International Labour Organization (ILO), and International Monetary Fund country reports. Coverage by pension schemes may be broad or even universal where eligibility is determined by citizenship, residency, or income status. In contribution-related schemes, however, eligibility is usually restricted to individuals who have made contributions for a minimum number of years. Definitional issues-relating to the labor force, for example-may arise in comparing coverage by contribution-related schemes over time and across countries (for country-specific information, see Palacios and Pallares-Miralles 2000). The share of the labor force covered by a pension scheme may be overstated in countries that do not attempt to count informal sector workers as part of the labor force.

Public interventions and institutions can provide services directly to poor people, although whether these interventions and institutions work well for the poor is debated. State action is often ineffective, in part because governments can influence only a few of the many sources of well-being and in part because of difficulties in delivering good and services. The effectiveness of public provision is further constrained by the fiscal resources at governments' disposal and the fact that state institutions may not be responsive to the needs of poor people.

The data on public pension spending are from national sources and cover all government expenditures, including the administrative costs of pension programs. They cover noncontributory pensions or social assistance targeted to the elderly and disabled and spending by social insurance schemes for which contributions had previously been made. The pattern of spending in a country is correlated with its demographic structure—spending increases as the population ages.

Definitions

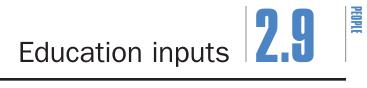
· Urban informal sector employment is all persons who, during a given reference period, were employed in at least one informal enterprise, irrespective of their status in employment and whether it was their main or secondary job. • Youth unemployment refers to the share of the labor force ages 15-24 without work but available for and seeking employment. · Female-headed households refer to the percentage of households with a female head. • Pension contributors refer to the share of the labor force or working-age population (here defined as ages 15-64) covered by a pension scheme. \bullet Publicexpenditure on pensions includes all government expenditures on cash transfers to the elderly, the disabled, and survivors and the administrative costs of these programs. • Average pension is estimated by dividing total pension expenditure by the number of pensioners.

PEOPLE

Data sources

Data on urban informal sector employment and youth unemployment are from the ILO database Key Indicators of the Labour Market, 4th edition. Data on female-headed household are from Demographic and Health Surveys by Macro International. Data on pension contributors and pension spending are from Robert Palacios and Montserrat Pallares-Miralles's "International Patterns of Pension Provision" (2000) and updates, Edward Whitehouse's *Pensions Panorama* (2007), and the Organisation for Economic Co-operation and Development's Social Expenditure database (forthcoming). Further updates, notes, and sources will be available in the World Bank's *Progress Report of Pensions Indicators* (forthcoming). Education inputs

				penditure udent ^a				kpenditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
	Prin 1991	nary 2005^b		per capita ondary 2005^b	Te 1998	ertiary 2005^b	% of GDP 2005^b	% of total government expenditure 2005^b	% of total 2005^b	pupils per teacher 2005^b
Afghanistan	••								36.5	83
Albania	••	7.8	••	12.0	••	36.6	2.9	8.4		21
Algeria	26.5	11.3		17.1					98.5	25
Angola		••			••					
Argentina		10.9	13.6	14.3	20.2	10.3	3.5	12.0		17
Armenia		••	••	••	••			••	77.5	21
Australia		16.4	14.5	14.4	27.0	22.5	4.8	••		••
Austria	18.2	23.2	29.9	28.6	51.6	45.7	5.5	10.8		13
Azerbaijan		6.3	15.4	10.2	19.1	10.4	2.5	19.6	100.0	13
Bangladesh		7.0	12.4	14.7	46.3	49.7	2.5	14.2	48.0	51
Belarus		14.1		25.3	+0.5	28.3	6.0	11.3	99.8	16
Belgium	 16.3	20.2	·· 	23.3		37.1	6.2	11.8		10
Benin		11.5		21.2			3.5	14.1	 72.2	47
Bolivia		16.2	 12.0	13.0	 52.2	 36.0	6.4	18.1	63.3	24
Bosnia and Herzegovina	••				•••••					
Botswana	••	 17.2	••	 44.0	••	 479.9	 10.7	 21.5	 92.5	
	••	•••••••••••••••••••••••••••••••••••••••				•••••				26
Brazil	••	10.8	10.4	11.2	85.7	48.9	4.1	10.9		22
Bulgaria		19.0		20.9	••	28.3	4.2		95.1	17
Burkina Faso		34.7		21.6		212.3	4.7	16.6	88.3	47
Burundi	13.4	19.1		73.3	1051.9	348.8	5.1	17.7	87.5	49
Cambodia	••	6.1	11.4	••		77.5	1.9		97.7	53
Cameroon	••	10.3	18.2	16.0	69.7	67.9	1.8	8.6	62.7	48
Canada					49.0	44.6	5.2			••
Central African Republic	11.9	11.8		••	••	••	••	••	••	••
Chad	8.0	7.3	27.5	30.1		359.9	2.1	10.1	26.8	63
Chile		12.8	13.8	14.2	21.0	15.5	3.7	18.5	96.4	27
China		••	11.5		90.1	••	••	••	84.7	21
Hong Kong, China		14.9		19.9		60.6	4.2	23.0	93.2	18
Colombia		19.5	14.9	18.4	35.6	24.6	4.8	11.1		29
Congo, Dem. Rep.			••	••			••	••	••	34
Congo, Rep.		4.0		18.3	404.9	245.9	2.2	8.1	62.2	83
Costa Rica	7.8	17.0	23.2	17.1	55.0	36.1	4.9	18.5	96.8	21
Côte d'Ivoire			54.5		212.8			21.6	100.0	42
Croatia		20.2		26.0	41.5	31.5	4.7	10.0	100.0	15
Cuba		37.6	38.3	41.1	115.9	59.0	9.8	16.6	100.0	10
Czech Republic	••	12.9	22.1	23.4	34.4	33.6	4.5	8.5	••	18
Denmark		25.5	38.3	35.0	66.2	67.2	8.4	15.1	••	••
Dominican Republic	••	8.1		5.5	••	••	1.8	9.7	88.3	24
Ecuador								••	70.9	23
Egypt, Arab Rep.		••		••	••		••	••	••	22
El Salvador		9.2	8.2	10.5	10.5	17.2	2.8	20.0	100.0	30
Eritrea	••	11.3	••	15.4		1,101.3	5.4		83.6	48
Estonia		20.1	27.9	27.7	32.6	23.2	5.7	15.4	•••	14
Ethiopia	22.1	••	••			••	5.0	19.4	97.1	72
Finland	21.9	18.7	26.4	28.1	41.3	37.4	6.5	12.8		16
France	11.8	17.6	28.6	29.6	29.7	33.9	5.9	11.0	•••	19
Gabon		••		••	••				100.0	36
Gambia, The	13.2	7.4		9.1		238.0	2.0	8.9	57.8	35
Georgia		•••	••				2.9	13.1	89.7	14
Germany	••	 16.6	 20.5	 22.3			4.7	9.7		14
Ghana		12.8		34.5		 209.8	5.4		 53.2 ^c	35°
Greece	 7.6	16.1	 15.5	22.5	 30.7	203.0	4.0	 8.0		11
Guatemala		6.5	•••••••••••••••••••••••••••••••••••••••	3.5						31
Guinea	••		••		••	 244.1	 2.0	••	 68.1	45
	••					277.1	2.0		JO.1	-5
Guinea-Bissau								••		••



				kpenditure Sudent ^a				xpenditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
	Prii 1991	mary 2005^b		per capita ondary 2005^b	⊺ 1998	ertiary 2005 ^b	% of GDP 2005^b	% of total government expenditure 2005^b	% of total 2005^b	pupils per teacher 2005^b
Honduras	••		••	••	••	••	••	••	87.2	33
Hungary	21.2	21.9	18.6	26.8	36.0	31.9	5.9	10.3		10
India		11.1	21.2	19.8	74.5	68.6	3.7	10.7		40
Indonesia	<u></u>	2.6		4.9		13.3	0.9	9.0	92.9	20
Iran, Islamic Rep.		9.7		11.0	••	22.8	4.7	22.8	100.0	19
Iraq									100.0	21
Ireland	11.6	13.9	17.5	20.0	29.4	24.8	4.5	13.1		18
Israel	12.6	22.8	23.3	23.4	32.9	30.0	7.3	13.7		12
Italy	15.3	25.9	28.6	29.2	28.4	24.1	4.9	9.5		11
Jamaica	9.9	11.5		20.0		40.7	4.5	9.5	100.0	28
Japan	••	22.6	19.9	22.3	13.2	19.6	3.7	10.7	••	19
Jordan	••	14.0	15.7	16.9				••		20
Kazakhstan		10.0	••	7.9	••	5.7	2.3		97.2	17
Kenya	12.9	23.6		23.5		262.6	6.7	29.2	98.8	40
Korea, Dem. Rep.	 11.8		 14.9	 25 1	 7.0	 9.3		 15.0		 29
Korea, Rep.	••••••	18.6	••••••	25.1	••••	·····	4.6		100.0	
Kuwait Kyrgyz Republic	35.4	12.2 7.6	 11.9	18.1 14.3	 27.7	116.4 20.8	5.1 4.4	12.7	100.0 58.0	12 24
Lao PDR	••	8.6	4.3	4.0	66.9	20.8	2.3	 11.7	83.4	31
Latvia	••	20.6	24.0	24.5	34.3	14.4	5.3	15.4		13
Lebanon	••	7.2		7.6	12.8	14.4	2.6	11.0	 14.4	13
Lesotho	••	24.2	 68.4	49.0	12.3	1104.8	13.4	29.8	63.7	42
Liberia				+5.0						
Libya					23.8					
Lithuania		 14.4		 20.1		20.6	 5.2	 15.7		 15
Macedonia, FYR		23.8		7.5		22.6	3.4	16.4	100.0	20
Madagascar	••	8.4	39.9		180.9	175.0	3.2	25.3	36.5	54
Malawi	7.2	13.5	·····	28.6		···	5.8		85.8	64
Malaysia	10.1	18.6		26.3		93.7	8.0	28.0		18
Mali			61.6		265.0		4.3	14.8		54
Mauritania		9.8	38.7	24.7	85.0	39.9	2.3	8.3	100.0	40
Mauritius	10.1	11.8		19.8		37.1	4.5	14.3	100.0	22
Mexico	4.8	15.5	14.2	16.8	47.8	44.1	5.8	23.8	84.3	28
Moldova	••	16.6	••	24.1	••	12.9	4.3	21.1		18
Mongolia	••	14.3	••	13.2	••	22.8	5.3	••	96.4	34
Morocco	15.3	22.9	49.1	39.6	104.8	93.0	6.7	27.2	100.0	27
Mozambique		14.1		48.4		435.3	3.7	19.5	59.8	66
Myanmar		2.7		2.9				••	76.0	31
Namibia	••	20.1	36.4	24.1	157.6	106.6	6.9	••	16.7	33
Nepal	••	12.4	13.1	10.5	••	71.1	3.4	14.9	95.8	40 ^c
Netherlands	12.6	18.7	21.8	23.6	44.2	43.0	5.3	10.8		••
New Zealand	17.3	19.4	24.5	22.7	42.0	34.1	6.8	20.9	••	16
Nicaragua		8.8		10.4			3.1	15.0	76.9	34
Niger	••	19.0		64.3		••	2.3	••	75.8	44
Nigeria									49.8	37
Norway	32.7	21.7	30.6	33.0	47.8	50.4	7.7	15.7	••	11
Oman	10.5	16.3	22.2	15.5		28.7	3.6	24.2	 0E E	
Pakistan		7.0		11.0			2.3	10.9	85.5	38
Panama	11.3	9.6	19.1	12.3	33.6	26.5	3.8	8.9	89.6	24
Papua New Guinea			••	 1 / 1		 20.1			100.0	35
Paraguay		12.6		14.1	••	30.1	4.3	10.8	67.0	28
Peru		6.7 11.7	10.8	8.9 10.1	••	12.3	2.4	13.7		22 35
Philippines Poland	 12.9	22.9	 16.5	10.1 21.7	 36.3	14.1 19.7	3.2 5.6	17.2 12.3	100.0	35 13
Portugal	17.2	22.9 24.4	29.1	33.0	29.7	27.8	5.0 5.9	12.3	••	13 12
Puerto Rico			•••••••••••••••••••••••••••••••••••••••		••••	•••••			••	
							••		••	••

2.9 Education inputs

				penditure udent ^a				penditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
	Prima	,	Seco	per capita ndary		tiary	% of GDP	% of total government expenditure	% of total	pupils per teacher
	1991	2005 ^b	1998	2005 ^b	1998	2005 ^b	2005 ^b	2005 ^b	2005 ^b	2005 ^b
Romania							3.6	••	25.9	17
Russian Federation	••	••	••		••	12.1	3.7	12.3	99.0	17
Rwanda	••	11.3		18.6		408.8	3.8	12.2	81.7	62
Saudi Arabia							6.8	27.6	••	••
Senegal	18.9	18.7		32.2	••	267.6	5.4	18.9	100.0	47
Serbia and Montenegro										
Sierra Leone							3.8		61.5	67
Singapore	••									••
Slovak Republic		13.0	18.5	17.8	33.0	29.3	4.4	11.2		18
Slovenia	17.4	30.0	••	25.7		26.4	6.0	12.6	••	15
Somalia			••		·	••			••	••
South Africa	20.2	14.2	21.2	17.6	64.3	49.6	5.4	17.9	78.7	36
Spain	11.2	18.6	24.4	23.8	19.6	22.7	4.3	11.2		14
Sri Lanka			••			••		••		22
Sudan							••	••	55.1	28
Swaziland	6.5	12.4	26.1	30.9	388.4	341.5	6.2		90.5	32
Sweden	46.2	24.0	26.3	26.8	53.3	46.9	7.5	12.8	••	10
Switzerland	36.1	24.9	27.7	29.2	54.5	64.8	6.1	13.0		••
Syrian Arab Republic		14.2	22.1	26.3			••		88.4	25
Tajikistan	••	8.7		11.3	••	14.1	3.5	18.0	84.1	21
Tanzania							••	••	100.0	56
Thailand	11.6	13.9		13.1		23.0	4.2	27.5	79.3	21
Togo		6.7	30.9		317.9		2.6	13.6	36.8	34
Trinidad and Tobago		15.7	12.2		147.6		4.2		81.0	18
Tunisia		24.1		24.1		80.6	8.1	••	••	21
Turkey	10.7	11.8		14.8		44.7	4.0	13.6	••	••
Turkmenistan							••	••		••
Uganda		11.3		34.0		188.8	5.2	18.3	80.4	50
Ukraine	••	14.8	••	23.9	••	34.1	6.4	18.9	99.7	19
United Arab Emirates		7.1	11.5	9.3		28.9	1.3	27.4	60.0	15
United Kingdom	15.0	18.4	26.6	28.4	32.8	28.1	5.5	11.9		18
United States		21.5	22.5	25.8	27.5	26.7	5.9	15.2		14
Uruguay	7.8	6.5		7.2		19.5	2.2	7.9	100.0	21
Uzbekistan	••			···						
Venezuela, RB	••	••			••		••		84.0	19
Vietnam							••		93.4	22
West Bank and Gaza	••	••					••	••	100.0	25
Yemen, Rep.	••				••	••				26
Zambia		5.4		8.2	••		2.0	14.8	100.0	51
Zimbabwe	20.7					20.0 m	4.7.00			39
World	m	15.4 m	m	20.3 m	m	32.6 m	4.7 m	m	m	29 m
Low income			••		••		 1 E			42
Middle income		14.1	••	17.4		32.5	4.5	15.2	••	22
Lower middle income	••	11.7	••	16.5		36.6	4.3		••	22
Upper middle income	••	14.7	••	20.1	33.6	26.3	4.6	15.4		22
Low & middle income East Asia & Pacific			••	••	••	••	4.3			31 22
•••••••••••••••••••••••••••••••••••••••	••	6.3	••		••	 ววว	2.7		95.7	
Europe & Central Asia	••	16.7	••	20.5	••	23.2	4.4	13.9		17
Latin America & Carib.		12.3	••	14.9	••	31.3	4.3	15.0		24
Middle East & N. Africa	••	14.3	 12 1	17.5	••				••	23
South Asia	••	9.7	13.1	12.1	••	68.6	2.9	12.8		41
Sub-Saharan Africa		 18.7	 24.4	 24.4	 29.7	 29.4	4.3 5.9	 12.8	••	48 16
High income	16.3									

a. Because of the change from International Standard Classification of Education (ISCED) 76 to ISCED 97 in 1998, data before 1998 are not fully comparable with data from 1998 onward. b. Provisional data. c. Data are for 2006.

Data on education are compiled by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics from official responses to surveys and from reports provided by education authorities in each country. Such data are used for monitoring, policymaking, and resource allocation. For a variety of reasons, however, education statistics generally fail to provide a complete and accurate picture of a country's education system. Statistics often lag by one to two years, though an effort is being made to shorten the delay. Moreover, coverage and data collection methods vary across countries and over time within countries, so comparisons should be interpreted with caution.

The data on education spending in the table for the majority of the countries refer to public spending—government spending on public education plus subsidies for private education. The data generally exclude foreign aid for education. They may also exclude spending by religious schools, which play a significant role in many developing countries. Data for some countries and for some years refer to spending by the ministry of education only (excluding education expenditures by other ministries and departments and local authorities).

Many developing countries have sought to supplement public funds for education. Some countries have adopted tuition fees to recover part of the cost of providing education services or to encourage development of private schools. Charging fees raises difficult questions relating to equity, efficiency, access, and taxation, however, and some governments have used scholarships, vouchers, and other methods of public finance to counter criticism. For most countries, the data reflect only public spending. Data for a few countries include private spending, although national practices vary with respect to whether parents or schools pay for books, uniforms, and other supplies. For greater detail, see the country- and indicator-specific notes in the source.

The share of public expenditure devoted to education allows an assessment of the priority a government assigns to education relative to other public investments, as well as a government's commitment to investing in human capital development. It also reflects the development status of a country's education system relative to that of others. However, returns on investment to education, especially primary and lower secondary education, cannot be understood simply by comparing current education indicators with national income. It takes a long time before currently enrolled children can productively contribute to the national economy (Hanushek 2002).

The share of trained teachers in primary education measures the quality of the teaching staff. It does not take account of competencies acquired by teachers through their professional experience or self-instruction or of such factors as work experience, teaching methods and materials, or classroom conditions, which may affect the quality of teaching. Since the training teachers receive varies greatly (pre-service or in-service), care should be taken in comparing across countries.

The primary pupil-teacher ratio reflects the average numbers of pupils per teacher. It is different from the average class size because of the different practices countries employ, such as part-time teaching, school shifts, and multigrade classes. The comparability of pupil-teacher ratios across countries is affected by the definition of teachers and by differences in class size by grade and in the number of hours taught, as well as the different practices mentioned above. Moreover, the underlying enrollment levels are subject to a variety of reporting errors (for further discussion of enrollment data see About the data for table 2.10). While the pupil-teacher ratio is often used to compare the quality of schooling across countries, it is often weakly related to the value added of schooling systems.

In 1998 UNESCO introduced the new International Standard Classification of Education 1997. Thus the time-series data for the years through 1997 are not consistent with those for 1998 and later. Any timeseries analysis should therefore be undertaken with extreme caution.

In 2006 the UNESCO Institute for Statistics also changed its convention for citing the reference year of education data and indicators to the calendar year in which the academic or financial year ends. Data that used to be listed for 2004/05, for example, are now listed for 2005. This change was implemented to present the most recent data available and to align the data reporting with that of other international organizations (in particular the Organisation for Economic Co-operation and Development and Eurostat).

Definitions

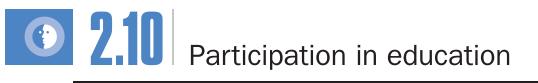
Public expenditure per student is public current spending on education divided by the number of students by level, as a percentage of gross domestic product (GDP) per capita.
 Public expenditure on education is current and capital public expenditure on education, as a percentage of GDP and as a percentage of total government expenditure.
 Trained teachers in primary education are the percentage of primary school teachers who have received the minimum organized teacher training (pre-service or in-service) required for teaching in their country.
 Primary pupil-teacher ratio is the number of pupils enrolled in primary school divided by the number of primary school teachers (regardless of their teaching assignment).

PEOPLE

Data sources

Data on education inputs are from the UNESCO Institute for Statistics, which compiles international data on education in cooperation with national commissions and national statistical services. Data for latest years are provisional, as of January 2007.

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		Gross en rat	rollment tio			Net enre rat				n out of 100l
	Preprimary	% of relevar Primary	it age group Secondary	Tertiary	Prin	% of relevan		ndary		sand ol-age children Female
	2005 ^b	2005 ^b	2005 ^b	2005 ^b	1991	2005 ^b	1991	2005 ^b	2005 ^b	2005 ^b
Afghanistan	1	87	16	1	••	••	••	••	••	••
Albania	49	106	78	19	95	94		74	7	7
Algeria	6	112	83	20	89	97	53	66	0	39
Angola	••	••		1	50		••	••		••
Argentina	62	112	86	64		99	••	79	3	19
Armenia	33	94	88	28	••	79	••	84	11	7
Australia	102	103	149	72	99	96	79	85	42	35
Austria	89	106	101	50	88		••			••
Azerbaijan	29	96	83	15	89	85	••	78	45	46
Bangladesh	11	109	46	6		93	••	43		
Belarus	105	101	95	62	86	89		89	17	21
Belgium	116	104	109	63	96	99	87	97	4	3
Benin	5	96	33		41	78	••			
Bolivia	50	113	88	41		94	••	73	28	19
Bosnia and Herzegovina										
Botswana	••	105	75	5	83	83	35	55	26	25
Brazil	68	141	102	22	85	93	17	76		
Bulgaria	78	105	102	41	86	95	63	88	5	5
Burkina Faso	2	58	14	2	29	45	••	11	553	649
Burundi	2	85	13	2	53	60			222	258
Cambodia	9	134	29	3	69	99	••	24	••	
Cameroon	25	117	44	6	74	••		••		
Canada	68	100	109	60	98		89			
Central African Republic	2	56	12	2	52		••	••		
Chad	1	77	16	1	35	61		11		
Chile	52	104	89	43	89		55	••		
China	36	118	73	19	97		••			
Hong Kong, China	69	105	87	31		93		80	1	12
Colombia	39	113	79	28	69	87	34	55	276	257
Congo, Dem. Rep.	1 6	62 88	22 39	••	54 79	 44	••	••		
Congo, Rep. Costa Rica				4				••	203	173
Côte d'Ivoire	69 3	110	79 25	25	87		38			
	48	72 96	25 88	 42	45 79	56 87	 63	20 85	519 7	705 7
Croatia Cuba	40	102	00 94	42 61	93	97	70	87	5	14
									••••	
Czech Republic Denmark	107 91	102 101	96 124	43 74	87 98	 98	 87	 92	 5	
Dominican Republic	91 34	101	124 71	33	98 57	90 88		92 53	67	∠ 53
Ecuador	34 77	113	61		98	98	••	52	11	0
Egypt, Arab Rep.	14	101	87	 33	98 84	95	••	79	58	161
El Salvador	51	113	63	19		93	••	53	26	22
Eritrea	12	64	31	13	 16	47	••	25	144	164
Estonia	114	100	98	65	99	94	••	90	2	104
Ethiopia	2	93	30 31	3	22	94 61		28	•••••••••••••••••••••••••••••••••••••••	
Finland	59	93 101	109	90	98	99	 93	28 94	 1	 1
France	114	101	111	56	100	99		96	11	4
Gabon	114	130	50		85					
Gambia, The	14	81	47	 1	48		••	 45		
Georgia	51	94	83	46	97	 87	••	72	 26	 22
Germany	97	100	100	+0	84		••		20	
Ghana	56 ^c	94 ^c	45°	 5 ^c	54	 69 ^c		 38°	 510 ^c	 480 ^c
Greece	66	102	96	79	95	99	 83	87	0	3
Guatemala	28	102	50	10		94		34		
Guinea	7	81	30	3	 27	66	••	24		
Guinea-Bissau					38					
		••		••			••		••	



Participation in education

			arollment tio				ollment io ^a			n out of 100l
	Duration		nt age group	Testion		% of relevar			primary-scho	sand bl-age children
	Preprimary 2005 ^b	Primary 2005 ^b	Secondary 2005 ^b	Tertiary 2005 ^b	Prir 1991	nary 2005^b	Seco 1991	ndary 2005 ^b	Male 2005 ^b	Female 2005 ^b
Honduras	33	113	65	16	89	91	21		43	27
Hungary	81	98	97	60	91	89	75	91	10	9
India	36	116	54	12		90				
Indonesia	22	117	64	17	97	94	39	57	0	246
Iran, Islamic Rep.	46	111	81	24	92	95	••	77	307	0
Iraq	6	98	45	15	94	88	••	38		
Ireland		106	112	59	90	96	80	87	8	7
Israel	112	110	93	56	92	98		89	9	7
Italy	103	101	99	63	100	99		92	4	7
Jamaica	92	95	88	19 54	96	91	64	79	16	14
Japan Jordan	85 30	100 98	102 87	54 39	100 94	100 91	97	100 81	7 26	0 17
Jordan Kazakhstan	30	98 109	87 99	39 53	94 89	91	••	92	26 4	6
Kenya	54	109	99 49		•••••••••••••••••••••••••••••••••••••••	80	••	92 42	4 526	506
Korea, Dem. Rep.			45				••	42		
Korea, Rep.	 91	 105	 93	 90	 100	 99	 86	 90		 10
Kuwait	73	98	95	18	49	87		78	14	14
Kyrgyz Republic	13	98	86	41	92	87		80	13	11
Lao PDR	9	116	47	8	63	84	••	38	55	71
Latvia	79	93	97	74	92	••	••			••
Lebanon	74	106	89	51	73	92	••		12	12
Lesotho	34	132	39	3	71	87	15	25	25	16
Liberia		••		••				••		
Libya	8	107	104	56	96				••	••
Lithuania	64	97	102	73		89		94	7	6
Macedonia, FYR	32	98	84	28	94	92		81	2	1
Madagascar	8	138		3	64	92	••		93	95
Malawi	••	122	28	Op	48	95		24	83	30
Malaysia	108	93	76	32		93	···	76	112	110
Mali	3	66	24	3	21	51	5		505	607
Mauritania	2	93	21	3	35	72	••	15	65	65
Mauritius	95	102	89	17	91	95		82	3	2
Mexico	84	109	80	23	98	98	44	64	22	7
Moldova	62 40	92 118	82 94	34 41	89 90	86 89	••	76 78	12 13	12 9
Mongolia Morocco	54	118	94 50	41 11	90 56	89	••	35	216	309
Mozambique		105	14	1	43	79	••	7	331	468
Myanmar	••	100	40	11	98	90	••	37	267	221
Namibia	 29	99	40 61	6		72	••	38	62	50
Nepal	64 ^c	126 ^c	43 ^c	6		78				
Netherlands	89	107	119	59	 95	99	 84	 89	 3	 11
New Zealand	92	102	118	86	98	99	85	91	1	1
Nicaragua	37	112	66	18	73	87		43	27	27
Niger	1	47	9	1	22	40	5	8	634	737
Nigeria	15	103	34	10	58	91	••	27		
Norway	85	99	116	80	100	99	88	96	2	2
Oman	7	84	87	15	69	76		75	41	38
Pakistan	50	87	27	5	33	68		21	2,328	3,975
Panama	62	111	70	44	••	98		64	1	2
Papua New Guinea	59	75	26	••			••	••		
Paraguay	31	106	63	24	94		26			
Peru	60	114	92	33		97		69	12	2
Philippines	40	112	86	29	96	94		61	392	255
Poland	53	99	97	61	97	97	76	90	41	33
Portugal	76	116	97	57	98	98		82	1	2
Puerto Rico				••			••			

