WORLD VIEW

Millennium Development Eradicate extreme poverty Improve maternal health and hunger Goals **Achieve universal primary** Combat HIV/AIDS, malaria, education and other diseases Promote gender equality and **Ensure environmental** empower women sustainability Develop a global partnership **Reduce child mortality** for development

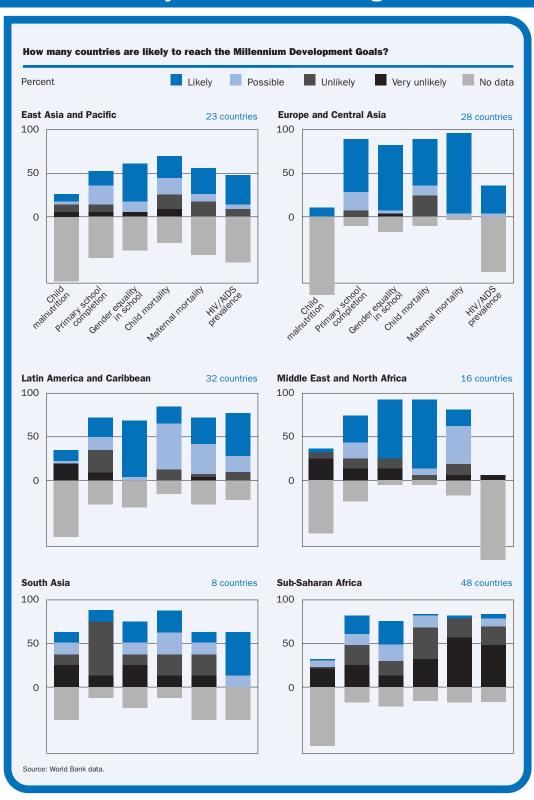
"We will spare no effort to free our fellow men, women, and children

At the Millennium Summit in September 2000 the states of the United Nations reaffirmed their commitment to working toward a world in which sustaining development and eliminating poverty would have the highest priority. The Millennium Development Goals grew out of the agreements and resolutions of world conferences organized by the United Nations in the past decade. The goals have been commonly accepted as a framework for measuring development progress.

The goals focus the efforts of the world community on achieving significant, measurable improvements in people's lives. They establish yardsticks for measuring results, not just for developing countries but for rich countries that help to fund development programs and for the multilateral institutions that help countries implement them. The first seven goals are mutually reinforcing and are directed at reducing poverty in all its forms. The last goal—global partnership for development—is about the means to achieve the first seven. Many of the poorest countries will need additional assistance and must look to the rich countries to provide it. Countries that are poor and heavily indebted will need further help in reducing their debt burdens. And all countries will benefit if trade barriers are lowered, allowing a freer exchange of goods and services.

For the poorest countries many of the goals seem far out of reach. Even in better-off countries there may be regions or groups that lag behind. So countries need to set their own goals and work to ensure that poor people are included in the benefits of development.

from the abject and dehumanizing conditions



Are we reaching the goals?

The eight Millennium Development Goals comprise 18 targets and 48 indicators. Where possible, the targets are given as quantified, time-bound values for specific indicators. Data for the indicators come from official statistics and surveys conducted by countries and international agencies. Most of the data are included in this volume, but missing data and the lack of reliable statistics limit the ability to monitor progress.

How many countries are likely to reach the Millennium Development Goals? Much depends on whether the progress in the past decade can be sustained—or accelerated in countries falling behind. The charts show the prospects for low- and middle-income countries of reaching six of the targets of the Millennium Development Goals.

Prospects for each country have been assessed based on their its of progress over the past decade and, in some cases, on its level of attainment. For two indicators lacking time-series data maternal mortality and HIV prevalence—prospects have been assessed based on level alone. The assessments were made using data available in January 2002 and may be revised in the future.

These assessments are based on past performance and existing data. They are not a final verdict, but they are a warning. Too many countries are falling short of the goals or lack the data to monitor progress. Now is the time to take actions to accelerate progress, not 5 or 10 years from now.

of extreme poverty "

United Nations Millennium Declaration, September 2000

Regional assessments

- Countries in dark blue made progress in the 1990s fast enough to attain the target value in the specified time period (by 2005 for gender equality and by 2015 for all others). They are "likely" to achieve the goals.
- Countries in light blue made progress, but too slowly to reach the goals in the time specified. Continuing at the same rate, they will need as much as twice the time and accurate picture of their as the "likely" countries to reach the goals. Rated "possible," they need to accelerate progress.

- · Countries in medium gray made still slower progress. They are "unlikely" to reach the goals. To reach them, they will need to make progress at unprecedented rates.
- · For countries in black, conditions have worsened since 1990, or they currently have very high maternal mortality and HIV/AIDS prevalence. They are "very unlikely" to reach the goals.
- Countries in light gray lack adequate data to measure progress. Improvements in the statistical systems of many countries are needed to provide a complete progress.

The indicators and their targets

- · Child malnutrition Indicator: Prevalence of malnutrition among children under age five, measured by weight for age (wasting). Target: Reduce by half between 1990 and 2015.
- Primary school completion Indicator: Percentage of children of appropriate age completing last grade of official primary school. Target: Achieve 100 percent completion by 2015.
- · Gender equality in school Indicator: Ratio of girls to boys enrolled in primary and secondary school.

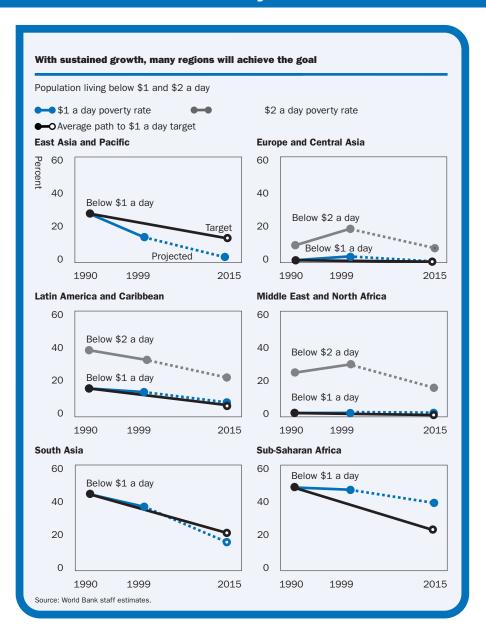
Target: Achieve equality in enrollment ratios by 2005.

- Child mortality Indicator: Under-five child mortality. Target: Reduce by two-thirds between 1990 and 2015.
- · Maternal mortality Indicator: Maternal deaths per 100,000 live births.

Target: Reduce by three-quarters between 1990 and 2015.

 HIV/AIDS prevalence Indica tor: Prevalence of HIV/AIDS among young women (ages 15-24). Target: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

Poverty



Eradicate extreme poverty . . .

During the 1990s GDP per capita in developing countries grew by 1.6 percent a year, and the proportion of people living on less than \$1 a day fell from 29 percent to 23 percent. By 1999 there were 125 million fewer people living in extreme poverty, continuing a downward trend that began in the early 1980s. But much of the progress has been in Asia, where sustained growth in China lifted nearly 150 million people out of poverty after 1990. Faster growth in parts of South Asia has also led to modest declines in the number of people living in extreme

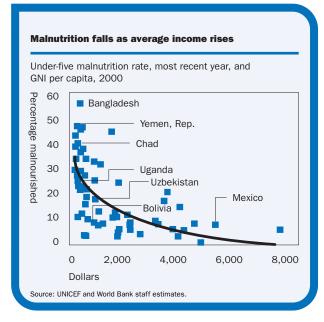
poverty. In other regions the number of poor people has increased, even as the proportion in extreme poverty has fallen.

The Millennium Development Goals call for reducing the proportion of people living on less than \$1 a day to half the 1990 level by 2015—from 29 percent of all people in low- and middle-income economies to 14.5 percent.
Recent projections by the World
Bank show that it is possible to
achieve that goal in most regions
if growth in per capita income
accelerates to an average of 3.6
percent a year. This would be
nearly twice the rate achieved
over the past decade, but such
growth is possible.

... and hunger

As average incomes grow, extreme poverty declines and children become better nourished. Very few upper-middle-income countries report significant levels of underweight children. But the data are incomplete, and more systematic monitoring is needed.

Most regions of the world have made dramatic progress in reducing the proportion of underweight children. But progress has been slowing, leaving the prospect of reaching the targets of the Millennium Development Goals in doubt.



Malnutrition rates among children under five in the developing world fell from 46.5 percent in 1970 to 27 percent in 2000. Even so, 150 million children in low- and middle-income economies are still malnourished, and at current rates of improvement 140 million children will be underweight in 2020.

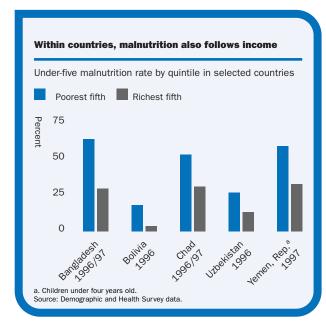
The number of undernourished people in the developing world fell from 840 million in 1990 to about 777 million in 1997–99 and is expected to decrease by 200 million more by 2015. But greater reductions will be needed to reach the World Food Summit goal of cutting the number of undernourished people in half by 2015.

Malnutrition and hunger

Improving but persistent

Malnutrition in children is caused by consuming too little food energy to meet the body's needs. Adding to the problem are diets that lack essential nutrients, illnesses that deplete those nutrients, and undernourished mothers who give birth to underweight children.

Just as poor countries tend to have high rates of malnutrition, the poorest segment of the population within a country is the most malnourished. Even in countries with relatively low average rates of malnutrition, poor people suffer disproportionately.

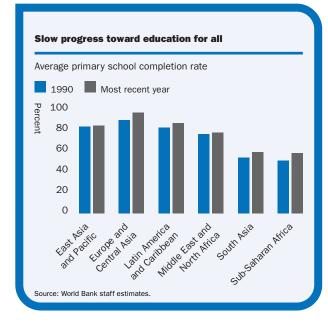


Raising incomes and reducing poverty is part of the answer. But even poor countries need not suffer high rates of child malnutrition. They can make big improvements through such low-cost measures as nutrition education and food supplementation and fortification. Other things that help include improving the status and education of women, increasing government commitment to health and nutrition, and developing an effective health infrastructure.

Achieve universal primary education

Education is a powerful instrument for reducing poverty and inequality, improving health and social wellbeing, and laying the basis for sustained economic growth. It is essential for building democratic societies and dynamic, globally competitive economies.

The 1990 Conference on Education for All, held in Jomtien, Thailand, pledged to achieve universal primary education by 2000. But in 1999 there were still 120 million primary-school-age children not in school, 53 percent of them girls



and 74 percent living in South Asia and Sub-Saharan Africa. The Millennium Development Goals set a more realistic but still difficult deadline of 2015 when all children everywhere should be able to complete a full course of primary schooling.

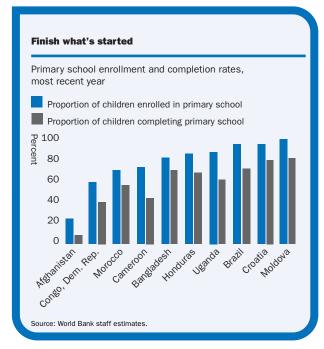
Recent work at the World Bank (2002) has produced new estimates of primary completion rates. These show small improvements everywhere, but progress overall has been too slow to reach the goal by 2015.

What can be done? Lower costs to students and their families. Improve the quality of schools. And increase the efficiency of the school system.

Education

Reading, writing, and retention

To reach the goal, schools must first enroll all school-age children and then keep them in school for the full course of the primary stage. In many places schools fail to do both. As a result, there can be large gaps between reported enrollment, attendance, and completion rates. Disparities arise for many reasons. Children may start school late or they may repeat grades, putting them off track. Frequently children drop out of school because of their own or a family member's illness or because their families need their labor. If they return, they re-enroll in the same grade the following year. But many never finish.

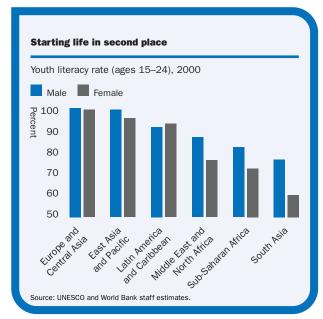


Some 79 developing countries have already built sufficient schools and places to educate 100 percent of their primary-school-age children.
Only 27 of those countries retain 100 percent of children in school through primary graduation.

Since 1990, 17 middle-income and 21 low-income countries have seen completion rates stagnate or decline. Afghanistan fell from an already low 22 percent in 1990 to an estimated 8 percent. A number of middle-income Gulf states, Latin American countries such as Trinidad and Tobago and República Bolivariana de Venezuela, and low-income countries such as Cameroon, Kenya, Madagascar, and Zambia have also lost ground.

Promote gender equality and empower women

In most low-income countries girls are less likely to attend school than boys. And even when girls start school at the same rate as boys, they are more likely to drop out—often because parents think boys' schooling is more important or because girls' work at home seems more valuable than schooling. Concerns about the safety of girls or traditional biases against educating them can mean that they never start school or do not continue beyond the primary stage.



Girls reach adulthood with lower literacy rates than boys (except in Latin America and the Caribbean). Informal training, such as adult literacy classes, can make up some of the difference. But many girls, who begin with fewer opportunities than boys, are at a permanent disadvantage.

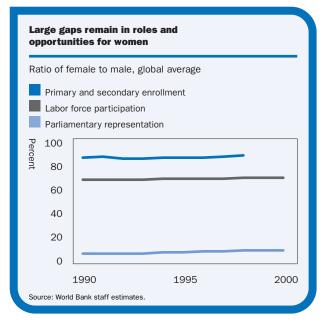
Gender equality

Beyond schooling

Educating women and giving them equal rights is important for many reasons:

- It increases their productivity, raising output and reducing poverty.
- It promotes gender equality within households and removes constraints on women's decision-making—thus reducing fertility rates and improving maternal health.
- It increases children's chances of surviving to become healthier and better educated because educated women do a better job caring for children.

Equal access to education is an important step toward greater gender

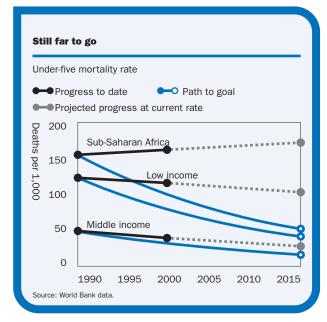


equality, but it is not the only one. Even as gender disparities in education diminish, other differences persist everywhere—in legal rights, labor market opportunities, and the ability to participate in public life and development decision-making.

Recognizing that empowering women extends beyond the class-room and the household, the Millennium Development Goals include three additional indicators of gender equality: illiteracy rates, the proportion of women working outside agriculture, and the proportion of seats women hold in national parliaments. These indicators suggest that even after reaching the goal of full participation in primary and secondary education, the world will still fall short of gender equality.

Reduce child mortality

Deaths of infants and children dropped rapidly over the past 25 years. The number of deaths of children under five fell from 15 million in 1980 to about 11 million in 1990, a period when the number of children being born was still rising. This was success borne on many wings—vaccination programs, the spread of oral rehydration therapy, wider availability of antibiotics to treat pneumonia, and better economic and social conditions all contributed.



Rapid improvements before 1990 gave hope that mortality rates of children under five could be cut by two-thirds in the following 25 years. But progress slowed almost everywhere in the 1990s, and in parts of Africa infant and child mortality rates increased

At the end of the 20th century only 36 developing countries were making fast enough progress to reduce under-five child mortality to a third of its 1990 level by 2015. Most of those are middle-income countries, although a few poor countries—notably Bangladesh and Indonesia—and some of the poorest countries of the former Soviet Union are on track to achieve the goal.

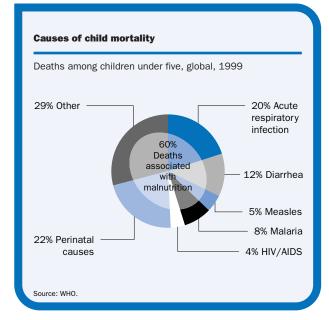
Infant and child mortality

Addressing the causes

For 70 percent of children who die before their fifth birthday the cause is a disease or combination of diseases and malnutrition that would be readily preventable in a high-income country: acute respiratory infections, diarrhea, measles, and malaria.

In some parts of the world vaccination coverage has begun to decline.

In 1999, 55 countries had not attained 80 percent coverage of measles vaccinations among children under one year; another 48 reported no data.

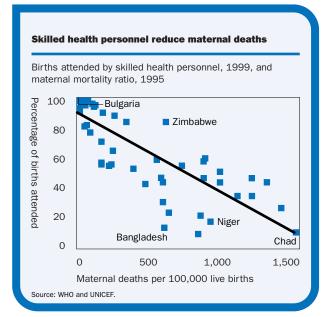


One-third of child deaths occur in the neonatal period. They are caused by poor maternal health and lack of care during pregnancy and delivery.

To ensure continuing improvements, disease-specific vaccination and treatment programs must be sustained while new strategies address unmet needs of unserved populations. In all countries the poorest people are least likely to receive health services and so have the highest mortality rates. Addressing the underlying causes of poverty will improve health, and better health will reduce poverty.

Improve maternal health

In 1995 more than 500,000 women died from complications of pregnancy and childbirth, most of them in developing countries, where these complications are the leading cause of death among women of reproductive age. More than half of all maternal deaths occur in Africa. In many African countries one mother dies for every 100 live births. In Rwanda there were more than 2 deaths for every 100 live births. Compare that with Greece, which reported only 2 maternal deaths per 100,000 live births.



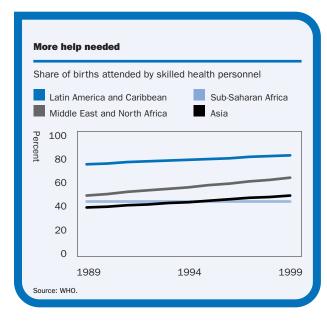
Many women deliver their children alone or with traditional birth attendants who lack the skills to deal with complications. Skilled birth attendants help to recognize and prevent medical crises. They also provide mothers with basic information about care for themselves and their children before and after giving birth. Lack of current data on maternal deaths limits monitoring of trends over time.

Maternal mortality

Preventing maternal deaths

Women die in childbirth for many reasons, most of them preventable or treatable using cost-effective interventions:

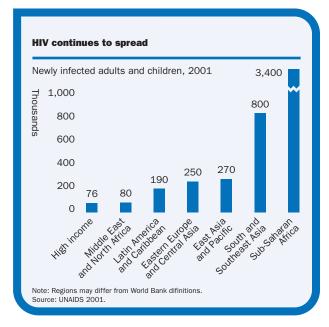
Reduce the number of pregnancies. Early childbearing and closely spaced pregnancies increase the risks for mothers and children. And in some countries unsafe abortions add to the toll. Although many personal and cultural factors affect the desired family size, access to family planning services helps women make decisions about whether and when to have children.



- Prevent complications during pregnancy and childbirth. Inadequate nutrition, unsafe sex, and poor health care during pregnancy increase the risk of health problems during pregnancy and childbirth. Yet in some countries fewer than 25 percent of pregnant women visit a clinic for care.
- Prevent deaths when complications arise. Complications during pregnancy and delivery must be quickly diagnosed and treated in suitable health care facilities. But providing prompt emergency services is beyond the capacity of many countries' health systems.

Combat HIV/AIDS, malaria, and other diseases

With an estimated 40 million people living with HIV/AIDS and 20 million deaths since the disease was first identified, AIDS poses an unprecedented public health, economic, and social challenge. By infecting young people disproportionately—half of all new HIV infections are among 15- to 24-year-olds—and by killing so many adults in their prime, the epidemic seriously undermines development.



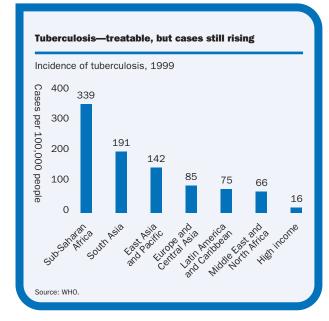
HIV/AIDS is the leading cause of death in Sub-Saharan Africa and the fourth largest killer worldwide. Among those lost are teachers, health care workers, and farmers, forcing the closure of schools and clinics and threatening food security. Deaths of parents have left more than 13 million HIV/AIDS orphans—a figure expected to more than double by 2010.

Disease

Epidemic proportions

Malaria is endemic in more than 100 countries and territories and affects an estimated 300 million people each year. Although the mosquitoes that spread the disease have been eradicated in some countries where malaria was not widespread, this has not been possible in wet, tropical climates.

Estimates based on malaria cases reported to the WHO show that almost 90 percent occur in Sub-Saharan Africa, with most of the deaths among young children. Antimalaria efforts now focus on reducing human exposure and lessening

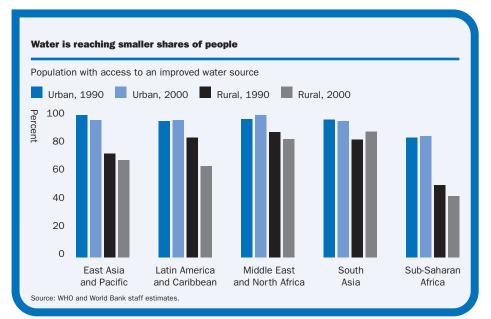


the health effects for those who become infected.