Description Participation In education

		Gross en rat	rollment tio			Net enr rat				n out of nool
		% of relevar	nt age group			% of relevar	nt age group			sand ol-age children
	Preprimary 2005^b	Primary 2005 ^b	Secondary 2005 ^b	Tertiary 2005^b	Prii 1991	mary 2005^b	Seco 1991	ondary 2005 ^b	Male 2005 ^b	Female 2005^b
							1991			
Romania	76	107	85	40	81	92	••	81	23	24
Russian Federation	85	123	93	68	99	91		••	198	171
Rwanda	3	120	14	3	66	74	7		196	177
Saudi Arabia	10	91	88	28	59	78	31	66	426	367
Senegal	8	88	26	5	43	76	••	21	167	195
Serbia and Montenegro						••	••		••	
Sierra Leone	4	155	30	2	43			••		
Singapore	••	••	••		••	••	••	••	••	
Slovak Republic	92	99	94	36			••		••	···
Slovenia	79	99	100	74	96	98	••	95	Od	0
Somalia	2 ^c	17			9	19 ^c		••		
South Africa	37	104	93	16	90	87	45		321	248
Spain	111	108	119	66	100	99	••	97	3	10
Sri Lanka	••	98	83		••	97	••	••	9	13
Sudan	25	60	34	••	40				••	
Swaziland	18	107	45	4	77	80	31	33	21	19
Sweden	85	99	103	84	100	99	85	98	4	5
Switzerland	95	102	93	47	84	94	80	83	5	4
Syrian Arab Republic	10	124	68		91	95	43	62	0	70
Tajikistan	9	101	82	17	77	97		80	2	15
Tanzania	29	106		1	49	91		••	273	331
Thailand	90	97	73	43	76			••		
Togo	2	100	40		64	78	15	••		
Trinidad and Tobago	86	106	88	12	91	95		75	O ^d	0
Tunisia	22	110	81	29	94	97		67	11	6
Turkey	8	93	79	29	89	89	42		354	546
Turkmenistan										
Uganda	2	118	16	3				13		
Ukraine	86	107	89	69	80	83		79	152	144
United Arab Emirates	64	83	64	22	99	71	60	57	37	39
United Kingdom	59	107	105	60	98	99	81	95	1	Od
United States	62	99	95	82	97	92	85	89	593	1,028
Uruguay	61	109	108	39	91					
Uzbekistan	28	100	95	15	78			••		
Venezuela, RB	58	105	74	41	87	91	18	63	130	106
Vietnam	60	95	76	16	90	88		69		
West Bank and Gaza	30	89	99	38		80		95	35	35
Yemen, Rep.	1	87	48	9	51	75	••	••	••	
Zambia		111	28			89	••	26	119	109
Zimbabwe	43	96	36	4		82		34	224	206
World	38 w	107 w	65 w	24 w	83 w	w	W	W		
Low income	27	102	45	9		78		37		
Middle income	39	113	77	26	92		••	69		
Lower middle income	35	115	76	22	92	93		65		
Upper middle income	59	105	86	43	93	94		75		
Low & middle income	33	107	61	18	81		••	••		
East Asia & Pacific	36	114	71	19	96	93	••			
Europe & Central Asia	50	102	90	49	90	91		84		
Latin America & Carib.	62	118	86	28	85	95	30	67		
Middle East & N. Africa	21	103	73	22	84	90	••	65		
South Asia	33	110	50	10		86	••			
Sub-Saharan Africa	16	92	30	5	50	66	••	24		
High income	76	100	100	67	95	94	••	90		
Europe EMU	101	104	106	62	95	99		94		

a. Because of the change from International Standard Classification of Education (ISCED) 76 to ISCED 97 in 1998, data before 1998 are not fully comparable with data from 1998 onward. b. Provisional data. c. Data are for 2006. d. Less than 0.5.

School enrollment data are reported to the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics by national education authorities and statistical offices. Enrollment ratios help to monitor two important issues for universal primary education: whether a country is on track to achieve the Millennium Development Goal of universal primary completion by 2015, which implies achieving a net primary enrollment ratio of 100 percent, and whether an education system has sufficient capacity to meet the needs of universal primary education, as indicated in part by its gross enrollment ratios.

Enrollment ratios, while a useful measure of participation in education, also have some limitations. They are based on data collected during annual school surveys, which are typically conducted at the beginning of the school year. They do not reflect actual rates of attendance or dropouts during the school year. And school administrators may report exaggerated enrollments, especially if there is a financial incentive to do so. Typically, the total number of teachers allocated to a given school is related to enrollment. This may create perverse incentives to inflate enrollment levels, particularly when enrollment is closely linked to government school funding formulas, such as student capitation grants.

Also as international indicators, the gross and net primary enrollment ratios have an inherent weakness: the length of primary education differs significantly across countries, although the International Standard Classification of Education tries to minimize the difference. A relatively short duration for primary education tends to increase the ratio, whereas a relatively long duration tends to decrease it (in part because there are more dropouts among older children).

Overage or underage enrollments frequently occur, particularly when parents prefer, for cultural or economic reasons, to have children start school at other than the official age. Children's age at enrollment may be inaccurately estimated or misstated, especially in communities where registration of births is not strictly enforced. Parents who want to enroll an underage child in primary school may do so by overstating the child's age. And in some education systems ages for children repeating a grade may be underreported.

Other problems affecting cross-country comparisons of enrollment data stem from errors in estimates of school-age populations. Age-sex structures from censuses or vital registration systems, the primary sources of data on school-age populations, are commonly subject to underenumeration (especially of young children) aimed at circumventing laws or regulations. Errors are also introduced when parents round up children's ages. While census data are often adjusted for age bias, adjustments are rarely made for inadequate vital registration systems. Compounding these problems, pre- and post-census estimates of school-age children are interpolations or projections based on models that may miss important demographic events (see the discussion of demographic data in *About the data* for table 2.1).

Thus gross enrollment ratios indicate the capacity of each level of the education system, but a high ratio does not necessarily mean a successful education system. The net enrollment ratio excludes overage and underage students in an attempt to capture more accurately the system's coverage and internal efficiency. It does not solve the problem completely, however, because some children fall outside the official school age because of late or early entry rather than because of grade repetition. The difference between gross and net enrollment ratios shows the incidence of overage and underage enrollments.

In using enrollment data, it is also important to consider repetition rates. These rates are quite high in some developing countries, leading to a substantial number of overage children enrolled in each grade and raising the gross enrollment ratio.

Children out of school are children in the primary school age group who are not enrolled in primary or secondary education. The data are calculated by the UNESCO Institute for Statistics using administrative data. Children out of school include dropouts and children who never enrolled as well as children of primary age enrolled in preprimary education. The large number of children out of school creates pressure for the education system to enroll children and to provide classrooms, teachers, and educational materials, a task made difficult in many developing countries by limited education budgets. However, getting these children into school is a high priority for countries and crucial for their prospects for achieving the Millennium Development Goal of universal primary education.

In 2006 the UNESCO Institute for Statistics changed its convention for citing the reference year. For more information, see *About the data* for table 2.9.

Definitions

· Gross enrollment ratio is the ratio of total enrollment, regardless of age, to the population of the age group that officially corresponds to the level of education shown. • Preprimary education refers to the initial stage of organized instruction, designed primarily to introduce very young children to a school-type environment. • Primary education provides children with basic reading, writing, and mathematics skills along with an elementary understanding of such subjects as history, geography, natural science, social science, art, and music. . Secondary education completes the provision of basic education that began at the primary level and aims at laying the foundations for lifelong learning and human development by offering more subject- or skill-oriented instruction using more specialized teachers. • Tertiary education refers to a wide range of post-secondary education institutions, including technical and vocational education, colleges, and universities, whether or not leading to an advanced research qualification, that normally require as a minimum condition of admission the successful completion of education at the secondary level. • Net enrollment ratio is the ratio of total enrollment of children of official school age based on the International Standard Classification of Education 1997 to the population of the age group that officially corresponds to the level of education shown. • Children out of school are the number of primary school age children not enrolled in primary or secondary school.

Data sources

Data on gross and net enrollment ratios and out of school children are from the UNESCO Institute for Statistics. Data for latest years are provisional, as of January 2007.

2.11 Education efficiency

		take rate ade 1		Share o reaching	f cohort grade 5 ^a		Repea primary	ters in school		tion to education
	% of re age g	elevant group		% of g stud				of ment		nent in last primary
	Male 2005 ^b	Female 2005 ^b	M 1991	ale 2004 ^b	Fe 1991	emale 2004 ^b	Male 2005 ^b	Female 2005 ^b	Male 2004 ^b	Female 2004 ^b
Afghanistan	96	67	••				18	14		
Albania	99	99				••	3	2	100	99
Algeria	102	99	95	94	94	97	14	8	76	83
Angola		••			••	••			••	••
Argentina	110	110	••	84	••	85	8	5	92	94
Armenia	98	102	••		••		0 ^c	0 ^c	93	93
Australia	103	102	98		99	••	••	••	100	100
Austria	105	105	••	••	••	••		••	••	••
Azerbaijan	94	93			••		0c	0c	99	99
Bangladesh	116	131	••	63	••	67	7	7	89 ^d	96 ^d
Belarus	105	103					0 ^c	0 ^c	99	100
Belgium	103	104	90		92			••		
Benin	109	97	54	53	56	50	17	17	51	51
Bolivia	119	119	••	85	••	85	2	1	90	90
Bosnia and Herzegovina		••								
Botswana	108	102	81	89	87	92	6	4	97	98
Brazil	127	117				••				
Bulgaria	107	104	91		90		3	2	96	96
Burkina Faso	81	69	71	75	68	76	12	12	47	44
Burundi	92	84	65	66	58	68	30	30	35	30
Cambodia	137	128	••	62	••	65	15	12	84	80
Cameroon	120	104		64		63	26	25	43	47
Canada	97	96	95		98					••
Central African Republic Chad	69	50	24 56		22 41		30	31 24		 42
Chile	112 99	81 97	94	34 99	41 91	32 99	22 3	24	56 95	42 98
China	99 95	93	58		78		0 ^c	2 0 ^c		
Hong Kong, China	93	93 87		 99		 100	1	1	 100	 100
Colombia	126	119		81		86	5	4	100	100
Congo, Dem. Rep.	72	61	 58		 50		16	17		
Congo, Rep.	62	62	56	65	65	67	25	23	58	58
Costa Rica	103	103	83	84	85	90	8	6	92	91
Côte d'Ivoire	75	68	75		70		17	18	42	36
Croatia	99	97			••	••	0 ^c	Oc	100	100
Cuba	105	104		96		98	1	0 ^c	98	99
Czech Republic	97	96		98	••	99	1	1	99	99
Denmark	98	99	94	••	94	••	••	••	100	100
Dominican Republic	118	108	••	••	••		10	6	83	92
Ecuador	136	134		75	••	77	2	2	76	71
Egypt, Arab Rep.	99	99		98	••	99	5	3	83	89
El Salvador	129	123	56	67	60	72	7	5	93	93
Eritrea	55	45		83		74	13	13	91	85
Estonia	101	101	••	99	••	99	3	1	94	99
Ethiopia	148	135	16		23		8	6	84	84
Finland	98	97	100	100	100	100	1	Oc	100	100
France			69		95				••	••
Gabon	94	94	••	68	••	71	35	34		••
Gambia, The	87	99	••		••		10	9		
Georgia	103	105	••	76	••	83	0 ^c	0 ^c	98	99
Germany	105	105	 01		 70		2	1	99	99
Ghana	107 ^e	113 ^e	81	62	79	65	6 0	6	87	87
Greece	103 125	103 122	100	 70	100	 66	13	0 12	 97	 95
Guatemala Guinea	87	81	 64	70	 48	73	13	9	97 68	95 58
Guinea-Bissau		•••••••••••••••••••••••••••••••••••••••		•••••••••••••••••••••••••••••••••••••••						•••••••••••••••••••••••••••••••••••••••
Guillea D13380		••	••	••	••	••	••	••		



Education efficiency **2.11**

		take rate ade 1			f cohort grade 5 ^a			ters in school		tion to education
		elevant group			rade 1 Ients			of Iment		ment in last primary
	Male 2005 ^b	Female 2005 ^b	M 1991	ale 2004 ^b	Fer 1991	male 2004^b	Male 2005 ^b	Female 2005 ^b	Male 2004 ^b	Female 2004 ^b
Honduras	129	127				••	9	7		
Hungary	96	94	77		98		3	2	98	99
India	139	130		81		76	3	3	87	82
Indonesia	121	116	34	88	78	90	3	3	84	84
Iran, Islamic Rep.	107	139	91	88	89	87	3	1	95	86
Iraq	110	103		87		73	9	7	73	66
Ireland	102	101	99	100	100	100	1	1		••
Israel	99	102		100		100	2	1	74	74
Italy	103	103		96		97	0 ^c	0 ^c	100	99
Jamaica	93	92		86	••	92	3	2		••
Japan	98	98	100		100	••	••	••	••	••
Jordan	91	92		99		99	1	1	97	97
Kazakhstan	108	107	••		••	••	0 ^c	0 ^c	100	100
Kenya	120	116	75	 81	78	85	6	6		
Korea, Dem. Rep.										
Korea, Rep.	 105	 107	 99	 98	 100	 98	 0	 0	 99	 98
Kuwait	93	92					2	2	93	97
Kyrgyz Republic	97	94			•••••••••••••••••••••••••••••••••••••••	••	0 ^c	0 ^c	98	100
Lao PDR	121	111		 64		 62	20	18	80	75
Latvia	90	89		•••••••••••••••••••••••••••••••••••••••			4	2	97	99
Lebanon	102	100	••	 91		 96	12	8	83	88
Lesotho	102	120	 58	58	 73	69	21	17	67	65
Liberia		••••••	•••••••••••••••••••••••••••••••••••••••						•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••	••	••	••	••	••	••	••	••	••	••
Libya Lithuania			••	••	••	••	 1	 0 ^c	 99	 99
	101 98	102 97	••	••	••	••	0 ^c	0°	99 99	99 98
Macedonia, FYR	182	176	 22	 43	 21	 43	19	18	99 56	53
Madagascar Malawi	182		71	43	57	43 37	19	8	77	72
		188							•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
Malaysia	94	94	97	99	97	98				
Mali	70	59	71	78	67	70	18	19	53	48
Mauritania	112	113	76	51	75	55	10	10	48	43
Mauritius	102	102	97	97	98	97	5	4	60	69
Mexico	106	105	35	92	71	94	6	4	95	92
Moldova	93	91	••		••		0 ^c	0 ^c	99	98
Mongolia	148	149					0 ^c	0 ^c	96	99
Morocco	101	97	75	81	76	77	15	10	79	78
Mozambique	161	150	36	66	32	58	11	10	51	56
Myanmar	123	122		68		72	0 ^c	0 ^c	72	71
Namibia	93	94	60	84	65	85	15	12	90	93
Nepal	160 ^e	160 ^e	51	75 ^d	51	83 ^d	21 ^e	20 ^e	79	74
Netherlands	100	99		100		99			96	100
New Zealand	100	99	••	••	••	••	••	••	••	••
Nicaragua	147	137	11	51	37	56	11	9	••	••
Niger	65	51	61	66	65	64	5	6	63	53
Nigeria	124	107	••	71	••	75	2	3	••	••
Norway	98	98	99	99	100	100	••	••	100	100
Oman	73	74	97	98	96	98	1	1	98	99
Pakistan	128	103	••	68	••	72	3	3	67	72
Panama	110	109	••	85	••	86	7	5	64	65
Papua New Guinea	101	90	70	68	68	68	0	0	77	77
Paraguay	109	106	73	80	75	83	9	6	91	91
Peru	105	106		90	••	90	8	7	96	94
Philippines	138	129	••	71	••	80	3	1	97	96
Poland	97	97	89		96		1	0 ^c	••	
Portugal	105	106	••		••		13	7	••	••
Puerto Rico	••	••	••	••	••		••	••	••	••

2.11 Education efficiency

		take rate ade 1		Share o reaching	f cohort grade 5 ^a		-	iters in / school		tion to education
		elevant group		% of g stud				of Iment		ment in last primary
	Male 2005 ^b	Female 2005 ^b	M 1991	ale 2004 ^b		nale 2004^b	Male 2005 ^b	Female 2005 ^b	Male 2004 ^b	Female 2004 ^b
Romania	126	126					3	2	98	98
Russian Federation	98	97							·	•••
Rwanda	178	177	61	43	59	49	19	19		
Saudi Arabia	85	89	82	100	84	94	5	5	93	97
Senegal	101	105		79		77	13	13	63	59
Serbia and Montenegro										••
Sierra Leone								••		
Singapore										
Slovak Republic	97	96	••		••	••	3	2	98	99
Slovenia	145	144					1	Oc	100	99
Somalia				66		52	- 			
South Africa		111		82		83		8	89	 91
Spain	103	102			 		3	2		
Sri Lanka	99	97	92		93				96	
Sudan	72	62	90	 78	99	 79			88	91
Swaziland	122	114	74	74	80	80	18	14	91	89
Sweden	92	93	100		100			 		
Switzerland	89	94	••••••					 1	 100	 100
Syrian Arab Republic	123	119	 97	 93	 95	 92		6	94	95
Tajikistan	123	97	••••••	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••		0 ^c	0 ^c	94 98	95
Tanzania	101	•••••••••••••••••••••••••••••••••••••••	 81	 76	 82	 76	4	4	98 34	33
Thailand		124								
Togo Trinidad and Tabaga	94	88 98	52	79	42	70 76	23 6	23 4	70 95	63 97
Trinidad and Tobago	99			66			9			
Tunisia	94	96	94	96	77	97		6	86	90
Turkey	93	88	98	95	97	94	3	4	93	89
Turkmenistan			••		••					
Uganda	164	163	••	63	••	64	14	14	36	36
Ukraine	104	104					0 ^c	0 ^c	99	100
United Arab Emirates United Kingdom	89 	89 	80 	96	80 	97 	2 0	2 0	97 	98
United States	100	99			••					••
Uruguay	105	106	96	87	98	90	10	7	76	87
Uzbekistan	102	102					0	0	100	99
Venezuela, RB	101	98	82	88	90	95	8	5	98	99
Vietnam	101	95		87		86	3	2	95	94
West Bank and Gaza	82	82					1 ^c	1 ^c	100	100
Yemen, Rep.	122	97		78		67	5	4		
Zambia	126	123					7	6	54	57
Zimbabwe	122	118	72	68	81	71			69	70
World	138 w	140 w	w	w	w	w	5 w	4 w	w	w
Low income	138	140		77		75	6	6	81	77
Middle income	104	102					3	3		
Lower middle income	104	102	59		79		3	2		
Upper middle income	103	100	••	••	••		••	••	••	••
Low & middle income	138	140					5	4		
East Asia & Pacific	104	101	55	••	78		1	1	••	••
Europe & Central Asia	99	97	••		••	••	••	••	••	••
Latin America & Carib.	120	115	••		••		••	••	••	
Middle East & N. Africa	104	103		90		87	8	5	85	88
South Asia	160	160		79		75	4	4	85	82
Sub-Saharan Africa	120	110	••				9	9		
High income	100	100	••				 			••
Europe EMU	100	100	••	••		 		 1	••	••

a. Because of the change from International Standard Classification of Education (ISCED) 76 to ISCED 97 in 1998, data before 1998 are not fully comparable with data from 1998 onward. b. Provisional data. c. Less than 0.5. d. Data are for 2005. e. Data are for 2006.

Indicators of students' progress through school are estimated by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics. These indicators measure an education system's success in extending coverage to all students, maintaining the flow of students efficiently from one grade to the next, and imparting a particular level of education.

Gross intake rate indicates the general level of access to primary education. It also indicates the capacity of the education system to provide access to primary education. Low gross intake rates in grade 1 reflect the fact that many children do not enter primary school even though school attendance, at least through the primary level, is mandatory in all countries. Because the gross intake rate includes all new entrants regardless of age, it can be more than 100 percent. Once enrolled, students drop out for a variety of reasons, including low quality of schooling, relevance of curriculum (whether real or perceived by parents or students), repetition and discouragement over poor performance, and the direct and indirect costs of schooling. Students' progress to higher grades may also be limited by the availability of teachers, classrooms, and educational materials.

The share of cohort reaching grade 5 (cohort survival rate) is estimated as the proportion of an entering cohort of grade 1 students that eventually reaches grade 5. It measures the holding power and internal efficiency of an education system. Cohort survival rates approaching 100 percent indicate a high level of retention and a low level of dropout.

Cohort survival rates are typically estimated from data on enrollment and repetition by grade for two consecutive years, in a procedure called the reconstructed cohort method. This method makes three simplifying assumptions: dropouts never return to school; promotion, repetition, and dropout rates remain constant over the entire period in which the cohort is enrolled in school; and the same rates apply to all pupils enrolled in a given grade, regardless of whether they previously repeated a grade (Fredricksen 1993). Given these assumptions, cross-country comparisons should be made with caution, because other flows—caused by new entrants, reentrants, grade skipping, migration, or school transfers during the school year—are not considered.

The UNESCO Institute for Statistics measures the share of cohort reaching grade 5 because research suggests that five to six years of schooling is a critical threshold for the achievement of sustainable basic literacy and numeracy skills. But the indicator only indirectly reflects the quality of schooling, and a high rate does not guarantee these learning outcomes. Measuring actual learning outcomes requires setting curriculum standards and measuring students' learning progress against those standards through standardized assessments or tests. Currently, many countries do not systematically measure learning progress and outcomes.

The data on repeaters are often used to indicate the internal efficiency of the education system. Repeaters not only increase the cost of education for the family and for the school system, but also use limited school resources. Countries have different policies on repetition and promotion; in some cases the number of repeaters is controlled because of limited capacity. Care should be taken in interpreting this indicator.

The transition rate from primary school to secondary school conveys the degree of access or transition between the two levels of education. As completing primary education is a prerequisite for participating in lower secondary school, growing numbers of primary completers will inevitably create pressures for expanding the number of places available at the secondary level. A low transition rate can signal problems such as an inadequate promotion and examination system or insufficient capacity in secondary schools. The quality of data on the transition rate is affected when new entrants and repeaters are not correctly distinguished in the first grade of secondary school. Students who interrupt their studies for one or more years after completing primary school could also affect the quality of the data.

In 2006 the UNESCO Institute for Statistics changed its convention for citing the reference year. For more information, see *About the data* for table 2.9.

Definitions

· Gross intake rate in grade 1 is the number of new entrants in the first grade of primary education regardless of age, expressed as a percentage of the population of the official primary school entrance age. • Share of cohort reaching grade 5 is the percentage of children enrolled in the first grade of primary school who eventually reach grade 5. The estimate is based on the reconstructed cohort method (see About the data). • Repeaters in primary school are the number of students enrolled in the same grade as in the previous year, as a percentage of all students enrolled in primary school. • Transition to secondary education refers to the number of new entrants to the first grade of secondary school in a given year, as a percentage of the number of students enrolled in the final grade of primary school in the previous year.

Data sources

Data on education efficiency are from the UNESCO Institute for Statistics. Data for latest years are provisional, as of January 2007.

 ② 2.12
 Education completion and outcomes

			-	ompletion te					iteracy te			literacy Ite
			% of relevar	nt age group				% ages	15-24		% ages 15	5 and older
	To 1991	tal ^a 2005 ^b	Ma 1991	1le ^a 2005 ^b	Fen 1991	nale ^a 2005 ^b	1990 M	ale 2006°	Fe 1990	male 2006°	Male 2006°	Female 2006°
Afghanistan	25	32	37	46	13	18		51		18	43	13
Albania		97		97		97	97	99	92	99	99	98
Algeria	79	96	86	96	73	95	86	94	68	86	80	60
Angola	35							84		63	83	54
Argentina	••	100	••	99	••	105	98	99	98	99	97	97
Armenia	90	91	••	89	••	92	100	100	99	100	100	99
Australia	••	••	••	••		••	••	••		••	••	••
Austria	••	••	••	••	••	••	••	••	••	••	••	
Azerbaijan		94		95		93		100		100	99	98
Bangladesh	49	77		74		79	51	••	33			
Belarus	95	100	95	102	96	97	100	100	100	100	100	99
Belgium	79	••	76		82			••		••		
Benin	21	65	28	78	13	52	57	59	25	33	48	23
Bolivia		101		102	••	99	96	99	89	96	93	81
Bosnia and Herzegovina								100		100	99	94
Botswana	83	92	75	90	90	94	79	92	87	96	80	82
Brazil	93	108	••		••	••	91	96	93	98	88	89
Bulgaria	85	98	87	99	83	97	100	98	99	98	99	98
Burkina Faso	21	31	26	35	16	27		38		25	29	15
Burundi	46	36	49	40	43	31	58	77	45	70	67	52
Cambodia		92	••	94	••	90	81	88	66	79	85	64
Cameroon	56	62	60	68	52	57	86		76		77	60
Canada		••	••	••	••	••	••	••		••	••	••
Central African Republic	27	23	35	29	18	16	66	70	39	47	65	33
Chad	18	32	30	42	7	21	58	56	38	23	41	13
Chile		95	••	96	••	95	98	99	98	99	96	96
China	103	98	••	••	••	••	97	99	93	99	95	87
Hong Kong, China	102	110	••	112	••	107	••	••		••		••
Colombia	70	98	67	96	73	100	94	98	96	98	93	93
Congo, Dem. Rep.	46	39	58	47	34	31	80	78	58	63	81	54
Congo, Rep.	54	57	59	60	49	55	95		90	••		
Costa Rica	79	92	77	91	81	93	97	97	98	98	95	95
Côte d'Ivoire	43		55		32		65	71	40	52	61	39
Croatia	85	91	••	92	••	91	100	100	100	100	99	97
Cuba	96	94		95	••	93	99	100	99	100	100	100
Czech Republic	••	104	••	104	••	104	••	••	••	••		••
Denmark	98	99	98	99	98	100	••	••	••	••	••	••
Dominican Republic	61	92		88		96	87	93	88	95	87	87
Ecuador	91	101	91	100	92	101	96	96	95	96	92	90
Egypt, Arab Rep.		95		96		93	71	90	51	79	83	59
El Salvador	41	87	38	86	43	87	85		83	••	••	
Eritrea	19	51	22	58	17	44	73		49			
Estonia	93	101	93	103	94	100	100	100	100	100	100	100
Ethiopia	26	55	32	61	19	49	52		34			
Finland	97	100	98	99	97	100				••		
France	104						••	••	••	••	••	
Gabon	58	66	55	65	61	68		••				
Gambia, The	44		55		33		50	••	34	••	••	••
Georgia		87		86		87	••	••	••	••	••	••
Germany	100	96	99	96	100	96			 75	 CE		
Ghana	63	72	70	75	55	69	88	76	75	65	66	50
Greece	99	102	99	103	98	101	99	99	100	99 78	98	94
Guatemala		74	 24	79	 9	69	80	86 50	66	78	75	63
Guinea Guinea Rissau	17	55	24	64		45	62	59	26	34	43	18
Guinea-Bissau Haiti	 27		 29	••	 26	••	 56	••	 54		·· ·	••



Education completion and outcomes

			-	completion ate					literacy ite			literacy ate
	To 1991	tal ^a 2005 ^b		int age group ale ^a 2005^b	Fer 1991	nale ^a 2005 ⁶	1990	% ages Male 2006^c	15–24 Fei 1990	male 2006°	% ages 15 Male 2006 ¢	5 and older Female 2006°
Honduras	65	79	67	77	62	82	78	87	81	91	80	80
Hungary	93 68	95 89	88 81	95 93	90 55	96 84	100 73	 84	100 54	 68	 73	 48
ndia ndonesia	68 91	89 101		93 101		84 102	97	84 99	93	99	94	48 87
ran, Islamic Rep.	91	96	 97	91	 85	102	92		93 81		94 84	70
raq	59	74	64	85	53	63	56	 89	25	 80	84	64
reland		101		100		102						
srael		105		104		105	99	100	98	100	98	96
taly	104	101	104	101	104	101		100		100	99	98
lamaica	90	84	86	83	94	86	87		95		74	86
lapan	101		101	••	102					••		
lordan	72	97	69	97	77	96	98	99	95	99	95	85
Kazakhstan	••	114	••	115		113	100	100	100	100	100	99
Kenya		95		96		94	93	80	87	81	78	70
Korea, Dem. Rep.	••		••	••						••	••	
Korea, Rep.	98	104	98	104	98	104		••		••	••	
Kuwait	••	100	••	104	••	97	88	100	87	100	94	91
Kyrgyz Republic		97		97		98		100		100	99	98
ao PDR	43	76	48	80	38	72	79	83	61	75	77	61
_atvia		92		93	••	92		100		100	100	100
_ebanon		90	••	88	••	91	95	••	89	••	••	••
esotho	59	67	42	55	76	79	77	••	97	••	74	90
_iberia		••	••			••	75		39	••		••
_ibya			••		••		99		83			
_ithuania	89	98	••	99	••	97	100	100	100	100	100	100
Macedonia, FYR	98	96		96		97		99		98	98	94
Madagascar Malawi	33 28	58 61	33 36	58 62	34 21	58 59	78 76	73 82	67 51	68 71	77 75	65 54
Malawi Malaysia	28 91	94	36 91	62 91	21 91	59 91	95	82 97	94	97	92	54 85
Vali	11	38	13	45	9	31		32		17	92 27	12
Vauritania	33	45	40	46	26	43	 56	68	 36	55	60	43
Vauritius	107	97	107	97	107	98	91	94	91	95	88	81
Vexico	86	99	89	98	90	100	96	98	94	98	92	90
Voldova		92		93		91	100	99	100	100	99	98
Vongolia		97		94		99		97		98	98	98
Morocco	47	80	55	84	38	77	68	81	42	60	66	40
Nozambique	27	42	33	49	22	35	66	••	32	••	••	••
Myanmar	••	79		78	••	80	90	96	86	93	94	86
Vamibia	78	75	70	71	86	80	86	91	89	93	87	83
Vepal	51	76 ^d	68	80 ^d	40	72 ^d	67	81	27	60	63	35
Vetherlands	••	100		101		99					••	
New Zealand	100		101	••	99							
Nicaragua	44	76	43	73	59	80	68	84	69	89	77	77
Viger	17	28	21	34	12	22	25	52	9	23	43	15
Nigeria		82		89		74	81		66	••		
Norway	100	101	100	101	100	101						
Oman	74	93	78	94	70	93	95	98	75	97	87	74
Pakistan		63		73		52	63	76	31	55	63	36
Panama	86	97 54	86	97	86	97	96	97	95	96	93	91
Papua New Guinea	47	54	52 70	58	42	50	74	69	62	64	63	51
Paraguay Peru	71	91 100	70	90 100	71	91 99	96 97	 98	95 92	 96	 93	 82
Philippines	 86	97	 84	93	 84	99 100	97 97	98 94	92 97	96	93	93
Poland	80 98	97 100										
Portugal	98	100	 94	 102	 95	 107	••	••	••	••	••	••
Puerto Rico	95				95		·· ··	••	••			••

 Description
 <thDescription</th>
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			-	completion ate				Youth I ra	-			literacy ate
		. 9		int age group	_			% ages			-	5 and older
	Tot 1991	al ^a 2005 ^b	1991 M	ale ^a 2005 ^b	Fem 1991	2005 ^b	1990 Ma	ale 2006°	Ferr 1990	ale 2006°	Male 2006°	Female 2006°
Romania	96	93	96	94	96	93	99	98	99	98	98	96
Russian Federation	93	94	92	••	93		100	100	100	100	100	99
Rwanda	33	39	36	40	30	38	78	79	67	77	71	60
Saudi Arabia	56	85	60	85	51	86	91	98	79	94	87	69
Senegal	39	52	47	56	30	49	50	58	30	41	51	29
Serbia and Montenegro	71	••						99 ^e		99 ^e	99 ^e	94 ^e
Sierra Leone		••						59		37	47	24
Singapore		••					99	99	99	100	97	89
Slovak Republic	96	99	95	99	96	100		100		100	100	100
Slovenia	95	102		103		102	 100		 100			
Somalia							••••••	••••••				
South Africa	 75	 99	 71	 99	 80	 99	 89	 93	 88	 94	 84	 81
		99 109		99 110		99 109						
Spain Sri Lonko		••••••										
Sri Lanka	97		98		96		96	95 05	94	96	92	89
Sudan	41	50	46	53	37	46	76 [†]	85 ^f	54 ^f	71 ^f	71 ^f	52 ^f
Swaziland	60	64	57	62	63	66	85	87	85	90	81	78
Sweden	96	••	96	••	96	••	••	••	••	••	••	••
Switzerland	53	97	53	96	54	98						
Syrian Arab Republic	89	111	94	112	84	109	92	94	67	90	86	74
Fajikistan		102		104		100	100	100	100	100	100	99
Tanzania	61	54	60	55	62	53	89	81	77	76	78	62
Thailand	••	82	••	83	••	81		98		98	95	91
Togo	35	65	48	76	22	54	79	84	48	64	69	38
Trinidad and Tobago	100	99	97	97	102	100	100		100			
Tunisia	74	97	79	97	69	98	93	96	75	92	83	65
Turkey	90	88	93	93	86	82	97	98	88	93	95	80
Turkmenistan								100		100	99	98
Jganda		57		61		53	80	83	60	71	77	58
Ukraine	 94	114	 98		 97		100	100	100	100	100	99
United Arab Emirates	103	76	104	 78	103	 75	82	••••••	89		••••••	
								••		••	••	••
United Kingdom	••	••		••	••	••			••	••	••	••
United States								••		••	••	••
Uruguay	94	91	91	89	96	93	98		99	••		••
Uzbekistan		97		97		96	100		100			
Venezuela, RB	43	92	37	89	49	95	95	96	97	98	93	93
Vietnam		94	••	104		98	94	94	94	94	94	87
West Bank and Gaza		98		98		98	••	99		99	97	88
Yemen, Rep.		62		78		46	74		25			
Zambia		78		89		66	86	73	76	66	76	60
Zimbabwe	99	80	100	82	97	79	97	••	91	••	••	••
World	w	85 w	w	87 w	w	83 w	w	90 w	w	84 w	87 w	77 v
Low income	60	74	70	79	49	69	73	80	55	67	71	50
Middle income	93	96	96	96	90	95	95	97	91	95	93	87
Lower middle income	94	97	99	97	91	96	95	97	90	95	93	85
Upper middle income	87	95	86	95	87	95	97	98	95	98	96	93
.ow & middle income	79	84	85	86	73	95 81	86	89	77	82	85	72
East Asia & Pacific	100	98	105	98	96	98	97	98	93	97	95	87
		••••••				••••••	••••••	••••••				
Europe & Central Asia	91	92	93	93	92	91	99	99	97	99	99	96
Latin America & Carib.	83	98	82	98	84	99	93	96	93	96	91	89
Middle East & N. Africa	77	89	83	92	71	86	80	89	59	77	81	61
South Asia	76	82	86	86	65	77	70	80	50	63	70	45
Sub-Saharan Africa	50	58	55	63	46	53	76	78	61	68	70	53
High income	••	97	••	98	••	97	••	99	••	99	99	98
Europe EMU		••				••			••		••	••

a. Because of the change from International Standard Classification of Education (ISCED) 76 to ISCED 97 in 1998, data before 1998 are not fully comparable with data from 1998 onward. b. Provisional data. c. Actual reference year varies by country. For more information, see the original source. d. Data are for 2006. e. Data exclude Kosovo and Metohia. f. Data are for North Sudan only.

Many governments collect and publish statistics that indicate how their education systems are working and developing-statistics on enrollment and on such efficiency indicators as repetition rates, pupil-teacher ratios, and cohort progression through school. The World Bank and the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics worked jointly to develop the primary completion rate indicator. Increasingly used as a core indicator of an education system's performance, it reflects both the coverage of the education system and the educational attainment of students. The indicator is vital as a key measure of educational outcome at the primary level and of progress on the Millennium Development Goals and the Education for All initiative. However, because curricula and standards for school completion vary across countries, a high rate of primary completion does not necessarily mean high levels of student learning.

The primary completion rate reflects the primary cycle as defined by the International Standard Classification of Education, ranging from three or four years of primary education (in a very small number of countries) to five or six years (in most countries) and seven (in a small number of countries).

The data in the table are for the proxy primary completion rate, calculated by taking the total number of students in the last grade of primary school, minus the number of repeaters in that grade, divided by the total number of children of official graduation age. Data limitations preclude adjusting this number for students who drop out during the final year of primary school. Thus proxy rates should be taken as an upper-bound estimate of the actual primary completion rate. There are many reasons why the primary completion rate can exceed 100 percent. The numerator may include late entrants and overage children who have repeated one or more grades of primary school but are now completing primary school as well as children who entered school early, while the denominator is the number of children of official completing age. There are other data limitations that contribute to completion rates exceeding 100 percent, such as the use of estimates for the population with varying reliability for some countries, the conduct of school and population surveys at different times of year, and other discrepancies in the numbers used in the calculation.

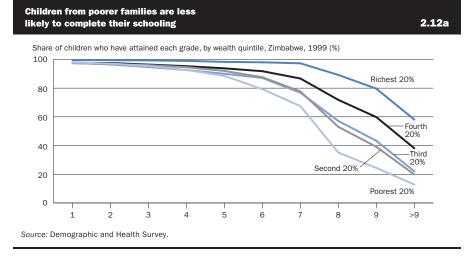
Basic student outcomes include achievements in reading and mathematics judged against established standards. In many countries national learning assessments are enabling ministries of education to monitor progress in these outcomes. Internationally, the UNESCO Institute for Statistics has established literacy as an outcome indicator based on an internationally agreed definition.

The literacy rate is defined as the percentage of people who can, with understanding, both read and write a short, simple statement about their everyday life. In practice, literacy is difficult to measure. To estimate literacy using such a definition requires census or survey measurements under controlled conditions. Many countries estimate the number of literate people from self-reported data. Some use educational attainment data as a proxy but apply different lengths of school attendance or levels of completion. Because definition and methodologies of data collection differ across countries, data need to be used with caution. The reported literacy data are compiled by the UNESCO Institute for Statistics based on national censuses and household surveys during 1995–2005. The data for 1991 are based on model estimations. Therefore the data for 1991 and later years may not be comparable. The estimation methodology can be reviewed at www.uis.unesco.org.

Literacy statistics for most countries cover the population ages 15 and older, by five-year age groups, but some include younger ages or are confined to age ranges that tend to inflate literacy rates. The UNESCO Institute for Statistics has reported the narrower age range of 15–24, which is better in capturing the ability of participants in the formal education system and in reflecting recent progress in education. The youth literacy rate reported in the table measures the accumulated outcomes of primary education over the previous 10 years or so by indicating the proportion of people who have passed through the primary education system and acquired basic literacy and numeracy skills.

Definitions

• Primary completion rate is the percentage of students completing the last year of primary school. It is calculated by taking the total number of students in the last grade of primary school, minus the number of repeaters in that grade, divided by the total number of children of official completing age. • Youth literacy rate is the percentage of people ages 15–24 that can, with understanding, both read and write a short, simple statement about their everyday life. • Adult literacy rate is the literacy rate among people ages 15 and older.



Data sources

Data on the primary completion rate for 1991 and 2005 are primarily from the UNESCO Institute for Statistics. The data for the latest years are provisional, as of January 2007. Data on literacy rates are from the UNESCO Institute for Statistics.

2.13 Education gaps by income and gender

	Survey year		intake grade 1		primary ation rate		e years ooling		Prin complet	-			dren school
		age	elevant group	age	elevant group	-	15-24		% of relevan	it age group		ages	hildren 6–11
		Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Male	Female	Poorest quintile	Richest quintile
Armenia	2000	105	93	177	181	9	11	96	98	96	98	14	13
Bangladesh	2004	193	156	107	120	3	8	26	70	47	58	25	10
Benin	2001	74	112	51	115	1	6	7	45	23	15	66	21
Bolivia	2003	98	95	92	98	6	11	48	90	75	75	24	5
Burkina Faso	2003	24	97	20	98	1	6	8	52	24	20	87	32
Cambodia	2000	146	187	78	134	2	7	4	45	18	17	50	12
Cameroon	2004	115	100	94	122	3	9	12	69	36	37	42	4
Central African Republic	1994–95	103	118	57	130	2	6	0 ^a	18	8	6	65	21
Chad	2004	3	14	15	98	0 ^a	5	1	36	15	8	91	36
Colombia	2005	157	85	126	99	6	11	50	90	70	77	8	1
Comoros	1996	84	119	56	147	2	6	4	29	12	12	72	26
Côte d'Ivoire	1994	26	39	41	103	2	6	6	41	25	17	70	23
Dominican Republic	2002	170	103	149	156	6	11	38	87	57	69	14	4
Egypt, Arab Rep.	2003	87	120	96	103	6	11	58	87	77	71	24	5
Eritrea	1995	55	117	42	154	1	7	3	65	21	24	84	10
Ethiopia	2000	87	257	61	186	1	5	4	44	15	12	87	42
Gabon	2000	••	••	155	140	5	8	12	60	35	40	8	3
Ghana	2003	90	90	71	108	4	9	15	66	38	41	57	20
Guatemala	1995	114	124	62	122	2	9	9	76	41	40	58	8
Guinea	1999	13	39	10	38	1	5	3	27	18	9	95	77
Haiti	2000	141	200	94	152	3	8	1	40	13	18	64	21
India	1999	99	72	87	122	3	10	31	87	64	55	35	2
Indonesia	2002–03	85	92	103	104	7	11	75	97	86	89	19	6
Jordan	2002	••	••	101	99	10	12	93	98	97	97	11	9

About the data

The data in the table describe basic information on school participation and attainment by individuals in different socioeconomic groups within countries. The data are from Demographic and Health Surveys conducted by Macro International with the support of the U.S. Agency for International Development. These large-scale household sample surveys, conducted periodically in developing countries, collect information on a large number of health, nutrition, and population measures as well as on respondents' social, demographic, and economic characteristics using a standard set of questionnaires. The data presented here draw on responses to individual and household questionnaires.

Typically, Demographic and Health Surveys collect basic information on educational attainment and enrollment levels from every household member ages 5 or 6 and older as background characteristics. As the surveys are intended for the collection of demographic and health information, the education section of the survey is not as robust and detailed as the health section; however, it still provides useful micro-level information on education that cannot be explained by aggregate national level data.

The table defines socioeconomic status in terms of a household's assets, including ownership of consumer items, features of the household's dwelling, and other characteristics related to wealth. Each household asset on which information was collected was assigned a weight generated through principalcomponent analysis. The resulting scores were standardized in relation to a standard normal distribution with a mean of zero and a standard deviation of one. The standardized scores were then used to create break-points defining wealth quintiles, expressed as quintiles of individuals in the population.

The choice of the asset index for defining socioeconomic status was based on pragmatic rather than conceptual considerations: Demographic and Health Surveys do not provide income or consumption data but do have detailed information on households' ownership of consumer goods and access to a variety of goods and services. Like income or consumption, the asset index defines disparities in primarily economic terms. It therefore excludes other possibilities of disparities among groups, such as those based on gender, education, ethnic background, or other facets of social exclusion. To that extent the index provides only a partial view of the multidimensional concepts of poverty, inequality, and inequity.

Creating one index that includes all asset indicators limits the types of analysis that can be performed. In particular, the use of a unified index does not permit a disaggregated analysis to examine which asset indicators have a more or less important association with health status or use of health services. In addition, some asset indicators may reflect household wealth better in some countries than in others—or reflect different degrees of wealth in different countries. Taking such information into



Education	gaps	by	income	and	gender	

	Survey year	Gross rate in p			primary ation rate	-	e years ooling		Prin complet	-			dren school
		% of re age g Poorest quintile			elevant group Richest quintile	ages Poorest quintile	15–24 Richest quintile	Poorest quintile	% of relevan Richest quintile	it age group Male	Female		hildren 6–11 Richest quintile
Kazakhstan	1999	••		125	130	10	11	98	100	98	99	24	18
Kenya	2003	128	123	104	118	5	9	14	57	30	36	24	4
Kyrgyz Republic	1997			133	138	10	10	86	88	85	87	21	18
Madagascar	1997	84	87	59	134	2	7	1	47	13	16	60	6
Malawi	2002	180	226	103	126	4	8	10	52	32	14	29	9
Mali	2001	45	89	36	101	1	5	3	37	16	11	75	29
Morocco	2003–04	109	85	98	116	2	9	17	78	47	46	26	2
Mozambique	2003	104	134	79	150	2	5	2	17	8	7	59	13
Namibia	1992			138	116	5	8	15	65	25	34	22	9
Nepal	2001	240	249	116	160	3	7	18	59	37	28	33	6
Nicaragua	2001	127	108	79	104	3	10	14	88	47	59	46	5
Niger	1998	11	69	15	77	1	4	8	46	22	13	90	44
Nigeria	2003	77	106	67	111	4	10	16	70	39	37	56	5
Pakistan	1990–91	68	173	45	127	2	8	11	55	32	22	72	13
Paraguay	1990	137	106	103	114	5	10	29	77	49	54	21	10
Peru	2000	114	94	112	109	6	11	41	93	72	72	9	1
Philippines	2003	131	102	103	102	6	11	46	88	67	79	17	2
Rwanda	2000	216	197	100	126	3	6	7	28	14	14	43	23
Tanzania	1999	95	231	63	119	4	7	27	55	34	34	74	27
Uganda	2000-01	145	127	106	120	4	8	7	43	19	21	28	6
Uzbekistan	1996	••		102	114	10	10	84	87	84	86	29	23
Vietnam	2002	121	105	139	127	5	10	58	97	84	84	8	2
Zambia	2001–02	83	119	74	112	4	9	16	79	38	43	61	18
Zimbabwe	1994	138	114	104	109	7	10	36	80	51	57	22	8

a. Less than 0.5.

account and creating country-specific asset indexes with country-specific choices of asset indicators might produce a more effective and accurate index for each country. The asset index used in the table does not have this flexibility.

The analysis was carried out for 48 countries. The table shows the estimates for the poorest and richest quintiles only; the full set of estimates for 32 indicators is available in the country reports (see *Data sources*). The data in this table will differ from data for similar indicators in preceding tables either because the indicator refers to a period a few years preceding the survey date or because the indicator definition or methodology is different. Findings should be interpreted with caution because of measurement error inherent in the use of survey data.

Definitions

• Survey year is the year in which the underlying data were collected. • Gross intake rate in grade ${\bf 1}$ is the number of students in the first grade of primary education, regardless of age, expressed as a percentage of the population of the official primary school entrance age. These data may differ from those in table 2.11. • Gross primary participation rate is the ratio of total students attending primary school, regardless of age, to the population of the age group that officially corresponds to primary education. • Average years of schooling are the years of formal schooling received, on average, by adults ages 15–24. • Primary completion rate is the percentage of children of the official primary school completing age to the official primary school completing age plus four, who have completed the last year of primary school or higher. These data differ from those in table 2.12 as the definition and methodology are different. • Children out of school are the percentage of children ages 6-11 who are

not in school. These data differ from those in table 2.10 because the definition and methodology are different.

Data sources

Data on education gaps by income and gender are from an analysis of Demographic and Health Surveys by Macro International and the World Bank. Country reports are available at http://devdata. worldbank.org/edstats/td16.asp.

 ② 2.14
 Health expenditure, services, and use

				alth nditure Out of	Future of		Phys	sicians	Health worker density index Physicians, nurses, and	Hospi	tal beds
	Total		blic	pocket % of	External resources ^a	Per capita			midwives per 1,000		
	% of GDP 2004	% of GDP 2004	% of total 2004	private 2004	% of total 2004	\$ 2004	per 1, 1990	000 people 2000-05 ^b	people 2000–03 ^b	per 1,0 1990	000 people 2000-05 ^b
Afghanistan	4.4	0.7	16.9	97.7	6.1	14	0.1	0.2	0.4	0.2	0.4
Albania	6.7	3.0	44.1	99.8	2.4	157	1.4	1.3	5.4	4.0	3.1
Algeria	3.6	2.6	72.5	94.6	0.0	94	0.9	1.1		2.5	
Angola	1.9	1.5	79.4	100.0	9.1	26	0.0 ^c	0.1	••	1.3	••
Argentina	9.6	4.3	45.3	48.7	0.2	383	2.7			4.6	4.1
Armenia	5.4	1.4	26.2	89.2	7.2	63	3.9	3.6	8.8	9.1	4.4
Australia	9.6	6.5	67.5	61.6	0.0	3,123	2.2	2.5	10.8	9.2	7.4
Austria	10.3	7.8	75.6	67.9	0.0	3,683	2.2	3.4	9.3	10.2	8.3
Azerbaijan	3.6	0.9	25.0	93.6	1.6	37	3.9	3.5	12.0	10.1	8.3
Bangladesh	3.1	0.9	28.1	88.3	15.1	14	0.2	0.3	0.5	0.3	
Belarus	6.2	4.6	74.9	72.7	0.1	147	3.6	4.6	17.5	13.2	11.3
Belgium	9.7	6.9	71.1	83.5	0.0	3,363	3.3	3.9	15.6	8.0	6.9
Benin	4.9	2.5	51.2	99.9	10.2	24	0.1	0.0 ^c	••	0.8	••
Bolivia	6.8	4.1	60.7	82.5	9.1	66	0.4	1.2	1.1	1.3	1.0
Bosnia and Herzegovina	8.3	4.1	49.4	100.0	1.3	198	1.6	1.3	5.7	4.5	3.1
Botswana	6.4	4.0	62.9	27.9	2.5	329	0.2	0.4		1.6	••
Brazil	8.8	4.8	54.1	64.2	0.0	290	1.4	2.1	2.6	3.3	2.7
Bulgaria	8.0	4.6	57.6	98.0	1.0	251	3.2	3.6	8.3	9.8	6.3
Burkina Faso	6.1	3.3	54.8	97.9	26.8	24	0.0 ^c	0.1	0.3	0.3	••
Burundi	3.2	0.8	26.2	100.0	17.6	3	0.1	0.0 ^c	0.3	0.7	
Cambodia	6.7	1.7	25.8	85.4	28.5	24	0.1	0.2	1.0	2.1	0.6
Cameroon	5.2 9.8	1.5 6.8	28.0 69.8	94.5 49.4	5.3	51 3,038	0.1 2.1	0.2 2.1		2.6 6.0	 3.7
Canada Central African Republic	9.8	0.8 1.5	36.8	49.4 95.4	0.0 47.7	3,038	2.1 0.0 ^c	0.1	12.2	0.9	
Chad	4.1	1.5	36.9	95.4 95.8	7.0	20	0.0 ^c	0.1 0.0 ^c	 0.2	0.9	••
Chile	6.1	2.9	47.0	45.9	0.1	359	1.1	1.1	1.7	3.2	 2.6
China	4.7	1.8	38.0	86.5	0.1	71	1.5	1.5	2.7	2.6	2.5
Hong Kong, China	•••										
Colombia	7.8	6.7	86.0	49.0	0.1	168	1.1	 1.4	1.9	1.4	1.1
Congo, Dem. Rep.	4.0	1.1	28.1	100.0	19.1	5	0.1	0.1		1.4	
Congo, Rep.	2.5	1.2	49.2	100.0	3.6	28	0.3	0.2	••	3.3	••
Costa Rica	6.6	5.1	77.0	88.7	0.8	290	1.3	1.3	2.4	2.5	1.4
Côte d'Ivoire	3.8	0.9	23.2 ^d	88.7	5.0	33	0.1	0.1	••	0.8	
Croatia	8.0 ^d	6.1 ^d	81.0	93.8	0.4	609	2.1	2.4	7.7	7.4	5.5
Cuba	6.3	5.5	87.8	74.5	0.3	230	3.6	5.9	13.4	5.4	4.9
Czech Republic	7.3	6.5	89.2	95.5	0.0	771	2.7	3.5	13.4	11.3	8.8
Denmark	8.6	7.1	82.3	81.3	0.0	3,897	2.5	2.9	13.6	5.6	4.0
Dominican Republic	6.0	1.9	31.6	73.1	1.5	148	1.5	1.9	3.7	1.9	2.1
Ecuador	5.5	2.2	40.7	85.4	0.8	127	1.5	1.5	3.1	1.6	1.5
Egypt, Arab Rep.	5.9	2.2	37.0	99.0	0.8	64	0.8	0.5	4.9	2.1	2.2
El Salvador	7.9	3.5	44.4	94.2	1.2	184	0.8	1.2	2.0	1.5	
Eritrea	4.5	1.8	39.2	100.0	59.6	10	••	0.1		••	
Estonia	5.3	4.0	76.0	88.8	0.5	463	3.5	3.2	9.8	11.6	6.0
Ethiopia	5.3	2.7	51.5	78.3	35.2	6	0.0 ^c	0.0 ^c	0.2	0.2	
Finland	7.4	5.7	77.2	80.8	0.0	2,664	2.0	2.6	25.6	12.5	7.2
France	10.5	8.2	78.4	34.9	0.0	3,464	3.1	3.4	10.2	9.7	7.7
Gabon Gambia The	4.5 6.8	3.1 1.8	68.8 27.1	100.0 68.2	1.3	231 19	0.5	0.3 0.1	••	3.2 0.6	••
Gambia, The Georgia	6.8 5.3		27.1 27.4		23.0		 4.9		 7.9	0.6 9.8	 4.2
Germany	5.3 10.6	1.5 8.2	76.9	87.2 57.5	9.8 0.0	60 3,521	4.9 2.8	4.1 3.4	7.9 13.2	9.8 10.4	4.2 8.9
Ghana	6.7	2.8	42.2	78.2	29.9	27	2.8 0.0 ^c	3.4 0.2	0.9	10.4	0.3
Greece	7.9	4.2	52.8	95.7		1,879	3.4	4.4	7.5	5.1	 4.7
Guatemala	5.7	2.3	41.0	90.5	 2.3	127	0.8	+.+		1.1	0.5
Guinea	5.3	0.7	13.2	99.5	9.5	22	0.0	 0.1	 0.6	0.6	
Guinea-Bissau	4.8	1.3	27.3	90.0	31.6	9		0.1		1.5	••
Haiti	7.6	2.9	38.5	69.6	14.2	33	0.1			0.8	0.8