Tuberculosis is the main cause of death from a single infectious agent among adults in developing countries. Over the past decade the incidence of tuberculosis has grown rapidly in Europe and Central Asia, Africa, and parts of South and East Asia. On present trends, there will be 10.2 million new cases in 2005, and Africa will continue to have more cases than other regions. The directly observed treatment, short-course (DOTS) strategy has proven effective, but in 1999 less than half the population in the 23 countries with the largest number of cases had access to DOTS.

Ensure environmental sustainability

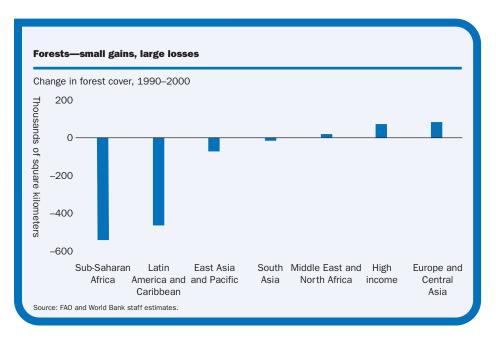
The environment provides goods and services that sustain human development—so we must ensure that development sustains the environment. Growing populations are putting greater pressure on land and natural resources. In many places freshwater is already becoming scarce. Forests are disappearing. Soils are being degraded and fisheries overexploited. Poor people are disproportionately affected. Fortunately, good policies and economic growth, which work to improve people's lives, can also work to improve the environment.



Environment

Progress is possible

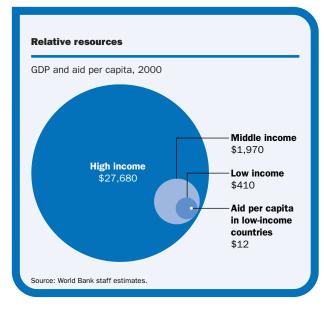
Greater understanding of how environmental assets and social assets—including markets—work together points the way to truly sustainable development. Poor countries do not need to repeat the mistakes of rich countries. In some high-income countries the abandonment of farmlands has allowed forests to recover. But the world lost more than 900,000 square kilometers of forest in the past decade. And the damage from losing whole species of plants and animals can never be undone.



Develop a global partnership for development

What will it take to achieve the Millennium Development Goals? A lot. Economies need to grow to provide jobs and more income for poor people. And growth requires investment in plant and equipment, in energy and transport, in human skills and knowledge. Growth is fastest in a good investment climate—where good economic policies and good governance provide assurance to investors and to workers of receiving the rewards of their efforts.

Great opportunities exist in today's fast changing global economy, but many poor countries have been left



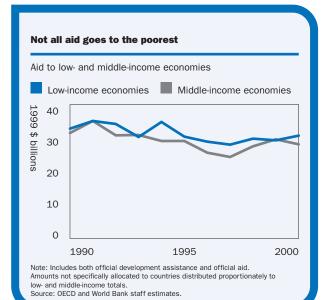
on the margins, lacking the skills, technologies, and financial resources to participate. To help them eradicate poverty, hunger, and premature death-and to reach the poorest people with the opportunities of growth-will require a new global partnership for development. The building blocks of that partnership, confirmed at the Monterrey Conference on Financing for Development, are stronger policies and good governance in developing countries, a more open and equitable global trading system, and increased resources through aid and debt reduction for countries working to meet their development goals.

Foundations for

Increasing the effectiveness of development assistance

In the past decade the real value of aid to developing countries has fallen 8 percent. Only half of it goes to low-income economies (average income per capita of less than \$755 in 2000) and the rest to middle-income economies (average income per capita ranging upwards to \$9,000).

Aid goes for many purposes, but only a small share for such basic social services as basic education, primary health care, nutrition, and safe water and sanitation. In 1999–2000



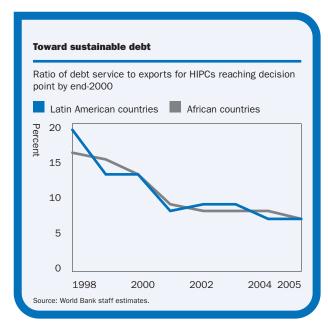
official development assistance (ODA) for basic social services averaged \$4.9 billion, or about 14.5 percent of ODA directed to specific sectors. (Some ODA provided as general budgetary support to country development programs also goes to basic social services.)

Aid is most effective in reducing poverty when it goes to poor countries with good economic policies and sound governance—and advances country-owned poverty reduction programs. But in some cases aid is tied to purchases of goods and services approved by the donor country. Such restrictions reduce the effectiveness of aid and undermine the principle of country ownership. The share of untied aid has been growing.

Easing the burden of debt

The Debt Initiative for Heavily Indebted Poor Countries (HIPCs) provides debt relief to the world's poorest and most heavily indebted countries. Begun in 1996 by the World Bank and the IMF, the initiative was enhanced in 1999 to provide deeper and faster debt relief with a stronger link between debt relief and poverty reduction.

Forty-two countries could qualify for HIPC assistance. At the end of 2001, 24 countries were receiving relief that, in time, will amount to \$36 billion. The total debt relief to all countries could reach \$50 billion.



Under the enhanced HIPC initiative, average debt service due in 2001-03 will be about 30 percent less than that paid before relief began in 1998-99.

In 2001–02 social spending in HIPC countries will be about \$6.5 billion-45 percent higher than in 1999 and about three times the level of debt service.

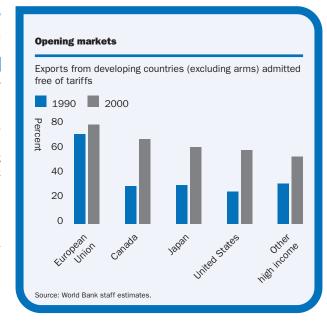
The ratio of debt service payments to a country's exports is one of several indicators of whether debt levels are sustainable. For the 24 countries now receiving debt relief, the average annual debt service to export ratio will fall from 17 percent to 8 percent, less than half the average for developing countries.

a new development partnership

Reducing barriers to trade

Tariffs have been falling. After the Uruguay Round of trade negotiations concluded in 1994, average tariffs on agricultural products and textiles and clothing-two important categories of developing country exports—fell in most high-income countries.

But average tariffs don't tell the full story. High tariffs can block access to markets. That is why the European Union's initiative to eliminate tariffs on all exports except arms from least developed countries is so important.



Even if the use of tariffs and quotas is further reduced, many developing countries will still face difficulties realizing the benefits, especially in Africa. One estimate, based on reducing trade protection by half, shows that developing countries would gain about \$200 billion by 2015. But only \$2.4 billion of this would go to Sub-Saharan Africa, and only another \$3.3 billion to South Asia outside of India. To make trade an effective source of growth, developing countries need to increase the efficiency of their trade-their producers, shippers, freight handlers, and customs services. High-income countries can help by providing "aid for trade" and sharing knowledge on establishing competitive export industries.

Millennium Development Goals

| dodis | and targets | Indicators ^a |
|--------|--|--|
| Goal 1 | Eradicate extreme poverty and hunger | |
| | Halve, between 1990 and 2015, the proportion of | Proportion of population below \$1 a day |
| | people whose income is less than \$1 a day | Poverty gap ratio [incidence times depth of poverty] |
| | | Share of poorest quintile in national consumption |
| | Halve, between 1990 and 2015, the proportion of | Prevalence of underweight in children (under five years of age) |
| | people who suffer from hunger | Proportion of population below minimum level of dietary |
| | | energy consumption |
| Goal 2 | Achieve universal primary education | |
| | Ensure that, by 2015, children everywhere, boys and | Net enrollment ratio in primary education |
| | girls alike, will be able to complete a full course of | Proportion of pupils starting grade 1 who reach grade 5 |
| | primary schooling | Literacy rate of 15- to 24-year-olds |
| Goal 3 | Promote gender equality and empower women | |
| | Eliminate gender disparity in primary and secondary | Ratio of girls to boys in primary, secondary, and tertiary education |
| | education preferably by 2005 and in all levels of | Ratio of literate females to males among 15- to 24-year-olds |
| | education no later than 2015 | Share of women in wage employment in the nonagricultural sector |
| | | Proportion of seats held by women in national parliament |
| Goal 4 | Reduce child mortality | |
| | Reduce by two-thirds, between 1990 and 2015, | Under-five mortality rate |
| | the under-five mortality rate | Infant mortality rate |
| | • | Proportion of one-year-old children immunized against measles |
| Goal 5 | Improve maternal health | |
| | Reduce by three-quarters, between 1990 and 2015, | Maternal mortality ratio |
| | the maternal mortality ratio | Proportion of births attended by skilled health personnel |
| Goal 6 | Combat HIV/AIDS, malaria, and other diseases | |
| | Have halted by 2015 and begun to reverse the spread | HIV prevalence among 15- to 24-year-old pregnant women |
| | of HIV/AIDS | Contraceptive prevalence rate ^b |
| | | Number of children orphaned by HIV/AIDS |
| | Have halted by 2015 and begun to reverse the | Prevalence and death rates associated with malaria |
| | incidence of malaria and other major diseases | Proportion of population in malaria-risk areas using effective |
| | | malaria prevention and treatment measures |
| | | Prevalence and death rates associated with tuberculosis |
| | | Proportion of tuberculosis cases detected and cured under |
| | | directly observed treatment, short-course (DOTS) |
| Goal 7 | Ensure environmental sustainability | |
| | Integrate the principles of sustainable development | Change in land area covered by forest |
| | into country policies and programs and reverse the | Land area protected to maintain biological diversity |
| | loss of environmental resources | GDP per unit of energy use |
| | | Carbon dioxide emissions (per capita) |
| | Halve, by 2015, the proportion of people without | Proportion of population with sustainable access to an |
| | sustainable access to safe drinking water | improved water source |
| | Have achieved, by 2020, a significant improvement | Proportion of population with access to improved sanitation |
| | in the lives of at least 100 million slum dwellers | Proportion of population with access to secure tenure |
| | | [Urban-rural disaggregation of several of the above indicators may |
| | | be relevant for monitoring improvement in the lives of slum |
| | | dwellers] |

| Goal 8 | Develop a global partnership for development | |
|--------|--|---|
| | Develop further an open, rule-based, predictable, nondiscriminatory trading and financial system (includes a commitment to good governance, development, and poverty reduction—both nationally and internationally) Address the special needs of the least developed countries (includes tariff and quota-free access for their exports; enhanced program of debt relief for heavily indebted poor countries and cancellation of official bilateral debt; and more generous ODA for | Some of the indicators listed below will be monitored separately for the least developed countries (LDCs), Africa, landlocked countries, and small island developing states. Official development assistance (ODA) Net ODA as a percentage of DAC donors' GNI Proportion of ODA for basic social services (basic education, primary health care, nutrition, safe water, and sanitation) Proportion of ODA that is untied Proportion of ODA for the environment in small island developing states Proportion of ODA for the transport sector in landlocked countries |
| | countries committed to poverty reduction) | Market access Proportion of exports (by value, excluding arms) admitted free of |
| | Address the special needs of landlocked countries and small island developing states (through Barbados Program and 22nd General Assembly provisions) | Average tariffs and quotas on agricultural products and textiles and clothing Domestic and export agricultural subsidies in OECD countries Proportion of ODA provided to help build trade capacity |
| | Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term | Proportion of official bilateral HIPC debt canceled Debt service as a percentage of exports of goods and services Proportion of ODA provided as debt relief Number of countries reaching HIPC decision and completion points |
| | In cooperation with developing countries, develop and implement strategies for decent and productive work for youth | Unemployment rate of 15- to 24-year-olds |
| | In cooperation with pharmaceutical companies, provide access to affordable, essential drugs in developing countries | Proportion of population with access to affordable, essential drugs on a sustainable basis |
| | In cooperation with the private sector, make available the benefits of new technologies, especially information and communications | Telephone lines per 1,000 people Personal computers per 1,000 people |

Indicators^a

Goals and targets

a. Some indicators, particularly for goals 7 and 8, remain under discussion. Additions or revisions to the list may be made in the future.

b. Only one form of contraception—condoms—is effective in reducing the spread of HIV.

1.1 | Size of the economy

| 111 | Population Surface Population density | | | itional | Gross na | | PPF | gross nation income ^a | nal | Gross domestic product | | |
|---------------------------------|---------------------------------------|-----------------------------------|------------------------------|-------------|---------------------|--------------|---------------------|-------------------------------------|------------------------------------|---------------------------|---------------------------|---|
| | millions 2000 | thousand sq. km 2000 | people per sq. km 2000 | \$ billions | Rank 2000 | \$ 2000° | Rank 2000 | \$ billions | Per capita \$ 2000 | Rank 2000 | % growth 1999-2000 | Per capita % growth 1999-2000 |
| Afghanistan | 27 ° | 652 | 41 | | | . d | | | | | | |
| Albania | 3 | 29 | 124 | 3.8 | 126 | 1,120 | 130 | 12 | 3,600 | 130 | 7.8 | 6.9 |
| Algeria | 30 | 2,382 | 13 | 47.9 | 49 | 1,580 | 117 | 153 ° | 5,040 ° | 107 | 2.4 | 0.9 |
| Angola | 13 | 1,247 | 11 | 3.8 | 125 | 290 | 178 | 15 ° | 1,180 ° | 181 | 2.1 | -0.8 |
| Argentina | 37 | 2,780 | 14 | 276.2 | 16 | 7,460 | 58 | 446 | 12,050 | 58 | -0.5 | -1.7 |
| Armenia | 4 | 30 | 135 | 2.0 | 146 | 520 | 155 | 10 | 2,580 | 147 | 6.0 | 5.9 |
| Australia | 19 | 7,741 | 2 | 388.3 | 15 | 20,240 | 27 | 479 | 24,970 | 19 | 1.9 | 0.8 |
| Austria | 8 | 84 | 98 | 204.5 | 21 | 25,220 | 14 | 214 | 26,330 | 14 | 3.0 | 2.7 |
| Azerbaijan | 8 | 87 | 93 | 4.9 | 115 | 600 | 148 | 22 | 2,740 | 142 | 11.1 | 10.2 |
| Bangladesh | 131 | 144 | 1,007 | 47.9 | 50 | 370 | 167 | 209 | 1,590 | 165 | 5.9 | 4.1 |
| Belarus | 10 | 208 | 48 | 28.7 | 60 | 2,870 | 94 | 76 | 7,550 | 82 | 5.8 | 6.1 |
| Belgium | 10 | 30 | 331 | 251.6 | 18 | 24,540 | 20 | 282 | 27,470 | 9 | 4.0 | 3.8 |
| Benin | 6 | 113 | 57 | 2.3 | 142 | 370 | 167 | 6 | 980 | 186 | 5.8 | 3.1 |
| Bolivia | 8 | 1,099 | 8 | 8.2 | 95 | 990 | 133 | 20 | 2,360 | 151 | 2.4 | 0.0 |
| Bosnia and Herzegovina | 4 | 51 | 78 | 4.9 | 112 | 1,230 | 126 | | | | 5.9 | 3.1 |
| Botswana | 2 | 582 | 3 | 5.3 | 109 | 3,300 | 85 | 11 | 7,170 | 84 | 3.4 | 2.5 |
| Brazil | 170 | 8,547 | 20 | 610.1 | 9 | 3,580 | 82 | 1,243 | 7,300 | 83 | 4.5 | 3.2 |
| Bulgaria | 8 | 111 | 74 | 12.4 | 80 | 1,520 | 119 | 45 | 5,560 | 100 | 5.8 | 6.3 |
| Burkina Faso | 11 | 274 | 41 | 2.4 | 141 | 210 | 193 | 11 ° | 970 ° | 187 | 2.2 | -0.4 |
| Burundi | 7 | 28 | 265 | 0.7 | 176 | 110 | 205 | 4 e | 580 ° | 204 | 0.3 | -1.6 |
| | 12 | 181 | 68 | 3.1 | | 260 | 186 | 17 | | 173 | 5.0 | 2.7 |
| Cambodia Cameroon | 15 | 475 | 32 | 8.6 | 135 90 | 580 | 151 | 24 | 1,440 1,590 | 165 | 4.2 | 2.0 |
| | | 9,971 | 32 | | 8 | 21,130 | 26 | 836 ° | <u>'</u> | 11 | 4.2 | |
| Canada Cantral African Banublia | 31 4 | | 6 | 649.8 | 166 | | 183 | 4 ° | 27,170 ° | 182 | 2.5 | 3.6 |
| Central African Republic | 8 | 623 | 6 | 1.0 | | 280 | | 7 | 1,160 ° 870 | 190 | 0.6 | -2.1 |
| Chad | | 1,284 | | | 153 | | 195 | | | | | |
| Chile | 15 | 757 | 20 | 69.8 | 43 7 | 4,590 840 | 73 | 138 | 9,100 | 73 124 | 5.4 7.9 | 4.0 7.2 |
| China Llang Kang China | 1,262 | 9,598 ^f | 135 | 1,062.9 | | | 141 | 4,951 | 3,920 | | | |
| Hong Kong, China | 7 | 1 120 | | 176.2 | 23 | 25,920 | 13 | 174 | 25,590 | 17 | 10.5 | 9.2 |
| Colombia | 42 | 1,139 | 41 | 85.3 | 40 | 2,020 | 102 | 256 | 6,060 | 94 | 2.8 | 1.0 |
| Congo, Dem. Rep. | 51 | 2,345 | 22 | | | d | 450 | | | | | |
| Congo, Rep. | 3 | 342 | 9 | 1.7 | 151 | 570 | 153 | 2 | 570 | 205 | 7.9 | 4.9 |
| Costa Rica | 4 | 51 | 75 | 14.5 | 77 | 3,810 | 78 | 30 | 7,980 | 80 | 1.7 | -0.5 |
| Côte d'Ivoire | 16 | 322 | 50 | 9.6 | 85 | 600 | 148 | 24 | 1,500 | 170 | -2.3 | -4.9 |
| Croatia | 4 | 57 | 78 | 20.2 | 62 | 4,620 | 72 | 35 | 7,960 | 81 | 3.7 | 3.6 |
| Cuba | 11 | 111 | 102 | | | g | | | | | | |
| Czech Republic | 10 | 79 | 133 | 53.9 | 45 | 5,250 | 68 | 142 | 13,780 | 55 | 2.9 | 3.0 |
| Denmark | 5 | 43 | 126 | 172.2 | 24 | 32,280 | 8 | 145 | 27,250 | 10 | 2.9 | 2.6 |
| Dominican Republic | 8 | 49 | 173 | 17.8 | 70 | 2,130 | 97 | 48 | 5,710 | 97 | 7.8 | 6.0 |
| Ecuador | 13 | 284 | 46 | 15.3 | 75 | 1,210 | 127 | 37 | 2,910 | 140 | 2.3 | 0.4 |
| Egypt, Arab Rep. | 64 | 1,001 | 64 | 95.4 | 38 | 1,490 | 120 | 235 | 3,670 | 128 | 5.1 | 3.1 |
| El Salvador | 6 | 21 | 303 | 12.6 | 79 | 2,000 | 103 | 28 | 4,410 | 117 | 2.0 | 0.0 |
| Eritrea | 4 | 118 | 41 | 0.7 | 178 | 170 | 200 | 4 | 960 | 188 | -8.2 | -10.6 |
| Estonia | 1 | 45 | 32 | 4.9 | 113 | 3,580 | 82 | 13 | 9,340 | 71 | 6.4 | 7.8 |
| Ethiopia | 64 | 1,104 | 64 | 6.7 | 99 | 100 | 206 | 43 | 660 | 202 | 5.4 | 3.0 |
| Finland | 5 | 338 | 17 | 130.1 | 28 | 25,130 | 16 | 127 | 24,570 | 23 | 5.7 | 5.5 |
| France | 59 | 552 | 107 | 1,438.3 h | 5 | 24,090 h | 23 | 1,438 | 24,420 | 24 | 3.1 | 2.6 |
| Gabon | 1 | 268 | 5 | 3.9 | 122 | 3,190 | 88 | 7 | 5,360 | 103 | 2.0 | -0.6 |
| Gambia, The | 1 | 11 | 130 | 0.4 | 191 | 340 | 173 | 2 e | 1,620 ° | 164 | 5.6 | 2.3 |
| Georgia | 5 | 70 | 72 | 3.2 | 134 | 630 | 146 | 13 | 2,680 | 144 | 1.9 | 1.9 |
| Germany | 82 | 357 | 230 | 2,063.7 | 3 | 25,120 | 17 | 2,047 | 24,920 | 20 | 3.0 | 2.9 |
| Ghana | 19 | 239 | 85 | 6.6 | 102 | 340 | 173 | 37 ° | 1,910 e | 159 | 3.7 | 1.3 |
| Greece | 11 | 132 | 82 | 126.3 | 30 | 11,960 | 47 | 178 | 16,860 | 48 | 4.3 | 4.1 |
| Guatemala | 11 | 109 | 105 | 19.2 | 67 | 1,680 | 111 | 43 | 3,770 | 126 | 3.3 | 0.6 |
| Guinea | 7 | 246 | 30 | 3.3 | 132 | 450 | 159 | 14 | 1,930 | 158 | 2.0 | -0.3 |
| Guinea-Bissau | 1 | 36 | 43 | 0.2 | 201 | 180 | 197 | 1 | 710 | 200 | 7.5 | 5.2 |
| Haiti | 8 | 28 | 289 | 4.1 | 121 | 510 | 156 | 12 e | 1,470 ° | 172 | 1.1 | -0.9 |
| Honduras | 6 | 112 | 57 | 5.5 | 108 | 860 | 138 | 15 | 2,400 | 150 | 4.8 | 2.2 |

Size of the economy | 1.1



| Part | | Population | Surface area | Population density | | | Gross na income pe | | PPF | P gross nation income ^a | nal | Gross domestic product | | |
|--|--------------------|------------|---------------------------------------|--------------------|-------|-----|---------------------------------------|-----|-------|---------------------------------------|-----|---------------------------|--------------------|--|
| Hongsay 10 | | | sq. km | per sq. km | | | | | | capita \$ | | _ | capita % growth | |
| Information 1,016 3,287 342 454,8 12 450,0 150 2,375 2,340 133 39 2,000 13 | Hundani | | | | | | | | | | | | | |
| Information 1,000 | | | | | | | | | | | | | | |
| Information Rep. 64 | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | |
| Incident | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Indexerd 4 | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Interpresent Fig. Sept. Sept. | | | | | | | | | | | | | | |
| Inspire Se | | | | | | | | | | | | | | |
| Jamelone | | | | | | | | | | | | | | |
| Jaman 127 378 348 4511 2 25620 5 3,436 27.080 12 2.4 2.2 1.0 | | | | | | | | | | | | | | |
| Security Security | | | | | | | | | | | | | | |
| Maritanian | | | | | | | | | | | | | | |
| Nerwish 10 | | | | | | | | | | | | | | |
| Kores, Den, Rep. 22 121 185 . | | | | | | | | | | | | | | |
| Korea, Rep. | | | | | | | | | | | | | | |
| Namit Republic R | | | | | | | | | | | | | | |
| Kyrger Republic 5 200 26 1.3 158 270 184 1.3 2.540 1.99 5.0 3.3 Labron 2 65 38 1.5 154 90 1.78 8 1.540 168 5.7 3.3 Labron 4 10 423 17.4 71 4.010 77 20 4.550 113 0.0 1.3 Lebran 4 10 423 17.4 71 4.010 77 20 4.550 113 0.0 1.3 Lebran 3 1111 32 1.5 2.50 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td></td></t<> | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Larvia | | | | | | | | | | | | | | |
| Lativia 2 65 38 6.9 97 2,920 93 17 7,070 85 6.6 8.3 Lebenon 4 10 423 17.4 771 4,010 77 2.50 4,55 113 0.0 1.2 Leberia 3 1111 32 1. 1.0 1.0 1.0 2.590 1.6 0. 1. Libya 5 1,760 3 1.0 <td></td> | | | | | | | | | | | | | | |
| Lebanon | | | | | | | | | | | | | | |
| Lebotho 2 | | | | | | | | | | | | | | |
| Libria 3 | | | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Lithuania | | | | | 1.2 | 163 | | 151 | 5 ° | 2,590 ° | 146 | 3.8 | 2.5 | |
| Lithuania 4 | Liberia | | | | | | | | | | | | | |
| Macedonia, FYR 2 26 80 3.7 128 1,820 108 10 5,020 108 4.3 3.6 Madagascar 16 587 27 3.9 124 250 188 13 820 191 4.8 1.6 Malawi 10 118 110 1.7 78.7 42 3,380 84 194 8,330 77 8.3 5.7 Mali 11 1,240 9 2.5 138 240 190 8 780 195 4.5 2.1 Mauritania 3 1,026 3 1.0 170 370 60 81 1,930 163 5.2 1.7 Mauritania 3 1,026 3 4.0 150 3,70 60 861 8,780 70 8.0 9 8.1 Mauritania 4 3,44 130 1,44 15,70 10 8.0 12 9,940 <td>Libya</td> <td></td> | Libya | | | | | | | | | | | | | |
| Malagascar 16 587 27 3.9 124 250 188 13 820 191 4.8 1.6 Malawi 10 118 110 1.7 150 170 200 6 600 203 1.7 0.4 Malli 11 1,240 9 2.5 138 240 190 8 780 195 4.5 2.1 Maurituin 3 1,026 33 1.0 170 370 167 4 1,630 163 5.2 1.7 Murituitui 1 2 584 4.4 119 3,700 69 861 8,700 76 6.9 5.3 Moldova 4 34 130 1.4 157 400 162 10 2,230 154 1.9 2.1 Morgolia 2 1,567 2 0.9 172 300 164 4 1,760 161 1.1 0 | | | 65 | 57 | 10.8 | 81 | 2,930 | 92 | 26 | 6,980 | 87 | 3.9 | 4.0 | |
| Malawi 10 118 110 1.7 150 170 200 6 600 203 1.7 0.4 Malaysia 23 330 71 78.7 42 3,380 84 194 8,330 177 8.3 5.7 Mali 11 1,240 9 2.5 138 240 190 8 780 195 4.5 21 Mauritania 3 1,026 3 1.0 170 370 167 4 1,630 163 5.2 1.7 Mauritus 1 2 584 4.4 119 3,750 80 12 9,940 70 8.0 6.9 5.3 Mexico 98 1,958 51 497.0 11 5,700 69 861 8,700 76 6.9 3.3 Moldova 4 34 130 14 15,700 169 161 11 0.3 Mor | Macedonia, FYR | | | | | | | | | | | | | |
| Malaysia 23 330 71 78.7 42 3,380 84 194 8,330 77 8.3 5.7 Mali 11 1,240 9 2.5 138 240 190 8 780 195 4.5 2.1 Mauritania 3 1,026 3 1.0 370 167 4 1,630 163 5.2 1.7 Mauritania 1 2.2 584 4.4 119 3,750 80 12 9,940 70 8.0 6.9 Mexico 98 1,588 51 497.0 111 5,070 69 861 8,790 76 6.9 5.3 Moldova 4 341 130 1.4 157 400 162 10 2,30 76 6.9 5.3 Morandia 2 1,567 6 3.9 15 1,180 128 99 3,450 134 0.9 0.2 | Madagascar | 16 | 587 | 27 | 3.9 | 124 | 250 | 188 | | 820 | 191 | 4.8 | 1.6 | |
| Mall 11 1,240 9 2.5 138 240 190 8 780 195 4.5 2.1 Maurituinal 3 1,026 3 1.0 170 370 167 4 1,630 163 5.2 1.7 Maurituis 1 2 584 4.4 119 3,750 80 12 9,940 70 8.0 6.9 Mexico 98 1,958 51 497.0 11 5,070 69 861 8,790 76 6.9 5.3 Moldova 4 34 130 1.4 15,7 400 162 10 2,230 154 1.9 2.1 Morrido 2 1,567 2 0.9 172 300 162 4 1,760 151 1.1 0.0 Morrido 2 1,567 2 0.9 1,72 210 193 1.4 1,760 134 1.9 | | | | | | | | | | | | | | |
| Mauritania 3 1,026 3 1.0 170 370 167 4 1,630 163 5.2 1.7 Mauritus 1 2 584 4.4 119 3,750 80 12 9,940 70 8.0 6.9 Mexico 98 1,958 51 4970 11 5,070 69 861 8,790 76 6,9 5.3 Mordoto 4 34 130 1.4 157 400 162 10 2,230 154 1,9 2.1 Moroco 29 447 64 33.9 55 1,180 128 89 3,450 134 0.9 0.8 Moroco 29 447 64 33.9 55 1,180 128 99 3,450 134 0.9 0.8 Moramidu 18 802 23 3.7 127 210 193 144 1,10 1,10 1,10 | | | | | | | | | | | | | | |
| Mauritius 1 2 584 4.4 119 3,750 80 12 9,940 70 8.0 6.9 Mexico 98 1,958 51 497.0 11 5,070 69 861 8,790 76 6.9 5.3 Moldova 4 34 130 1.4 157 400 162 10 2,230 154 1.9 2.1 Morocco 29 447 64 33.9 55 1,180 128 99 3,450 134 0.9 -0.8 Morocco 29 447 64 33.9 55 1,180 128 89 3,450 134 0.9 -0.8 Morocco 29 447 64 33.9 55 1,180 128 89 3,450 16 0.7 0.0 Marining 18 802 23 3.7 127 210 193 14* 800* 193 3.4 | | | | | | | | | | | | | | |
| Mexico 98 1,958 51 497.0 11 5,070 69 861 8,790 76 6.9 5.3 Moldova 4 34 130 1.4 157 400 162 10 2,230 154 1,9 2.1 Mongolia 2 1,567 2 0.9 172 390 164 4 1,760 161 1.1 0.3 Morocco 29 447 64 33.9 55 1,180 128 899 3,450 134 0.9 0.8 Mozambique 18 802 23 3.7 127 210 193 14° 800° 193 1.6 0.7 Myanmar 48 677 73 | Mauritania | | | 3 | 1.0 | 170 | 370 | 167 | | 1,630 | 163 | 5.2 | 1.7 | |
| Moldova 4 34 130 1.4 157 400 162 10 2,230 154 1.9 2.1 Mongolia 2 1,567 2 0.9 172 390 164 4 1,760 161 1.1 0.3 Morcomoco 29 447 64 33.9 55 1,180 128 99 3,450 134 0.9 -0.8 Mozambique 18 802 23 3.7 127 210 193 14° 800° 193 1.6 0.7 Myanmar 48 677 73 | Mauritius | | 2 | 584 | 4.4 | 119 | | 80 | 12 | 9,940 | 70 | 8.0 | | |
| Mongolia 2 1,567 2 0.9 172 390 164 4 1,760 161 1.1 0.3 Morocco 29 447 64 33.9 55 1,180 128 99 3,450 134 0.9 0.8 Mozambique 18 802 23 3.7 127 210 193 14 800° 193 1.6 0.7 Myanmar 48 677 73 <t< td=""><td>Mexico</td><td>98</td><td>1,958</td><td>51</td><td>497.0</td><td>11</td><td>5,070</td><td>69</td><td>861</td><td>8,790</td><td>76</td><td>6.9</td><td>5.3</td></t<> | Mexico | 98 | 1,958 | 51 | 497.0 | 11 | 5,070 | 69 | 861 | 8,790 | 76 | 6.9 | 5.3 | |
| Morocco 29 447 64 33.9 55 1,180 128 99 3,450 134 0.9 -0.8 Mozambique 18 802 23 3.7 127 210 193 14° 800° 193 1.6 0.7 Myanmar 48 677 73 < | Moldova | 4 | 34 | 130 | 1.4 | 157 | 400 | 162 | 10 | 2,230 | 154 | 1.9 | 2.1 | |
| Mozambique 18 802 23 3.7 127 210 193 14 ° 800 ° 193 1.6 -0.7 Myanmar 48 677 73 | Mongolia | 2 | 1,567 | 2 | 0.9 | 172 | 390 | 164 | 4 | 1,760 | 161 | 1.1 | 0.3 | |
| Myanmar 48 677 73 </td <td>Morocco</td> <td>29</td> <td>447</td> <td>64</td> <td>33.9</td> <td></td> <td>1,180</td> <td>128</td> <td>99</td> <td>3,450</td> <td>134</td> <td>0.9</td> <td>-0.8</td> | Morocco | 29 | 447 | 64 | 33.9 | | 1,180 | 128 | 99 | 3,450 | 134 | 0.9 | -0.8 | |
| Namibia 2 824 2 3.6 130 2,030 101 11° 6,410° 89 3.9 1.6 Nepal 23 147 161 5.6 107 240 190 32 1,370 176 6.5 3.9 New Zealand 16 42 470 397.5 14 24,970 18 412 25,850 15 3.5 2.8 New Zealand 4 271 14 49.8 48 12,990 45 71 18,530 41 2.5 2.0 Nicaragua 5 130 42 2.1 145 400 162 11° 2,080° 156 4.3 1.6 Nigera 11 1,267 9 1.9 148 180 197 8° 740° 199 0.1 3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 | Mozambique | 18 | 802 | 23 | 3.7 | 127 | | 193 | 14 e | 800 ° | 193 | 1.6 | -0.7 | |
| Nepal 23 147 161 5.6 107 240 190 32 1,370 176 6.5 3.9 Netherlands 16 42 470 397.5 14 24,970 18 412 25,850 15 3.5 2.8 New Zealand 4 271 14 49.8 48 12,990 45 71 18,530 41 2.5 2.0 Nicaragua 5 130 42 2.1 145 400 162 11° 2,080° 156 4.3 1.6 Niger 11 1,267 9 1.9 148 180 197 8° 740° 199 0.1 -3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3< | Myanmar | | | | | | | | | | | | | |
| Netherlands 16 42 470 397.5 14 24,970 18 412 25,850 15 3.5 2.8 New Zealand 4 271 14 49.8 48 12,990 45 71 18,530 41 2.5 2.0 Nicaragua 5 130 42 2.1 145 400 162 11° 2,080° 156 4.3 1.6 Niger 11 1,267 9 1.9 148 180 197 8° 740° 199 0.1 3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 | Namibia | 2 | 824 | 2 | 3.6 | 130 | 2,030 | 101 | 11 ° | 6,410 e | 89 | 3.9 | 1.6 | |
| New Zealand 4 271 14 49.8 48 12,990 45 71 18,530 41 2.5 2.0 Nicaragua 5 130 42 2.1 145 400 162 11 ° 2,080 ° 156 4.3 1.6 Niger 11 1,267 9 1.9 148 180 197 8 ° 740 ° 199 0.1 3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 <t< td=""><td>Nepal</td><td>23</td><td>147</td><td>161</td><td>5.6</td><td>107</td><td></td><td>190</td><td>32</td><td>1,370</td><td>176</td><td>6.5</td><td>3.9</td></t<> | Nepal | 23 | 147 | 161 | 5.6 | 107 | | 190 | 32 | 1,370 | 176 | 6.5 | 3.9 | |
| Nicaragua 5 130 42 2.1 145 400 162 11 ° 2,080 ° 156 4.3 1.6 Niger 11 1,267 9 1.9 148 180 197 8 ° 740 ° 199 0.1 3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 | Netherlands | | 42 | 470 | 397.5 | 14 | 24,970 | 18 | 412 | 25,850 | 15 | 3.5 | 2.8 | |
| Niger 11 1,267 9 1.9 148 180 197 8 ° 740 ° 199 0.1 -3.2 Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 | New Zealand | 4 | 271 | 14 | 49.8 | 48 | 12,990 | 45 | 71 | 18,530 | 41 | 2.5 | 2.0 | |
| Nigeria 127 924 139 32.7 56 260 186 102 800 193 3.8 1.3 Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 <td>Nicaragua</td> <td>5</td> <td>130</td> <td>42</td> <td>2.1</td> <td>145</td> <td>400</td> <td>162</td> <td>11 e</td> <td>2,080 °</td> <td>156</td> <td>4.3</td> <td>1.6</td> | Nicaragua | 5 | 130 | 42 | 2.1 | 145 | 400 | 162 | 11 e | 2,080 ° | 156 | 4.3 | 1.6 | |
| Norway 4 324 15 155.1 26 34,530 6 133 29,630 6 2.3 1.6 Oman 2 212 11 | Niger | 11 | 1,267 | 9 | 1.9 | 148 | 180 | 197 | 8 e | 740 ° | 199 | 0.1 | -3.2 | |
| Oman 2 212 11 | Nigeria | 127 | 924 | 139 | 32.7 | 56 | 260 | 186 | 102 | 800 | 193 | 3.8 | 1.3 | |
| Pakistan 138 796 179 61.0 44 440 161 257 1,860 160 4.4 1.9 Panama 3 76 38 9.3 87 3,260 86 16° 5,680° 98 2.7 1.0 Papua New Guinea 5 463 11 3.6 129 700° 144 11° 2,180° 155 0.3 -2.1 Paraguay 5 407 14 7.9 96 1,440 122 24° 4,450° 115 0.3 -2.8 Peru 26 1,285 20 53.4 46 2,080 100 120 4,660 111 3.1 1.4 Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 | Norway | 4 | 324 | 15 | 155.1 | 26 | 34,530 | 6 | 133 | 29,630 | 6 | 2.3 | 1.6 | |
| Panama 3 76 38 9.3 87 3,260 86 16 ° 5,680 ° 98 2.7 1.0 Papua New Guinea 5 463 11 3.6 129 700 ° 144 11 ° 2,180 ° 155 0.3 -2.1 Paraguay 5 407 14 7.9 96 1,440 122 24 ° 4,450 ° 115 -0.3 -2.8 Peru 26 1,285 20 53.4 46 2,080 100 120 4,660 111 3.1 1.4 Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 | Oman | 2 | 212 | 11 | | | 1 | | •• | | | | | |
| Papua New Guinea 5 463 11 3.6 129 700 l 144 11 ° 2,180 ° 155 0.3 -2.1 Paraguay 5 407 14 7.9 96 1,440 122 24 ° 4,450 ° 115 -0.3 -2.8 Peru 26 1,285 20 53.4 46 2,080 100 120 4,660 111 3.1 1.4 Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 | Pakistan | 138 | 796 | 179 | 61.0 | 44 | 440 | 161 | 257 | 1,860 | 160 | 4.4 | 1.9 | |
| Paraguay 5 407 14 7.9 96 1,440 122 24 ° 4,450 ° 115 0.3 -2.8 Peru 26 1,285 20 53.4 46 2,080 100 120 4,660 111 3.1 1.4 Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 | Panama | 3 | 76 | 38 | 9.3 | 87 | 3,260 | 86 | 16 e | 5,680 ° | 98 | 2.7 | 1.0 | |
| Peru 26 1,285 20 53.4 46 2,080 100 120 4,660 111 3.1 1.4 Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 <t< td=""><td>Papua New Guinea</td><td>5</td><td>463</td><td>11</td><td>3.6</td><td>129</td><td>700 ^j</td><td>144</td><td>11 e</td><td>2,180 e</td><td>155</td><td>0.3</td><td>-2.1</td></t<> | Papua New Guinea | 5 | 463 | 11 | 3.6 | 129 | 700 ^j | 144 | 11 e | 2,180 e | 155 | 0.3 | -2.1 | |
| Philippines 76 300 253 78.8 41 1,040 131 319 4,220 120 4.0 2.1 Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 | Paraguay | 5 | 407 | 14 | 7.9 | 96 | 1,440 | 122 | 24 e | 4,450 e | 115 | -0.3 | -2.8 | |
| Poland 39 323 127 161.8 25 4,190 75 348 9,000 74 4.0 4.0 Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 <t< td=""><td>Peru</td><td>26</td><td>1,285</td><td>20</td><td>53.4</td><td>46</td><td>2,080</td><td>100</td><td>120</td><td>4,660</td><td>111</td><td>3.1</td><td>1.4</td></t<> | Peru | 26 | 1,285 | 20 | 53.4 | 46 | 2,080 | 100 | 120 | 4,660 | 111 | 3.1 | 1.4 | |
| Portugal 10 92 109 111.3 33 11,120 49 170 16,990 47 3.3 3.1 Puerto Rico 4 9 442 | Philippines | 76 | 300 | 253 | 78.8 | 41 | 1,040 | 131 | 319 | 4,220 | 120 | 4.0 | 2.1 | |
| Puerto Rico 4 9 442 | Poland | 39 | 323 | 127 | 161.8 | 25 | 4,190 | 75 | 348 | 9,000 | 74 | 4.0 | 4.0 | |
| Puerto Rico 4 9 442 | Portugal | 10 | 92 | 109 | 111.3 | 33 | 11,120 | 49 | 170 | 16,990 | 47 | 3.3 | 3.1 | |
| Romania 22 238 97 37.4 52 1,670 113 143 6,360 90 1.6 1.7 | | 4 | 9 | 442 | | | | | | | | | | |
| | Romania | 22 | 238 | 97 | | | | | | | | | 1.7 | |
| | Russian Federation | 146 | 17,075 | 9 | 241.0 | 19 | 1,660 | 114 | 1,165 | 8,010 | 79 | 8.3 | 8.9 | |