Health expenditure, services, and use **2.14**

			cians	Health worker density index Physicians,	Hospi	tal beds					
	Total % of GDP 2004	Pu % of GDP 2004	blic % of total 2004	Out of pocket % of private 2004	External resources ^a % of total 2004	Per capita \$ 2004	per 1,0 1990	00 people 2000–05^b	nurses, and midwives per 1,000 people 2000–03 ^b	per 1,0 1990	000 people 2000-05^b
Honduras	7.2	4.0	54.9	84.3	8.7	77	0.7	0.6		1.0	1.0
Hungary	7.9	5.7	71.6	88.0	0.4	800	2.8	3.2	11.9	••	7.8
India	5.0	0.9	17.3	93.8	0.5	31	0.5	0.6	••	0.8	0.9
Indonesia	2.8	1.0	34.2	74.7	1.3	33	0.1	0.1	0.7	0.7	••
Iran, Islamic Rep.	6.6	3.2	47.8	94.8	0.2	158	0.3	0.4		1.4	1.6
Iraq	5.3 ^e 7.2	4.2 ^e 5.7	78.5 ^e	100.0 ^e	2.5 ^e	58 ^e	0.6	0.7	3.6	1.7 6.1	1.3
Ireland Israel	8.7	5.7 6.1	79.5 70.0	65.9 75.0	0.0 3.2	3,234 1,534	2.0 3.2	2.8 3.8	19.0 10.3	6.2	4.3 6.1
Italy	8.7	6.5	75.1	84.4	0.0	2,580		4.2	10.5	7.2	4.4
Jamaica	5.2	2.8	54.3	63.6	1.4	176	0.6	0.8	2.5	2.2	1.4
Japan	7.8	6.3	81.0	93.4	0.0	2,831	1.7	2.0	10.4		14.3
Jordan	9.8 ^f	4.7 ^f	48.4 ^f	73.8	7.1 ^f	200 ^f	1.3	2.0	4.8	1.8	1.7
Kazakhstan	3.8	2.3	59.8	100.0	0.9	109	4.0	3.5	9.5	13.7	7.7
Kenya	4.1	1.8	42.7	81.9	18.3	20	0.0 ^c	0.1		1.6	
Korea, Dem. Rep.	3.5	3.0	85.6	100.0	53.6	Og	••	3.3	••	••	••
Korea, Rep.	5.6	2.9	51.4	76.0	0.0	787	0.8	1.6	5.4	3.1	7.1
Kuwait	2.8	2.2	77.6	90.4	0.0	633	0.2	1.5	5.4	3	2.2
Kyrgyz Republic Lao PDR	5.6 3.9	2.3 0.8	40.9 20.5	94.3 90.3	15.1 10.2	24 17	3.4 0.2	2.5	10.1	12.0 2.6	5.3 1.2
Latvia	3.9 7.1	4.0	20.5 56.6	90.3	0.3	418	4.1	 3.0	 8.2	2.0 14.1	7.8
Lebanon	11.6	3.2	27.4	82.2	1.7	670	1.3	3.3	4.4	1.7	3.0
Lesotho	6.5	5.5	84.2	18.2	8.7	49	0.0 ^c	0.0 ^c		±.,	
Liberia	5.6	3.6	63.9	98.5	37.8	9		0.0 ^c			
Libya	3.8	2.8	74.9	100.0	0.0	195	1.1			4.2	3.9
Lithuania	6.5	4.9	75.0	96.8	3.1	424	4.0	4.0	12.4	12.5	8.7
Macedonia, FYR	8.0	5.7	71.0	100.0	1.4	212	2.2	2.2	8.1	5.9	4.8
Madagascar	3.0	1.8	59.1	52.5	45.5	7	0.1	0.3	0.4	0.9	0.4
Malawi	12.9	9.6	74.7	35.2	59.4	19	0.0 ^c	0.0 ^c	0.3	1.6	••
Malaysia	3.8	2.2	58.8	74.1	0.1	180	0.4	0.7	2.4	2.1	1.9
Mali	6.6	3.2	49.2	99.5	13.8	24	0.1	0.1	0.2		••
Mauritania	2.9	2.0	69.4	100.0	20.2	15	0.1	0.1	••	0.7	••
Mauritius	4.3 6.5	2.4 3.0	54.7	80.8	1.4	222 424	0.8	1.1 1.5		2.9 1.0	
Mexico Moldova	7.4	4.2	46.4 56.8	94.4 96.0	0.3 4.8	424	1.0 3.6	2.6	3.9 9.2	13.1	1.0 6.7
Mongolia	6.0	4.2	66.6	92.3	4.6	37	2.5	2.6	6.0	11.5	0.7
Morocco	5.1	1.7	34.3	76.0	0.9	82	0.2	0.5	1.5	1.3	 0.8
Mozambique	4.0	2.7	68.4	38.5	55.9	12	0.0 ^c	0.0 ^c	0.3	0.9	
Myanmar	2.2	0.3	12.9	99.4	13.1	5	0.1	0.4	0.8	0.6	0.6
Namibia	6.8	4.7	69.0	18.1	16.9	190	0.2	0.3			••
Nepal	5.6	1.5	26.3	88.1	17.6	14	0.1	0.2	0.3	0.2	
Netherlands	9.2	5.7	62.4	20.6	0.0	3,442	2.5	3.1	16.7	5.8	4.7
New Zealand	8.4	6.5	77.4	76.1	0.0	2,040	1.9	2.2	10.9	8.5	6.1
Nicaragua	8.2	3.9	47.1	95.9	11.3	67	0.7	0.4	1.8	1.8	0.9
Niger	4.2	2.2	52.5	85.1	21.3	9	0.0 ^c	0.0 ^c	0.3		••
Nigeria	4.6	1.4	30.4	90.4	5.6	23	0.2	0.3	1.5	1.7	 ว o
Norway Oman	9.7 3.0	8.1 2.4	83.5 81 4	95.2 57.1	0.0 0.0	5,405 295	2.6 0.6	3.1	24.9 4.2	4.6 2.1	3.8 2.0
Pakistan	2.2	0.4	81.4 19.6	98.0	2.5	295 14	0.6	1.3 0.7	4.2	2.1	0.7
Panama	7.7	5.2	66.9	98.0 82.5	0.2	343	1.6	1.5	3.2	2.5	2.5
Papua New Guinea	3.6	3.0	84.3	46.4	26.5	30	0.1	0.1	0.6	4.0	
Paraguay	7.7	2.6	33.7	72.2	1.9	88	0.6	1.1	1.4	0.9	 1.2
Peru	4.1	1.9	46.9	79.2	1.3	104	1.1	••	••	1.4	1.4
Philippines	3.4	1.4	39.8	77.9	3.6	36	0.1	1.2	7.4	1.4	1.0
Poland	6.2	4.3	68.6	89.6	0.1	411	2.1	2.5	7.7	5.7	5.6
Portugal	9.8	7.0	71.6	79.4	0.0	1,665	2.8	3.3	7.0	4.1	3.6
Puerto Rico		••	••	••	••	••	••	••	••		

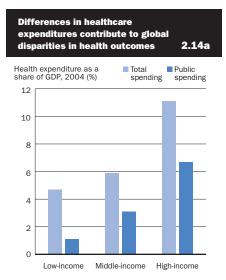
2.14 Health expenditure, services, and use

				alth Iditure			Physic	tians	Health worker density index	Hospit	al beds
	Total % of GDP 2004	Pul % of GDP 2004	blic % of total 2004	Out of pocket % of private 2004	External resources ^a % of total 2004	Per capita \$ 2004	per 1,00	00 people 2000-05^b	Physicians, nurses, and midwives per 1,000 people 2000–03 ^b	per 1,00 1990	00 people 2000-05^b
Demonio											
Romania Russian Federation	5.1 6.0	3.4	66.1 61.3	93.4 76.7	25.0 0.1	178 245	1.8 4.1	1.9 4.3	6.2	8.9	6.6
Rwanda	7.5	4.3	56.8	36.9	37.1	245 16	4.1 0.0 ^c	4.3 0.0 ^c	12.5 0.2	13.1 1.7	10.5
Saudi Arabia	3.3	4.3 2.5	75.4	30.9		348	1.4	1.4	4.4	2.5	 2.2
Senegal	5.9	2.5	40.3	94.5	 12.8	348	0.1	0.1	4.4 	0.7	••••••
Serbia and Montenegro	10.1 ^h	7.3 ^h	72.1 ^h	88.2 ^h	0.5 ^h	219 ^h	2.0	2.1		5.9	 6.0
Sierra Leone	3.3	1.9	59.0	100.0	35.4	7	2.0	0.0 ^c			
Singapore	3.7	1.3	34.0	96.9	0.0	, 943	 1.3	1.4	 5.6	 3.6	 2.9
Slovak Republic	7.2	5.3	73.8	73.1	0.0	565	±.5 	3.1	10.6	7.4	7.2
Slovenia	8.7	6.6	75.6	39.5	0.0	1,438	 2.0	2.3	9.4	6.0	5.0
Somalia						 				0.8	
South Africa	 8.6	 3.5	 40.4	 17.2	 0.5	 390	 0.6	 0.8	 4.6		
Spain	8.1	5.7	70.9	81.0	0.0	1,971		3.2	6.8	 4.6	 3.8
Sri Lanka	4.3	2.0	45.6	84.0	1.2	43	0.1	0.5	1.2	2.7	3.1
Sudan	4.1	1.5	35.4	98.1	5.1	25		0.2	1.0	1.1	0.7
Swaziland	6.3	4.0	63.8	40.2	9.5	146	0.1	0.2	3.4		
Sweden	9.1	7.7	84.9	92.0	0.0	3,532	2.9	3.3	13.5	12.4	3.6
Switzerland	11.5	6.7	58.5	76.7	0.0	5,572	3.0	3.6	12.1	19.9	6.0
Syrian Arab Republic	4.7	2.2	47.4	100.0	0.2	58	0.8	1.4	3.3	1.1	1.5
Tajikistan	4.4	1.0	21.6	97.3	9.1	14	2.6	2.0	7.2	10.7	6.1
Tanzania	4.0	1.7	43.6	83.2	27.1	12		0.0 ^c	0.4	1.0	
Thailand	3.5	2.3	64.7	74.7	0.3	88	0.2	0.4		1.6	
Togo	5.5	1.1	20.7	84.9	8.9	18	0.1	0.0 ^c	0.3	1.5	
Trinidad and Tobago	3.5	1.4	38.9	88.5	0.2	329	0.7			4.0	3.4
Tunisia	5.6	2.8	50.0		••	126	0.5	1.3		1.9	1.7
Turkey	7.7	5.2 ^e	72.3	69.1	0.0	325	0.9	1.3	4.2	2.4	2.6
Turkmenistan	4.8	3.3	68.9	100.0	0.4	124	3.6	4.2		11.5	
Uganda	7.6	2.5	32.7	51.3	25.2	19	0.0 ^c	0.1	0.1	0.9	
Ukraine	6.5	3.7	56.7	90.5	0.7	90	4.3	3.0	11.2	13.0	8.8
United Arab Emirates	2.9	2.0	69.9	71.0	0.0	711	0.8	2.0	6.2	2.6	2.2
United Kingdom	8.1	7.0	86.3	91.8	0.0	2,900	1.6	2.2		5.9	4.2
United States	15.4	6.9	44.7	23.8	0.0	6,096	1.8	2.3	13.2	4.9	3.3
Uruguay	8.2	3.6	43.5	31.1	0.3	315	3.7	3.7	4.5	4.5	1.9
Uzbekistan	5.1	2.4	46.6	96.2	3.9	23	3.4	2.7	13.7	12.5	5.5
Venezuela, RB	4.7	2.0	42.0	88.3	0.0	196	1.6	1.9	2.6	2.7	0.8
Vietnam	5.5	1.5	27.1	88.0	2.0	30	0.4	0.5	1.3	3.8	2.4
West Bank and Gaza	13.0	7.8	60.0	100.0	42.0			0.8			
Yemen, Rep.	5.0	1.9	38.3	95.5	15.0	34	0.0 ^c	0.3	0.7	0.8	0.6
Zambia	6.3	3.4	54.7	71.4	36.3	30	0.1	0.1			
Zimbabwe	7.5	3.5	46.1	48.7	13.1	27	0.1	0.2	0.6	0.5	••
World	10.1 w	5.9 w	59.1 w	44.4 w	0.1 w	649 w	1.4 w	w	w	3.7 w	w
Low income	4.7	1.1	23.8	94.0	5.4	24	0.5	0.5			
Middle income	5.9	3.1	52.6	77.0	0.6	141	1.6	1.5		3.6	••
Lower middle income	5.4	2.6	47.7	81.0	0.5	92	1.4	1.3		2.8	
Upper middle income	6.6	3.8	57.8	71.7	0.7	342	2.3	2.7	7.5	6.7	5.7
Low & middle income	5.8	2.8	49.3	80.8	1.2	90	1.3			3.1	
East Asia & Pacific	4.4	1.7	39.8	87.6	0.5	62	1.2	1.5	3.0	2.3	2.5
Europe & Central Asia	6.6	4.5	67.8	82.1	1.1	250	3.2	3.1	10.3	10.2	7.6
Latin America & Carib.	7.3	3.7	51.9	74.1	0.4	272	1.4			2.5	
Middle East & N. Africa	5.6	2.7	48.9	89.7	1.3	103	••	••	••	1.8	••
South Asia	4.6	0.9	18.8	93.6	1.5	27	0.5	0.6	••	0.7	0.9
Sub-Saharan Africa	6.3	2.6	41.8	44.8	6.8	45				1.2	••
High income	11.2	6.7	60.4	37.8	0.0	3,727	1.9	2.6	••	6.2	6.4
Europe EMU	9.6	7.2	74.7	59.9	0.0	2,969	2.9	3.5	12.2	8.1	6.6

a. 0 for category not applicable or less than 0.05. b. Data are for the most recent year available. c. Less than 0.05. d. Data are for 2005. e. Excludes northern Iraq. f. Includes contributions from the United Nations Relief and Works Agency for Palestine Refugees in the Near East to Palestinian refugees. g. Less than 0.5. h. Excludes Kosovo and Metahia.

National health accounts track financial flows in the health sector, including public and private expenditures, by source of funding. In contrast with highincome countries, few developing countries have health accounts that are methodologically consistent with national accounting approaches. The difficulties in creating national health accounts go beyond data collection. To establish a national health accounting system, a country needs to define the boundaries of the health care system and to define a taxonomy of health care delivery institutions. The accounting system should be comprehensive and standardized, providing not only accurate measures of financial flows but also information on the equity and efficiency of health financing to inform health policy.

The absence of consistent national health accounting systems in most developing countries makes cross-country comparisons of health spending difficult. Compiling estimates of public health expenditures is complicated in countries where state or provincial and local governments are involved in financing and delivering health care, because the data on public spending often are not aggregated. There are a number of potential data sources related to external resources for health, including government expenditure accounts, government records on external assistance, routine surveys of external financing assistance, and special surveys. Survey data are the major source of information about out of pocket expenditure on health. The data in the table are the product of an effort by the World Health



Source: World Health Organization, Organisation for Economic Co-operation and Development, and World Bank. Organization (WHO), the Organisation for Economic Co-operation and Development (OECD), and the World Bank to collect all available information on health expenditures from national and local government budgets, national accounts, household surveys, insurance publications, international donors, and existing tabulations.

Indicators on health services (physicians, health worker density, and hospital beds per 1,000 people) come from a variety of sources (see Data sources). Data are lacking for many countries, and for others comparability is limited by differences in definitions. In estimates of health personnel, for example, some countries incorrectly include retired physicians (because deletions to physician rosters are made only periodically) or physicians working outside the health sector. There is no universally accepted definition of hospital beds. Moreover, figures on physicians and hospital beds are indicators of availability, not of quality or use. They do not show how well trained the physicians are or how well equipped the hospitals or medical centers are. And physicians and hospital beds tend to be concentrated in urban areas. so these indicators give only a partial view of health services available to the entire population.

The WHO receives data on health professionals from ministries of health through its six regional offices, often in cooperation with national statistical offices. The data are scrutinized using such additional resources as national and international employment surveys, records from professional associations, and other publications. Significant inconsistencies are returned to national authorities for validation and resubmission.

The health worker density index indicates the overall level of health workers (physicians, nurses, and midwives) in the country. Dentists and pharmacists are not included. Comparability of the index across countries is affected by differences in the definition of health workers. Many countries continue to use national definitions and classifications for data collection, and some countries provide information only for public sector workers.

Definitions

· Total health expenditure is the sum of public and private health expenditure. It covers the provision of health services (preventive and curative), family planning activities, nutrition activities, and emergency aid designated for health but does not include provision of water and sanitation. . Public health expenditure consists of recurrent and capital spending from government (central and local) budgets, external borrowings and grants (including donations from international agencies and nongovernmental organizations), and social (or compulsory) health insurance funds. • Out of pocket health expenditure is any direct outlay by households, including gratuities and in-kind payments, to health practitioners and suppliers of pharmaceuticals, therapeutic appliances, and other goods and services whose primary intent is to contribute to the restoration or enhancement of the health status of individuals or population groups. It is a part of private health expenditure. • External resources for health are funds or services in kind that are provided by entities not part of the country in question. The resources may come from international organizations, other countries through bilateral arrangements, or foreign nongovernmental organizations. These resources are part of total health expenditure. • Health expenditure per capita is total health expenditure divided by number of people in the country. • Physicians are graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, or research). · Health worker density index reflects a combined density of physicians, nurses, and midwives per 1,000 people. • Hospital beds include inpatient beds available in public, private, general, and specialized hospitals and rehabilitation centers. In most cases beds for both acute and chronic care are included.

Data sources

Data on health expenditure come mostly from the WHO's National Health Account database (www. who.int/nha/en) and from the OECD for its member countries, supplemented by World Bank poverty assessments and country and sector studies. Data are also drawn from World Bank public expenditure reviews, the International Monetary Fund's Government Finance Statistics database, and other studies. Data on physicians are from the WHO's World Health Report 2006 and Global Atlas of the Health Workforce database, OECD, and TransMONEE, supplemented by country data. Data for the health worker density index are from the Joint Learning Initiative's Human Resources for Health, Data on hospital beds are from the WHO's World Health Statistics 2006, OECD's Health Data 2006, and TransMONEE, supplemented by country data.

2.15 Disease prevention coverage and quality

	an im	ess to proved source	impr sanit	ess to roved cation lities	immur ra	nild nization nte	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of Ilation 2004		of lation 2004	childre	en ages months ^b	% of children under age 5 with ARI 2000–05°	% of children under age 5 with diarrhea 1998–2005°	% of children under age 5 2000–05°	% of children under age 5 with fever 2000–05°	% of registered cases 2004	% of estimated cases 2005
Afghanistan	4	39	3	34	64	76	28	48			89	44
Albania	96	96		91	97	98	83	51			78	25
Algeria	94	85	88	92	83	88	52				91	106
Angola	36	53	29	31	45	47	58	32	2	63	68	85
Argentina	94	96	81	91	99	92		••			58	67
Armenia		92		83	94	90	28	48			70	60
Australia	100	100	100	100	94	92					85	42
Austria	100	100	100	100	75	86					69	56
Azerbaijan	68	77		54	98	93	36	40	1	1	60	55
Bangladesh	72	74	20	39	81	88	20	53			90	59
Belarus	100	100		84	99	99		••			74	46
Belgium	100	100	100	100	88	97					72	64
Benin	63	67	12	33	85	93	35	42	7	60	83	83
Bolivia	72	85	33	46	64	81	52	54			80	72
Bosnia and Herzegovina	97	97		95	90	93	80	23			98	71
Botswana	93	95	38	42	90	97	14	7		••	65	69 53
Brazil	83 99	90 99	71 99	75 99	99 96	96 96	••	••	••	••	81 80	53 90
Bulgaria Burkina Faso	38	99 61	99 7	99 13	90 84	96	 36	 47		 50	67	90 18
Burundi		79	44	36	84 75	90 74	40	47 16	2	31	78	30
Cambodia		41		17	79	82	37	59			91	66
Cameroon	 50	66	 48	51	68	80	40	43	 1	 53	71	106
Canada	100	100	100	100	94	94			÷ 		62	64
Central African Republic	52	75	23	27	35	40	32	47	2	69	91	40
Chad	19	42	7	9	23	20	12	27	1	44	69	22
Chile	90	95	84	91	90	91	•••				83	112
China	70	77	23	44	86	87					94	80
Hong Kong, China					81	85		••			80	53
Colombia	92	93	82	86	89	87	57	39	1		85	26
Congo, Dem. Rep.	43	46	16	30	70	73	36	17	1	45	85	72
Congo, Rep.		58		27	56	65	38	••		••	63	57
Costa Rica		97		92	89	91		••		••	94	118
Côte d'Ivoire	69	84	21	37	51	56	38	34	4	58	71	38
Croatia	100	100	100	100	96	96						••
Cuba	••	91	98	98	98	99		••			93	98
Czech Republic	100	100	99	98	97	97					73	65
Denmark	100	100	100	100	95	93			••	••	88	71
Dominican Republic	84	95	52	78	99	77	63	42			80	76
Ecuador	73	94	63	89	93	94					85	28
Egypt, Arab Rep.	94	98	54	70	98	98	73	29	••		70	63
El Salvador	67	84	51	62	99	89	62				90	67
Eritrea	43	60	7	9	84	83	44	54	4	4	85	13
Estonia Ethiopia	100 23	100 22	97 3	97 13	96 59	96 69	 19	 38	 2		71 79	64 33
Finland	23 100	100	3 100	13	59 97	69 97						
France	100	100		••••••	87	98	••	••	••	••	••	••
Gabon		88	••	 36	55	38	 48	 44	••	••	 40	 57
Gambia, The		82	·· ··	53	84	88	75	38	 15	 55	86	69
Georgia	 80	82	 97	94	92	84	99				68	91
Germany	100	100	100	100	93	90					68	52
Ghana	55	75	15	18	83	84	 44	40	4	63	72	37
Greece		••			88	88	••			••	••	••
Guatemala	79	95	58	86	77	81	64	22			85	55
Guinea	44	50	14	18	59	69	33	44	4	56	72	56
Guinea-Bissau		59	••	35	80	80	64	23	7	58	75	79
Haiti	47	54	24	30	54	43	26	41	••	12	80	57

Disease prevention coverage and quality

	an im	ess to proved source	impi sanit	ess to roved tation lities	immur ra	nild nization nte	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of llation 2004		of lation 2004	childre	en ages months ^b	% of children under age 5 with ARI 2000–05°	% of children under age 5 with diarrhea 1998–2005°	% of children under age 5 2000–05°	% of children under age 5 with fever 2000–05°	% of registered cases 2004	% of estimated cases 2005
lle e dune e												
Honduras Hungary	84 99	87 99	50	69 95	92 99	91 99	••	••	••	••	85 54	82 43
India	70	86	 14	33	58	59	••	 22	••	 12	86	43 61
Indonesia	72	77	46	55	72	70	 61	56	 26	1	90	66
Iran, Islamic Rep.	92	94	83		94	95	93			••	84	64
Iraq	83	81	81	79	90	81	76	54	Od	1	85	43
Ireland	••		••	••	84	90		••	••			
Israel	100	100			95	95		••	••		80	42
Italy					87	96					95	72
Jamaica	92	93	75	80	84	88	39	21	••		46	61
Japan	100	100	100	100	99	99	••		••	••	57	57
Jordan	97	97	93	93	95	95	78	44	••	••	85	63
Kazakhstan	87	86	72	72	99	98		22		····	72	72
Kenya	45	61	40	43	69	76	49	33	5	27	80	43
Korea, Dem. Rep.	100	100		59	96	79	93		••		89	99
Korea, Rep.	••	92		••	99	96			••		80	18
Kuwait	 78	 77		 59	99	99 98	••	••	••	••	63 85	66 67
Kyrgyz Republic Lao PDR		51	60	30	99 41	98 49	 36	 37	 18	 9	85	68
Latvia	 99	99	••	78	95	49 99	••••••	•••••••		••••••	73	83
Lebanon	100	100	••	98	95 96	99	 74	••			90	74
Lesotho		79	 37	37	85	83	54	 53	••	••	69	85
Liberia	 55	61	39	27	94	87	70		••	·· ··	70	50
Libya	71		97	97	97	98					64	178
Lithuania	••		•••		97	94	•••			••	72	100
Macedonia, FYR					96	97					84	66
Madagascar	40	46	14	32	59	61	48	47		34	71	67
Malawi	40	73	47	61	82	93	27	51	15	28	71	39
Malaysia	98	99		94	90	90		••	••	••	56	73
Mali	34	50	36	46	86	85	36	45	8	38	71	21
Mauritania	38	53	31	34	61	71	41	28	2	33	22	28
Mauritius	100	100		94	98	97			••		89	32
Mexico	82	97	58	79	96	98					82	110
Moldova	••	92		68	97	98	54	52		••	62	65
Mongolia	63	62		59	99	99	78	66			88	82
Morocco	75	81	56	73	97	98	38	46	••		87	101
Mozambique	36	43	20	32	77	72	54	47	••	15	77	49
Myanmar Namibia	57	78	24	77	72 72	73	66 53	48 39	 3	 14	84 68	95 90
Namibia Nepal	57 70	87 90	24 11	25 35	73 74	86 75	26	39 43		•••••••	68 87	90 67
Netherlands	100	90 100	100	35 100	74 96	98	••••••		••	••	87	47
New Zealand	97				96 82	98 89	 				66	47 51
Nicaragua	70	 79	 45	 47	96	86	 57	 49	••		87	88
Niger	39	46	7	13	83	89	27	43	 6	48	61	50
Nigeria	49	48	39	44	35	25	33	28	1	34	73	22
Norway	100	100	100	100	90	91			÷ 		89	44
Oman	80		83		98	99					90	108
Pakistan	83	91	37	59	78	72					82	37
Panama	90	90	71	73	99	85	••		••	••	78	131
Papua New Guinea	39	39	44	44	60	61	••	••	••	••	65	21
Paraguay	62	86	58	80	90	75					83	33
Peru	74	83	52	63	80	84	68	57	••		90	86
Philippines	87	85	57	72	80	79	55	76			87	75
Poland	••				98	99					79	62
Portugal	••	••	••		93	93	••			••	84	85
Puerto Rico					••						71	74