1.1 | Size of the economy

| | Population | Surface area | Population density | n Gross national income | | Gross national income per capita | | PPI | P gross nation income ^a | nal | Gross domestic product | | |
|-----------------------|-------------------------|-----------------------------------|------------------------------|-------------------------|---------------------|----------------------------------|---------------------|-------------|---------------------------------------|---------------------|---------------------------|--|--|
| | millions 2000 | thousand sq. km 2000 | people per sq. km 2000 | \$ billions | Rank 2000 | \$ 2000 ⁶ | Rank 2000 | \$ billions | Per capita \$ 2000 | Rank 2000 | % growth | Per capita % growth 1999-2000 | |
| Rwanda | 9 | 26 | 345 | 2.0 | 147 | 230 | 192 | 8 | 930 | 189 | 5.6 | 3.1 | |
| Saudi Arabia | 21 | 2,150 | 10 | 149.9 | 27 | 7,230 | 61 | 236 | 11,390 | 60 | 4.5 | 1.8 | |
| Senegal | 10 | 197 | 49 | 4.7 | 116 | 490 | 157 | 14 | 1,480 | 171 | 5.6 | 2.9 | |
| Sierra Leone | 5 | 72 | 70 | 0.6 | 180 | 130 | 204 | 2 | 480 | 207 | 7.0 | 4.9 | |
| Singapore | 4 | 1 | 6,587 | 99.4 | 37 | 24,740 | 19 | 100 | 24,910 | 21 | 9.9 | 8.1 | |
| Slovak Republic | 5 | 49 | 112 | 20.0 | 66 | 3,700 | 81 | 60 | 11,040 | 62 | 2.2 | 2.1 | |
| Slovenia | 2 | 20 | 99 | 20.0 | 65 | 10,050 | 50 | 34 | 17,310 | 45 | 4.6 | 4.5 | |
| Somalia | 9 | 638 | 14 | | | d | | | | | | | |
| South Africa | 43 | 1,221 | 35 | 129.2 | 29 | 3,020 | 91 | 392 e | 9,160 ° | 72 | 3.1 | 1.4 | |
| Spain | 39 | 506 | 79 | 595.3 | 10 | 15,080 | 38 | 760 | 19,260 | 38 | 4.1 | 3.9 | |
| Sri Lanka | 19 | 66 | 300 | 16.4 | 73 | 850 | 140 | 67 | 3,460 | 133 | 6.0 | 4.3 | |
| Sudan | 31 | 2,506 | 13 | 9.6 | 84 | 310 | 175 | 47 | 1,520 | 169 | 8.3 | 6.4 | |
| Swaziland | 1 | 17 | 61 | 1.5 | 156 | 1,390 | 123 | 5 | 4,600 | 112 | 2.6 | 0.0 | |
| Sweden | 9 | 450 | 22 | 240.7 | 20 | 27,140 | 11 | 213 | 23,970 | 26 | 3.6 | 3.4 | |
| Switzerland | 7 | 41 | 182 | 273.8 | 17 | 38,140 | 3 | 219 | 30,450 | 5 | 3.0 | 2.4 | |
| Syrian Arab Republic | 16 | 185 | 88 | 15.1 | 76 | 940 | 135 | 54 | 3,340 | 136 | 2.5 | 0.0 | |
| Tajikistan | 6 | 143 | 44 | 1.1 | 165 | 180 | 197 | 7 | 1,090 | 183 | 8.3 | 8.1 | |
| Tanzania | 34 | 945 | 38 | 9.0 k | 88 | 270 k | 184 | 18 | 520 | 206 | 5.1 | 2.7 | |
| Thailand | 61 | 513 | 119 | 121.6 | 31 | 2,000 | 103 | 384 | 6,320 | 92 | 4.3 | 3.5 | |
| Togo | 5 | 57 | 83 | 1.3 | 159 | 290 | 178 | 6 | 1,410 | 175 | -0.7 | -3.7 | |
| Trinidad and Tobago | 1 | 5 | 254 | 6.4 | 104 | 4,930 | 70 | 11 | 8,220 | 78 | 4.8 | 4.1 | |
| Tunisia | 10 | 164 | 62 | 20.1 | 63 | 2,100 | 99 | 58 | 6,070 | 93 | 4.7 | 3.5 | |
| Turkey | 65 | 775 | 85 | 202.1 | 22 | 3,100 | 90 | 459 | 7,030 | 86 | 7.2 | 5.6 | |
| Turkmenistan | 5 | 488 | 11 | 3.9 | 123 | 750 J | 143 | 20 | 3,800 | 125 | 17.6 | 15.3 | |
| Uganda | 22 | 241 | 113 | 6.7 | 100 | 300 | 176 | 27 e | 1,210 e | 178 | 3.5 | 0.8 | |
| Ukraine | 50 | 604 | 85 | 34.6 | 54 | 700 | 144 | 183 | 3,700 | 127 | 5.8 | 6.7 | |
| United Arab Emirates | 3 | 84 | 35 | | | 1 | | | | | | | |
| United Kingdom | 60 | 243 | 248 | 1,459.5 | 4 | 24,430 | 21 | 1,407 | 23,550 | 27 | 3.1 | 2.7 | |
| United States | 282 | 9,629 | 31 | 9,601.5 | 1 | 34,100 | 7 | 9,601 | 34,100 | 3 | 4.2 | 3.0 | |
| Uruguay | 3 | 176 | 19 | 20.0 | 64 | 6,000 | 66 | 30 | 8,880 | 75 | -1.3 | -2.0 | |
| Uzbekistan | 25 | 447 | 60 | 8.8 | 89 | 360 | 171 | 58 | 2,360 | 151 | 4.0 | 2.5 | |
| Venezuela, RB | 24 | 912 | 27 | 104.1 | 36 | 4,310 | 74 | 139 | 5,740 | 96 | 3.2 | 1.2 | |
| Vietnam | 79 | 332 | 241 | 30.4 | 59 | 390 | 164 | 157 | 2,000 | 157 | 5.5 | 4.1 | |
| West Bank and Gaza | 3 | | | 4.9 | 114 | 1,660 | 114 | | | | -6.4 | -10.3 | |
| Yemen, Rep. | 18 | 528 | 33 | 6.6 | 103 | 370 | 167 | 14 | 770 | 197 | 5.1 | 2.4 | |
| Yugoslavia, Fed. Rep. | 11 | 102 | 108 | 10.0 | 83 | 940 | 135 | | | | 5.0 | 4.9 | |
| Zambia | 10 | 753 | 14 | 3.0 | 137 | 300 | 176 | 8 | 750 | 198 | 3.5 | 1.3 | |
| Zimbabwe | 13 | 391 | 33 | 5.9 | 106 | 460 | 158 | 32 | 2,550 | 148 | -4.9 | -6.7 | |
| | | | | | | | | | -, | | | | |

| World | 6,057 s | 133,806 s | 47 w | 31,315 t | 5,170 w | 44,459 t | 7,410 w | 3.9 w | 2.5 w |
|-------------------------|---------|-----------|------|----------|---------|----------|---------|-------|-------|
| Low income | 2,460 | 33,740 | 76 | 997 | 410 | 4,809 | 1,980 | 4.2 | 2.2 |
| Middle income | 2,695 | 67,751 | 40 | 5,319 | 1,970 | 15,196 | 5,680 | 5.6 | 4.6 |
| Lower middle income | 2,048 | 44,421 | 47 | 2,324 | 1,130 | 9,359 | 4,600 | 6.3 | 5.4 |
| Upper middle income | 647 | 23,330 | 28 | 3,001 | 4,640 | 5,915 | 9,210 | 5.1 | 3.7 |
| Low & middle income | 5,154 | 101,491 | 52 | 6,315 | 1,230 | 19,980 | 3,910 | 5.4 | 3.9 |
| East Asia & Pacific | 1,855 | 16,385 | 116 | 1,962 | 1,060 | 7,609 | 4,130 | 7.4 | 6.4 |
| Europe & Central Asia | 474 | 24,217 | 20 | 953 | 2,010 | 3,140 | 6,670 | 6.3 | 6.2 |
| Latin America & Carib. | 516 | 20,459 | 26 | 1,895 | 3,670 | 3,624 | 7,080 | 3.8 | 2.3 |
| Middle East & N. Africa | 295 | 11,023 | 27 | 618 | 2,090 | 1,545 | 5,270 | 4.0 | 2.0 |
| South Asia | 1,355 | 5,140 | 283 | 595 | 440 | 2,984 | 2,240 | 4.2 | 2.3 |
| Sub-Saharan Africa | 659 | 24,267 | 28 | 310 | 470 | 1,044 | 1,600 | 3.1 | 0.6 |
| High income | 903 | 32,315 | 29 | 24,994 | 27,680 | 24,793 | 27,770 | 3.5 | 2.8 |
| Europe EMU | 304 | 2,569 | 120 | 6,604 | 21,730 | 7,117 | 23,600 | 3.4 | 3.1 |

a. PPP is purchasing power parity; see *Definitions*. b. Calculated using the World Bank Atlas method. c. Estimate does not account for recent refugee flows. d. Estimated to be low income (\$755 or less), e. The estimate is based on regression; others are extrapolated from the latest International Comparison Programme benchmark estimates. f. Includes Taiwan, China; Macao, China; and Hong Kong, China. g. Estimated to be lower middle income (\$756-2,995). h. GNI and GNI per capita estimates include the French overseas departments of French Guiana, Guadeloupe, Martinique, and Réunion. i. Estimated to be upper middle income (\$2,996-9,265). j. Included under lower-middle income economies in calculating the aggregates based on earlier data. k. Data refer to mainland Tanzania only. I. Estimated to be high income (\$9,266 or more).

Size of the economy | 1.1



About the data

Population, land area, income, and output are basic measures of the size of an economy. They also provide a broad indication of actual and potential resources. Therefore, population, land area, income—as measured by gross national income (GNI)—and output—as measured by gross domestic product (GDP)—are used throughout the *World Development Indicators* to normalize other indicators.

Population estimates are generally based on extrapolations from the most recent national census. For further discussion of the measurement of population and population growth see *About the data* for table 2.1 and *Statistical methods*.

The surface area of a country or economy includes inland bodies of water and some coastal waterways. Surface area thus differs from land area, which excludes bodies of water, and from gross area, which may include offshore territorial waters. Land area is particularly important for understanding the agricultural capacity of an economy and the effects of human activity on the environment. (For measures of land area and data on rural population density, land use, and agricultural productivity see tables 3.1–3.3.) Recent innovations in satellite mapping techniques and computer databases have resulted in more precise measurements of land and water areas.

GNI (gross national product, or GNP, in the 1968 SNA terminology) measures the total domestic and foreign value added claimed by residents. GNI comprises GDP plus net receipts of primary income (compensation of employees and property income) from nonresident sources.

The World Bank uses GNI per capita in U.S. dollars to classify countries for analytical purposes and to determine borrowing eligibility. See the *Users guide* for definitions of the income groups used in the *World Development Indicators*. For further discussion of the usefulness of national income as a measure of productivity or welfare see *About the data* for tables 4.1 and 4.2.

When calculating GNI in U.S. dollars from GNI reported in national currencies, the World Bank follows its Atlas conversion method. This involves using a three-year average of exchange rates to smooth the effects of transitory exchange rate fluctuations. (For further discussion of the Atlas method see *Statistical methods*.) Note that growth rates are calculated from data in constant prices and national currency units, not from the Atlas estimates.

Because exchange rates do not always reflect international differences in relative prices, this table also shows GNI and GNI per capita estimates converted into international dollars using purchasing power parity (PPP) rates. PPP rates provide a standard measure allowing comparison of real price levels between countries, just as conventional price indexes allow com-

parison of real values over time. The PPP conversion factors used here are derived from price surveys covering 118 countries conducted by the International Comparison Programme (ICP). For 62 countries data come from the most recent round of surveys, completed in 1996; the rest are from the 1993 round and have been extrapolated to the 1996 benchmark. Estimates for countries not included in the surveys are derived from statistical models using available data. All economies shown in the World Development Indicators are ranked by size, including those that appear in table 1.6. Ranks are shown only in table 1.1. (The World Bank Atlas includes a table comparing the GNI per capita rankings based on the Atlas method with those based on the PPP method for all economies with available data.) No rank is shown for economies for which numerical estimates of GNI per capita are not published. Economies with missing data are included in the ranking process at their approximate level, so that the relative order of other economies remains consistent. Where available, rankings for small economies are shown in the World Bank Atlas. In 2000 Luxembourg and Liechtenstein were judged to have the highest GNI per capita in the world.

Growth in GDP and growth in GDP per capita are based on GDP measured in constant prices. Growth in GDP is considered a broad measure of the growth of an economy, as GDP in constant prices can be estimated by measuring the total quantity of goods and services produced in a period, valuing them at an agreed set of base year prices, and subtracting the cost of intermediate inputs, also in constant prices. For further discussion of the measurement of economic growth see *About the data* for table 4.1.

Definitions

- **Population** is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship—except 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 2000. See also table 2.1.
 Surface area is a country's total area,
- including areas under inland bodies of water and some coastal waterways. • Population density is midyear population divided by land area in square kilometers. • Gross national income (GNI) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. Data are in current U.S. dollars converted using the World Bank Atlas method (see Statistical methods). • GNI per capita is gross national income divided by midyear population. GNI per capita in U.S. dollars is converted using the World Bank Atlas method. • PPP GNI is gross national income converted to international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States. • Gross domestic product (GDP) is the sum of
- value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output. **GDP per capita** is gross domestic product divided by midyear population. Growth is calculated from constant price GDP data in local currency.

Data sources

Population estimates are prepared by World Bank staff from a variety of sources (see Data sources for table 2.1). The data on surface and land area are from the Food and Agriculture Organization (see Data sources for table 3.1). GNI, GNI per capita, GDP growth, and GDP per capita growth are estimated by World Bank staff based on national accounts data collected by Bank staff during economic missions or reported by national statistical offices to other international organizations such as the Organisation for Economic Co-operation and Development. Purchasing power parity conversion factors are estimates by World Bank staff based on data collected by the International Comparison Programme.



Millennium Development Goals: 1.2 | eradicating poverty and improving lives

| | Eradicate extreme poverty and hunger | | | Achieve universal primary education Promote gender equality | | | Reduce | | Improve maternal health | | | |
|-----------------------------|---|---------------------------------|---|---|-----------------------------------|---|---|-----------------------|-------------------------|---|---|---------------|
| | Share of poorest quintile in national income or consumption | Child ma weight % chil | alnutrition for age of dren ler 5 | Net p enrol rati | rimary Iment 10 ^{b, c} % | Ratio of f male enr in prima secondary | emale to collments ary and y school ^c | Under mortalit per 1, | -five y rate 000 | Maternal mortality ratio per 100,000 live births modeled estimates | Births att by ski health % of to | lled staff |
| | % 1986-2000ª | 1990 | 2000 | 1990 | ⁷⁶ 1998 | 1990 | ¹998 | live b 1990 | 2000 | 1995 | % 01 to | 1999 |
| Afghanistan | | | 49 | | | 50 | | 257 | 279 | · | 9 | |
| Albania | •• | | 8 | | | 90 | | 42 | | 31 | | |
| Algeria | 7.0 | 9 | 13 | 93 | 94 | 80 | 91 | 55 | 39 | 150 | 77 | |
| Angola | | 20 | 41 | | 57 | | 81 | | 208 | 1,300 | 17 | ··· |
| Argentina | | | 5 | | 107 | | 100 | 28 | 22 | 85 | | ··· |
| Armenia | 5.5 | | 3 | | | | | 24 | 17 | 29 | | 96 |
| Australia | 5.9 | | 0 | 99 | | 96 | | 10 | 7 | 6 | 100 | |
| Austria | 6.9 | | | 90a | 88 | 90 | 92 | 9 | 6 | 11 | | |
| Azerbaijan | 6.9 | | 17 | | 96 | 94 | 95 | | 21 | 37 | | 99 |
| Bangladesh | 8.7 | 66 | 61 | 64 | 104 | 72 | 95 | 136 | 83 | 600 | 7 | 14 |
| Belarus | 11.4 | | | | | | 96 | 16 | 14 | 33 | | |
| Belgium | 8.3 | | | 97 | | 97 | 99 | 9 | 7 | 8 | | |
| Benin | | | 29 | 49 | | | 61 | 185 | 143 | 880 | 38 | 60 |
| Bolivia | 4.0 | 11 | 8 | 91 | 97 | 89 | | 120 | 79 | 550 | 43 | 59 |
| Bosnia and Herzegovina | | | | | | | | 21 | 18 | 15 | | |
| Botswana | | | 17 | 93 | 81 | 107 | 102 | 62 | 99 | 480 | 79 | |
| Brazil | 2.2 | 7 | 6 | 86 | 98 | | 100 | 58 | 39 | 260 | | 88 |
| Bulgaria | 10.1 | | | 86 | 93 | 94 | 93 | 19 | 16 | 23 | | 99 |
| Burkina Faso | 4.6 | | 34 | 27 | 34 | 61 | 66 | 229 | 206 | 1,400 | 30 | 27 |
| Burundi | 5.1 | | | 52 | 38 | 82 | 81 | 180 | 176 | 1,900 | 20 | |
| Cambodia | 6.9 | | 47 | | 104 | | 79 | 119 | 120 | 590 | 47 | 31 |
| Cameroon | 4.6 | 15 | 22 | | | 82 | 81 | 141 | 155 | 720 | 58 | 55 |
| Canada | 7.5 | | | 97 | 96 | 94 | 95 | 8 | 7 | 6 | | |
| Central African Republic | 2.0 | | 23 | 53 | 53 | 61 | | | 152 | 1,200 | 66 | |
| Chad | •• | | 39 | | 55 | | 53 | 209 | 188 | 1,500 | 15 | 11 |
| Chile | 3.3 | | 1 | 88 | 88 | 98 | 95 | 20 | 12 | 33 | | 100 |
| China | 5.9 | 17 | 10 | 97 | 91 | 81 | 89 | 47 | 39 | 60 | | |
| Hong Kong, China | •• | | | | | | | | | | 100 | |
| Colombia | 3.0 | 10 | 8 | 69 | 87 | 104 | 101 | 40 | 23 | 120 | 94 | |
| Congo, Dem. Rep. | •• | | 34 | 54 | 32 | 69 | 80 | 155 | 163 | 940 | | |
| Congo, Rep. | •• | | | | | 88 | | | 106 | 1,100 | | |
| Costa Rica | 4.5 | 3 | 5 | 86 | | 96 | | 16 | 13 | 35 | 97 | |
| Côte d'Ivoire | 7.1 | | 24 | 47 | 59 | | 69 | 150 | 180 | 1,200 | 50 | 47 |
| Croatia | 8.8 | | 1 | 79 | | 97 | 97 | 13 | 9 | 18 | | •• |
| Cuba | | | | 92 | 97 | 101 | 97 | 13 | 9 | 24 | | •• |
| Czech Republic | 10.3 | 1 | | | 90 | 94 | 97 | 12 | 7 | 14 | | •• |
| Denmark | 9.6 | | | 98 | 101 | 96 | 98 | 9 | 6 | 15 | | |
| Dominican Republic | 5.1 | 10 | 6 | •• | 87 | | 103 | 59 | 47 | 110 | 92 | 96 |
| Ecuador Egypt, Arab Rep. | 5.4 9.8 | 10 | 4 | •• | 97 92 | <i>97</i> 78 | 98 88 | <i>5</i> 1 85 | 34 52 | 210 170 | 56 <i>37</i> | 56 |
| El Salvador | 3.3 | 15 | 12 | 75 | 81 | 100 | 95 | 54 | 35 | 180 | 90 | 90 |
| Eritrea | | | 44 | 24 | 34 | 82 | 78 | 140 | 103 | 1,100 | | |
| Estonia | 7.0 | | | 94 | 96 | 99 | 96 | 17 | 103 | 80 | •• | •• |
| Ethiopia | 7.1 | 48 | 47 | | 35 | 68 | 61 | 211 | 179 | 1,800 | 8 | |
| Finland | 10.0 | | | 99 | 99 | 105 | 100 | 7 | 5 | 6 | | |
| France | 7.2 | | | 101 | 100 | 98 | 95 | 10 | 6 | 20 | | •• |
| Gabon | | | | | | | 95 | 94 | 89 | 620 | 79 | |
| Gambia, The | 4.0 | | 26 | 51 | 61 | 64 | 80 | 127 | | 1,100 | 44 | |
| Georgia | 6.1 | | 3 | | | 94 | 95 | | 21 | 22 | | |
| Germany | 8.2 | | | 84 | 87 | 94 | | 9 | 6 | 12 | | |
| Ghana | 5.6 | 30 | 25 | | | | | 119 | 112 | 590 | 55 | 44 |
| Greece | 7.5 | | | 94 | 95 | 93 | 95 | 11 | 8 | 2 | | |
| Guatemala | 3.8 | | 24 | | 83 | | | 68 | 49 | 270 | 30 | |
| Guinea | 6.4 | | 23 | | 46 | 43 | 56 | 215 | 161 | 1,200 | 31 | 35 |
| Guinea-Bissau | 2.1 | | | | | | | 246 | 211 | 910 | | |
| Haiti | | 27 | 28 | 22 | 80 | | | 131 | 111 | 1,100 | 78 | |
| Honduras | 2.2 | 18 | 25 | 89 | | 103 | | 65 | 44 | 220 | 47 | 55 |

Millennium Development Goals: eradicating poverty and improving lives | 1.2



| | Eradicate extreme poverty and hunger | | | Achieve | universal education | Promote equa | - | Reduce | e child | Improve | maternal | health |
|--------------------|---|---------------------|---|---------------|---|--|-----------------------------------|------------------------------------|-----------------|--|---|---------------|
| | Share of poorest quintile in national income or consumption % | weight % chil | alnutrition for age of dren ler 5 | enrol rati | rimary Iment o ^{b. c} % | Ratio of f male enr in prima secondar | rollments ary and y school° | Unde mortali per 1 live b | ty rate ,000 | Maternal mortality ratio per 100,000 live births modeled estimates | Births at by ski health % of t | lled staff |
| | 1986-2000° | 1990 | 2000 | 1990 | 1998 | 1990 | 1998 | 1990 | 2000 | 1995 | 1990 | 1999 |
| Hungary | 10.0 | 2 | | 91 | 82 | 96 | 96 | 17 | 11 | 23 | | |
| India | 8.1 | 64 | 47 | | | 68 | 75 | 112 | 88 | 440 | 44 | |
| Indonesia | 9.0 | | 34 | 97 | | 91 | | 83 | 51 | 470 | 47 | 43 |
| Iran, Islamic Rep. | | | 11 | 99 | | 80 | | 72 | 41 | 130 | 78 | |
| Iraq | | 12 | | 79 | 80 | 75 | 75 | 50 | 121 | 370 | 50 | |
| Ireland | 6.7 | | | 91 | 104 | 99 | 97 | 9 | 7 | 9 | | |
| Israel | 6.1 | | | | 95 | 99 | 94 | 12 | 7 | 8 | | |
| Italy | 8.7 | | | | 101 | 95 | 94 | 10 | 7 | 11 | | |
| Jamaica | 6.7 | 5 | 4 | 96 | 92 | 97 | 99 | 32 | 24 | 120 | 92 | 95 |
| Japan | 10.6 | | | 100 | 102 | 96 | 96 | 6 | 5 | 12 | 100 | |
| Jordan | 7.6 | 6 | 5 | 66 | 64 | 93 | 96 | 34 | 30 | 41 | 87 | 97 |
| Kazakhstan | 6.7 | | 4 | | | | 97 | 34 | 28 | 80 | | 98 |
| Kenya | 5.6 | | 22 | | | | 96 | 97 | 120 | 1,300 | 50 | 44 |
| Korea, Dem. Rep. | | | 32 | | | | | 35 | 90 | 35 | | |
| Korea, Rep. | 7.5 | | | 104 | | 93 | | | 10 | 20 | 95 | |
| Kuwait | | | 2 | 45 | | 97 | 97 | 16 | 13 | 25 | | 98 |
| Kyrgyz Republic | 7.6 | | 11 | | 85 | 100 | 98 | 41 | 35 | 80 | | 98 |
| Lao PDR | 7.6 | | 40 | 61 | 76 | 75 | 79 | 170 | | 650 | | |
| Latvia | 7.6 | | | 83 | 94 | 96 | 98 | 18 | 17 | 70 | | |
| Lebanon | | | 3 | | 78 | | 100 | 40 | 30 | 130 | 95 | 95 |
| Lesotho | 2.8 | 16 | 16 | 73 | 60 | 124 | 112 | 148 | 143 | 530 | 50 | |
| Liberia | | | | | 41 | | 71 | | 185 | | | |
| Libya | | | 5 | 96 | | | 100 | 42 | 32 | 120 | 76 | 94 |
| Lithuania | 7.8 | | | | 94 | 93 | 96 | 14 | 11 | 27 | | |
| Macedonia, FYR | | | 6 | 94 | 96 | 94 | 93 | 33 | 17 | 17 | 88 | |
| Madagascar | 6.4 | 41 | 40 | | 63 | | 96 | 170 | 144 | 580 | 57 | 47 |
| Malawi | | 28 | 30 | 50 | | 79 | | 234 | 193 | 580 | 50 | |
| Malaysia | 4.4 | 25 | 20 | | 98 | 98 | 99 | 21 | 11 | 39 | | |
| Mali | 4.6 | | 27 | 21 | 42 | 57 | 66 | 268 | 218 | 630 | | 24 |
| Mauritania | 6.4 | 48 | 23 | | 60 | 67 | 90 | | 164 | 870 | 40 | 58 |
| Mauritius | | | 15 | 95 | 93 | 98 | 98 | 25 | 20 | 45 | 92 | |
| Mexico | 3.5 | 17 | 8 | 100 | 102 | 96 | 97 | 46 | 36 | 65 | | |
| Moldova | 5.6 | | | | | 103 | | 25 | 22 | 65 | | |
| Mongolia | 7.3 | 12 | 13 | | 85 | 107 | | 102 | 71 | 65 | 100 | |
| Morocco | 6.5 | 10 | | 58 | 79 | 67 | 78 | 83 | 60 | 390 | 31 | |
| Mozambique | 6.5 | | 26 | 47 | 41 | 73 | 72 | 238 | 200 | 980 | | 44 |
| Myanmar | | 32 | 28 | | | 95 | 97 | 130 | 126 | 170 | 94 | 57 |
| Namibia | | 26 | | 89 | 86 | 111 | 103 | 84 | 112 | 370 | 68 | |
| Nepal | 7.6 | | 47 | | | 53 | 69 | 138 | 105 | 830 | 8 | 10 |
| Netherlands | 7.3 | | | 95 | 100 | 93 | 92 | 8 | 7 | 10 | 100 | |
| New Zealand | | | | 101 | | 96 | | 11 | 7 | 15 | | |
| Nicaragua | 2.3 | | 12 | 72 | | | | 63 | 41 | 250 | | 65 |
| Niger | 2.6 | 43 | 40 | 25 | 26 | 54 | 64 | 335 | 248 | 920 | 15 | 18 |
| Nigeria | 4.4 | 35 | 27 | | | 76 | | 136 | 153 | 1,100 | 31 | |
| Norway | 9.7 | | | 100 | 102 | 97 | 96 | 9 | 5 | 9 | | |
| Oman | | 24 | 23 | 70 | 66 | 86 | 94 | 30 | 22 | 120 | 87 | |
| Pakistan | 9.5 | 40 | 38 | | | 47 | •• | 138 | 110 | 200 | 40 | |
| Panama | 3.6 | 6 | 8 | 91 | | 96 | | | 24 | 100 | | |
| Papua New Guinea | 4.5 | | | | 85 | 77 | 79 | 108 | 75 | 390 | 40 | 53 |
| Paraguay | 1.9 | 4 | | 93 | 92 | 95 | 96 | 37 | 28 | 170 | 71 | 71 |
| Peru | 4.4 | 11 | 8 | | 103 | 93 | 94 | 75 | 41 | 240 | 78 | 56 |
| Philippines | 5.4 | 34 | 32 | 97 | | •• | •• | 62 | 39 | 240 | •• | 56 |
| Poland | 7.8 | | | 97 | | 96 | | 22 | 11 | 12 | | |
| Portugal | 7.3 | | | 102 | 108 | 99 | 97 | 15 | 8 | 12 | 98 | 100 |
| Puerto Rico | | | | | | | | | | 30 | | |
| Romania | 8.0 | 6 | | 77 | 94 | 95 | 96 | 36 | 23 | 60 | | |
| Russian Federation | 4.4 | | 3 | | | | 74 | 21 | 19 | 75 | | 99 |



Millennium Development Goals: 1.2 | eradicating poverty and improving lives

| | Eradicate extreme poverty and hunger | | | Achieve u | | Promote equa | - 1 | Reduce morta | | | maternal | health |
|-----------------------|---|--|---------------------|----------------------------------|--------------|---|------------------|--|-------------|---|--|----------------|
| | Share of poorest quintile in national income or consumption % | Child mal weight f % child unde | or age of ren | Net pri enrollr ratio % | ment b, c | Ratio of fe male enro in primar secondary % | Ilments y and | Under- mortality per 1,0 live bii | rate 000 | Maternal mortality ratio per 100,000 live births modeled estimates | Births at by sk health % of t | illed staff |
| | 1986-2000ª | 1990 | 2000 | 1990 | 1998 | 1990 | 1998 | 1990 | 2000 | 1995 | 1990 | 1999 |
| Rwanda | 9.7 | 29 | 27 | 66 | 91 | 98 | 100 | | 203 | 2,300 | 26 | |
| Saudi Arabia | | | | 59 | 59 | 82 | 89 | 45 | 23 | 23 | 88 | 91 |
| Senegal | 6.4 | 22 | 13 | 48 | 59 | 69 | 78 | 148 | 129 | 1,200 | 42 | 47 |
| Sierra Leone | 1.1 | 29 | | | | 67 | | 323 | 267 | 2,100 | | |
| Singapore | | | | | | 89 | | 8 | 6 | 9 | | 100 |
| Slovak Republic | 11.9 | | | | | 98 | 97 | 14 | 10 | 14 | | |
| Slovenia | 9.1 | | | | 94 | 97 | 97 | 10 | 7 | 17 | | |
| Somalia | | | 26 | | | | | 215 | 195 | | | |
| South Africa | 2.9 | | 9 | 103 | | 103 | 102 | 73 | 79 | 340 | | 84 |
| Spain | 7.5 | | | 103 | 105 | 99 | 98 | 9 | 6 | 8 | | |
| Sri Lanka | 8.0 | | 33 | | 102 | 99 | 99 | 23 | 18 | 60 | 85 | 95 |
| Sudan | | | 34 | | 46 | 75 | 86 | 125 | | 1,500 | 69 | |
| Swaziland | 2.7 | | | 88 | 77 | | 96 | 115 | 119 | | 55 | |
| Sweden | 9.6 | | | 100 | 103 | 97 | 110 | 7 | 4 | 8 | 11 | |
| Switzerland | 6.9 | | | 84 | 94 | 92 | 91 | 8 | 6 | 8 | | |
| Syrian Arab Republic | | | 13 | 98 | 93 | 82 | 88 | 59 | 29 | 200 | 64 | |
| Tajikistan | 8.0 | | -18 | | | | | | 30 | 120 | | |
| Tanzania | 6.8 | 29 | 29 | 51 | 48 | 97 | | 178 | 149 | 1,100 | 44 | 35 |
| Thailand | 6.4 | | | | 77 | 94 | 96 | 41 | 33 | 44 | 71 | |
| Togo | | 25 | 25 | 75 | 88 | 59 | 67 | 142 | 142 | 980 | 32 | 51 |
| Trinidad and Tobago | 5.5 | | | 91 | 93 | 98 | 100 | 24 | 19 | 65 | | 99 |
| Tunisia | 5.7 | 10 | 4 | 94 | 98 | 82 | 93 | 52 | 30 | 70 | 80 | 82 |
| Turkey | 5.8 | | 8 | 89 | 100 | 77 | | 67 | 43 | 55 | 77 | 81 |
| Turkmenistan | 6.1 | | | | | | | | 43 | 65 | | |
| Uganda | 7.1 | 23 | 26 | | | | 88 | 165 | 161 | 1,100 | 38 | |
| Ukraine | 8.8 | | | | | | 106 | | 16 | 45 | | |
| United Arab Emirates | | | 7 | 94 | 83 | 96 | 96 | | 10 | 30 | 96 | |
| United Kingdom | 6.1 | | | 97 | 102 | 97 | 103 | 9 | 7 | 10 | 100 | |
| United States | 5.2 | | 1 | 96 | 95 | 95 | 83 | 10 | 9 | 12 | | 99 |
| Uruguay | 5.4 | 6 | 4 | 91 | 92 | | 108 | 24 | 17 | 50 | | |
| Uzbekistan | 4.0 | | 19 | | | | | | 27 | 60 | | 98 |
| Venezuela, RB | 3.0 | 8 | 4 | 88 | | 101 | | 27 | 24 | 43 | 97 | |
| Vietnam | 8.0 | 45 | 37 | | 97 | | 88 | 54 | 34 | 95 | 95 | 77 |
| West Bank and Gaza | | | 15 | | | | | 53 | 26 | | | |
| Yemen, Rep. | 7.4 | 30 | 46 | | 61 | | 47 | 130 | 95 | 850 | 16 | 22 |
| Yugoslavia, Fed. Rep. | | | 2 | 69 | | 96 | 96 | 26 | 15 | 15 | | 93 |
| Zambia | 3.3 | 25 | 24 | | 73 | | 89 | 194 | 186 | 870 | 41 | 47 |
| Zimbabwe | 4.7 | 12 | 13 | | | 96 | | 77 | 116 | 610 | 62 | 84 |
| | T. I | | | •• | •• | | •• | , , | 110 | 010 | - J2 | 0- |
| World | | W | w | w | w | 85 w | 87 w | 83 w | 78 w | | | |
| Low income | | | | | | | 79 | 123 | 115 | | 43 | |
| EOW INCOME. | | | | | •• | | 13 | 120 | 110 | | +0 | |

| World | w | w | w | w | 85 w | 87 w | 83 w | 78 w | | |
|-------------------------|----|----|----|----|------|------|------|------|--------|--|
| Low income | | | | | | 79 | 123 | 115 | 43 | |
| Middle income | | 13 | 95 | 92 | 84 | 90 | 49 | 39 | | |
| Lower middle income | 18 | 11 | 96 | 91 | 82 | 88 | 50 | 41 | | |
| Upper middle income | | | 91 | 97 | 93 | 99 | 48 | 35 | | |
| Low & middle income | | | | | 82 | 86 | 88 | 84 | | |
| East Asia & Pacific | 19 | 13 | 98 | 91 | 84 | 89 | 55 | 45 | | |
| Europe & Central Asia | | | | | 90 | 88 | 34 | 25 | | |
| Latin America & Carib. | | 9 | 89 | 97 | | 99 | 49 | 37 | | |
| Middle East & N. Africa | | 15 | | 83 | 79 | 84 | 72 | 54 | | |
| South Asia | 64 | 49 | | | | 78 | 121 | 96 | 39 | |
| Sub-Saharan Africa | | | | | 79 | 80 | | 162 | | |
| High income | | | 98 | | 96 | 92 | 9 | 7 | | |
| Europe EMU | | | 93 | | 97 | 96 | 10 | 6 | | |
| | | | | | | | | | | |

a. Data are for the most recent year available. See table 2.8 for survey year and whether share is based on income or consumption expenditure. b. Net enrollment ratios exceeding 100 percent indicate discrepancies between estimates of the school-age population and reported enrollment data. c. Break in series between 1997 and 1998 is due to change from ISCED76 to ISCED97.

Millennium Development Goals: eradicating poverty and improving lives | 1.2



About the data

This table and the following two provide indicators for 17 of the 18 targets specified by the Millennium Development Goals (MDGs). Each of the eight goals comprises one or more targets and each target has associated with it several indicators by which progress toward the target can be monitored. Most of the targets are set as a value of a specific indicator to be attained by a certain date. In some cases the target value is set relative to a level in 1990. In others it is set at an absolute level. Some of the targets for goals 7 and 8 have not yet been quantified.

The indicators in the table are taken from goals 1-5. Goal 1 has two targets between 1990 and 2015: to reduce by half the proportion of people whose income is less than \$1 a day and to reduce by half the proportion of people who suffer from hunger. Estimates of poverty rates can be found in table 2.6. The indicator shown here, the share of the poorest quintile in national income or consumption, is a distributional measure. Countries with less equal income distributions will have a higher rate of poverty for a given average income. There is no single indicator that captures the concept of suffering from hunger. Child malnutrition is a symptom of inadequate food supply, lack of essential nutrients, illnesses that deplete these nutrients, and undernourished mothers who give birth to underweight children. Progress toward achieving universal primary education has commonly been measured by net enrollment ratios. However, there are sometimes large differences between official enrollments and actual attendance, and even school systems with high average enrollment ratios may have poor completion rates.

Eliminating gender disparities in education would help to increase the status and capabilities of women. The ratio of girls' to boys' enrollment provides an imperfect measure of the relative accessibility of schooling for girls. With a target date of 2005, this is the first of the targets to fall due.

The targets for reducing under-five and maternal mortality are among the most challenging of the Millennium Development Goals. Although estimates of under-five mortality rates are available at regular intervals for most countries, maternal mortality is difficult to measure, in part because it is a relatively rare event.

In addition to the indicators shown in these tables, most of the 48 indicators included in the Millennium Development Goals can be found elsewhere in the *World Development Indicators*. Table 1.2a provides an index for locating the indicators for the first five goals in other tables. More information about data collection methodologies and limitations can be found in *About the data* for those tables.

Table 1.2a

Location of indicators for goals 1-5

Goal 1. Eradicate extreme poverty and hunger

- 1. Proportion of population below \$1 a day (table 2.6)
- 2. Poverty gap ratio (table 2.6)
- 3. Share of poorest quintile in national consumption (table 2.8)
- 4. Prevalence of underweight in children (under five years of age) (table 2.18)
- 5. Proportion of population below minimum level of dietary energy consumption (table 2.18)

Goal 2. Achieve universal primary education

- 6. Net enrollment ratio in primary education (table 2.12)
- 7. Proportion of pupils starting grade 1 who reach grade 5 (table 2.13)
- 8. Literacy rate of 15- to 24-year-olds (table 2.14)

Goal 3. Promote gender equality and empower women

- 9. Ratio of girls to boys in primary, secondary and tertiary education (tables 1.2 and 2.12)
- 10. Ratio of literate females to males, among 15- to 24-year-olds (tables 1.5 and 2.14)
- 11. Share of women in wage employment in the nonagricultural sector (table 2.3)
- 12. Proportion of seats held by women in national parliament (See women in decision-making positions in table 1.5.)

Goal 4. Reduce child mortality

- 13. Under-five mortality rate (table 2.20)
- 14. Infant mortality rate (table 2.20)
- 15. Proportion of one year-old children immunized against measles (table 2.16)

Goal 5. Improve maternal health

- 16. Maternal mortality ratio (table 2.17)
- 17. Proportion of births attended by skilled health personnel (table 2.17)

Definitions

- Share of the poorest quintile in national income or consumption is the share of consumption or, in some cases, income that accrues to the poorest 20 percent of the population.
- Child malnutrition is the percentage of children under five whose weight for age is less than minus two standard deviations from the median for the international reference population ages 0–59 months. The reference population, adopted by the World Health Organization in 1983, is based on children from the United States, who are assumed to be well nourished.
- Net primary enrollment ratio is the ratio of the number of children of official school age (as defined by the education system) enrolled in school to the number of children of official school age in the population. Ratio of female to male enrollments in primary and secondary school is the ratio of the number of female students enrolled in primary and secondary school to the number of male students. 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.
- Maternal mortality ratio is the number of women who die during pregnancy and childbirth, per 100,000 live births. The data shown here have been collected in various years and adjusted to a common 1995 base year. 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.

Data sources

The indicators here, and where they appear throughout the rest of the book, have been compiled by World Bank staff from primary and secondary sources. More information can be found in *About the data, Definitions,* and *Data sources* entries that accompany each table in subsequent sections. More information about the Millennium Development Goals and related indicators can be found at www.developmentgoals.org.

Millennium Development Goals: 1.3 protecting our common environment

| | | mbat HIV/AII other diseas | | | | Ensure env sustain | | | | Develop a partners develop | hip for |
|--------------------------|--|------------------------------|---|--------------------------|----------------|---------------------------------------|----------------|--|-----------------------|--------------------------------------|---|
| | HIV pres male % ages 15-24 1999 ^b | female | Incidence of tuberculosis per 100,000 people 1999 | emiss per c metric | sions apita | Access improved sou % of pop | d water rce | Acces impro sanita facili % of pop | oved ation ties | Unemployment % ages 15-24 1999 | Telephone ^a lines per 1,000 people 2000 |
| Afghanistan | | | 325 | 0.1 | 0.0 | | 13 | | 12 | | 1 |
| Albania | | | 29 | 2.2 | 0.5 | ··· | | ··· | | | 39 |
| Algeria | | | 45 | 3.2 | 3.6 | | 94 | | 73 | | 57 |
| Angola | 1.3 | 2.7 | 271 | 0.5 | 0.5 | •• | 38 | | 44 | | 5 |
| Argentina | 0.9 | 0.3 | 55 | 3.4 | 3.8 | | 79 | | 85 | | 213 |
| Armenia | | | 58 | 1.0 | 0.9 | | | | | | 152 |
| Australia | 0.1 | 0.0 ° | 8 | 15.6 | 17.7 | 100 | 100 | 100 | 100 | 14 | 525 |
| Austria | 0.2 | 0.1 | 16 | 7.4 | 7.9 | 100 | 100 | 100 | 100 | 6 | 467 |
| Azerbaijan | | | 62 | 6.4 | 4.9 | | | | | | 104 |
| Bangladesh | 0.0 ° | 0.0 ° | 241 | 0.1 | 0.2 | 91 | 97 | 97 | 53 | | 4 |
| Belarus | 0.4 | 0.2 | 80 | 9.3 | 6.0 | | 100 | | | | 269 |
| Belgium | 0.1 | 0.1 | 15 | 10.1 | 9.9 | | | | | 23 | 498 |
| Benin | 0.9 | 2.2 | 266 | 0.1 | 0.1 | | 63 | 20 | 23 | | 8 |
| Bolivia | 0.1 | 0.0 ° | 238 | 0.8 | 1.5 | 74 | 79 | 55 | 66 | | 61 |
| Bosnia and Herzegovina | | | 87 | | 1.2 | | | | | | 103 |
| Botswana | 15.8 | 34.3 | 702 | 1.7 | 2.4 | 95 | | 61 | | | 93 |
| Brazil | 0.7 | 0.3 | 70 | 1.4 | 1.8 | 82 | 87 | 72 | 77 | 18 | 182 |
| Bulgaria | •• | | 46 | 8.6 | 5.7 | | | | | 33 | 350 |
| Burkina Faso | 2.3 | 5.8 | 319 | 0.1 | 0.1 | 53 | | 24 | 29 | | 4 |
| Burundi | 5.7 | 11.6 | 382 | 0.0 | 0.0 | 65 | | 89 | | | 3 |
| Cambodia | 2.4 | 3.5 | 560 | 0.0 | 0.1 | | 30 | | 18 | | 2 |
| Cameroon | 3.8 | 7.8 | 335 | 0.1 | 0.1 | 52 | 62 | 87 | 92 | | 6 |
| Canada | 0.3 | 0.1 | 7 | 15.4 | 15.4 | 100 | 100 | 100 | 100 | 14 | 677 |
| Central African Republic | 6.9 | 14.1 | 415 | 0.1 | 0.1 | 59 | 60 | 30 | 31 | | 3 |
| Chad | 1.9 | 3.0 | 270 | 0.0 | 0.0 | | 27 | 18 | 29 | | 1 |
| Chile | 0.3 | 0.1 | 26 | 2.7 | 4.1 | 90 | 94 | 97 | 97 | 21 | 221 |
| China | 0.1 | 0.0 ° | 103 | 2.1 | 2.5 | 71 | 75 | 29 | 38 | 3 | 112 |
| Hong Kong, China | 0.1 | 0.0° | 91 | 4.6 | 5.4 | | | | | 10 | 583 |
| Colombia | 0.4 | 0.1 | 51 | 1.6 | 1.7 | 87 | 91 | 82 | 85 | 24 | 169 |
| Congo, Dem. Rep. | 2.5 3.2 | 5.1 6.5 | 301 318 | 0.1 | 0.1 | •• | 45 51 | | 20 | •• | 7 |
| Congo, Rep. Costa Rica | 0.6 | 0.3 | 17 | 1.0 | 1.4 | •• | 98 | | 96 | 12 | 249 |
| Côte d'Ivoire | 3.8 | 9.5 | 375 | 1.0 | 0.9 | 65 | 77 | 49 | | | 18 |
| Croatia | 0.0° | 9.5 0.0° | 61 | 3.5 | 4.5 | | 95 | | 100 | 30 | 365 |
| Cuba | 0.0 | 0.0° | 15 | 3.0 | 2.2 | •• | 95 | | 95 | | 44 |
| Czech Republic | 0.1 | 0.0° | 19 | 13.1 | 11.5 | | | | | 17 | 378 |
| Denmark | 0.2 | 0.0 | 12 | 9.9 | 10.1 | | 100 | | | 10 | 720 |
| Dominican Republic | 2.6 | 2.8 | 135 | 1.3 | 2.5 | 78 | 79 | 60 | 71 | | 105 |
| Ecuador | 0.4 | 0.1 | 172 | 1.6 | 2.2 | | 71 | | 59 | 24 | 100 |
| Egypt, Arab Rep. | | | 39 | 1.4 | 1.7 | 94 | 95 | 87 | 94 | | 86 |
| El Salvador | 0.7 | 0.3 | 67 | 0.5 | 1.0 | | 74 | | 83 | 13 | 100 |
| Eritrea | | | 272 | | | | 46 | | 13 | | 8 |
| Estonia | | | 61 | 15.9 | 12.1 | | | | | 16 | 363 |
| Ethiopia | 7.5 | 11.9 | 373 | 0.1 | 0.0 | 22 | 24 | 13 | 15 | | 4 |
| Finland | 0.0 ° | 0.0 ° | 12 | 10.6 | 10.3 | 100 | 100 | 100 | 100 | 22 | 550 |
| France | 0.3 | 0.2 | 16 | 6.3 | 6.3 | | | | | 27 | 579 |
| Gabon | 2.3 | 4.7 | 289 | 7.1 | 2.4 | | 70 | | 21 | | 32 |
| Gambia, The | 0.9 | 2.2 | 260 | 0.2 | 0.2 | | 62 | | 37 | | 26 |
| Georgia | | | 72 | 2.8 | 1.0 | | 76 | | 99 | | 139 |
| Germany | 0.1 | 0.0 ° | 13 | 11.1 | 10.1 | | | | | 9 | 611 |
| Ghana | 1.4 | 3.4 | 281 | 0.2 | 0.2 | 56 | 64 | 60 | 63 | | 12 |
| Greece | 0.1 | 0.1 | 22 | 7.1 | 8.1 | | | | | 30 | 532 |
| Guatemala | 1.2 | 0.9 | 85 | 0.6 | 0.9 | 78 | 92 | 77 | 85 | | 57 |
| Guinea | 0.6 | 1.4 | 255 | 0.2 | 0.2 | 45 | 48 | 55 | 58 | | 8 |
| Guinea-Bissau | 1.0 | 2.5 | 267 | 0.8 | 0.8 | | 49 | | 47 | | 9 |
| Haiti | 4.9 | 2.9 | 361 | 0.2 | 0.2 | 46 | 46 | 25 | 28 | | 9 |
| Honduras | 1.4 | 1.7 | 92 | 0.5 | 0.8 | 84 | 90 | | 77 | 6 | 46 |