2.15 Disease prevention coverage and quality

	an im	ess to proved source	impi sanit	ess to roved tation lities	Ch immun ra	ization te	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of Ilation 2004		of lation 2004	% childre 12–23 r Measles 2005	n ages	% of children under age 5 with ARI 2000–05°	% of children under age 5 with diarrhea 1998–2005°	% of children under age 5 2000–05°	% of children under age 5 with fever 2000–05°	% of registered cases 2004	% of estimated cases 2005
Romania		57	••		97	97			31		82	82
Russian Federation	94	97	87	87	99	98					59	30
Rwanda	59	74	37	42	89	95	27	16	13	12	77	29
Saudi Arabia	90				96	96				••	82	38
Senegal	65	76	33	57	74	84	27	33	14	29	74	51
Serbia and Montenegro	93	93	87	87	96	98	97	••			89	31
Sierra Leone	••	57	••	39	67	64	50	39	2	61	82	37
Singapore	100	100	100	100	96	96	••	••	••	••	81	100
Slovak Republic	100	100	99	99	98	99	••	••	••		88	39
Slovenia		••	••		94	96	••			••	90	84
Somalia		29	••	26	35	35	••		9 ^e	••	91	86
South Africa	83	88	69	65	82	94		37	••	••	70	103
Spain	100	100	100	100	97	96						
Sri Lanka	68	79	69	91	99	99	••		••	••	85	86
Sudan	64	70	33	34	60	59	57	38	Od	50	77	35
Swaziland		62		48	60	71	60	24	Od	26	50	42
Sweden	100	100	100	100	94	99				<u></u>	64	56
Switzerland	100	100	100	100	82	93						
Syrian Arab Republic	80	93	73	90	98	99	66				86	42
Tajikistan	••	59		51	84	81	51	29	2	69	84	22
Tanzania	46	62	47	47	91	90	57	53	16	58	81	45
Thailand	95	99	80	99	96	98					74	73
Togo	50	52	37	35	70	82	30	25	54	60	67	18
Trinidad and Tobago	92	91	100	100	93	95	74	31	••			
Tunisia	81	93	75	85	96	98	43				90	82
Turkey	85	96	85	88	91	90	41	19			91	3
Turkmenistan	••	72		62	99	99	51				86	43
Uganda	44	60	42	43	86	84	67	28	Od		70	45
Ukraine	96	96	96	96	96	96						
United Arab Emirates	100	100	97	98	92	94					70	19
United Kingdom	100	100			82	91						
United States	100	100	100	100	93	96		••	••	·	61	85
Uruguay	100	100	100	100	95	96					86	83
Uzbekistan	94	82	51	67	99	99	57	33	••	••	78	39
Venezuela, RB		83		68	76	87	72	51	••		81	73
Vietnam	65	85	36	61	95	95	71	39	16	7	93	84
West Bank and Gaza		92		73	99	99	65	••	••	••	50	2
Yemen, Rep.	71	67	32	43	76	86	47				82	41
Zambia	50	58	44	55	84	80	69	48	7	52	83	52
Zimbabwe	78	81	50	53	85	90		80			54	41
World	77 w					78 w					84 w	60 w
Low income	64	75	21	38	65	66					83	52
Middle income	78	84	48	62	87	88					85	74
Lower middle income	76	82	42	57	86	86					88	74
Upper middle income	90 72	94	79	84 52	93 75	94					70	73
Low & middle income	73	80	37	52	75	76					84	61
East Asia & Pacific	72	79	30	51	83	84					90	76
Europe & Central Asia	93	92	86	85	96	95					73	42
Latin America & Carib.	83	91	67	77	92	91					82	64
Middle East & N. Africa	88	89	70	76	92	93	•••••••				84	71
South Asia	71	84	17	37	64	65					86	58
Sub-Saharan Africa	49	56	31	37	64	65					74	49
High income	100	100	100	100	93	95					66	40
Europe EMU	100	100			90	95						35

a. For malaria prevention only. b. Refers to children who were immunized before age 12 months or, in some cases, ages 12–23 months. c. Data are for the most recent year available. d. Less than 0.5. e. Data are for 2006.

People's health is influenced by the environment in which they live. Lack of clean water and basic sanitation is the main reason diseases transmitted by feces are so common in developing countries. The data on access to an improved water source measure the percentage of the population using improved drinking water sources or delivery points. Access to drinking water from an improved source and access to improved sanitation do not ensure safety or adequacy, as these characteristics are not tested at the time of the surveys. But improved drinking water technologies and improved sanitation facilities are more likely than those characterized as unimproved to provide safe drinking water and to prevent contact with human excreta. The data are derived by the Joint Monitoring Programme (JMP) of the WHO and United Nations Children's Fund (UNICEF) based on national censuses and nationally representative household surveys. The coverage rates for water and sanitation are based on information from service users on the facilities their households actually use rather than on information from service providers, who may include nonfunctioning systems. While the estimates are based on use. the JMP reports use as access, because access is the term used in the Millennium Development Goal target for drinking water and sanitation.

Governments in developing countries usually finance immunization against measles and diphtheria, pertussis (whooping cough), and tetanus (DPT) as part of the basic public health package. In many developing countries, lack of precise information on the size of the cohort of one-year-old children makes immunization coverage difficult to estimate from program statistics. The data shown here are based on an assessment of national immunization coverage rates by the WHO and UNICEF. The assessment considered both administrative data from service providers and household survey data on children's immunization histories. Based on the data available. consideration of potential biases, and contributions of local experts, the most likely true level of immunization coverage was determined for each year.

Acute respiratory infection continues to be a leading cause of death among young children, killing about 2 million children under age five in developing countries in 2000. An estimated 60 percent of these deaths can be prevented by the selective use of antibiotics by appropriate health care providers. Data are drawn mostly from household health surveys in which mothers report on number of episodes and treatment for acute respiratory infection.

Since 1990 diarrhea-related deaths among children have declined tremendously. Most diarrhea-related deaths are due to dehydration, and many of these deaths can be prevented with the use of oral rehydration salts at home. However, recommendations for the use of oral rehydration therapy have changed over time based on scientific progress, so it is difficult to accurately compare use rates among countries. Until the current recommended method for home management of diarrhea is adopted and applied in all countries, the data should be used with caution. Also, the prevalence of diarrhea may vary by season. Since country surveys are administered at different times, data comparability is further affected.

Malaria is endemic to the poorest countries in the world, mainly in tropical and subtropical regions of Africa, Asia, and the Americas. An estimated 300–500 million clinical malaria cases and more than 1 million malaria deaths occur each year—the vast majority in Sub-Saharan Africa and among children under age five. Insecticide-treated bednets, if properly used and maintained, are one of the most important malaria-preventive strategies to limit human-mosquito contact. Studies have emphasized that mortality rates could be reduced by about 25–30 percent if every child under age five in malaria-risk areas such as Africa slept under a treated bednet every night.

Prompt and effective treatment of malaria is a critical element of malaria control. It is vital that sufferers, especially children under age five, start treatment within 24 hours of the onset of symptoms, to prevent progression—often rapid—to severe malaria and death.

Data on the success rate of tuberculosis treatment are provided for countries that have implemented DOTS, the internationally recommended tuberculosis control strategy. Countries that have not adopted DOTS or have only recently done so are omitted because of lack of data or poor comparability or reliability of reported results. The treatment success rate for tuberculosis provides a useful indicator of the quality of health services. A low rate or no success suggests that infectious patients may not be receiving adequate treatment. An essential complement to the tuberculosis treatment success rate is the DOTS detection rate, which indicates whether there is adequate coverage by the recommended case detection and treatment strategy. A country with a high treatment success rate may still face big challenges if its DOTS detection rate remains low.

Definitions

• Access to an improved water source refers to the percentage of the population with reasonable access to an adequate amount of water from an improved source, such as piped water into a dwelling, plot, or yard; public tap or standpipe; tubewell or borehole; protected dug well or spring; and rainwater collection. Unimproved sources include unprotected dug well or spring, cart with small tank or drum, bottled water, and tanker trucks. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within 1 kilometer of the dwelling. • Access

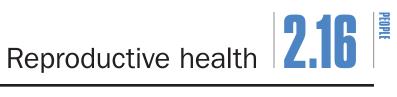
to improved sanitation facilities refers to the percentage of the population with at least adequate access to excreta disposal facilities that can effectively prevent human, animal, and insect contact with excreta. Improved facilities range from simple but protected pit latrines to flush toilets with a sewerage connection. To be effective, facilities must be correctly constructed and properly maintained. • Child immunization rate is the percentage of children ages 12–23 months who received vaccinations before 12 months or at any time before the survey for four diseases-measles and diphtheria, pertussis (whooping cough), and tetanus (DPT). A child is considered adequately immunized against measles after receiving one dose of vaccine and against DPT after receiving three doses. · Children with acute respiratory infection taken to a health provider refer to the percentage of children under age five with acute respiratory infection in the two weeks prior to the survey who were taken to an appropriate health provider, including hospital, health center, dispensary, village health worker, clinic, and private physician . Children with diarrhea who received oral rehydration and continued feeding refer to the percentage of children under age five with diarrhea in the two weeks prior to the survey who received either oral rehydration therapy or increased fluids, with continued feeding. • Children sleeping under treated bednets refer to the percentage of children under age five who slept under an insecticide-treated bednet to prevent malaria. • Children with fever receiving antimalarial drugs refer to the percentage of children under age five who were ill with fever in the last two weeks and received any appropriate (locally defined) antimalarial drugs. • Tuberculosis treatment success rate is the percentage of new, registered smear-positive (infectious) cases that were cured or in which a full course of treatment was completed. . DOTS detection rate is the percentage of estimated new infectious tuberculosis cases detected under the directly observed treatment, short course case detection and treatment strategy.

Data sources

Data on water and sanitation are from the WHO and UNICEF's Meeting the MDG Drinking Water and Sanitation Target (www.who.int/water_sanitation_ health/monitoring/jmp2006). Data on immunization are from WHO and UNICEF estimates of national immunization coverage (www.who.int/ immunization_monitoring/en). Data on children with acute respiratory infection, children with diarrhea, children sleeping under treated bednets, and children receiving antimalarial drugs are from UNI-CEF's State of the World's Children 2007, Childinfo, and Demographic and Health Surveys by Macro International. Data on tuberculosis are from the WHO's Global Tuberculosis Control Report 2007.

Image: Second state Reproductive health

	Total fertility rate		-		-		-				Pregnant women receiving prenatal care	Births attended by skilled health staff		Maternal mortality ratio	
	births pe 1990	er woman 2005	births per 1,000 women ages 15–19 2005	% of married women ages 15–49 2000–05^a	% of married women ages 15–49 2000–05^a	% of pregnant women 2005	% 2000–05ª	% of 1990–92 ª	total 2000–05ª	per 100,000 National estimates 1990–2005 ª	D live births Modeled estimates 2000				
Afghanistan			••	••	10	55	16		14	1,600	1,900				
Albania	2.9	1.8	16	••	75		91	••	98	16	55				
Algeria	4.6	2.4	8		57		81	77	96	120	140				
Angola	7.1	6.6	140		6	75	66		45	••	1,700				
Argentina	3.0	2.3	58		···		98	96	95	39	82				
Armenia	2.5	1.4	30	12	61		93	••	98	16	55				
Australia	1.9	1.8	14				••	100	99	••	8				
Austria	1.5	1.4	12				••				4				
Azerbaijan	2.7	2.3	31		55		70	••	88	19	94				
Bangladesh	4.3	3.0	118	11	58	89	49	••	13	320	380				
Belarus	1.9	1.2	26				••		100	17	35				
Belgium	1.6	1.7	107		10		 01	••			10				
Benin Bolivia	6.7 4.9	5.6 3.7	127 81	27	19 58	69	81 79	••	75 67	500 30	850 420				
Bosnia and Herzegovina	4.9	3.7 1.2	22	23	48	••	99	 97	100	30	420 31				
Botswana	4.4	3.0	74		48	••	99		94	330	100				
Brazil	2.8	2.3	89		••••••	••	97	 72	94 97	72	260				
Bulgaria	1.8	1.3	43						99	6	32				
Burkina Faso	6.9	5.9	156			 75	 73		38	480	1,000				
Burundi	6.8	6.8	50		16	45	78		25		1,000				
Cambodia	5.5	3.9	46	30	24	53	38		44	 440	450				
Cameroon	5.9	5.0	110	20	26	65	83	 58	62	670	730				
Canada	1.8	1.5	13						98		6				
Central African Republic	5.6	4.7	122		28	56	62		44	1,100	1,100				
Chad	6.7	6.3	191	21	3	39	39	••	14	1,100	1,100				
Chile	2.6	2.0	60		····	••			100	17	31				
China	2.1	1.8	5		87		90		97	51	56				
Hong Kong, China	1.3	1.0	5		••			••	100	•••					
Colombia	3.1	2.4	75	6	78	86	94	82	96	84	130				
Congo, Dem. Rep.	6.7	6.7	225		31	66	68		61	1,300	990				
Congo, Rep.	6.3	5.6	144		44	65	88	••	86	••	510				
Costa Rica	3.2	2.0	74				92	98	99	36	43				
Côte d'Ivoire	6.5	4.7	117			73	88	••	68	600	690				
Croatia	1.6	1.4	14				••	100	100	8	8				
Cuba	1.7	1.5	50		73		100		100	37	33				
Czech Republic	1.9	1.3	11						100	4	9				
Denmark	1.7	1.8	7				••			10	5				
Dominican Republic	3.3	2.7	91	11	70		99	93	99	180	150				
Ecuador	3.6	2.7	83		73		84		75	80	130				
Egypt, Arab Rep.	4.3	3.1	41	11	59	80	70	41	74	84	84				
El Salvador	3.7	2.8	83		67		86	••	92	170	150				
Eritrea	6.2	5.2	92	27	8	62	70	••	28	1,000	630				
Estonia Ethiopia	2.0	1.5 5.3	23 87		 15		 วง	••	100 6	8 672	63 850				
Finland	6.9 1.8	5.3 1.8	10	35		45	28		6 100	673 6	850 6				
France	1.8	1.0	7	••		••	••	••	•••••••	10	17				
Gabon	5.3	3.7	102	 28	 33	 60	 94	••	 86	520	420				
Gambia, The	5.8	4.4	116		18		91	 44	55	730	540				
Georgia	2.1	1.4	32		47	•••	95		92	52	32				
Germany	1.5	1.4	10			 				8	8				
Ghana	5.7	4.1	61		25	 84	 92		 47		540				
Greece	1.4	1.3	9	••		••	••		••	1	9				
Guatemala	5.6	4.3	110		43	••	84	••	41	_ 150	240				
Guinea	6.5	5.6	186		7	76	82	31	56	530	740				
Guinea-Bissau	7.1	7.1	192	••	8	54	62	••	35	910	1,100				
Haiti	5.2	3.8	61	40	28	52	79	••	24	520	680				



	Total fertility rate		•				Tetanus vaccinations	Pregnant women receiving prenatal care	by skilled health staff		Maternal mortality ratio	
	births pe 1990	er woman 2005	births per 1,000 women ages 15–19 2005	% of married women ages 15–49 2000–05^a	% of married women ages 15–49 2000–05ª	% of pregnant women 2005	% 2000–05ª	% of 1990–92 ª	total 2000–05ª	per 100,000 National estimates 1990–2005 ª) live births Modeled estimates 2000	
Honduras	5.1	3.5	97		62		83	45	56	110	110	
Hungary	1.8	1.3	21		···		••	••	100	7	16	
India	3.8	2.8	70		47	80			43	540	540	
Indonesia	3.1	2.3	53	9	57	70	92	32	72	310	230	
Iran, Islamic Rep.	4.8	2.1	19		74			••	90	37	76	
Iraq	5.9				44	70	77	••	72	290	250	
Ireland	2.1	1.9	13	••			••	••	100	6	5	
Israel	2.8	2.8	14				••	••	••	5	17	
Italy	1.3	1.3	7					••		7	5	
Jamaica	2.9	2.4	78		69		98		97	110	87	
Japan Jordan	1.5 5.4	1.3	4	 11	56 56		 99	100 87		8 41	10 41	
	2.7	3.3 1.7	26	•••••••••••••••••••••••••••••••••••••••		••	••••••	•••••••••••••••••••••••••••••••••••••••	100			
Kazakhstan Kenya	2.7 5.8	5.0	29 95	 25		 72	 88	••	 42	42 410	210 1,000	
Korea, Dem. Rep.	5.8 2.4	2.0	95	25				••	42 97	410 110	1,000 67	
Korea, Rep.	1.6	1.1	4		···		••	 98	100	20	20	
Kuwait	3.5	2.4	23	••					100	5	5	
Kyrgyz Republic	3.7	2.4	32	 		••		••	99	49	110	
Lao PDR	6.0	4.5	88		32	30	27		19	410	650	
Latvia	2.0	1.3	17		••	••	••	••	100	14	42	
Lebanon	3.1	2.3	26		63		96		93		150	
Lesotho	4.8	3.4	36		30		90		55	760	550	
Liberia	6.9	6.8	222		10	72	85	••	51		760	
Libya	4.7	2.8	7		••	••				77	97	
Lithuania	2.0	1.3	21			••	••	••	100	3	13	
Macedonia, FYR	2.1	1.6	23				81	••	99	21	23	
Madagascar	6.2	5.0	121	24	27	45	80	57	51	470	550	
Malawi	7.0	5.8	155	30	31	70	92	55	56	980	1,800	
Malaysia	3.8	2.7	18				74		97	30	41	
Mali	7.4	6.7	197	29	8	75	57	••	41	580	1,200	
Mauritania	6.1	5.6	97	32	8	34	64	40	57	750	1,000	
Mauritius	2.3	2.0	32		76			96	99	22	24	
Mexico	3.3	2.1	66		73			••	83	63	83	
Moldova	2.4	1.3	30		68		98	••	100	22	36	
Mongolia	4.0	2.3	53		69		94		97	93	110	
Morocco	4.0	2.4	42	10	63		68	31	63	230	220	
Mozambique	6.2	5.3	101	18	26	70	85	••	48	410	1,000	
Myanmar	4.0	2.2	18		34	85	76		57	230	360	
Namibia	5.9	3.7	51	22	44	67	91	68	76	270	300	
Nepal	5.1	3.5	110	28	38	42	28	7	15	540	740	
Netherlands New Zealand	1.6 2.2	1.7 2.0	5 23			••	••	••	••	7	16	
	2.2 4.8	••••••	23 118		 69	••	 96	••	 67	15 83	7 230	
Nicaragua Niger	4.8 8.2	3.1 7.7	255	15	69 14	 54	86 41	 15	67 16	83 590	1,600	
Nigeria	8.2 6.7	5.5	255 137	 17	14	54 51	41 58	15 31	35	590	1,800 800	
Norway	1.9	1.8	9	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	••••••		••••••	 6	16	
Oman	6.5	3.4	45	••	 32	••	 100	••	 95	23	87	
Pakistan	5.8	4.1	45 69	••	28	 57	36	 19	35 31	530	500	
Panama	3.0	2.6	85	 					93	40	160	
Papua New Guinea	5.1	3.8	57	 		 10			41		300	
Paraguay	4.7	3.7	63	 	73		 94	 67	77	 180	170	
Peru	3.9	2.7	53	10	69	••	92	••	73	190	410	
Philippines	4.3	3.2	35	17	49	70	88	••	60	170	200	
Poland	2.0	1.2	14		••				100	4	13	
Portugal	1.4	1.4	18			••	••		100	8	5	



Description 2.16 Reproductive health

	Total fertility rate				Adolescent fertility rate	Unmet need for contraception	Contraceptive prevalence rate	Tetanus vaccinations	Pregnant women receiving prenatal care	by skilled		Maternal mortality ratio	
	births pe 1990	er woman 2005	births per 1,000 women ages 15–19 2005	% of married women ages 15–49 2000–05^a	% of married women ages 15–49 2000–05 ª	% of pregnant women 2005	% 2000–05ª	% of 1990–92 ª	total 2000–05ª	per 100,000 National estimates 1990–2005 ª	0 live births Modeled estimates 2000		
Romania	1.8	1.3	34		70		94		99	17	49		
Russian Federation	1.9	1.3	29	••	••		••	••	99	••	67		
Rwanda	7.4	5.8	46	36	17	76	94	26	39	750	1,400		
Saudi Arabia	5.9	3.8	32					••	93	·	23		
Senegal	6.4	4.9	80		11	85	79	••	58	430	690		
Serbia and Montenegro	2.1	1.6	23		58			••	92	7	11		
Sierra Leone	6.5	6.5	172		4	76	68		42	1,800	2,000		
Singapore	1.9	1.2	5						100	6	30		
Slovak Republic	2.1	1.3	20						99	4	3		
Slovenia	1.5	1.2	6				••	100	100	17	17		
Somalia	6.8	6.2	68		15 ^b	25		••	33 ^b	1,000	1,100		
South Africa	3.3	2.8	65		60	61	92	••	92	150	230		
Spain	1.3	1.3	9					••		6	4		
Sri Lanka	2.5	1.9	18		70	76	100		96	43	92		
Sudan	5.6	4.1	50		7	41	60	69	87		590		
Swaziland	5.3	3.9	35	••	48	••	90		74	230	370		
Sweden	2.1	1.8	7					••	••	5	2		
Switzerland	1.6	1.4	4							5	7		
Syrian Arab Republic	5.2	3.2	32	••	48		71		70	65	160		
Tajikistan	5.1	3.5	29		34		71		71	37	100		
Tanzania	6.1	5.2	106	22	26	90	78	44	43	578	1,500		
Thailand	2.2	1.9	47		72		92	••	99	24	44		
Togo Triaidead and Taba da	6.4	5.0	95		26	61	85	••	61	480	570		
Trinidad and Tobago Tunisia	2.4 3.5	1.6 2.0	35 7	••	38 66		92 92	••	96 90	45 69	160 120		
Turkey	3.0	2.0	40		71	 47	92 81	••	83	•••••••	70		
Turkmenistan	4.2	2.2	40	 10	62	•••••••••••••••••••••••••••••••••••••••	98	••	83 97	 14	31		
Uganda	7.2	2.0 7.1	207	35	23	 56	98	••	39	510	880		
Ukraine	1.2	1.2	207		89	•••••••••••••••••••••••••••••••••••••••	•••••••	••	100	13	35		
United Arab Emirates	4.3	2.4	19	••		••	••	••	100	3	54		
United Kingdom	1.8	1.8	25		 84		••	••		7	13		
United States	2.1	2.1	50				••••••	•	 99	. 8	17		
Uruguay	2.5	2.0	69	 		••		••	99	26	27		
Uzbekistan	4.1	2.2	35		68	••	 97		96	30	24		
Venezuela. RB	3.4	2.7	91			•••	94		95	58	96		
Vietnam	3.6	1.8	19	5	77	85	86		90	170	130		
West Bank and Gaza	6.3	4.6			51		96		97				
Yemen, Rep.	7.9	5.9	91		23	24	41	16	27	370	570		
Zambia	6.5	5.4	126	27	34	98	93	51	43	730	750		
Zimbabwe	5.2	3.3	89		••	70		••		1,100	1,100		
World	3.1 w				60 w	w	w	w	63 w		410 w		
Low income	4.7	3.6	92		40	69		33	41		684		
Middle income	2.6	2.1	32		76		89		87		150		
Lower middle income	2.7	2.1	29		77	••	89		86		163		
Upper middle income	2.6	1.9	46			••	••	••	92		91		
Low & middle income	3.4	2.7	60		60	••	••	••	61		450		
East Asia & Pacific	2.5	2.0	16		79	••	89	••	87		117		
Europe & Central Asia	2.3	1.6	29			••	••	••	94		58		
Latin America & Carib.	3.2	2.4	77			••	95		87		194		
Middle East & N. Africa	4.8	3.0	32		59	••	••	••	74		183		
South Asia	4.1	3.1	76		46	77	••	30	37		564		
Sub-Saharan Africa	6.2	5.3	132		23	61	70		45		921		
High income	1.8	1.7	24			••	••	••	••		14		
Europe EMU	1.5	1.5	9								10		

a. Data are for the most recent year available. b. Data are for 2006.

Reproductive health is a state of physical and mental well-being in relation to the reproductive system and its functions and processes. Means of achieving reproductive health include education and services during pregnancy and childbirth, provision of safe and effective contraception, and prevention and treatment of sexually transmitted diseases. Complications of pregnancy and childbirth are the leading cause of death and disability among women of reproductive age in developing countries. Reproductive health services will need to expand rapidly over the next two decades. when the number of women and men of reproductive age is projected to increase by about 500 million.