Millennium Development Goals: protecting our common environment | 1.3



| Part | | | nbat HIV/AI other disea | | | | Ensure envi | | | | Develop a partners develop | hip for |
|---|--------------------|----------------------|----------------------------|---------------------------------------|--------------------------|------------------------|------------------------------|----------------------------|---------------------------------------|-----------------------------------|----------------------------------|---------------------------|
| Mangany | | male % ages 15-24 | female % ages 15-24 | tuberculosis per 100,000 people | emiss per c metric | sions apita tons | improved sout % of pop | d water rce oulation | impro sanita facili % of pop | oved ation ties oulation | % ages 15-24 | lines per 1,000 people |
| Incide | Hundan | | | | | | | | | | | |
| Incomession Color Color | | | | | | | | | | | | |
| Instance Instance | | | | | | | | | | | | |
| Incident | - | | | | | | | | | | | |
| Indened | | | | | | | | | | | | |
| Israel | • | | | | | | | | | | | |
| Instance | Israel | 0.1 | 0.1 | 8 | 7.4 | 10.1 | | | | | 17 | 482 |
| Japan | Italy | 0.3 | 0.2 | 9 | 7.0 | 7.2 | | | | | 33 | 474 |
| March | Jamaica | 0.6 | 0.4 | 8 | 3.3 | 4.3 | | 71 | | 84 | 34 | 199 |
| Nazaminatinatinatinatinatinatinatinatinatinat | Japan | 0.0 ° | 0.0 ° | 29 | 8.7 | 9.0 | | | | | 9 | 586 |
| Kernya | Jordan | | | 11 | 3.2 | 3.0 | 97 | 96 | 98 | 99 | | 93 |
| Korea, Rep. 176 12.3 11.3 46 Korea, Rep. 0.0° 0.0° 69 5.6 7.8 92 63 14 484 Kwait 31 19.9 26.3 100 24 Labroa 0.0° 0.1 107 10.1 0.1 0.0° 23 303 Leboth 12.1 26.4 542 | Kazakhstan | 0.1 | | 130 | 15.6 | 8.2 | | 91 | | 99 | | 113 |
| Korea, Rep. 0.0° 0.0° 69 5.6 7.8 92 63 14 464 Kwalit 3.1 1.99 26.3 244 Kyngr Republic 130 2.5 1.3 77 100 24 Labria 0.2° 0.1 171 0.1 0.1 90 46 28 Lebanon 24 2.5 3.9 100 99 105 Libya 271 0.2 0.1 90 29 105 Libya | Kenya | 6.4 | 13.0 | 417 | 0.2 | 0.3 | 40 | 49 | 84 | 86 | | 10 |
| Kuwait < | Korea, Dem. Rep. | | | 176 | 12.3 | 10.3 | | | | | | 46 |
| Kyrgyz Republic 130 2.5 1.3 77 100 78 Lab POR 0.0° 0.1 171 0.1 0.1 0.2 0.1 171 0.1 0.1 0.2 0.1 105 4.8 3.2 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 195 190 190 | Korea, Rep. | 0.0 ° | 0.0 ° | 69 | 5.6 | 7.8 | | 92 | | 63 | 14 | 464 |
| LaPPR | Kuwait | | | 31 | 19.9 | 26.3 | | | | | | 244 |
| Lativia 0.2 0.1 105 4.8 3.2 23 393 Lebanon 24 2.5 3.9 100 99 191 Lebrano 1.2 26.4 542 . | Kyrgyz Republic | | | 130 | 2.5 | 1.3 | | 77 | | 100 | | 77 |
| Lebanon 1. | Lao PDR | 0.0 ° | 0.1 | 171 | 0.1 | 0.1 | | 90 | | 46 | | 8 |
| Lebertho 12.1 26.4 542 91 92 10 Liberia 271 0.2 0.1 | Latvia | 0.2 | 0.1 | 105 | 4.8 | 3.2 | | | | | 23 | 303 |
| Liberia | Lebanon | | | 24 | 2.5 | 3.9 | | 100 | | 99 | | 195 |
| Libya | Lesotho | 12.1 | 26.4 | 542 | | | | 91 | | 92 | | 10 |
| Lithuania | Liberia | | | 271 | 0.2 | 0.1 | | | | | | 2 |
| Macedonia, FYR 5.0 5.5 6.1 99 99 255 Madagascar 0.0° 0.1 236 0.1 0.1 44 47 36 42 3 Malawi 7.0 15.3 443 0.1 0.1 49 57 73 37 7 44 Malaysia 0.6 0.1 111 3.0 5.4 199 Mali 1.3 2.1 261 0.0 0.0 55 65 70 69 3 Mauritius 0.0° 0.0° 68 1.1 1.5 100 100 100 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Mexico 0.4 0.1 39 3.7 3.3 60 . | Libya | | | 24 | 8.8 | 7.2 | 71 | 72 | 97 | 97 | | 108 |
| Malagascar 0.0° 0.1 236 0.1 0.1 44 47 36 42 3 Malawi 7.0 15.3 443 0.1 0.1 49 57 73 77 4 Malaysia 0.6 0.1 111 3.0 5.4 199 Mali 1.3 2.1 261 0.0 0.0 55 65 70 69 3 Mauritius 0.0° 0.0° 68 1.1 1.5 100 100 100 99 235 Moldova 0.3 0.1 130 4.8 2.2 100 133 Morpoli 205 4.7 3.3 60 133 Morpoli 119 1.0 1.2 275< | Lithuania | | | 99 | 5.7 | 4.2 | | | | | 25 | 321 |
| Malawi 7.0 15.3 443 0.1 0.1 49 57 73 77 4 Malaysia 0.6 0.1 111 3.0 5.4 199 Malini 1.3 2.1 261 0.0 0.0 55 55 70 69 3 Mauritania 0.4 0.6 241 1.3 1.2 37 37 30 33 7 Mauritus 0.0° 0.0° 88 1.1 1.5 100 100 100 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 133 60 30 60 Morrico | Macedonia, FYR | | | 50 | 5.5 | 6.1 | | 99 | | 99 | | 255 |
| Malaysia 0.6 0.1 111 3.0 5.4 199 Mali 1.3 2.1 261 0.0 0.0 55 65 70 69 3 Mauritunia 0.4 0.6 241 1.3 1.2 37 37 30 33 7 Maurituis 0.0° 0.0° 68 1.1 1.5 100 100 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 126 Moramidia 0.3 0.1 130 4.8 2.2 100 4.0 <td>Madagascar</td> <td>0.0 °</td> <td>0.1</td> <td>236</td> <td>0.1</td> <td>0.1</td> <td>44</td> <td>47</td> <td>36</td> <td>42</td> <td></td> <td>3</td> | Madagascar | 0.0 ° | 0.1 | 236 | 0.1 | 0.1 | 44 | 47 | 36 | 42 | | 3 |
| Mail 1.3 2.1 261 0.0 0.0 55 65 70 69 3 Mauritana 0.4 0.6 241 1.3 1.2 37 37 30 33 7 Mauritius 0.0° 0.0° 68 1.1 1.5 100 100 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 133 Moldova 0.3 0.1 130 4.8 2.2 100 133 Morpolica 119 1.0 1.2 75 82 62 75 35 50 Morpolica 6.7 14.7 407 0.1 0.1 0.2 64 68 | Malawi | | | | | | 49 | 57 | 73 | 77 | | |
| Mauritania 0.4 0.6 241 1.3 1.2 37 37 30 33 7 Mauritius 0.0° 0.0° 68 1.1 1.5 100 100 100 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 133 Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 1.4.7 407 0.1 0.1 60 43 40 Maunibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 | | | | | | | | | | | | |
| Mauritius 0.0° 0.0° 68 1.1 1.5 100 100 190 99 235 Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 133 Morgolla 205 4.7 3.3 60 30 56 Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 14.7 407 0.1 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Mammar 1.0 1.7 10 0.1 0.2 | | | | | | | | | | | | |
| Mexico 0.4 0.1 39 3.7 3.9 83 86 69 73 3 125 Moldova 0.3 0.1 130 4.8 2.2 100 133 Mongolia 205 4.7 3.3 60 30 56 Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 14.7 407 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 | | | | | | | | | | | | |
| Moldova 0.3 0.1 130 4.8 2.2 100 133 Mongolia 205 4.7 3.3 60 30 56 Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 14.7 407 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 Netherlands 0.2 0.1 10.0° 6 6.9 | | | | | | | | | | | | |
| Mongolia 205 4.7 3.3 60 30 56 Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 14.7 407 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 New Zealand 0.1 0.0° 6 6.9 7.9 14 500 Niger 0.9 1.5 252 0.1 0.1 53 59 | | | | | | | 83 | | 69 | 73 | 3 | |
| Morocco 119 1.0 1.2 75 82 62 75 35 50 Mozambique 6.7 14.7 407 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 New Zealand 0.1 0.0° 6 6.9 7.9 14 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Nigeria 0.5 5.5 1.301 0.9 0.6 | | 0.3 | 0.1 | | | | | | •• | | | |
| Mozambique 6.7 14.7 407 0.1 0.1 60 43 4 Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 Netherlands 0.2 0.1 10 10.0 10.4 100 100 100 100 100 100 7 618 New Zealand 0.1 0.0 6 6.9 7.9 14 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 14 500 Niger 0.9 | | | | | | | | | | | | |
| Myanmar 1.0 1.7 169 0.1 0.2 64 68 45 46 6 Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 Netherlands 0.2 0.1 10 10.0 10.4 100 100 100 100 7 618 New Zealand 0.1 0.0° 6 6.9 7.9 | | | | | | | | | | | | |
| Namibia 9.1 19.8 490 0.0 72 77 33 41 63 Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 New Zealand 0.1 0.0 ° 6 6.9 7.9 14 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Norway 0.1 0.0 ° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0 ° 177 0.6 0.7 | • | | | | | | | | | | | |
| Nepal 0.1 0.2 209 0.0 0.1 66 81 21 27 12 Netherlands 0.2 0.1 10 10.0 10.4 100 100 100 100 7 618 New Zealand 0.1 0.0° 6 6.9 7.9 1.4 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 | | | | | | | | | | | | |
| Netherlands 0.2 0.1 10 10.0 10.4 100 100 100 100 7 618 New Zealand 0.1 0.0° 6 6.9 7.9 14 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 | | | | | | | | | | | | |
| New Zealand 0.1 0.0° 6 6.9 7.9 1.4 500 Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 8 | · | | | | | | | | | | | |
| Nicaragua 0.2 0.1 88 0.7 0.7 70 79 76 84 31 Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Papua New Guinea 0.1 0.0° 68 0.5 0.9 63 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | | | | | | | | | | | | |
| Niger 0.9 1.5 252 0.1 0.1 53 59 15 20 2 Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Panama 0.1 0.2 250 0.6 0.5 42 | | | | | | | | | | | | |
| Nigeria 2.5 5.1 301 0.9 0.6 49 57 60 63 4 Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Panama 1.6 1.4 1.3 2.1 87 <td></td> | | | | | | | | | | | | |
| Norway 0.1 0.0° 5 7.5 7.6 100 100 10 532 Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Papua New Guinea 0.1 0.2 250 0.6 0.5 42 42 82 82 13 Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 | | | | | | | | | | | | |
| Oman 10 7.1 8.8 37 39 84 92 89 Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Papua New Guinea 0.1 0.2 250 0.6 0.5 42 42 82 82 13 Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 < | - | | | | | | | | | | | |
| Pakistan 0.1 0.0° 177 0.6 0.7 84 88 34 61 10 22 Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Papua New Guinea 0.1 0.2 250 0.6 0.5 42 42 82 82 13 Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 | | | | | | | | | | | | |
| Panama 1.6 1.4 54 1.3 2.1 87 94 29 151 Papua New Guinea 0.1 0.2 250 0.6 0.5 42 42 82 82 13 Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 <td></td> | | | | | | | | | | | | |
| Papua New Guinea 0.1 0.2 250 0.6 0.5 42 42 82 82 13 Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 | | | | | | | | | | | | |
| Paraguay 0.1 0.0° 68 0.5 0.9 63 79 89 95 50 Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 23 332 Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| Peru 0.4 0.2 228 1.0 1.1 72 77 64 76 64 Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 23 332 Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | • | | | | | | | | | | | |
| Philippines 0.0° 0.1 314 0.7 1.0 87 87 74 83 19 40 Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 23 332 Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| Poland 39 9.1 8.3 30 282 Portugal 0.6 0.2 53 4.3 5.5 .9 430 Puerto Rico 9 3.3 4.6 .23 332 Romania 0.0 ° 0.0 ° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| Portugal 0.6 0.2 53 4.3 5.5 9 430 Puerto Rico 9 3.3 4.6 23 332 Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| Puerto Rico 9 3.3 4.6 23 332 Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| Romania 0.0° 0.0° 130 6.7 4.1 58 53 20 175 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TAGONAN TOGGRANDIN 0.0 0.1 120 10.0 3.0 33 27 210 | Russian Federation | 0.3 | 0.1 | 123 | 13.3 | 9.8 | | 99 | | | 27 | 218 |



Millennium Development Goals: 1.3 | protecting our common environment

| | | mbat HIV/All other diseas | | | | Ensure env sustain | | | | Develop a global partnership for development | | |
|-------------------------|---|------------------------------|---|-----------------------------------|--------------|---------------------------------------|----------------|--|-----------------------|--|-------|--|
| | HIV pre male % ages 15-24 1999 ^b | female | Incidence of tuberculosis per 100,000 people 1999 | CO, emissi per ca metric | ions pita | Access improved sou % of pop | d water rce | Acces impro sanita facili % of pop | oved ation ties | Unemployment % ages 15-24 1999 | | |
| Rwanda | 5.2 | 10.6 | 381 | 0.1 | 0.1 | | 41 | | 8 | | 2 | |
| Saudi Arabia | | | 45 | 11.3 | 14.4 | | 95 | | 100 | | 137 | |
| Senegal | 0.7 | 1.6 | 258 | 0.4 | 0.4 | 72 | 78 | 57 | 70 | | 22 | |
| Sierra Leone | 1.2 | 2.9 | 274 | 0.1 | 0.1 | | 28 | | 28 | | 4 | |
| Singapore | 0.2 | 0.2 | 48 | 13.8 | 21.0 | 100 | 100 | 100 | 100 | 7 | 484 | |
| Slovak Republic | 0.0 ° | 0.0 ° | 28 | 8.1 | 7.1 | | 100 | | 100 | 32 | 314 | |
| Slovenia | 0.0 ° | 0.0 ° | 27 | 6.1 | 7.4 | 100 | 100 | | | 18 | 386 | |
| Somalia | | | 365 | 0.0 | 0.0 | | | | | | 2 | |
| South Africa | 11.3 | 24.8 | 495 | 8.3 | 8.3 | | 86 | | 86 | 58 | 114 | |
| Spain | 0.5 | 0.2 | 59 | 5.5 | 6.3 | | | | | 29 | 421 | |
| Sri Lanka | 0.0 ° | 0.1 | 59 | 0.2 | 0.4 | 66 | 83 | 82 | 83 | 28 | 41 | |
| Sudan | | | 195 | 0.1 | 0.1 | 67 | 75 | 58 | 62 | | 12 | |
| Swaziland | | | 564 | 0.6 | 0.4 | | | | | | 32 | |
| Sweden | 0.1 | 0.0 ° | 4 | 5.7 | 5.5 | 100 | 100 | 100 | 100 | 14 | 682 | |
| Switzerland | 0.4 | 0.3 | 9 | 6.4 | 5.9 | 100 | 100 | 100 | 100 | 6 | 727 | |
| Syrian Arab Republic | | | 85 | 3.0 | 3.3 | | 80 | | 90 | | 103 | |
| Tajikistan | | | 105 | 3.7 | 0.8 | | | | | | 36 | |
| Tanzania | 4.0 | 8.1 | 340 | 0.1 | 0.1 | 50 | 54 | 88 | 90 | | 5 | |
| Thailand | 1.2 | 2.3 | 141 | 1.7 | 3.2 | 71 | 80 | 86 | 96 | 7 | 92 | |
| Togo | 2.2 | 5.5 | 313 | 0.2 | 0.2 | 51 | 54 | 37 | 34 | | 9 | |
| Trinidad and Tobago | 0.8 | 0.6 | 12 | 13.9 | 17.4 | | 86 | | 88 | 25 | 231 | |
| Tunisia | | | 37 | 1.6 | 2.4 | 80 | | 76 | | | 90 | |
| Turkey | | | 38 | 2.6 | 3.2 | 80 | 83 | 87 | 91 | 15 | 280 | |
| Turkmenistan | •• | | 90 | 6.9 | 5.7 | | 58 | | 100 | | 82 | |
| Uganda | 3.8 | 7.8 | 343 | 0.0 | 0.1 | 44 | 50 | 84 | 75 | | 3 | |
| Ukraine | 1.3 | 0.8 | 73 | 11.5 | 7.0 | | | | | 23 | 199 | |
| United Arab Emirates | | | 21 | 33.0 | 32.4 | | | | | | 391 | |
| United Kingdom | 0.1 | 0.0 ° | 12 | 9.9 | 9.2 | 100 | 100 | 100 | 100 | 12 | 589 | |
| United States | 0.5 | 0.2 | 6 | 19.3 | 19.8 | 100 | 100 | 100 | 100 | 10 | 700 | |
| Uruguay | 0.4 | 0.2 | 29 | 1.3 | 1.8 | | 98 | •• | 95 | 24 | 278 | |
| Uzbekistan | | | 97 | 5.3 | 4.5 | •• | 85 | | 100 | | 67 | |
| Venezuela, RB | 0.7 | 0.1 | 42 | 5.8 | 6.7 | | 84 | | 74 | 26 | 108 | |
| Vietnam | 0.3 | 0.1 | 189 | 0.3 | 0.6 | 48 | 56 | 73 | 73 | •• | 32 | |
| West Bank and Gaza | •• | | 28 | | | | | | | | | |
| Yemen, Rep. | •• | | 108 | 0.7 | 0.9 | 66 | 69 | 39 | 45 | •• | 19 | |
| Yugoslavia, Fed. Rep. | | | 47 | 12.4 | | | | | | | 226 | |
| Zambia | 8.2 | 17.8 | 495 | 0.3 | 0.2 | 52 | 64 | 63 | 78 | •• | 8 | |
| Zimbabwe | 11.3 | 24.5 | 562 | 1.6 | 1.2 | 77 | 85 | 64 | 68 | •• | 18 | |
| World | 0.7 w | 1.1 w | 142 w | 3.4 w | 3.9 w | 76 w | 80 w | 49 w | 56 w | | 163 w | |
| Low income | 1.1 | 2.0 | 229 | 0.7 | 1.0 | 70 | 76 | 40 | 45 | | 23 | |
| Middle income | 0.5 | 0.6 | 104 | 2.7 | 3.5 | 75 | 81 | 47 | 59 | | 139 | |
| Lower middle income | 0.2 | 0.2 | 110 | 2.2 | 3.1 | 74 | 80 | 41 | 52 | | 116 | |
| Upper middle income | 1.5 | 2.2 | 84 | 4.1 | 4.9 | | 87 | | 81 | | 213 | |
| Low & middle income | 0.8 | 1.3 | 163 | 1.8 | 2.3 | 73 | 79 | 44 | 52 | | 84 | |
| East Asia & Pacific | 0.2 | 0.2 | 142 | 2.0 | 2.4 | 70 | 75 | 38 | 47 | | 101 | |
| Europe & Central Asia | 0.4 | | 85 | 9.2 | 6.8 | | 90 | | | | 222 | |
| Latin America & Carib. | 0.7 | 0.3 | 75 | 2.2 | 2.6 | 81 | 85 | 72 | 78 | | 148 | |
| Middle East & N. Africa | | | 66 | 3.3 | 3.9 | 84 | 89 | 78 | 83 | | 92 | |
| South Asia | 0.3 | 0.5 | 191 | 0.7 | 0.9 | 80 | 87 | 31 | 37 | | 27 | |
| Sub-Saharan Africa | 4.5 | 9.2 | 339 | 0.9 | 0.8 | 49 | 55 | 55 | 55 | | 14 | |
| High income | 0.3 | 0.1 | 16 | 12.1 | 12.6 | | | | | | 604 | |
| Europe EMU | 0.3 | 0.2 | 20 | 6.9 | 8.0 | | | | | | 534 | |

a. Data are from International Telecommunications Union's (ITU) World Telecommunication Development Report 2001. Please cite the ITU for third party use of these data. b. Average of high and low estimates. c. Less than 0.05.