Total and adolescent fertility rates are based on data on registered live births from vital registration systems or, in the absence of such systems, from censuses or sample surveys. As long as the surveys are fairly recent, the estimated rates are generally considered reliable measures of fertility in the recent past. Where no empirical information on age-specific fertility rates is available, a model is used to estimate the share of births to adolescents. For countries without vital registration systems, fertility rates are generally based on extrapolations from trends observed in censuses or surveys from earlier years.

An increasing number of couples in the developing world want to limit or postpone childbearing but are not using effective contraceptive methods. These couples have an unmet need for contraception, shown in the table as the percentage of married women of reproductive age who do not want to become pregnant but are not using contraception (Bulatao 1998). Information on this indicator is collected through surveys and excludes women not exposed to the risk of unintended pregnancy because of menopause, infertility, or postpartum anovulation. Common reasons for not using contraception are lack of knowledge about contraceptive methods and concerns about possible health side-effects.

Contraceptive prevalence reflects all methodsineffective traditional methods as well as highly effective modern methods. Contraceptive prevalence rates are obtained mainly from household surveys, including Demographic and Health Surveys, Multiple Indicator Cluster Surveys, and contraceptive prevalence surveys (see Primary data documentation for the most recent survey year). Unmarried women are often excluded from such surveys, which may bias the estimates.

Neonatal tetanus is an important cause of infant mortality in some developing countries. It can be prevented through immunization of the mother during pregnancy. Recommended doses for full protection are

generally two tetanus shots during the first pregnancy and one booster shot during each subsequent pregnancy, with five doses considered adequate for lifetime protection. Information on tetanus shots during pregnancy is collected through surveys in which pregnant respondents are asked to show antenatal cards on which tetanus shots have been recorded. Because not all women have antenatal cards, respondents are also asked about their receipt of these injections. Poor recall may result in a downward bias in estimates of the share of births protected. But in settings where receiving injections is common, respondents may erroneously report having received tetanus shots.

The share of births attended by skilled health staff is an indicator of a health system's ability to provide adequate care for pregnant women. Good antenatal and postnatal care improve maternal health and reduce maternal and infant mortality. But data may not reflect such improvements because health information systems are often weak, maternal deaths are underreported, and rates of maternal mortality are difficult to measure.

Maternal mortality ratios are generally of unknown reliability, as are many other cause-specific mortality indicators. Household surveys such as the Demographic and Health Surveys attempt to measure maternal mortality by asking respondents about survivorship of sisters. The main disadvantage of this method is that the estimates of maternal mortality that it produces pertain to 12 years or so before the survey, making them unsuitable for monitoring recent changes or observing the impact of interventions. In addition, measurement of maternal mortality is subject to many types of errors. Even in high-income countries with vital registration systems, misclassification of maternal deaths has been found to lead to serious underestimation.

The maternal mortality ratios shown in the table as national estimates are based on national surveys, vital registration records, and surveillance data or are derived from community and hospital records. The ratios shown as modeled estimates are based on an exercise by the World Health Organization (WHO), United Nations Children's Fund (UNICEF), and the United Nations Population Fund (UNFPA). For countries with national data, reported maternal mortality was adjusted by a factor of under- or over-enumeration and misclassification. For countries with no national data, maternal mortality was estimated with a regression model using information on fertility, birth attendants, and GDP. Neither set of ratios can be assumed to provide an accurate estimate of maternal mortality for any of the countries in the table.

Definitions

· Total fertility rate is the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with current age-specific fertility rates. · Adolescent fertility rate is the number of births per 1.000 women ages 15-19. • Unmet need for contraception is the percentage of fertile, married women of reproductive age who do not want to become pregnant and are not using contraception. · Contraceptive prevalence rate is the percentage of women married or in-union ages 15-49 who are practicing, or whose sexual partners are practicing, any form of contraception. • Tetanus vaccinations refer to the percentage of pregnant women who receive two tetanus toxoid injections during their first pregnancy and one booster shot during each subsequent pregnancy, with five doses considered adequate for a lifetime. • Pregnant women receiving prenatal care are the percentage of women attended at least once during pregnancy by skilled health personnel for reasons related to pregnancy. . Births attended by skilled health staff are the percentage of deliveries attended by personnel trained to give the necessary supervision, care, and advice to women during pregnancy, labor, and the postpartum period; to conduct deliveries on their own; and to care for newborns. • Maternal mortality ratio is the number of women who die from pregnancy-related causes during pregnancy and childbirth, per 100,000 live births.

Data sources

Data on fertility rates are compiled and estimated by the World Bank's Development Data Group. Important inputs come from the following sources: the United Nations Population Division's World Population Prospects: The 2004 Revision; census reports and other statistical publications from national statistical offices: and household surveys such as Demographic and Health Surveys. Data on women with unmet need for contraception and contraceptive prevalence rates are from household surveys, including Demographic and Health Surveys by Macro International and Multiple Indicator Cluster Surveys by UNICEF. Data on tetanus vaccinations, pregnant women receiving prenatal care, births attended by skilled health staff, and national estimates of maternal mortality ratios are from UNICEF's State of the World's Children 2007 and Childinfo, and Demographic and Health Surveys by Macro International. Modeled estimates for maternal mortality ratios are from Carla AbouZahr and Tessa Wardlaw's "Maternal Mortality in 2000: Estimates Developed by WHO, UNICEF, and UNFPA" (2003).

2.17 Nutrition

	Prevalence of undernourishment		Prevalence of child malnutrition		Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of pc 1990–92	opulation 2002–04 ª	% of childrer Underweight 2000–05^b	n under age 5 Stunting 2000–05^b	% of children under age 5 2000–05^b	% of births 2000–05 ^b	% of children under 6 months 2000–05^b	% of households 2000–05^b	% of children 6–59 months 2004
Afghanistan			39.3	53.7		••	••	28	96
Albania	5 ^c	6	14.0	35.1	22.4	5	6	62	••
Algeria	5	4	10.4	19.1	10.1	7	13	69	
Angola	58	35	30.5	45.2		12	11	35	77
Argentina	<2.5	3	3.8 ^d	4.2 ^d		8			••
Armenia	52 ^c	24	2.6	12.9	10.4	7	33	97	
Australia	<2.5	<2.5				7			
Austria	<2.5	<2.5				7			••
Azerbaijan	34 ^c	7	6.8	13.3	2.6	12	7	26	14
Bangladesh	35	30	47.5	43.0	0.8	36	36	70	83
Belarus	<2.5 ^c	4		••		5		55	••
Belgium	<2.5	<2.5				••			••
Benin	20	12	30.0	30.7	1.8	16	38	72	94
Bolivia	28	23	7.6	26.7	5.6	7	54	90	42
Bosnia and Herzegovina	9 ^c	9	4.1	9.7	13.2	4		62	
Botswana	23	32	12.5	23.1	6.9	10	34	66	62 ^e
Brazil	12	7		···		8		88	
Bulgaria	8 ^c	8				10		98	
Burkina Faso	21	15	37.7	38.7	2.9	19	19	45	95
Burundi	48	66	45.1	56.8	0.7	16	62	96	94
Cambodia	43	33	36.0	44.6	2.0	11	12	14	72
Cameroon	33	26	18.1	31.7	5.2	13	24	88	81
Canada	<2.5	<2.5				6			
Central African Republic	50	44	24.3	38.9		14	17	86	79
Chad	58	35	36.7	40.9	1.5	22	2	56	84
Chile	8	4	0.7	1.4	8.1	6	63		
China	16	12	7.8	14.2	2.6	4	51	93	
Hong Kong, China						5			
Colombia	 17	13	7.0	12.0	3.7	6	47		
Congo, Dem. Rep.	31	74	31.0	38.1	3.9	12	24	 72	 81
Congo, Rep.	54	33					19		94
Costa Rica	6	5		•		 7			60
Côte d'Ivoire	18	13	 17.2	···		17		 84	
Croatia	16 ^c	7		•••••••••••••••••••••••••••••••••••••••	••	6			
Cuba	7	<2.5	 3.9	 4.6	••	5	 41	 88	••
Czech Republic	<2.5 ^c	<2.5			••	7			••
Denmark	<2.5	<2.5	••	••	••	5	••	••	••
Dominican Republic	<2.5 27	<2.5 29	 5.3	 8.9	 6.5	5 11	 10	 18	••
Ecuador	8	29	5.5 11.6	-					
Egypt, Arab Rep.	ہ 4	4	8.6	 15.6	 6.7	 12	 38	 78	••
El Salvador	4	4	8.6 10.3	15.6	6.7 3.6	12	38 24	62	••
Eritrea	12 70 ^c	75	39.6	37.6	3.6 0.7	14	24 52	68	 50
Estonia	9 ^c	<2.5		•		4	•••••••••••••••••••••••••••••••••••••••	••••••	
	9° 69 ^c	<2.5 46	 38.1	 46.5	 1.2	4	 49	 28	 52
Ethiopia Finland		46 <2.5	38.4			14 4		28	
Finiand	<2.5		••	••	••			••	••
	<2.5	<2.5			 2 7				••
Gabon Gambia The	10 22	5 29	11.9	20.7	3.7	14 17	6	36	 27
Gambia, The	22 44 ^c		17.2	19.2	1.5		26	8	27
Georgia		9		••		7		68	••
Germany	<2.5	<2.5				 16			
Ghana	37	11	22.1	29.9	2.9	16	53	28	95
Greece	<2.5	<2.5							 10 ⁰
Guatemala	16	22	22.7	49.3	5.4	12	51	67	18 ^e
Guinea	39	24	32.7			16	27	68	95
Guinea-Bissau	24	39	25.0	30.5	3.3	22	37	2	64



	Prevalence of undernourishment		Prevalence of child malnutrition		Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of po 1990–92	pulation 2002–04 ª	% of children Underweight 2000–05^b	under age 5 Stunting 2000–05^b	% of children under age 5 2000–05^b	% of births 2000–05 ^b	% of children under 6 months 2000–05^b	% of households 2000–05^b	% of children 6–59 months 2004
Honduras	23	23	16.6	29.2	2.2	14	35	••	40
Hungary	<2.5 ^c	<2.5	••			9	••		
India	25	20	••				37 ^f	57	51 ^e
Indonesia	9	6	28.2		••	9	40	73	73 ^e
Iran, Islamic Rep.	4	4	••				44		••
Iraq			15.9	22.1	3.0	15	12	40	
Ireland	<2.5	<2.5	••		••				
Israel	<2.5	<2.5			••	8			
Italy	<2.5	<2.5							
Jamaica	14	9	3.6			10	••	••	••
Japan	<2.5	<2.5				8			
Jordan	4	6	4.4	8.5	3.5	12	27	88	••
Kazakhstan	<2.5°	6						83	
Kenya	39	31	19.9	30.3	3.7	10	13	91	63
Korea, Dem. Rep.	18	33	23.9	38.6	0.6	7	65	40	95
Korea, Rep.	<2.5	<2.5			••	4			••
Kuwait	24 21 ^c	5			••	••			
Kyrgyz Republic		4	6.7					42	95
Lao PDR	29 3 ^c	19	40.4	42.4	1.2	14	23	75	48
Latvia		3				5	 27 ^f		••
Lebanon	<2.5	3	3.9	11.0		6		92	
Lesotho	17	13	18.0 26 F	46.1	12.1	13	36	91	71
Liberia	34	50	26.5	39.5	2.3	••	35		95
Libya Lithuania	<2.5 4 ^c	<2.5 <2.5	••		••	 4			••
Macedonia, FYR	4- 15 ^c	<2.5 5	••	••	••	4 6	 99	 94	••
Madagascar	35	38	 41.9	 47.7	••	17	67	94 75	 89
Malawi	50	35	21.9	49.0	 4.3	16	53	49	57
Malaysia	3	3	10.6	••••••		9	•••••••••••••••••••••••••••••••••••••••		
Mali	29	29	33.2	 38.2	 1.5	23	 25	 74	 97
Mauritania	15	10	31.8	34.5			20	2	95
Mauritius	6	5				 14	20 21 ^f	<u>~</u> ۰۰	
Mexico	5	5		 		8		 91	
Moldova	5 ^c	11	4.3			5	46	59	
Mongolia	34	27	12.7	24.6		7	51	75	93
Morocco	6	6	10.2	18.1	9.2	15	31	59	
Mozambique	66	44	23.7	41.0	3.0	15	30	54	26
Myanmar	10	5	31.8	32.2	1.6	15	15 ^f	60	96
Namibia	34	24	24.0	23.6	2.2	14	19	63	
Nepal	20	17	45.0 ^g	43.0 ^g	0.2	21	68 ^g	63	97
Netherlands	<2.5	<2.5	••	••	••	••			••
New Zealand	<2.5	<2.5				6			
Nicaragua	30	27	9.6	20.2	4.7	12	31	97	98
Niger	41	32	40.1	39.7	0.8	13	1	15	••
Nigeria	13	9	28.7	38.3	3.6	14	17	97	85
Norway	<2.5	<2.5				5			••
Oman						8			95
Pakistan	24	24	37.8	36.8	2.1	••		17	95
Panama	21	23	••		••	10			
Papua New Guinea			••						32
Paraguay	18	15	4.6		••	9	22	88	••
Peru	42	12	7.1	25.4	7.6	11	64	91	
Philippines	26	18	27.6			20	34	56	85
Poland	<2.5 ^c	<2.5		••		6			••
Portugal	<2.5	<2.5				8			

2.17 Nutrition

	Prevalence of undernourishment		Prevalenc malnu	e of child trition	Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of po 1990–92	pulation 2002–04 ª	% of children Underweight 2000–05^b	under age 5 Stunting 2000–05^b	% of children under age 5 2000–05^b	% of births 2000–05 ^b	% of children under 6 months 2000–05^b	% of households 2000–05^b	% of children 6–59 months 2004
Romania	<2.5 ^c	<2.5	3.2	10.1	5.5	8	16	53	••
Russian Federation	4 ^c	3	5.5	10.6		6	••	35	••
Rwanda	43	33	22.5	45.3	4.0	9	88	90	95
Saudi Arabia	4	4							••
Senegal	23	20	22.7	25.4	2.2	18	34	41	95
Serbia and Montenegro	5 ^c	9	1.9	5.1		4	11 ^f	73	••
Sierra Leone	46	51	27.2	33.8		23	4	23	95
Singapore			3.4	2.2	2.2	8	••		••
Slovak Republic	4 ^c	7				7			••
Slovenia	3 ^c	3			••	6	••	••	••
Somalia			 33.0 ^g	23.3				••	 6
South Africa	 <2.5	 <2.5					7		37
Spain	<2.5	<2.5						••	
Sri Lanka	28	22.3	 29.4	 13.5		 22	53	 94	 57 ^e
Sudan	31	26	40.7	43.3	 3.4		16	1	70
Swaziland	14	20	10.3	30.2		 9	24	59	86
Sweden	<2.5	<2.5							
Switzerland	<2.5	<2.5		•	••		•		••
Syrian Arab Republic	~2.5	4	 6.9	 18.8		 6	 81 ^f	 79	••
Tajikistan	22 ^c	56	•••••••••••••••••••••••••••••••••••••••	36.2		15	50	28	 98
	••••••				••		•••		
Tanzania	37	44	21.8	37.7	••	10	41	43	94
Thailand	30	22	••			9		63	
Togo	33	24			••	18	18	67	95
Trinidad and Tobago	13	10	5.9	3.6		23	2	1	
Tunisia	<2.5	<2.5	4.0	12.3		7	47	97	
Turkey	<2.5	3	3.9				21	64	
Turkmenistan	12 ^c	7	12.0	22.3		6	13	100	
Uganda	24	19	22.9	39.1	2.6	12	63	95	68
Ukraine	<2.5 ^c	<2.5	1.0	2.7	20.1	5	22	32	••
United Arab Emirates	4	3	••			••			••
United Kingdom	<2.5	<2.5	••			8			
United States	<2.5	<2.5	1.6	1.1	5.6	8			••
Uruguay	7	<2.5	••		••	8	••		••
Uzbekistan	8 ^c	25	7.9	21.1		7	19	57	86
Venezuela, RB	11	18	4.4	12.8	3.2	9			••
Vietnam	31	16	28.4	36.5	2.7	9	15	83	95 ^e
West Bank and Gaza		16	4.9	9.9		9	29 ^f	64	
Yemen, Rep.	34	38	45.6	53.1		••	12	30	20
Zambia	48	46	23.0	46.8	3.0	12	40	77	50
Zimbabwe	45	47							20
World	17 w	14 w	w	w		11 w	37 w	69 w	w
Low income	27	24	••			••	33	56	68
Middle income	14	10	11.5	15.6		8	42	80	••
Lower middle income	16	11	12.5	16.4		8	44	83	
Upper middle income		4				8			
Low & middle income	20	16	21.7			11	37	69	••
East Asia & Pacific	17	12	14.9	17.7		7	44	85	••
Europe & Central Asia	6 ^c	6	4.9			7	••	49	••
Latin America & Carib.	13	10				9		84	
Middle East & N. Africa	6	7	14.6	22.2		11	34	66	••
South Asia	26	21	••			••	37	54	62
Sub-Saharan Africa	29	30	29.6	39.2		14	29	63	73
High income	3	3							
Europe EMU	3	3	••	•••		••	••	••	

a. Preliminary data. b. Data are for the most recent year available. c. Data are for 1993–95. d. Data are for 2005–06. e. Country's vitamin A supplementation programs do not target children all the way up to 59 months of age. f. Refers to exclusive breastfeeding of children under four months. g. Data are for 2006.

Data on undernourishment are produced by the Food and Agriculture Organization (FAO) of the United Nations based on the calories available from local food production, trade, and stocks; the number of calories needed by different age and gender groups; the proportion of the population represented by each age group; and a coefficient of distribution to take account of inequality in access to food (FAO. State of Food Insecurity in the World 2000). From a policy and program standpoint, however, this measure has its limits. First, food insecurity exists even where food availability is not a problem because of inadequate access of poor households to food. Second, food insecurity is an individual or household phenomenon, and the average food available to each person, even corrected for possible effects of low income, is not a good predictor of food insecurity among the population. And third, nutrition security is determined not only by food security but also by the quality of care of mothers and children and the quality of the household's health environment (Smith and Haddad 2000).

Estimates of child malnutrition, based on weight for age (underweight) and height for age (stunting). are from national survey data. The proportion of children who are underweight is the most common indicator of malnutrition. Being underweight, even mildly, increases the risk of death and inhibits cognitive development in children. Moreover, it perpetuates the problem from one generation to the next, as malnourished women are more likely to have low-birthweight babies. Height for age reflects linear growth achieved pre- and postnatally, and a deficit indicates long-term, cumulative effects of inadequacies of health, diet, or care. It is often argued that stunting is a proxy for multifaceted deprivation and is a better indicator of long-term changes in malnutrition.

Estimates of children who are overweight are also from national survey data. Overweight in children has become a growing concern in developing countries. Researchers show an association between obesity in childhood and a high prevalence of diabetes, respiratory disease, high blood pressure, and psychosocial and orthopedic disorders (de Onis and Blössner 2000). The survey data were analyzed in a standardized way by the World Health Organization (WHO) to allow comparisons across countries.

New international child growth standards for infants and young children, called the Child Growth Standards, were released in 2006 by the WHO. The new standards confirm that children born anywhere in the world, raised in healthy environments, and following recommended feeding practice have the potential to develop to within the same range of height and weight. Naturally, there are individual differences among children, but the differences in children's growth to age five are influenced more by nutrition, feeding practices, environment, and healthcare than by genetics or ethnicity. The new standards are the result of a community-based, multicountry project involving more than 8,000 children from Brazil, Ghana, India, Norway, Oman, and the United States. The children were selected based on an optimal environment for growth, including breastfeeding,

good healthcare, and mothers who did not smoke. Previously, the U.S. National Center for Health Statistics–WHO growth reference has been used to chart children's growth. This reference was based on data from a limited sample of a random mix of breastfed and artificially fed children from the United States only, and the growth reference describes only how children grow in a particular region and time. Thus it does not provide a sound basis for evaluation against international standards and norms.

Adoption of the new standards will have important implications for monitoring children's growth. A study based on the new standards shows that the underweight rates increased during the first six months and decreased thereafter and that stunting and overweight rates increased for all age groups (birth to five years). Differences are particularly important during infancy. likely due to the inclusion of only breast-fed infants in the new standards (de Onis and others 2006).

The new standards are expected to be widely used as a tool for monitoring the nutritional status of communities and alerting practitioners and policymakers to unhealthy trends in the population. They are also expected to play a key role in measuring and monitoring health targets for the Millennium Development Goals. Currently, national surveys are being reanalyzed with the new standards to update the global database, but the updated data are not yet available. The data on malnutrition and overweight presented in the table are still based on the old standard.

Low birthweight, which is associated with maternal malnutrition, raises the risk of infant mortality and stunts growth in infancy and childhood. There is also emerging evidence that low-birthweight babies are more prone to noncommunicable diseases such as diabetes and cardiovascular diseases. Estimates of low-birthweight infants are drawn mostly from hospital records and household surveys. Many births in developing countries take place at home, and these births are seldom recorded. A hospital birth may indicate higher income and therefore better nutrition, or it could indicate a higher-risk birth, possibly skewing the data on birthweights downward. The data should therefore be treated with caution.

It is estimated that improved breastfeeding practice can save some 1.3 million children a year. Breast milk alone contains all the nutrients, antibodies, hormones, and antioxidants an infant needs to thrive. It protects babies from diarrhea and acute respiratory infections, stimulates their immune systems and response to vaccination, and according to some studies confers cognitive benefits as well. The data on breastfeeding are derived from national surveys.

lodine deficiency is the single most important cause of preventable mental retardation, and it contributes significantly to the risk of stillbirth and miscarriage. lodized salt is the best source of iodine, and a global campaign to iodize edible salt is significantly reducing the risks (UNICEF, State of the World's Children 1999).

Vitamin A is essential for the functioning of the immune system. A child deficient in vitamin A faces a 23 percent greater risk of dying from a range of childhood ailments such as measles, malaria, and diarrhea. Improving the vitamin A status of pregnant women helps reduce anemia, improves their resistance to infection, and may reduce their risk of dying during pregnancy and childbirth. Giving vitamin A to new mothers who are breastfeeding helps to protect their children during the first months of life. Food fortification with vitamin A is being introduced in many developing countries.

Definitions

· Prevalence of undernourishment is the percentage of the population that is undernourished-whose dietary energy consumption is continuously below a minimum dietary energy requirement for maintaining a healthy life and carrying out light physical activity. · Prevalence of child malnutrition is the percentage of children under age five whose weight for age (underweight) or height for age (stunting) is more than two standard deviations below the median for the international reference population ages 0-59 months. For children up to two years old height is measured by recumbent length. For older children height is measured by stature while standing. The new Child Growth Standards were released by the WHO in 2006, but the data using these standards are not yet available . Prevalence of overweight children is the percentage of children under age five whose weight for height is more than two standard deviations above the median for the international reference population of the corresponding age, established by the U.S. National Center for Health Statistics and the WHO. The new Child Growth Standards were released by WHO in 2006, but the data using these standards are not yet available. • Lowbirthweight babies are the percentage of newborns weighing less than 2,500 grams, with the measurement taken within the first hours of life, before significant postnatal weight loss has occurred. • Exclusive breastfeeding refers to the percentage of children less than six months old who are fed breast milk alone (no other liquids) in the past 24 hours. • Consumption of iodized salt refers to the percentage of households that use edible salt fortified with iodine. Vitamin A supplementation refers to the percentage of children ages 6-59 months old who received at least one high-dose vitamin A capsule in the previous six months.

Data sources

Data on undernourishment are from www.fao.org/ faostat/foodsecurity/index en.htm. Data on malnutrition and overweight are from WHO's Global Database on Child Growth and Malnutrition. Data on low-birthweight babies, breastfeeding, iodized salt consumption, and vitamin A supplementation are from the WHO's World Health Report 2006 and the United Nations Children's Fund's State of the World's Children 2007.

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Particular Structure <p

			Incidence of tuberculosis	Prevalence of diabetes	caused		Prevalen	ce of HIV		Cause of death % of total deaths			
					by road traffic injury			Fen	nale	% (Communicable diseases and maternal,			
	% of a Male 2000–05 ª	adults Female 2000–05 ª	per 100,000 people 2005	% of population ages 20–79 2007	per 100,000 people 1998–2003 ^a	% of po ages :	otal pulation 15–49 2005		of lation HIV 2005	perinatal, and nutrition conditions 2002	Non- communicable diseases 2002	Injuries 2002	
Afghanistan		••	168	9.7		<0.1	<0.1			65	29	6	
Albania	60	 18	20	4.5						8	83	9	
Algeria	32	0 ^b	55	8.4		0.1	0.1	20.6	21.6	33	54	13	
Angola	••	••	269	3.3	••	3.7	3.7	59.3	60.7	75	17	8	
Argentina	32	25	41	5.6	••	0.6	0.6	26.7	27.7	13	80	7	
Armenia	62	2	71	7.7	5.6	0.1	0.1			5	90	5	
Australia	19	16	6	5.0	8.2	0.1	0.1	••		4	89	6	
Austria	••	••	11	7.9	11.5	0.3	0.3	19.2	19.2	3	92	6	
Azerbaijan	••	1	76	7.3	6.9	<0.1	<0.1			17	79	4	
Bangladesh	55	27	227	5.3		<0.1	<0.1		12.7	46	44	10	
Belarus	53	7	62	7.6	14.3	0.3	0.3	24.4	25.5	3	85	12	
Belgium	30	25	13	5.2	13.1	0.2	0.3	45.5	38.6	7	88	6	
Benin Bolivia	••		88 211	4.4	••	2.0 0.1	1.8 0.1	59.3 27.0	58.4 27.9	69 38	23 54	7	
Bosnia and Herzegovina	 49	 30	52	5.8 7.0	••		0.1			38	54 92	8 5	
Botswana		••••••	654	5.2	••	 24.0	24.1	 56.0	 53.8	87	92 10	2	
Brazil	 22	 14	60	6.2	 	0.5	0.5	34.5	36.1	19	70	11	
Bulgaria	44	23	39	7.6	 10.2	0.0	0.1			3	94	4	
Burkina Faso			223	3.7		1.8°	2.0	59.2	57.1	78	16	6	
Burundi			334	1.7		3.3	3.3	60.8	60.8	71	17	12	
Cambodia			506	5.0		2.0	1.6	46.4	45.4	61	34	5	
Cameroon		••	174	3.7		5.5	5.5 ^d	62.2	61.7	68	26	7	
Canada	22	17	5	7.4	8.7	0.3	0.3	12.2	16.3	5	89	6	
Central African Republic	••	••	314	4.4	••	10.8	10.7	59.1	56.5	73	21	6	
Chad	••	••	272	3.6		3.4	3.5	54.7	56.3	74	19	6	
Chile	48	37	15	5.6	10.7	0.3	0.3	26.4	27.1	12	79	9	
China	67	4	100	4.1	19.0	0.1 ^e	0.1 ^e	24.5 ^e	27.7 ^e	12	77	11	
Hong Kong, China	22	4	75	8.2									
Colombia			45	5.0	24.2	0.5	0.6	26.4	28.1	16	60	24	
Congo, Dem. Rep.			356	3.0		3.2	3.2	59.0	58.4	73	17	11	
Congo, Rep.			367	5.0		5.4	5.3	58.6	61.0	67	23	9	
Costa Rica	29	10	14	9.3	20.1	0.3	0.3	27.0	27.4	12	77	11	
Côte d'Ivoire	 34	 27	382 41	4.6 7.1		7.0	7.1	57.8	58.8	67 3	23 91	9 5	
Croatia Cuba			41 9	9.3	11.4 13.9	 0.1	0.1 0.1	 54.8	 55.3	3 11	80	9	
Czech Republic	 31	 20	10	9.3 7.6	14.2	<0.1	<0.1			3	91	6	
Denmark	31	25	7	5.5	8.0	0.2	0.2	 24.0	 23.6	4	90	6	
Dominican Republic	16	11	91	8.7	41.1	1.0 ^f	1.1	49.2	50.0	35	58	8	
Ecuador			131	5.7	16.9	0.3	0.3	52.4	54.5	24	63	13	
Egypt, Arab Rep.	40	18	25	11.0	7.5	<0.1	<0.1			18	78	4	
El Salvador	42	15	51	9.0	41.7	0.9	0.9	27.1	28.3	29	57	14	
Eritrea			282	2.3		2.4	2.4	59.2	58.5	70	22	7	
Estonia	45	18	43	7.6	14.8	1.1	1.3	22.1	24.0	3	84	12	
Ethiopia	6	0 ^b	344	2.3	••	••				71	23	6	
Finland	26	19	6	5.9	7.3	0.1	0.1			6	86	8	
France	30	21	13	5.9	10.2	0.4	0.4	33.3	34.6	6	85	8	
Gabon			308	4.9		7.7	7.9	59.6	58.9	53	39	7	
Gambia, The			242	4.1		2.2	2.4	58.8	57.9	59	32	8	
Georgia	53	6	83	7.4	6.2	0.1	0.2			4	93	2	
Germany	37	28	7	7.9	8.0	0.1	0.1	29.5	30.6	4	92	4	
Ghana	7	1	205	4.2		2.2 ^c	2.3	60.7	60.0	59	33	8	
Greece	47	29	17	5.9	19.3	0.2	0.2	20.7	21.5	4	92	4	
Guatemala Guinea	21	2	78 236	8.6 4.1		0.9	0.9	26.4	27.1	50 68	40 24	10 9	
Guinea-Bissau		••	236	4.1 3.8	••	1.6 3.8	1.5 3.8	68.9 59.3	67.9 58.6	68 75	 19	9	
Haiti	 15	 6	305	3.8 9.0	••	3.8 3.8	3.8	59.3 52.9	53.3	69	19 29	2	
	10	U	300	9.0	••	5.0	5.0	52.3	55.5	03	23	۷	

Health risk factors and public health challenges



		Prevalence of smoking		Prevalence of diabetes	caused by road traffic		Prevalen	ce of HIV	,		use of death	
					injury			Fer	nale	maternal,		
			per	% of	per	То	tal		of	perinatal,	Non-	
	% of a	adults	100,000	population	100,000	% of po			lation	and nutrition	communicable	
	Male 2000-05 ^a	Female 2000–05 ª	people 2005	ages 20–79 2007	people 1998–2003 ^a	ages : 2003	15–49 2005	with 2003	n HIV 2005	conditions 2002	diseases 2002	Injuries 2002
Honduras		····	78	9.1		1.5	1.5	25.0	26.2	32	59	9
Hungary	41	28	22	7.6	13.1	0.1	0.1	••	••	2	91	7
India	47	17	168	6.7	••	0.9	0.9	28.8	28.6	41	49	10
Indonesia	58	3	239	2.3	••	0.1	0.1	13.6	17.1	29	61	10
Iran, Islamic Rep.	22	2	23	7.8	••	0.1	0.2	13.0	16.7	12	70	18
Iraq	••		56	10.0	8.4					43	43	13
Ireland	28	26	12	5.1	10.1	0.2	0.2	32.0	36.0	10	85	5
Israel	32	18	8	6.9	5.9	••	••	••		6	88	6
Italy	31	17	7	5.8	10.5	0.5	0.5	33.6	33.3	4	92	4
Jamaica			7	10.3	••	1.5	1.5	27.1	27.6	14	84	2
Japan	47	15	28	4.9	7.0	<0.1	<0.1	56.5	58.2	12	81	8
Jordan	51	8	5	9.8		••				18	65	16
Kazakhstan	65	9	144	5.6		0.1	0.1	56.0	56.7	8	79	13
Kenya	21	1	641	3.3		6.7 ^c	6.1	64.2	61.7	72	22	6
Korea, Dem. Rep.	••		178	5.2		••				32	61	7
Korea, Rep.			96	7.8	15.1	<0.1	<0.1	59.1	56.9	6	83	12
Kuwait		••	24	14.4	23.7	••	••	••		13	72	15
Kyrgyz Republic	51	5	121	5.1	12.9	<0.1	<0.1			17	74	9
Lao PDR	59	13	155	3.1	••	0.1	0.1			55	36	9
Latvia	51	19	63	7.6	22.7	0.6	0.8	20.3	22.0	4	86	11
Lebanon	42	31	11	7.7	••	0.1	0.1			10	77	13
Lesotho			696	3.8		23.7	23.2	56.0	60.0	81	16	3
Liberia		••	301	4.6	••	••	••	••		76	15	10
Libya			18	4.4		••				17	73	10
Lithuania	44	13	63	7.6	19.3	0.1	0.2			2	85	13
Macedonia, FYR			30	7.1	5.1	<0.1	<0.1			3	89	8
Madagascar			234	3.0		0.5	0.5	28.2	27.7	65	27	8
Malawi	21	5	409	2.1		14.2	14.1	59.3	58.8	79	17	4
Malaysia	43	2	102	10.7		0.4	0.5	25.0	25.4	20	71	9
Mali			278	4.1		1.8 ^g	1.7	57.3	60.0	78	16	6
Mauritania			298	4.6		0.7	0.7	59.2	57.3	65	27	8
Mauritius	32	1	62	11.1	14.7	0.2	0.6			7	86	6
Mexico	13	5	23	10.6	11.8	0.3	0.3	20.0	23.3	16	72	11
Moldova	34	2	138	7.6	14.1	0.9	1.1	56.5	57.1	5	86	9
Mongolia	68	26	191	1.9		<0.1	<0.1			23	66	11
Morocco	29	0 ^b	89	8.1	••	0.1	0.1	18.2	21.1	23	69	8
Mozambique			447	3.7	••	16.0	16.1	57.5	60.0	83	14	2
Myanmar	36	12	171	3.2	••	1.4	1.3	31.6	31.4	45	47	9
Namibia	23	10	697	4.2	••	19.5	19.6	60.0	61.9	71	24	5
Nepal	49	24	180	4.2	••	0.5	0.5	20.3	21.6	49	42	9
Netherlands	36	28	7	5.2	6.4	0.2	0.2	33.8	34.7	8	89	4
New Zealand	24	22	9	6.4	11.5	0.1	0.1			3	91	6
Nicaragua		5	58	10.1	20.1	0.2	0.2	22.4	23.6	30	58	12
Niger		··· ··	164	3.7		1.1	1.1	59.7	59.2	80	14	6
Nigeria		1	283	4.5		3.7	3.9	58.3	61.5	71	22	7
Norway	27	25	5	3.6	6.1	0.1	0.1			8	87	5
Oman	••		11	13.1	••					13	75	12
Pakistan	••	••	181	9.6		0.1	0.1	13.3	16.7	53	39	8
Panama	••	••	45	9.7	16.4	0.9	0.9	26.0	25.3	21	69	10
Papua New Guinea			250	2.9	••	1.6	1.8	59.2	59.6	52	38	9
Paraguay	23	7	68	4.8		0.4	0.4	27.3	26.9	28	62	10
Peru			172	6.0	17.6	0.5	0.6	26.8	28.6	32	58	9
Philippines	41	8	291	7.6		< 0.1	<0.1	20.2	28.3	35	56	9
Poland	40	25	26	7.6	14.8	0.1	0.1	30.0	30.0	3	90	7
Portugal			33	5.7	14.8	0.4	0.4	3.9	4.1	9	86	4

2.18Health risk factors and
public health challenges

	Preva of sm		Incidence of tuberculosis	Prevalence of diabetes	Mortality caused		Prevalenc	e of HIV		Cause of death			
	or one			or unaporco	by road traffic injury			Fem	nale	% Communicable diseases and maternal,	of total deaths		
	% of a Male	Female	per 100,000 people	% of population ages 20–79	per 100,000 people	Tot % of pop ages 1	pulation L5–49	% o popula with	ation HIV	conditions	Non- communicable diseases	Injuries	
	2000-05 ^a	2000–05 ^a	2005	2007	1998–2003 ^a	2003	2005	2003	2005	2002	2002	2002	
Romania	32	10	134	7.6	16.8		0.1			5	90	5	
Russian Federation	60	16	119	7.6	19.4	0.9	1.1	21.1	22.3	4	81	15	
Rwanda		••	361	1.5		3.8	3.1	52.6	56.9	76	18	6	
Saudi Arabia	19	8	41	16.7					••	15	69	16	
Senegal	••	••	255	4.6	••	0.9	0.9	58.5	58.9	64	26	10	
Serbia and Montenegro	48	34	33	7.1	••	0.2	0.2	22.2	20.0	3	93	4	
Sierra Leone			475	4.3		1.6	1.6	60.0	60.5	78	14	8	
Singapore	24	4	29	10.1	5.2	0.3	0.3	25.5	27.3	12	82	5	
Slovak Republic			17	7.6	11.3	<0.1	<0.1	••	••	4	90	6	
Slovenia	28	20	15	7.6	12.1	<0.1	<0.1			4	87	8	
Somalia			224	2.8	••	0.9	0.9 ^h	60.5	57.5	66 65	23	10	
South Africa	23	8	600	4.4		15.6 ^r	18.8	56.9	58.5	65	28	7	
Spain Sri Lonko	39	25	27	5.7	12.8	<0.1	<0.1	22.9	22.9	12	90	5	
Sri Lanka	23	2	60	8.4	••	0.1	0.1			13	76	10	
Sudan Swaziland	 11	 3	228	4.0	••	1.6	1.6	56.7	56.3	45	41	14 3	
			1,262	4.0		32.4 0.2	33.4	63.2	57.1	84 5	13 90	3 5	
Sweden	17	18	7	5.2	5.9		0.2	31.3	31.3				
Switzerland	27	23	37	7.9 10.6	7.5	0.4	0.4	36.0	36.9	6 17	89 73	5 9	
Syrian Arab Republic	••	••	198	4.9	 5.6	 <0.1	 <0.1	••	••	27	67	9	
Tajikistan	••	••	342	2.9	••••••••	<0.1 6.6	<0.1 7.0 ^d	 52.3	 54.6	77	17	6	
Tanzania Thailand	 49	 3	142	2.9 6.9	••	1.4	1.4	38.6	39.3	31	58	11	
Togo			373	4.1	••	3.2	3.2	58.9	61.0	66	26	8	
Trinidad and Tobago	••	••	9	4.1	••	2.6	2.6	56.0	57.7	23	71	6	
Tunisia	 50	 2	24	5.2	••	0.1	0.1		22.1	9	80	11	
Turkey	49	18	29	7.8						14	79	6	
Turkmenistan			70	5.2	 10.3		0.1			19	73	8	
Uganda	 25	 3	369	2.0		 6.8	6.4 ⁱ	 57.6	 57.8	75	18	7	
Ukraine	53	11	99	7.6	10.8	1.3	1.4	47.4	48.8	4	87	9	
United Arab Emirates	17	1	16	19.5						12	67	21	
United Kingdom	27	25	14	2.9	6.1					12	85	3	
United States	24	19	5	7.8	14.7	0.6	0.6	25.5	25.0	6	88	6	
Uruguay	35	24	28	5.6	10.0	0.4	0.5	55.6	55.8	7	86	7	
Uzbekistan	24	1	113	5.1	9.8	0.1	0.2		13.2	14	80	7	
Venezuela, RB	••		42	5.4	23.1	0.6	0.7	27.7	28.2	15	66	18	
Vietnam	35	2	175	2.9		0.4	0.5 ^j	30.5	33.6	24	66	9	
West Bank and Gaza			21	8.4									
Yemen, Rep.			82	2.9						48	43	10	
Zambia	16	1	600	3.8		15.6 ^k	17.0	56.3	57.0	86	12	2	
Zimbabwe	20	2	601	4.0		22.1	20.1	58.1	59.3	83	14	3	
World	w	w	136 w		w	0.9 w	1.0 w	30.3 w	31.3 w	v 32 w	59 w	9 w	
Low income		15	220			1.7	1.7	35.6	34.2	54	37	9	
Middle income			111			0.6	0.6	26.1	28.7	18	72	11	
Lower middle income	••	••	113		••	0.3	0.3	25.9	28.7	18	71	11	
Upper middle income	••	••	104		••	2.2	2.2	27.1	28.6	15	74	11	
Low & middle income			158			1.1	1.1	29.8	31.0	36	54	10	
East Asia & Pacific	67	4	136		19.0	0.2	0.2	24.3	27.4	19	71	10	
Europe & Central Asia	••	••	84		••	0.6	0.7			6	84	11	
Latin America & Carib.			61			0.5	0.6	30.3	32.0	22	67	11	
Middle East & N. Africa	••	••	43			0.1	0.1			24	65	11	
South Asia	47	18	174		••	0.7	0.7	26.9	25.6	43	47	10	
Sub-Saharan Africa		••	348			6.4	5.8	57.6	58.4	72	21	7	
			17		10.9	0.4	0.4	22.1	33.2	7	87	6	
High income	••	••	<i>1</i>		10.9	0.4	0.4	33.1	33.Z	1	01	~	

a. Data are for the most recent year available. b. Less than 0.5. c. Survey data, 2003. d. Survey data, 2004. e. Includes Hong Kong, China. f. Survey data, 2002. g. Survey data, 2001. h. Survey data, 2006. i. Survey data, 2004–05. j. Survey data, 2005. k. Survey data, 2001/02.

The limited availability of data on health status is a major constraint in assessing the health situation in developing countries. Surveillance data are lacking for many major public health concerns. Estimates of prevalence and incidence are available for some diseases but are often unreliable and incomplete. National health authorities differ widely in their capacity and willingness to collect or report information. To compensate for the paucity of data and ensure reasonable reliability and international comparability, the World Health Organization (WHO) prepares estimates in accordance with epidemiological models and statistical standards.

Smoking is the most common form of tobacco use in many countries, and the prevalence of smoking is therefore a good measure of the extent of the tobacco epidemic (Corrao and others 2000). While the prevalence of smoking has been declining in some highincome countries, it has been increasing in many developing countries. Tobacco use causes heart and other vascular diseases and cancers of the lung and other organs. Given the long delay between starting to smoke and the onset of disease, the health impact of smoking in developing countries will increase rapidly in the next few decades. Because the data present a one-time estimate, with no information on the intensity or duration of smoking, and because the definition of adult varies across countries, the data should be interpreted with caution.

Tuberculosis is one of the main causes of death from a single infectious agent among adults in developing countries. In high-income countries tuberculosis has reemerged largely as a result of cases among immigrants. The estimates of tuberculosis incidence in the table are based on a new approach in which reported cases are adjusted using the ratio of case notifications to the estimated share of cases detected by panels of 80 epidemiologists convened by the WHO.

Diabetes, an important cause of ill health and a risk factor for other diseases in developed countries, is spreading rapidly in developing countries. While diabetes is most common among the elderly, prevalence rates are rising among younger and productive populations in developing countries. Economic development has led to the greater adoption of Western lifestyles and diet in developing countries, resulting in a substantial increase in diabetes. Without effective prevention and control programs, diabetes will likely continue to increase. Data are estimated based on sample surveys.

Data for mortality caused by road traffic injury are collected by the WHO based on vital registries. There is considerable difference in completeness of the vital registry data. In some countries the vital registry system covers only part of the country. In some, not all deaths are registered. In addition, mortality from different causes is difficult to measure. For countries with incomplete vital registry systems, the WHO has used demographic techniques to estimate deaths.

Adult HIV prevalence rates reflect the rate of HIV infection in each country's population. Low national prevalence rates can be very misleading, however. They often disguise serious epidemics that are initially concentrated in certain localities or among specific population groups and threaten to spill over into the wider population. In many parts of the developing world most new infections occur in young adults, with young women especially vulnerable.

Estimates from recent Demographic and Health Surveys that have collected data on HIV/AIDS differ from those of the Joint United Nations Programme on HIV/AIDS (UNAIDS) and the WHO, which are based on surveillance systems that focus on pregnant women who attend sentinel antenatal clinics. There are reasons to be cautious about comparing the two sets of estimates. Demographic and Health Surveys are household surveys that use a representative sample from the whole population, whereas surveillance data from antenatal clinics are limited to pregnant women. Representative household surveys also frequently provide better coverage of rural populations. However, the fact that some respondents refuse to participate or are absent from the household adds considerable uncertainty to survey-based HIV estimates, because the possible association of absence or refusal with higher HIV prevalence is unknown. UNAIDS and WHO estimates are generally based on surveillance systems that focus on pregnant women who attend sentinel antenatal clinics. UNAIDS and the WHO use a methodology to estimate HIV prevalence for the adult population (ages 15-49) that assumes that prevalence among pregnant women is a good approximation of prevalence among men and women. However, this assumption might not apply to all countries or over time. There are also other potential biases associated with the use of antenatal clinic data, such as differences among women who attend antenatal clinics and those who do not.

The data on cause of death are compiled by WHO. based mainly on data from national vital registry systems, as well as sample registration systems, population laboratories and epidemiological analyses of specific conditions. Data are classified based on the International Statistical Classification of Diseases

and Related Health Problems, 10th revision. Cause of death data have been carefully analyzed to take into account incomplete coverage of vital registration and the likely differences in cause of death patterns that would be expected in the uncovered and often poorer subpopulations. Special attention has also been paid to problems of misattribution or miscoding of causes of death in cardiovascular diseases, cancer, injuries, and general ill-defined categories. For further information, consult the original source.

Definitions

• Prevalence of smoking is the percentage of men and women who smoke cigarettes. The age range varies, but in most countries is 18 and older or 15 and older. • Incidence of tuberculosis is the estimated number of new tuberculosis cases (pulmonary, smear positive, extrapulmonary). • Prevalence of diabetes refers to the percentage of people ages 20-79 who have type 1 or type 2 diabetes. • Mortality caused by road traffic injury refers to the number of deaths per 100,000 people caused by road traffic injury. • Prevalence of HIV is the percentage of people who are infected with HIV. • Cause of death refers to the share of all deaths by underlying causes. · Communicable diseases and maternal, perinatal, and nutrition conditions include infectious and parasitic diseases, respiratory infections, and nutritional deficiencies such as underweight and stunting. • Noncommunicable diseases include cancer. diabetes mellitus, cardiovascular diseases, digestive diseases, skin diseases, musculoskeletal diseases, and congenital anomalies. • Injuries include unintentional and intentional injuries.

Data sources

Data on smoking are from J. McCay, M. Erkson, and O. Shafey's Tobacco Atlas, 2nd edition (2006). Data on tuberculosis are from the WHO's Global Tuberculosis Control Report 2007. Data on diabetes are from the International Diabetes Federation's Diabetes Atlas, 3rd edition. Data on mortality caused by road traffic injury are from the WHO and the World Bank's World Report on Road Traffic Injury Prevention (2004) and the Organisation for Economic Co-operation and Development. Data on HIV are from UNAIDS and the WHO's 2006 Report on the Global AIDS Epidemic. Data on cause of death are from the Disease Control Priorities Project's (2006) Global Burden of Disease and Risk Factors (www.dcp2.org/pubs/GBD).

Image: Provide and the second seco

	Survey year	Prevalenc malnu	e of child trition			iild ation rate			ant ity rate	Under-five mortality rate		
		Under % of cl	hildren		ages 12–2	hildren 23 months ^a						
		under Poorest	Richest	Poorest	asles Richest	DI	Richest	Poorest	live births Richest	Poorest	L,000 Richest	
		quintile	quintile	quintile	quintile	quintile	quintile	quintile	quintile	quintile	quintile	
Armenia	2000 2004	3 41	1 24	68 60	74 ^b 91	89 71	84 ^b 91	52 90	27 65	61 121	30 71	
Bangladesh Benin	2004	22	9	57	83	63	89	90 112	50	198	93	
Bolivia	2001	10	1	62	74	64	85	87	32	119	37	
Brazil	1996	10	3	78	90	66	82	83	29	99	33	
Burkina Faso	2003	26	16	48	71	45	73	97	78	206	144	
Cambodia	2000	35	28	44	82	39	75	110	50	155	64	
Cameroon	2004	22	5	57	86	55	86	101	52	189	88	
Central African Republic	1994-95	25	15	31	80	27	76	132	54	193	98	
Chad	2004	27	19	8 70	38	5 73	42 91	109	101	176 39	187 16	
Colombia Comoros	2005 1996	11 22	3 14	70 51	91 86	73 58	91 92	32 87	14 65	39 129	16 87 ^b	
Côte d'Ivoire	1990	22	14	31	79	26	92 74	117	63	129	97	
Dominican Republic	2002	9	10	83	94	46	66	50	20	66	22	
Egypt, Arab Rep.	2000	5	2	95	99	94	93	76	30	98	34	
Eritrea	1995	27	19	37	92	30	89	74	68	152	104	
Ethiopia	2000	32	29	18	52	14	43	93	95	159	147	
Gabon	2000	15	7	34	71	18	49	57	36	93	55	
Ghana	2003	22	10	74	88	64	87	61	58	128	88	
Guatemala	1998-99	26	10	80	91	74	76	58	39	78	39	
Guinea Haiti	1999 2000	22 18	13 6	33 43	73 63	30 31	69 58	119 100	70 97	230 164	133 109	
India	1998-99	33	21	28	81	36	85	97	38	104	46	
Indonesia	2002-03		 	59	85	42	72	61	17	77	22	
Jordan	1997	7	3	90	93	98	93	35	23	42	25	
Kazakhstan	1999	5	6	74	76 ^b	90	82 ^b	68	42	82	45	
Kenya	2003	22	7	54	88	56	73	96	62	149	91	
Kyrgyz Republic	1997	10	7	82	81	82	87	83	46	96	49	
Madagascar	1997	29	24	32	79	32	81	119	58	195	101	
Malawi Mali	2000 2001	24 26	11 13	80 40	90 77	79 28	93 71	132 137	86 90	231 248	149 148	
Mauritania	2001	20	15	40	86	20 18	61	61	90 62	98	140 79	
Morocco	2003-04	13	3	83	98	89	98	62	24	78	26	
Mozambique	2003	21	7	61	96	52	96	143	71	196	108	
Namibia	2000	22	10	76	86	76	83	36	23	55	31	
Nepal	2001	40	26	61	83	62	85	86	53	130	68	
Nicaragua	2001	13	2	76	94	77	83	50	16	64	19	
Niger	1998	30	26	23	66	9	68	131	86	282	184	
Nigeria	2003	24	10	16	71	7	61	133	52	257	79	
Pakistan	1990–91 1990	33 5	19	28 48	75 69	24 40	64 69	89 43	63 16	125 57	74	
Paraguay Peru	1990 2000	5 13	1	48 81	69 92	40 76	69 93	43 64	16 14	93	20 18	
Philippines	2000		 	70	92 89	64	93	42	14	93 66	21	
Rwanda	2000	 19		84	89	80	89	139	88	246	154	
Senegal	1997		••			••	••	85	45	181	70	
South Africa	1998			74	85	64	85	62	17	87	22	
Tanzania	2004	20	11	65	91	34	36	88	64	137	93	
Тодо	1998	23	10	35	63	29	68	84	66	168	97	
Turkey	1998	13	3	64	89	45	81	68	30	85	33	
Turkmenistan	2000	12	10	91	80	97	86	89	58	106	70	
Uganda Uzbekistan	2000-01	21	10	49	65	35	55	106	60	192	106	
Uzbekistan Vietnam	1996 2002	15	10	96 64	93 98	89 53	82 94	54 39	46 14	70 53	50 16	
Yemen, Rep.	1997	 36	 24	16	90 73	55 14	94 71	109	60	163	73	
Zambia	2001-02	24	17	81	88	74	89	115	57	192	92	
Zimbabwe	1999	16	6	80	86	81	86	59	44	100	62	

Health gaps by income and gender 219

Mate Female Mate Female Mate Female Mate Female Mate Female Mate Armenia 2000 2 3 71 79 90 89 46 42 61 Benih 2001 19 17 69 67 74 71 69 67 74 71 69 67 74 71 69 67 74 71 69 67 74 71 69 67 74 71 69 67 74 71 69 67 74 71 69 67 75 58 90 53 75 54 50 47 103 82 133 82 133 62 66 68 88 74 13 51 200 75 50 49 49 52 152 164 104 190 122 108 122 108 122 108 124		Survey year		ce of child Itrition		Ch immuniza				fant lity rate		er-five lity rate
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Vietnam 2002 84 82 72 73 25 25 34												46
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Yemen, Rep. 1997 33 30 45 40 41 39 98 80 128	•••••••••••••••••••••••••••••••••••••••	1997	 33	 30	45	40	41	39	98	80	128	114
Zambia 2001–02 21 21 83 86 78 82 95 93 176												160
Zimbabwe 1999 12 11 77 81 80 82 63 56 95												85