Millennium Development Goals: protecting our common environment

1.3



About the data

The Millennium Development Goals address issues of common concern to people of all nations. Diseases and environmental degradation do not respect national boundaries. Wherever epidemic diseases persist, they pose a threat to people everywhere. And damage done to the environment in one location may affect the wellbeing of plants, animals, and human beings in distant locations.

The indicators in the table are taken from goals 6 and 7 and the targets of goal 8 that address youth employment and access to new technologies. For the other targets of goal 8 see table 1.4.

Measuring the prevalence or incidence of a disease can be difficult. Much of the developing world lacks reporting systems needed for monitoring the course of a disease. Estimates are often derived from surveys and reports from sentinel sites that must be extrapolated to the general population. Tracking diseases such as HIV/AIDS, which has a long latency between contracting the disease and the appearance of outward symptoms, or malaria, which has periods of dormancy, can be particularly difficult. For some of the most serious illnesses international organizations have formed coalitions such as UNAIDS and the Roll Back Malaria campaign to gather information and coordinate global efforts to treat victims and prevent the diseases from spreading.

Antenatal care clinics are a key site for monitoring sexually transmitted diseases such as HIV and syphilis. The prevalence of HIV in young

people provides an indicator of the spread of the epidemic. Prevalence rates in the older population can be affected by life-prolonging treatment. The indicator shown here is the estimated prevalence among women, ages 15-24.

The incidence of tuberculosis is based on data on case notifications and estimates of the proportion of cases detected in the population.

Carbon dioxide emissions are the primary source of greenhouse gases, which are believed to contribute to global warming.

Access to reliable supplies of safe drinking water and sanitary disposal of excrement are two of the most important means of improving human health and protecting the environment. There is no widespread program for testing the quality of water. The indicator shown here measures the proportion of households with access to an improved source, such as piped water or protected wells. Improved sanitation services prevent human, animal, and insect contact with excreta, but do not include treatment to render sewage outflows innocuous.

The eighth goal—to develop a global partnership for development—takes note of the need for decent and productive work for youth. Labor market information, such as unemployment rates, is still not generally available for most low- and middle-income economies. Telephone lines are one element of the new telecommunications technologies that are changing the way the global economy works.

Definitions

• HIV Prevalence refers to the percentage of people ages 15-24 who are infected with HIV. • Incidence of tuberculosis is the estimated number of new tuberculosis cases (pulmonary, smear positive, extrapulmonary). • Carbon dioxide emissions are those stemming from the burning of fossil fuels and the manufacture of cement. They include carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring. • Access to an improved water source refers to the share of the population with reasonable access to an adequate amount of water from an improved source, such as a household connection, public standpipe, borehole, protected well or spring, or rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling. • Access to improved sanitation facilities refers to the percentage of the population with at least adequate excreta disposal facilities (private or shared, but not public) 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. • Unemployment refers to the share of the labor force without work but available for and seeking employment. Definitions of labor force and unemployment differ by country. • Telephone lines are telephone mainlines connecting a customer's equipment to the public switched telephone network.

Table 1.3a

Location of indicators for goals 6 and 7

Goal 6. Combat HIV/AIDS, malaria, and other diseases

- 18. HIV prevalence among 15-to-24-year-old pregnant women (tables 1.3 and 2.19)
- 19. Contraceptive prevalence rate (table 2.17)
- 20. Number of children orphaned by HIV/AIDS (no data currently available)
- 21. Prevalence and death rates associated with malaria (no data currently available)
- 22. Proportion of population in malaria-risk areas using effective malaria prevention and treatment measures (no data currently available)
- 23. Incidence of tuberculosis (per 100,000 people) (table 2.19)
- 24. Proportion of tuberculosis cases detected and cured under directly observed treatment, short course (table 2.16)

Goal 7. Ensure environmental sustainability

- 25. Change in land area covered by forest (table 3.4)
- 26. Land area protected to maintain biological diversity (table 3.4)
- 27. GDP per unit of energy use (table 3.8)
- 28. Carbon dioxide emissions per capita (table 3.8)
- 29. Proportion of population with sustainable access to an improved water source (tables 2.16 and 3.5)
- 30. Proportion of population with access to improved sanitation (table 2.16)
- 31. Proportion of population with access to secure tenure (table 3.11)

Data sources

Data on HIV/AIDS and the incidence of tuberculosis come from UNAIDS and the WHO's AIDS Epidemic Update (2000), and the WHO's World Health Report 2000 and Global Tuberculosis Control Report 1999. The data on CO₂ emissions are from the Carbon Dioxide Information Analysis Center, Environmental Sciences Division, Oak Ridge National Laboratory, in the U.S. state of Tennessee. Data on access to water and sanitation come from the WHO and UNICEF's Global Water Supply and Sanitation Assessment 2000 Report. Unemployment data are from the International Labour Organization, database Key Indicators of the Labour Market (2001-02 issue). Data on telephone lines are from the International Telecommunication Union's (ITU) World Telecommunication Development Report 2001.



Millennium Development Goals: 1.4 | overcoming obstacles

| | Official aid | d by donor | | Mark | et access to I | nigh-income o | countries | | Support to agriculture | Debt sustainability |
|------------------------|--|--|----------------------------------|------------------|------------------|--------------------------------------|-------------------------------------|--------------------------|------------------------|--|
| | Net official development assistance (ODA) | ODA provided for basic social services ^a | Goo (excludin admitted fre | g arms) | Agric | ports of low- a cultural ducts | nd middle-incon Textile cloth | s and | | Proportion of ODA provided by donors as debt relief |
| | % of donor | % of total ODA | | | | Simple mean tariff | | Simple mean tariff | | |
| Development Assistance | GNI 2000 | commitments 2000 | % 1990 | % 2000 | % 1990 | % 2000 | % | % 2000 | % 2000 | % 2000 |
| Committee members | | | | | | | 1990 | | | |
| Australia | 0.27 | 14 | 38.8 | 42.7 | 1.9 | 1.6 | 29.3 | 14.6 | 0.3 | 1.3 |
| Canada | 0.25 | 6 | 27.8 | 65.2 | 3.6 | 2.7 | 20.0 | 11.5 | 0.5 | 5.0 |
| European Union | | | 48.2 | 72.9 | 11.1 | 4.9 | 6.3 | 4.3 | 1.52 | |
| Austria | 0.23 | 8 | | | | | | | | 13.2 |
| Belgium | 0.36 | 12 | | | | | | | | 5.0 |
| Denmark | 1.06 | 6 | | | | | | •• | | 1.6 |
| Finland | 0.31 | 7 | | | | | | | | |
| France | 0.32 | | | | | | | | | 12.1 |
| Germany | 0.27 | 14 | | | | | | | | 4.7 |
| Greece | 0.20 | | | | | | | | | |
| Ireland | 0.30 | 35 | | | | | | | | 1.5 |
| Italy | 0.13 | 7 | | | | | | | | 17.3 |
| Luxembourg | 0.71 | 27 | | | | | | | | |
| Netherlands | 0.84 | 17 | | | | | | | | 5.3 |
| Portugal | 0.26 | 5 | | | | | | | | 9.6 |
| Spain | 0.22 | 12 | | | | | | | | 1.4 |
| Sweden | 0.80 | 15 | | | | | | | | 2.1 |
| United Kingdom | 0.32 | 24 | | | | | | | | 3.4 |
| Japan | 0.28 | 3 | 42.2 | 57.2 | 9.4 | 9.1 | 5.0 | 4.1 | 1.4 | 3.4 |
| New Zealand | 0.25 | 9 | 54.4 | 52.4 | 5.7 | 1.7 | 18.4 | 8.2 | 0.3 | 1.4 |
| Norway | 0.80 | 10 | 87.1 | 71.7 | 0.5 | 15.2 | 14.0 | 11.6 | 1.4 | 2.2 |
| Switzerland | 0.34 | 13 | 2.6 | 61.8 | | | | | 2.0 | 2.3 |
| United States | 0.10 | 20 | 20.3 | 56.2 | 3.7 | 4.4 | 11.8 | 10.2 | 0.9 | 1.3 |
| | | | | | | | | | | |

| | | High | ly indebted po | or countries (HIPC) | | | |
|---------------|-------------------------------------|------------------------|---|---------------------|----------------------------------|-------------------------|---|
| | HIPC decision point ^b | HIPC completion point® | Estimated total nominal debt service relief | | HIPC decision point ^b | HIPC completion point ° | Estimated total nominal debt service relief |
| | date | date | \$ millions | | date | date | \$ millions |
| Benin | Jul 00 | floating | 460 | Malawi | Dec 00 | floating | 1,000 |
| Bolivia | Feb 00 | Jun 01 | 2,060 | Mali | Sep 00 | floating | 870 |
| Burkina Faso | Jul 00 | floating | 700 | Mauritania | Feb 00 | floating | 1,100 |
| Cameroon | Oct 00 | floating | 2,000 | Mozambique | Apr 00 | Sep 01 | 4,300 |
| Chad | May 01 | floating | 260 | Nicaragua | Dec 00 | floating | 4,500 |
| Côte d'Ivoire | Mar 98 | | 800 | Niger | Dec 00 | floating | 900 |
| Ethiopia | Nov 01 | floating | 1,930 | Rwanda | Dec 00 | floating | 800 |
| Gambia | Dec 00 | floating | 90 | São Tomé & Principe | Dec 00 | floating | 200 |
| Ghana d | Feb 02 | floating | 3,700 | Senegal | Jun 00 | floating | 850 |
| Guinea | Dec 00 | floating | 800 | Sierra Leoned | | | 900 |
| Guinea-Bissau | Dec 00 | floating | 790 | Tanzania | Apr 00 | Nov 01 | 3,000 |
| Guyana | Nov 00 | floating | 1,030 | Uganda | Feb 00 | May 00 | 1,950 |
| Honduras | Jul 00 | floating | 900 | Zambia | Dec 00 | floating | 3,820 |
| Madagascar | Dec 00 | floating | 1,500 | | | | |

a. Includes basic health, education, nutrition, and water and sanitation services. b. Except for Côte d'Ivoire, Ghana and Sierra Leone, data refer to the enhanced framework date; the following countries also reached decision points under the original framework on these dates: Bolivia, Sept. 1997; Burkina Faso, Sept. 1997; Guyana, Dec. 1997; Mali, Sept. 1998; Mozambique, April 1998; Uganda, April 1997. c. Except for Côte d'Ivoire, Ghana and Sierra Leone, data refer to the enhanced framework date; the following countries also reached completion points under the original framework on these dates: Bolivia, Sept. 1998; Burkina Faso, July 2000; Guyana, May 1999; Mali, Sept. 2000; Mozambique, July 1999; Uganda, April 1998. d. Figures are based on preliminary assessments at the time of the issuance of the preliminary HIPC document and are subject to change.

Millennium Development Goals: overcoming obstacles

1.4



About the data

Achieving the Millennium Development Goals (MDGs) will require an open, rule-based, global economy in which all countries, rich and poor, participate. Many poor countries, lacking the resources needed to finance their own development, burdened by unsustainable levels of debt, and unable to compete in the global market-place, need assistance from rich countries. Therefore, many of the indicators for goal 8 monitor the actions of members of the Development Assistance Committee (DAC) of the Organisation for Economic Co-operation and Development (OECD).

Official development assistance (ODA) has been decreasing in recent years, both in real value and as a share of the gross national income of donor countries. The poorest countries will need additional assistance to achieve the Millennium Development Goals. Recent estimates suggest that \$40-60 billion more a year, if provided to countries with good policies, would allow most of them to achieve the goals.

One of the most important things that high-income economies can do to help is to reduce barriers to the exports of low- and middle-income economies. The European Union has announced a program to eliminate tariffs on developing country exports of "everything but arms." The data in the table reflect the tariff schedules applied by high-income OECD members to low- and middle-income economies. Agricultural commodities and clothing and textiles are two of the most

important categories of goods exported by developing economies. Although average tariffs have been falling, averages may disguise high tariffs targeted at specific goods. (See table 6.6 for an estimate of the number of "international peaks" in each country's tariff schedule.) Only ad valorem duties are included in the averages. No data are shown for Switzerland, which applies specific duties almost exclusively. Comparable data on nontariff barriers are not currently available.

Subsidies to agricultural producers and exporters in OECD countries are another form of barrier to developing economies' exports. The table shows the value of total support to the agricultural sector as a share of the economy's GDP. In 2000 the total value of all subsidies in high-income OECD economies was \$277 billion.

The heavily indebted poor country (HIPC) debt initiative is the first comprehensive approach to reducing the external debt of the world's poorest, most heavily indebted countries. It represents an important step forward in placing debt relief within an overall framework of poverty reduction. While the HIPC initiative yielded significant early progress, multilateral organizations, bilateral creditors, HIPC governments, and civil society have engaged in an intensive dialogue about the strengths and weaknesses of the program. A major review in 1999 resulted in an enhancement of the original framework.

Definitions • Net Official de

• Net Official development assistance comprises grants and loans that meet the DAC definition of ODA and are made to developing countries and territories in Part 1 of the DAC list of recipient countries. • ODA provided for basic social services is aid reported by DAC donors for basic health, education, nutrition, and water and sanitation services. • Goods admitted free of tariffs is the value of exports of goods (excluding arms) received from developing countries and admitted without tariff as a share of total exports from developing countries. • Agricultural products comprise plant and animal products, including tree crops but excluding timber and fish products. • Textiles and clothing include natural and man-made fibers and fabrics and articles of clothing made from them. • Simple mean tariff is the unweighted average of the effectively applied rates for all products subject to tariffs. • Support to agriculture is the value of subsidies to the agricultural sector. • Proportion of ODA provided as debt relief is the share of aid from DAC donors going to debt relief. • HIPC decision point is the date at which a heavily indebted poor country with an established track record of good performance under adjustment programs supported by the International Monetary Fund and the World Bank, commits to undertake additional reforms and to develop and implement a poverty reduction strategy. • HIPC completion point is the date at which the country successfully completes the key structural reforms agreed at the decision point, including the development and implementation of its poverty reduction strategy. The country then receives the bulk of debt relief under the HIPC initiative without any further policy conditions.

Table 1.4a

Location of indicators for goal 8

Goal 8. Develop a global partnership for development

- 32. Net ODA as a percentage of DAC donors' gross national income (table 6.9)
- 33. Proportion of ODA for basic social services (table 1.4)
- 34. Proportion of ODA that is untied (table 6.9)
- 35. Proportion of ODA for the environment in small island developing states (no data currently available)
- Proportion of ODA for the transport sector in landlocked countries (no data currently available)
- 37. Proportion of exports (by value, excluding arms) admitted free of duties and quotas (table 1.4)
- 38. Average tariffs and quotas on agricultural products and textiles and clothing (See related indicators in table 6.6)
- 39. Domestic and export agricultural subsidies in OECD countries (table 1.4)
- 40. Proportion of ODA provided to help build trade capacity (no data currently available)
- 41. Proportion of official bilateral HIPC debt canceled (no data currently available)
- 42. Debt service as a percentage of exports of goods and services (table 4.17)
- 43. Proportion of ODA provided as debt relief (table 1.4)
- 44. Number of countries reaching HIPC decision and completion points (table 1.4)
- 45. Unemployment rate of 15-to-24-year-olds (See table 2.4 for related indicators)
- 46. Proportion of population with access to affordable, essential drugs on a sustainable basis (no data currently available)
- 47. Telephone lines per 1,000 people (tables 1.3 and 5.9)
- 48. Personal computers per 1,000 people (table 5.10)

Data sources

Data on official development assistance are compiled by the DAC and published in the DAC chairman's annual report, *Development Cooperation*. Data on tariffs and trade flows are calculated by World Bank staff using the World Integrated Trade Solution system. Data on supports to agriculture were provided by the OECD. Information on the HIPC program is available from the World Bank's HIPC Web site www.worldbank.org/hipc.