Description Description Health gaps by income and gender

	Survey year	Pregnant recei prenata	ving		ceptive lence		tended by alth staff ^c	Total f rat	ertility te ^d		usive feeding
		%	5		ed women 15–49	% of	total	births pe	er woman		hildren months
		Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Poorest quintile	Richest quintile	Poorest quintile	Richest quintile
Armenia	2000	85	97	16	29	93	100	2.5	1.6	••	
Bangladesh	2000	25	81	45	50	3	39	4.1	2.2	 62	 31
Benin	2001	73	100	4	15	50	99	7.2	3.5	50	42 ^b
Bolivia	2003	62	98	23	49	27	98	6.7	2.0	79	31
Brazil	1996	72	98	56	77	72	99	4.8	1.7	33	60 ^b
Burkina Faso	2003	56	96	2	27	19	84	6.6	3.6	17	28
Cambodia	2000	22	80	13	25	15	81	4.7	2.2	14	18
Cameroon	2004	65	97	2	27	29	95	6.5	3.2	33	30 ^b
Central African Republic	1994–95	39	91	1	9	14	82	5.1	4.9	9	4
Chad	2004	9	77	0	7	1	51	5.1	6.0	1	2
Colombia	2005	84	99	60	72	72	99	4.1	1.4	60	64
Comoros	1996	67	95	7	19	26	85	6.4	3.0	3 ^b	
Côte d'Ivoire	1994	62	98	1	13	17	84	6.4	3.7	0	5
Dominican Republic	2002	97	99	59	70	94	100	4.5	2.1	18	6
Egypt, Arab Rep.	2000	31	84	43 0 ^e	61	31	94	4.0	2.9	72	57
Eritrea	1995	34	90		19	5	74	8.0	3.7	64	73
Ethiopia	2000	15	60	3	23	1	25	6.3	3.6	63	46 5 ^b
Gabon Ghana	2000 2003	85 83	98 98	6 9	18 26	67 21	97 90	6.3 6.4	3.0 2.8	6 62 ^b	
Guatemala	1998-99	83 37	98	55	32	21	90	7.6	2.0	62	••
Guinea	1998-99	58	97 97	1	9	9 12	92 82	5.8	4.0	9	 8
Haiti	2000	65	91	17	24	4	70	6.8	2.7	40	15 ^b
India	1998-99	44	93	29	55	- 16	84	3.4	1.8	64	37
Indonesia	2002-03	78	99	49	58	40	94	3.0	2.2	58	35
Jordan	1997	93	97	28	47	91	99	5.2	3.1	14	14 ^b
Kazakhstan	1999	97	91	49	55	99	99	3.4	1.2	••	
Kenya	2003	75	94	12	44	17	75	7.6	3.1	22	17
Kyrgyz Republic	1997	96	99	44	54	96	100	4.6	2.0	18 ^b	••
Madagascar	1997	67	96	2	24	30	89	8.1	3.4	57	65
Malawi	2000	89	98	20	40	43	83	7.1	4.8	53	72
Mali	2001	42	92	4	18	22	89	7.3	5.3	38	18
Mauritania	2000-01	33	89	0 ^e	17	15	93	5.4	3.5	28	30
Morocco	2003–04	40	93	51	57	29	95	3.3	1.9	53	36
Mozambique	2003	67	98	14	37	25	89	6.3	3.8	47	27
Namibia	2000	81	96	29	64	55	97	6.0	2.7	100 ^b	85 ^b
Nepal	2001	30	80	24	55	4	45	5.3	2.3	76	67
Nicaragua	2001	69	97	50	71	78	99	5.6	2.1	53	15 ^b
Niger	1998	24	85	1	18	4	63	8.4	5.7	1	3
Nigeria	2003	37	96 72	4	21	13	85	6.5	4.2	15	34
Pakistan	1990–91 1990	8 73	72	21	23 46	5	55 98	5.1	4.0	36 7	9
Paraguay Peru	1990 2000	73 41	98 74	21 37	46 58	41 13	98 88	7.9 5.5	2.7 1.6	7 88	59
Philippines	2000	41 72	74 97	37 24	35	25	92	5.5 5.9	2.0	88 60	59 20
Rwanda	2003	90	97 95	24	15	25 17	92 60	5.9 6.0	2.0 5.4	89	79
Senegal	1997	90 67	95 97	2 1	24	20	86	7.4	3.6	89 13	79 19
South Africa	1997	96	94	34	70	68	98	4.8	1.9	15	19 11 ^b
Tanzania	2004	91	97	11	36	31	87	7.3	3.3	58	55
Togo	1998	69	97	3	13	25	91	7.3	2.9	7	34
Turkey	1998	38	96	24	48	53	98	3.9	1.7	10	4 ^b
Turkmenistan	2000	98	97	51	50	97	98	3.4	2.1	11	28 ^b
Uganda	2000-01	88	98	11	41	20	77	8.5	4.1	73	59
Uzbekistan	1996	93	96	46	52	92	100	4.4	2.2		••
Vietnam	2002	68	100	58	52	58	100	2.2	1.4	18 ^b	••
Yemen, Rep.	1997	17	68	1	24	7	50	7.3	4.7	20	13
Zambia	2001–02	89	99	11	53	20	91	7.3	3.6	39	70 ^b
Zimbabwe	1999	94	97	41	67	57	94	4.9	2.6	36	46 ^b

a. Refers to children who were immunized at any time before the survey. b. Data contain large sampling errors because of the small number of cases. c. Based on births in the five years before the survey. d. Based on information in the three years before the survey. e. Less than 0.5.

The data in the table describe the health status and use of health services by individuals in different socioeconomic groups within countries. The data are from Demographic and Health Surveys conducted by Macro International with the support of the U.S. Agency for International Development. These largescale household sample surveys, conducted periodically in developing countries, collect information on a large number of health, nutrition, and population measures as well as on respondents' social, demographic, and economic characteristics using a standard set of questionnaires. The data presented here draw on responses to individual and household questionnaires.

The table defines socioeconomic status in terms of a household's assets, including ownership of consumer items, features of the household's dwelling, and other characteristics related to wealth. Each household asset on which information was collected was assigned a weight generated through principalcomponent analysis. The resulting scores were standardized in relation to a standard normal distribution with a mean of zero and a standard deviation of one. The standardized scores were then used to create break-points defining wealth quintiles, expressed as quintiles of individuals in the population rather than quintiles of individuals at risk with respect to any one health indicator.

The choice of the asset index for defining socioeconomic status was based on pragmatic rather than conceptual considerations: Demographic and Health Surveys do not provide income or consumption data but do have detailed information on households' ownership of consumer goods and access to a variety of goods and services. Like income or consumption, the asset index defines disparities in primarily economic terms. It therefore excludes other possibilities of disparities among groups, such as those based on gender, education, ethnic background, or other facets of social exclusion. To that extent the index provides only a partial view of the multidimensional concepts of poverty, inequality, and inequity.

Creating one index that includes all asset indicators limits the types of analysis that can be performed. In particular, the use of a unified index does not permit a disaggregated analysis to examine which asset indicators have a more or less important association with health status or use of health services. In addition, some asset indicators may reflect household wealth better in some countries than in others—or reflect different degrees of wealth in different countries. Taking such information into account and creating country-specific asset indexes with country-specific choices of asset indicators might produce a more effective and accurate index for each country. The asset index used in the table does not have this flexibility.

The analysis was carried out for 56 countries, with the results issued in country reports. The table shows the estimates for the poorest and richest quintiles and by sex only; the full set of estimates for up to 117 indicators is available in the country reports (see *Data sources*). The data in this table will differ from data for similar indicators in preceding tables either because the indicator refers to a period a few years preceding the survey date or because the indicator definition or methodology is different.

Definitions

• Survey year is the year in which the underlying data were collected. • Prevalence of child malnutrition is the percentage of children under age five whose weight for age is between two and three standard deviations below the median reference standard for their age as established by the World Health Organization, the U.S. Centers for Disease Control and Prevention, and the U.S. National Center for Health Statistics. These data may differ from those in table 2.17. • Child immunization rate is the percentage of children ages 12-23 months at the time of the survey who received vaccinations at any time before the survey for four diseases-measles and diphtheria, pertussis (whooping cough), and tetanus (DPT). These data may differ from those in table 2.15. • Infant mortality rate is the number of infants dving before reaching one year of age, per 1,000 live births in a given year. Data in the table are based on births in the 10 years preceding the survey and may therefore differ from the estimates in table 2.20. • Under-five mortality rate is the probability that a newborn baby will die before reaching age five, if subject to current age-specific mortality rates. The probability is expressed as a rate per 1.000. Data in the table are based on births in the 10 years preceding the survey and may therefore differ from the estimates in table 2.20. • Pregnant women receiving prenatal care are the percentage of women with one or more births during the five years preceding the survey, who were attended at least once during pregnancy by skilled health personnel for reasons related to pregnancy. These data may differ from those in table 2.16. • Contraceptive prevalence is the percentage of women married or in-union ages 15-49 who are practicing, or whose

sexual partners are practicing, any modern method of contraception. These data may differ from those in table 2.16. • Births attended by skilled health staff are the percentage of deliveries attended by personnel trained to give the necessary supervision, care, and advice to women during pregnancy, labor, and the postpartum period: to conduct deliveries on their own: and to care for newborns. Skilled health staff include doctors, nurses, and trained midwives, but exclude trained or untrained traditional birth attendants. Data in the tables are based on births in the five years preceding the survey and may therefore differ from the estimates in table 2.16. • Total fertility rate is the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with current age-specific fertility rates. Data in the table are based on the information in the three years preceding the survey and may therefore differ from the estimates in table 2.16. • Exclusive breastfeeding refers to the percentage of children ages 0-3 months who received only the breast milk in the 24 hours preceding the survey. These data differ from those in table 2.17 because the definition differs.

Data sources

Data on health gaps by income and gender are from an analysis of Demographic and Health Surveys by the World Bank and Macro International. Country reports are available at www.worldbank. org/povertyandhealth/countrydata.

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2.20 Mortality

	•	Life expectancy at birth						er-five ity rate		ortality te		nortality te		ival to e 65
	уеа	ars	per 1,000) live births	per 2	L,000	per 1 Male	L,000 Female	per 1 Male	L,000 Female	% of Male	cohort Female		
	1990	2005	1990	2005	1990	2005	1997–2005 ^a	1997–2005 ^a	2001–05 ^a	2001–05 ^a	2005	2005		
Afghanistan			••					·-						
Albania	72	75	37	16	45	18			96	55	81	88		
Algeria	67	72	54	34	69	39			132	112	76	80		
Angola	40	41	154	154	260	260		••	505	461	29	34		
Argentina	72	75	26	15	29	18	·:		174	87	73	86		
Armenia	68	73	46	26	54	29	5	3	204	92	67	82		
Australia	77	81	8	5	10	6	••	••	89	50	86	92		
Austria	76 71	79 72	8 84	4 74	10 105	5 89	••		120 226	59 104	83 61	91 77		
Azerbaijan Bangladesh	55	64	100	54	149	73	 24	 29	220	205	61	66		
Belarus	71	68	100	10	149	12	•••••••••••••••••••••••••••••••••••••••	••••••	357	128	52	80		
Belgium	71	79	8	4	19	5			125	67	83	91		
Benin	53	55	111	89	185	150	 72	 79	309	277	50	55		
Bolivia	59	65	89	52	125	65	25	29	253	192	61	69		
Bosnia and Herzegovina	72	74	18	13	22	15			152	78	75	86		
Botswana	64	35	45	87	58	120		••	841	853	11	11		
Brazil	66	71	50	31	60	33		••	252	132	65	79		
Bulgaria	72	73	15	12	19	15	••		216	91	70	85		
Burkina Faso	48	48	113	96	210	191	110	113	407	386	40	43		
Burundi	44	45	114	114	190	190		••	512	492	32	35		
Cambodia	54	57	80	68	115	87	34	30	372	208	47	63		
Cameroon	52	46	85	87	139	149	73	72	508	499	34	36		
Canada	77	80	7	5	8	6	••		97	60	86	91		
Central African Republic	48	39	102	115	168	193			658	662	22	24		
Chad	46	44	120	124	201	208	96	101	495	471	32	35		
Chile	74	78	18	8	21	10	••		131	65	80	89		
China	69	72	38	23	49	27		••	141	87	75	82		
Hong Kong, China	77	82							79	34	87	94		
Colombia Congo, Dem. Rep.	68 46	73 44	26 129	17 129	35 205	21 205	4	3	182 486	103 460	72 32	82 36		
Congo, Rep.	40 54	53	83	81	110	108	••	••	480	400	32 40	46		
Costa Rica	77	79	16	11	110	108	••	••	430	66	82	40 89		
Côte d'Ivoire	52	46	103	118	157	195	 83	 58	474	461	35	38		
Croatia	72	76	11	6	12	7			164	67	74	89		
Cuba	75	77	11	6	13				121	81	81	87		
Czech Republic	71	76	11	3	13	4			161	69	76	89		
Denmark	75	78	8	4	9	5			121	74	82	88		
Dominican Republic	66	68	50	26	65	31	9	9	267	145	62	76		
Ecuador	69	75	43	22	57	25			184	105	73	83		
Egypt, Arab Rep.	63	71	76	28	104	33	15	16	171	104	71	81		
El Salvador	66	71	47	23	60	27			221	137	68	79		
Eritrea	48	55	88	50	147	78	55	50	455	384	39	48		
Estonia	69	73	12	6	16	7		••	288	94	60	85		
Ethiopia	45	43	122	80	204	127	83	86	451	425	37	41		
Finland	75	79	6	3	7	4			136	61	82	92		
France	77	80	7	4	9	5		••	135	60	82	92		
Gabon	60	54	60	60	92	91	32	33	438	432	44	46		
Gambia, The	50	57	103	97	151	137			320	281	51	56		
Georgia	70	71	43	41	47	45			214	82	67	83		
Germany	75	79	7	4	9	5			119	61	83	91		
Ghana	56	57	75	68	122	112	44	52	344	330	51	54		
Greece	77	79 68	10	4	11	5	 15	 10	112	49	83	92		
Guatemala Guinea	62 47	68 54	60 139	32 97	82 234	43 160	15 101	18 98	296 324	172 303	61 49	74 52		
Guinea-Bissau	47	54 45	139	97	234 253	200			465	423	49 34	52 39		
uunca-uissau	42	40	102	124	200	120	••	 54	400	423	J4	39		



		Life expectancy at birth		-			ra	te	ra	te	Survival to age 65		
							per 1	L,000	per 1	.,000	% of	cohort	
	yea 1990	ars 2005	per 1,000 1990	live births 2005	per 1 1990	,000 2005	Male 1997–2005 ^a	Female 1997–2005 ª	Male 2001–05 ^a	Female 2001–05 ^a	Male 2005	Female 2005	
Honduras	65	69	44	31	59	40			245	201	65	72	
Hungary	69	73	15	7	17				261	111	67	85	
India	59	64	80	56	123	74	25	37	235	154	61	69	
Indonesia	62	68	60	28	91	36	13	11	205	155	66	74	
Iran, Islamic Rep.	65	71	54	31	72	36		••	158	104	73	81	
Iraq	62		40	••	50		••		••		••		
Ireland	75	79	8	5	9	6			94	56	84	90	
Israel	77	80	10	5	12	6		••	86	46	86	92	
Italy	77	80	8	4	9	4		••	92	48	85	92	
Jamaica	71	71	17	17	20	20			237	194	68	73	
Japan	79	82	5	3	6	4	••		92	45	86	94	
Jordan	68	72	33	22	40	26	5	5	165	123	73	79	
Kazakhstan	68	66	53	63	63	73	11	6	343	152	49	73	
Kenya	58	49	64	79	97	120	42	39	479	551	38	35	
Korea, Dem. Rep.	65	64	42	42	55	55	••	••	305	208	53	67	
Korea, Rep.	71	78	8	5	9	5		••	138	54	79	91	
Kuwait	75	78	14	9	16	11			88	58	83	88	
Kyrgyz Republic	68	68	68	58	80	67	10	11	264	124	60	77	
Lao PDR	50	56 71	120 14	62 9	163	79	••	••	318	269	50 62	55 83	
Latvia Lebanon	69 69	71	32	27	18 37	11 30	••		300 151	116 99	62 74	83	
Lesotho	57	35	32 81	102	101	132	••	••	853	817	10	14	
Liberia	43	42	157	157	235	235	••	••	535	500	28	32	
Libya	68	74	35	18	41	19		••	137	93	76	84	
Lithuania	71	71	10	7	13	9			303	106	62	86	
Macedonia, FYR	72	74	33	15	38	17			139	81	76	85	
Madagascar	51	56	103	74	168	119	45	45	337	294	49	54	
Malawi	46	41	131	79	221	125	101	102	635	653	25	25	
Malaysia	70	74	16	10	22	12			154	89	75	84	
Mali	46	49	140	120	250	218	132	125	358	323	42	46	
Mauritania	49	54	85	78	133	125	38	38	341	284	46	52	
Mauritius	69	73	20	13	23	15		••	207	110	68	82	
Mexico	71	75	37	22	46	27	••	••	155	86	76	85	
Moldova	68	68	29	14	35	16	••		276	137	60	77	
Mongolia	63	67	78	39	108	49	••		237	168	60	69	
Morocco	64	70	69	36	89	40	9	11	162	109	72	80	
Mozambique	43	42	158	100	235	145	61	64	600	593	26	28	
Myanmar	56	61	91	75	130	105	••		301	200	54	65	
Namibia	62	47	60	46	86	62	22	20	620	625	30	31	
Nepal	55	63	100	56	145	74	28	40	248	222	60	63	
Netherlands	77	79	7	4	9	5			90	64	84	90	
New Zealand	75	80	8	5	11	6			99	65	85	90	
Nicaragua	64	70	52	30	68	37	10	9	219	146	68	76	
Niger	40	45	191	150	320	256	184	202	368	339	39	41	
Nigeria	46	44	120	100	230	194	120	123	499	495	32	33	
Norway	77	80	7	3	9	4	••	••	92	57	86	91	
Oman Pakistan	70 59	75 65	25 100	10 79	32	12 99			114	85	80 64	85 67	
Pakistan Panama	59 72	65 75	27	79 19	130 34	99 24	••	••	180 152	152 83	64 77	67 86	
Papua New Guinea	52	75 56	69	55	34 94	74	••	••	388	349	44	49	
Paraguay	52 68	56 71	33	20	94 41	23	••		159	106	44 72	49 81	
Peru	66	71	58	20	78	23	 19	 17	186	120	69	78	
Philippines	66	71	41	25	62	33	14	9	169	116	72	80	
Poland	71	75	19	6	18	7			189	75	71	87	
	74	78	11	4	14	5		•••	139	58	81	91	
Portugal									186	69	74	89	



2.20 Mortality

	•	Life expectancy at birth		ncy Infant mortality rate			Child m ra	ortality te	Adult m ra	-		val to e 65
	yea: 1990	rs 2005	per 1,000 1990	live births 2005	per 1 1990	L,000 2005	Male	.,000 Female 1997–2005 ª	per 1 Male 2001–05 ª	.,000 Female 2001–05 ª	% of Male 2005	cohort Female 2005
Romania	70	72	27	16	31	19	••	••	223	96	67	84
Russian Federation	69	65	21	14	27	18			467	173	45	76
Rwanda	31	44	103	118	173	203	105	97	505	455	31	36
Saudi Arabia	68	73	35	21	44	26	3	4	148	101	77	82
Senegal	53	56	72	61	149	119	76	74	311	262	51	56
Serbia and Montenegro	72	73	24	12	28	15		••	164	89	73	85
Sierra Leone	39	41	175	165	302	282			432	379	32	37
Singapore	74	80	7	3	8	3			85	50	85	91
Slovak Republic	71	74	12	7	14	8			202	78	71	87
Slovenia	73	78	8	3	10	4			141	63	78	89
Somalia	42	48	133	133	225	225	••		395	341	39	44
South Africa	62	48	45	55	60	68	18	13	658	638	25	30
Spain	77	81	8	4	9	5	••	••	113	46	83	93
Sri Lanka	71	75	26	12	32	14	••	••	130	77	78	87
Sudan	53	57	74	62	120	90	••	••	339	299	50	55
Swaziland	57	41	78	110	110	160			885	893	8	8
Sweden	78	81	6	3	7	4			82	51	87	92
Switzerland	77	81	7	4	9	5			87	47	86	92
Syrian Arab Republic	68	74	31	14	39	15			130	90	77	84
Tajikistan	63	64	91	59	115	71			219	146	60	70
Tanzania	53	46	102	76	161	122	56	52	507	511	34	36
Thailand	68	71	31	18	37	21		••	228	119	68	82
Togo	57	55	88	78	152	139	73	65	369	310	47	55
Trinidad and Tobago	71	70	28	17	33	19			260	186	65	75
Tunisia	70	73	41	20	52	24			134	77	77	86
Turkey	66	71	67	26	82	29	10	13	186	115	69	79
Turkmenistan	63	63	80	81	97	104	19	17	305	156	53	71
Uganda	46	50	93	79	160	136	78	70	459	447	39	41
Ukraine	70	68	19	13	26	17			404	150	47	76
United Arab Emirates	73	79	13	8	15	9			78	50	86	91
United Kingdom	76	79	8	5	10	6			101	63	84	90
United States	75	78	9	6	11	7			144	84	80	87
Uruguay	73	76	21	14	23	15			161	83	74	87
Uzbekistan	69	67	65	57	79	68			247	145	61	74
Venezuela, RB	71	74	27	18	33	21	••		184	93	73	84
Vietnam	65	71	38	16	53	19	10	7	173	121	73	80
West Bank and Gaza	69	73	34	21	40	23			138	101	76	83
Yemen, Rep.	55	62	98	76	139	102	33	36	267	222	57	63
Zambia	46	38	101	102	180	182	89	74	672	713	21	20
Zimbabwe	59	37	53	81	80	132	35	31	772	808	16	14
World	65 w	68 w	64 w	51 w	95 w	75 w			232 w	164 w	67 w	75 w
Low income	56	59	94	75	147	114			290	237	55	61
Middle income	68	70	44	30	58	37			196	120	70	79
Lower middle income	67	71	46	31	62	39			176	111	71	80
Upper middle income	69	70	33	22	41	27			289	159	62	78
Low & middle income	63	65	69	56	103	82			235	167	64	72
East Asia & Pacific	67	71	43	26	59	33			162	105	73	80
Europe & Central Asia	69	69	39	27	48	32			320	136	58	79
Latin America & Carib.	68	72	43	26	54	31			208	118	70	81
Middle East & N. Africa	64	70	60	43	80	53			171	119	71	79
South Asia	59	63	86	62	129	83			230	161	61	68
Sub-Saharan Africa	49	47	109	96	185	163			483	470	35	38
High income	76	79	9	6	11	7			122	65	82	90
Europe EMU	76	80	8	4	9	5			118	57	83	92

a. Data are for the most recent year available.



Mortality rates for different age groups (infants, children, and adults) and overall indicators of mortality (life expectancy at birth or survival to a given age) are important indicators of health status in a country. Because data on the incidence and prevalence of diseases (morbidity data) are frequently unavailable, mortality rates are often used to identify vulnerable populations. And they are among the indicators most frequently used to compare levels of socioeconomic development across countries.

The main sources of mortality data are vital registration systems and direct or indirect estimates based on sample surveys or censuses. A "complete" vital registration system—one covering at least 90 percent of vital events in the population—is the best source of age-specific mortality data. But such systems are fairly uncommon in developing countries. Thus estimates must be obtained from sample surveys or derived by applying indirect estimation techniques to registration, census, or survey data. Survey data are subject to recall error, and surveys estimating infant deaths require large samples because households in which a birth or an infant death has occurred during a given year cannot ordinarily be pre-selected for sampling. Indirect estimates rely on estimated actuarial "life" tables that may be inappropriate for the population concerned. Because life expectancy at birth is constructed using infant mortality data and model life tables, similar reliability issues arise for this indicator.

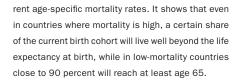
Life expectancy at birth and age-specific mortality rates are generally estimates based on vital registration or the most recent census or survey available (see *Primary data documentation*). Extrapolations based on outdated surveys may not be reliable for monitoring changes in health status or for comparative analytical work.

To produce harmonized estimates of infant and under-five mortality rates that use all available information in a transparent way, the United Nations Children's Fund (UNICEF) and the World Bank developed and adopted a methodology that fits a regression line to the relationship between mortality rates and their reference dates using weighted least squares. (For further discussion of methodology for childhood mortality estimates, see Hill and others 1999.)

Infant and child mortality rates are higher for boys than for girls in countries in which parental gender preferences are insignificant. Child mortality captures the effect of gender discrimination better than does infant mortality, as malnutrition and medical interventions are more important in this age group. Where female child mortality is higher, as in some countries in South Asia, girls probably have unequal access to resources.

Adult mortality rates have increased in many countries in Sub-Saharan Africa and Europe and Central Asia. In Sub-Saharan Africa the increase stems from AIDS-related mortality and affects both men and women. In Europe and Central Asia the causes are more diverse and affect men more. They include a high prevalence of smoking, a high-fat diet, excessive alcohol use, and stressful conditions related to the economic transition.

The percentage of a cohort surviving to age 65 reflects both child and adult mortality rates. Like life expectancy, it is a synthetic measure based on cur-

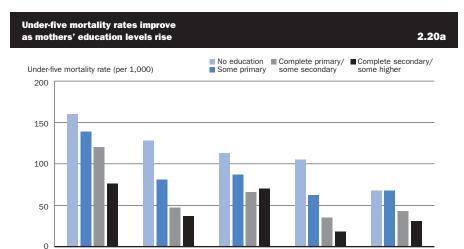


Definitions

· Life expectancy at birth is the number of years a newborn infant would live if prevailing patterns of mortality at the time of its birth were to stay the same throughout its life. • Infant mortality rate is the number of infants dying before reaching one year of age, per 1,000 live births in a given year. • Underfive mortality rate is the probability that a newborn baby will die before reaching age five, if subject to current age-specific mortality rates. The probability is expressed as a rate per 1,000. • Child mortality rate is the probability of dying between the ages of one and five, if subject to current age-specific mortality rates. The probability is expressed as a rate per 1.000. • Adult mortality rate is the probability of dying between the ages of 15 and 60-that is, the probability of a 15-year-old dving before reaching age 60-if subject to current age-specific mortality rates between those ages. • Survival to age 65 refers to the percentage of a cohort of newborn infants that would survive to age 65, if subject to current agespecific mortality rates.

Data sources

Data on infant and under-five mortality are the harmonized estimates of the World Health Organization, UNICEE and the World Bank, based mainly on household surveys, censuses, and vital registration data, supplemented by the World Bank's estimates based on household surveys and vital registration data. Other estimates are compiled and produced by the World Bank's Human Development Network and Development Data Group in consultation with its operational staff and country offices. Important inputs to the World Bank's demographic work come from the United Nations Population Division's World Population Prospects: The 2004 Revision, census reports and other statistical publications from national statistical offices. Demographic and Health Surveys by Macro International, and the Human Mortality Database by the University of California, Berkeley, and the Max Planck Institute for Demographic Research (www.mortality.org/).



Bangladesh 2004 Philippines 2003 Egypt 2005

Bolivia 2003

Tanzania 2004–05

Source: Demographic and Health Surveys.