1.5 | Women in development

| | Female population | Life expectancy at birth | | Pregnant women receiving prenatal care | Literacy gender parity index | gende | force r parity lex | Maternity leave benefits | Women in decision-making positions | | |
|--------------------------|------------------------|-----------------------------|----------------------|--|---------------------------------------|-------|--------------------------|--------------------------------|--|----------------------|--|
| | | Male | Female | | | | | paid in covered | | % | |
| | % of total 2000 | years 2000 | years 2000 | % 1996 | ages 15-24 2000 | 1990 | 2000 | period 1998 | at minist | terial level 1998 | |
| Afghanistan | 48.4 | 43 | 43 | | | 0.5 | 0.6 | | | | |
| Albania | 48.9 | 72 | 76 | | 1.0 | 0.7 | 0.7 | | 0 | 11 | |
| Algeria | 49.3 | 69 | 73 | 58 | 0.9 | 0.3 | 0.4 | 100 | 4 | 0 | |
| Angola | 50.5 | 45 | 48 | 25 | | 0.9 | 0.9 | 100 | 7 | 14 | |
| Argentina | 51.0 | 70 | 77 | | 1.0 | 0.4 | 0.5 | 100 | 0 | 8 | |
| Armenia | 51.6 | 71 | 77 | 95 | 1.0 | 0.9 | 0.9 | | 3 | 0 | |
| Australia | 50.2 | 76 | 82 | | | 0.7 | 0.8 | 0 | 13 | 14 | |
| Austria | 51.2 | 75 | 81 | | | 0.7 | 0.7 | 100 | 16 | 20 | |
| Azerbaijan | 50.8 | 68 | 75 | 95 | | 0.8 | 0.8 | | 5 | 10 | |
| Bangladesh | 48.4 | 61 | 62 | 23 | 0.7 | 0.7 | 0.7 | 100 | 8 | 5 | |
| Belarus | 53.4 | 62 | 74 | | 1.0 | 1.0 | 1.0 | 100 | 3 | 3 | |
| Belgium | 51.0 | 75 | 81 | | | 0.7 | 0.7 | 82 ª | 11 | 3 | |
| Benin | 50.7 | 51 | 55 | 60 | 0.5 | 0.9 | 0.9 | 100 | 10 | 13 | |
| Bolivia | 50.2 | 61 | 64 | 52 | 1.0 | 0.6 | 0.6 | 70 в | 0 | 6 | |
| Bosnia and Herzegovina | 50.5 | 71 | 76 | | | 0.6 | 0.6 | | 0 | 6 | |
| Botswana | 51.0 | 39 | 39 | 92 | 1.1 | 0.9 | 0.8 | 25 | 6 | 14 | |
| Brazil | 50.6 | 64 | 72 | 74 | 1.0 | 0.5 | 0.6 | 100 | 5 | 4 | |
| Bulgaria | 51.4 | 68 | 75 | | 1.0 | 0.9 | 0.9 | 100 | 0 | | |
| Burkina Faso | 51.7 | 44 | 45 | 59 | 0.5 | 0.9 | 0.9 | 100 | 7 | 10 | |
| Burundi | 51.4 | 41 | 43 | 88 | 0.9 | 1.0 | 0.9 | 50 | 7 | 8 | |
| Cambodia | 51.2 | 52 | 55 | 52 | 0.9 | 1.2 | 1.1 | 50 | 0 | | |
| Cameroon | 50.2 | 49 | 51 | 73 | 1.0 | 0.6 | 0.6 | 100 | 3 | 6 | |
| Canada | 50.5 | 76 | 82 | | | 0.8 | 0.8 | 55 ° | 14 | | |
| Central African Republic | 51.3 | 43 | 44 | 67 | 0.8 | | | 50 | 5 | 4 | |
| Chad Chile | 50.5 50.5 | 47 73 | 50 79 | 30 91 | 1.0 | 0.8 | 0.8 | 50 100 | 5 13 | 13 | |
| China | 48.6 | 69 | 72 | 79 | 1.0 | 0.4 | 0.8 | 100 | 6 | | |
| Hong Kong, China | 49.1 | 77 | 82 | 100 | 1.0 | 0.6 | 0.6 | | | | |
| Colombia | 50.6 | 68 | 75 | 83 | 1.0 | 0.6 | 0.6 | 100 | 11 | 18 | |
| Congo, Dem. Rep. | 50.4 | 45 | 46 | 66 | 0.8 | 0.8 | 0.8 | 67 | 6 | | |
| Congo, Rep. | 51.0 | 49 | 53 | 55 | 1.0 | 0.8 | 0.8 | 100 | 6 | 6 | |
| Costa Rica | 49.3 | 75 | 80 | 95 | 1.0 | 0.4 | 0.5 | 100 | 10 | 15 | |
| Côte d'Ivoire | 48.8 | 45 | 46 | 83 | 0.8 | 0.5 | 0.5 | 100 | 8 | 3 | |
| Croatia | 51.6 | 69 | 78 | | 1.0 | 0.7 | 0.8 | | 4 | 12 | |
| Cuba | 49.9 | 75 | 78 | 100 | 1.0 | 0.6 | 0.7 | 100 | 0 | 5 | |
| Czech Republic | 51.4 | 72 | 78 | | | 0.9 | 0.9 | •• | 0 | 17 | |
| Denmark | 50.5 | 74 | 79 | | | 0.9 | 0.9 | 100 e | 29 | 41 | |
| Dominican Republic | 49.2 | 65 | 70 | 97 | 1.0 | 0.4 | 0.4 | 100 | 4 | 10 | |
| Ecuador | 49.8 | 68 | 71 | 75 | 1.0 | 0.3 | 0.4 | 100 | 6 | 20 | |
| Egypt, Arab Rep. | 49.4 | 66 | 69 | 53 | 0.8 | 0.4 | 0.4 | 100 | 4 | 6 | |
| El Salvador | 50.9 | 67 | 73 | 69 | 1.0 | 0.5 | 0.6 | 75 | 10 | 6 | |
| Eritrea | 50.3 | 51 | 53 | 19 | 0.8 | 0.9 | 0.9 | | 7 | 5 | |
| Estonia | 53.4 | 65 | 76 | | | 1.0 | 1.0 | | 15 | 12 | |
| Ethiopia | 50.3 | 41 | 43 | 20 | 0.8 | 0.7 | 0.7 | 100 | 10 | 5 | |
| Finland | 51.2 | 74 | 81 | | | 0.9 | 0.9 | 80 | 39 | 29 | |
| France | 51.3 | 75 | 83 | | | 0.8 | 0.8 | 100 | 7 | 12 | |
| Gabon | 50.5 | 51 | 54 | 86 | | 0.8 | 0.8 | 100 | 7 | 3 | |
| Gambia, The | 50.5 | 52 | 55 | 91 | 0.7 | 0.8 | 0.8 | 100 | 0 | 29 | |
| Georgia | 52.3 | 69 | 77 | 95 | ••• | 0.9 | 0.9 | | 0 | 4 | |
| Germany | 51.0 | 74 | 81 | | | 0.7 | 0.7 | 100 | 16 | 8 | |
| Ghana | 50.2 | 56 | 58 | 86 | 0.9 | 1.0 | 1.0 | 50 | 11 | 9 | |
| Greece | 50.7 | 75 | 81 | | 1.0 | 0.5 | 0.6 | 75 | 4 | 5 | |
| Guatemala | 49.6 | 62 | 68 | 53 | 0.9 | 0.3 | 0.4 | 100 | 19 | 0 | |
| Guinea | 49.7 | 46 | 47 | 59 | | 0.9 | 0.9 | 100 | 9 | 8 | |
| Guinea-Bissau | 50.7 | 43 | 46 | 50 | 0.6 | 0.7 | 0.7 | 100 | 4 | 18 | |
| Haiti | 51.0 | 51 | 56 | 68 | 1.0 | 0.8 | 0.8 | 100 ° | 13 | 0 | |
| Honduras | 49.7 | 63 | 69 | 73 | 1.0 | 0.4 | 0.5 | 100 f | 11 | 11 | |

Women in development | 1.5



| | | | | | | TION 1.5 | | | | |
|----------------------|----------------------|----------------------|----------------------|--|---------------------------------------|----------|------------------------|--------------------------------|--|----------------------|
| | Female population | | | Pregnant women receiving prenatal care | Literacy gender parity index | | force parity lex | Maternity leave benefits | Women in decision-making positions | |
| | % of total | Male | Female | % | ages 15-24 | | | covered | | % |
| | 2000 | years 2000 | years 2000 | 1996 | 2000 | 1990 | 2000 | period 1998 | 1994 | terial level 1998 |
| lungary | 52.3 | 67 | 76 | | 1.0 | 0.8 | 0.8 | 100 | 0 | 5 |
| ndia | 48.4 | 62 | 63 | 62 | 0.8 | 0.5 | 0.5 | 100 | 3 | |
| ndonesia | 49.8 | 64 | 68 | 82 | 1.0 | 0.6 | 0.7 | 100 | 6 | 3 |
| ran, Islamic Rep. | 48.8 | 68 | 70 | 62 | 1.0 | 0.3 | 0.4 | 67 | 0 | 0 |
| raq | 49.2 | 60 | 62 | 59 | 0.9 | 0.2 | 0.2 | 100 | 0 | 0 |
| reland | 50.3 | 74 | 79 | | | 0.5 | 0.5 | 70 d | 16 | 21 |
| srael | 50.7 | 76 | 80 | 90 | 1.0 | 0.6 | 0.7 | 75 | 4 | 0 |
| taly | 51.5 | 76 | 82 | | 1.0 | 0.6 | 0.6 | 80 | 12 | 13 |
| amaica | 50.7 | 73 78 | 77 84 | 98 | 1.1 | 0.9 | 0.9 | 100 ^g | 5 6 | 12 |
| apan | 51.1 48.0 | 70 | 73 | | 1.0 | | | | 3 | 2 |
| ordan Kazakhstan | 48.0 51.5 | 60 | 73 | 80 92 | 1.0 | 0.2 | 0.3 | 100 | 6 | 5 |
| Kenya | 51.5 | 47 | 47 | 95 | 1.0 | 0.9 | 0.9 | 100 | 0 | 0 |
| Korea, Dem. Rep. | 49.8 | 59 | 62 | 100 | | 0.8 | 0.8 | | 0 | |
| Korea, Rep. | 49.7 | 70 | 77 | 96 | 1.0 | 0.6 | 0.7 | 100 | 4 | |
| Kuwait | 41.8 | 75 | 79 | 99 | 1.0 | 0.3 | 0.5 | 100 | 0 | 0 |
| (yrgyz Republic | 51.0 | 63 | 72 | 90 | | 0.9 | 0.9 | | 0 | 4 |
| ao PDR | 50.1 | 53 | 55 | 25 | 0.7 | | | 100 | 0 | 0 |
| atvia | 53.9 | 65 | 76 | | 1.0 | 1.0 | 1.0 | •• | 0 | 7 |
| ebanon | 51.1 | 69 | 72 | 85 | 1.0 | 0.4 | 0.4 | 100 | 0 | 0 |
| esotho | 50.4 | 44 | 44 | 91 | 1.2 | 0.6 | 0.6 | 0 | 6 | 6 |
| iberia | 49.7 | 46 | 48 | 0 | 0.6 | 0.6 | 0.7 | 0 | 0 | 0 |
| ibya | 48.2 | 69 | 73 | 100 | 0.9 | 0.2 | 0.3 | 50 | 0 | 7 |
| ithuania | 52.8 | 68 | 78 | | 1.0 | 0.9 | 0.9 | | 0 | 6 |
| Macedonia, FYR | 50.0 | 71 | 75 | | | 0.7 | 0.7 | | 8 | 9 |
| Madagascar | 50.3 | 53 | 56 | 78 | 0.9 | 0.8 | 0.8 | 100 ^d | 0 | 19 |
| Malawi | 50.3 | 39 | 39 | 90 | 0.8 | 1.0 | 0.9 | | 9 | 4 |
| Malaysia | 49.3 | 70 | 75 | 90 | 1.0 | 0.6 | 0.6 | 100 | 7 | 16 |
| Mali | 50.5 | 41 | 44 | 25 | 0.8 | 0.9 | 0.9 | 100 | 10 | 21 |
| Mauritania | 50.4 | 50 | 53 | 49 | 0.7 | 8.0 | 0.8 | 100 | 0 | 4 |
| Mauritius | 50.2 | 68 | 76 | 99 | 1.0 | 0.4 | 0.5 | 100 | 3 | |
| Mexico | 50.5 | 70 | 76 | 71 | 1.0 | 0.4 | 0.5 | 100 | 5 | 5 |
| Moldova | 52.2 | 64 | 72 | | 1.0 | 0.9 | 0.9 | •• | 0 | 0 |
| Mongolia | 49.9 | 65 | 69 | 90 | | 0.9 | 0.9 | | 0 | 0 |
| Morocco | 49.9 | 66 | 69 | 45 | 0.8 | 0.5 | 0.5 | 100 | 0 | 0 |
| Mozambique | 50.6 | 41 | 44 | 54 | 0.6 | 0.9 | 0.9 | 100 | 4 | 0 |
| Myanmar | 50.3 50.6 | 54 47 | 59 47 | 80 | 1.0 | 0.8 | 0.8 | 67 | 0 | 0 |
| Namibia | 48.7 | 59 | 59 | 88 15 | 1.0 0.6 | 0.7 | 0.7 | 100 | 10 | 8 |
| lepal letherlands | 50.4 | 75 | 81 | | | 0.7 | 0.7 | 100 | 31 | 28 |
| New Zealand | 50.4 | 76 | 81 | | •• | 0.8 | 0.7 | 0 | 8 | 28 8 |
| licaragua | 50.7 | 67 | 71 | 71 | 1.0 | 0.5 | 0.6 | 60 | 10 | 5 |
| liger | 49.6 | 44 | 48 | 30 | 0.4 | 0.8 | 0.8 | 50 | 5 | 10 |
| ligeria | 49.6 | 46 | 48 | 60 | 0.9 | 0.5 | 0.6 | 50 | 3 | 6 |
| lorway | 50.5 | 76 | 81 | | | 0.8 | 0.9 | 100 | 35 | 20 |
|)man | 46.9 | 72 | 75 | 98 | 1.0 | 0.1 | 0.2 | | 0 | 0 |
| akistan | 48.6 | 62 | 64 | 27 | 0.6 | 0.3 | 0.4 | 100 | 4 | 7 |
| anama | 49.5 | 72 | 77 | 72 | 1.0 | 0.5 | 0.5 | 100 | 13 | 6 |
| apua New Guinea | 47.9 | 58 | 59 | 70 | 0.9 | 0.7 | 0.7 | 0 | 0 | 0 |
| araguay | 49.6 | 68 | 73 | 83 | 1.0 | 0.4 | 0.4 | 50 h | 0 | 7 |
| Peru | 50.4 | 67 | 72 | 64 | 1.0 | 0.4 | 0.5 | 100 | 6 | 10 |
| Philippines | 49.6 | 67 | 71 | 83 | 1.0 | 0.6 | 0.6 | 100 | 8 | 10 |
| Poland | 51.4 | 69 | 78 | | 1.0 | 0.8 | 0.9 | 100 | 17 | 12 |
| Portugal | 51.9 | 72 | 79 | | 1.0 | 0.7 | 0.8 | 100 | 10 | 10 |
| uerto Rico | 51.9 | 72 | 81 | 99 | 1.0 | 0.5 | 0.6 | •• | | |
| Romania | 51.1 | 66 | 74 | | 1.0 | 0.8 | 0.8 | 50-94 | 0 | 8 |
| | | | | | | | | | | |



1.5 | Women in development

| | Female Life expectancy population at birth | | Pregnant women receiving prenatal care | Literacy gender parity index | gende | force r parity lex | Maternity leave benefits | Women in decision-making positions | | |
|-----------------------|--|-------|--|---------------------------------------|------------|--------------------------|--------------------------------|--|------|--------------|
| | | Male | Female | | | | | paid in covered | | % |
| | % of total | years | years | % | ages 15-24 | | | period | | terial level |
| | 2000 | 2000 | 2000 | 1996 | 2000 | 1990 | 2000 | 1998 | 1994 | 1998 |
| Rwanda | 50.5 | 39 | 40 | 94 | 1.0 | 1.0 | 1.0 | 67 | 9 | 5 |
| Saudi Arabia | 46.6 | 71 | 74 | 87 | 1.0 | 0.1 | 0.2 | 50-100 | 0 | 0 |
| Senegal | 50.1 | 51 | 54 | 74 | 0.7 | 0.7 | 0.7 | 100 | 7 | 7 |
| Sierra Leone | 50.8 | 38 | 41 | 30 | | 0.6 | 0.6 | | 0 | 10 |
| Singapore | 49.6 | 76 | 80 | 100 | 1.0 | 0.6 | 0.6 | 100 | 0 | 0 |
| Slovak Republic | 51.4 | 69 | 77 | | | 0.9 | 0.9 | | 5 | 19 |
| Slovenia | 51.4 | 72 | 79 | | 1.0 | 0.9 | 0.9 | | 5 | 0 |
| Somalia | 50.4 | 47 | 50 | 0 | | 0.8 | 0.8 | 0 | 0 | 0 |
| South Africa | 50.8 | 47 | 49 | 89 | 1.0 | 0.6 | 0.6 | 45 | 6 | |
| Spain | 51.1 | 75 | 82 | | 1.0 | 0.5 | 0.6 | 100 | 14 | 18 |
| Sri Lanka | 48.6 | 71 | 76 | 100 | 1.0 | 0.5 | 0.6 | 100 | 3 | 13 |
| Sudan | 49.7 | 55 | 58 | 54 | 0.9 | 0.4 | 0.4 | 100 | 0 | 0 |
| Swaziland | 50.7 | 45 | 46 | 0 | 1.0 | 0.6 | 0.6 | 0 | 0 | 0 |
| Sweden | 50.5 | 77 | 82 | •• | •• | 0.9 | 0.9 | 75 | 30 | 43 |
| Switzerland | 50.5 | 77 | 83 | | | 0.6 | 0.7 | 100 | 17 | 17 |
| Syrian Arab Republic | 49.3 | 67 | 72 | 33 | 0.8 | 0.3 | 0.4 | 100 | 7 | 8 |
| Tajikistan | 50.2 | 66 | 72 | 90 | 1.0 | 0.7 | 0.8 | | 3 | 6 |
| Tanzania | 50.4 | 44 | 45 | 92 | 0.9 | 1.0 | 1.0 | 100 | 13 | 13 |
| Thailand | 50.5 | 67 | 71 | 77 | 1.0 | 0.9 | 0.9 | 100 | 0 | 4 |
| Togo | 50.3 | 48 | 50 | 43 | 0.7 | 0.7 | 0.7 | 100 | 5 | 9 |
| Trinidad and Tobago | 50.3 | 70 | 75 | 98 | 1.0 | 0.5 | 0.5 | 60-100 | 19 | 14 |
| Tunisia | 49.5 | 70 | 74 | 71 | 0.9 | 0.4 | 0.5 | 67 | 4 | 3 |
| Turkey | 49.5 | 67 | 72 | 62 | 1.0 | 0.5 | 0.6 | 67 | 5 | 5 |
| Turkmenistan | 50.5 | 63 | 70 | 90 | | 0.8 | 0.8 | | 3 | 4 |
| Uganda | 50.1 | 42 | 42 | 87 | 0.8 | 0.9 | 0.9 | 100 ^j | 10 | 13 |
| Ukraine | 53.6 | 63 | 74 | | 1.0 | 1.0 | 1.0 | 100 | 0 | 5 |
| United Arab Emirates | 33.9 | 74 | 77 | 95 | 1.1 | 0.1 | 0.2 | 100 | 0 | 0 |
| United Kingdom | 50.8 | 75 | 80 | | | 0.7 | 0.8 | 90 ^k | 9 | 24 |
| United States | 50.7 | 74 | 80 | | | 0.8 | 0.9 | 0 | 14 | 26 |
| Uruguay | 51.5 | 71 | 78 | 80 | 1.0 | 0.6 | 0.7 | 100 | 0 | 7 |
| Uzbekistan | 50.3 | 67 | 73 | 90 | 1.0 | 0.8 | 0.9 | | 3 | 3 |
| Venezuela, RB | 49.7 | 71 | 76 | 74 | 1.0 | 0.5 | 0.5 | 100 | 11 | 3 |
| Vietnam | 50.2 | 67 | 72 | 78 | 1.0 | 1.0 | 1.0 | 100 | 5 | 0 |
| West Bank and Gaza | 49.3 | 70 | 74 | | | | | | | |
| Yemen, Rep. | 50.2 | 56 | 57 | 26 | 0.6 | 0.4 | 0.4 | 100 | 0 | 0 |
| Yugoslavia, Fed. Rep. | 50.3 | 70 | 75 | | | 0.7 | 0.8 | | | 5 |
| Zambia | 49.8 | 38 | 38 | 92 | 0.9 | 0.8 | 0.8 | 100 | 5 | 3 |
| Zimbabwe | 50.0 | 40 | 40 | 93 | 1.0 | 0.8 | 0.8 | 60-75 | 3 | 12 |

| World | 49.4 w | 65 w | 69 w | 70 w | w | 0.7 w | 0.7 w | 6 w | w |
|-------------------------|--------|------|------|------|-----|-------|-------|-----|----|
| Low income | 49.3 | 58 | 60 | 62 | 0.8 | 0.6 | 0.6 | 4 | |
| Middle income | 49.5 | 67 | 72 | 77 | 1.0 | 0.7 | 0.7 | 5 | |
| Lower middle income | 49.2 | 67 | 72 | 76 | 1.0 | 0.8 | 0.8 | 5 | |
| Upper middle income | 50.2 | 67 | 73 | 80 | 1.0 | 0.5 | 0.6 | 6 | 6 |
| Low & middle income | 49.4 | 63 | 66 | 70 | 0.9 | 0.7 | 0.7 | 5 | |
| East Asia & Pacific | 49.0 | 67 | 71 | 80 | 1.0 | 0.8 | 0.8 | 5 | |
| Europe & Central Asia | 51.8 | 64 | 74 | | 1.0 | 0.8 | 0.9 | 3 | 7 |
| Latin America & Carib. | 50.4 | 67 | 74 | 75 | 1.0 | 0.5 | 0.5 | 6 | 7 |
| Middle East & N. Africa | 48.6 | 66 | 69 | 58 | 0.9 | 0.3 | 0.4 | 2 | 2 |
| South Asia | 48.5 | 62 | 63 | 55 | 0.8 | 0.5 | 0.5 | 4 | |
| Sub-Saharan Africa | 50.1 | 46 | 47 | 65 | 0.9 | 0.7 | 0.7 | 6 | 7 |
| High income | 49.5 | 75 | 81 | | | 0.7 | 0.8 | 12 | 16 |
| Europe EMU | 51.2 | 75 | 81 | | | 0.7 | 0.7 | 14 | 13 |

a. For 30 days, 75 percent thereafter. b. Benefit is 70 percent of wages above the minimum wage, 100 percent of national minimum wage. c. For 15 weeks. d. Up to a ceiling. e. For 6 weeks. f. For 84 days, g. For 8 weeks. h. For 9 weeks, i. Benefit is 100 percent for the first 45 days, then 50 percent for 15 days, j. For 1 month. k. For 6 weeks; flat rate thereafter.

Women in development | 1.5



About the data

Despite considerable progress in recent decades, gender inequalities remain pervasive in many dimensions of life-worldwide. But while disparities exist throughout the world, they are most prevalent in poor developing countries. The differences in outcomes between men and women-and between boys and girls-are a consequence of differences in the opportunities and resources available to them. Inequalities in the allocation of resources such as education, health care, and nutrition matter because of the strong association of these resources with wellbeing, productivity, and growth. This pattern of inequality begins at an early age, with boys routinely receiving a larger share of education and health spending than girls do, for example.

Life expectancy has increased for both men and women in all regions, but female morbidity and mortality rates sometimes exceed male rates, particularly during early childhood and the reproductive years. In high-income countries women tend to outlive men by four to eight years on average, while in low-income countries the difference is narrower—about two to three years. The female disadvantage is best reflected in differences in child mortality rates (see table 2.20). Child mortality captures the effect of preferences for boys because adequate nutrition and medical interventions are particularly important for the age group 1-5. Because of the natural female biological advantage, when female child mortality is as high as or higher than male child mortality, there is good reason to believe that girls are discriminated against.

Female disadvantage in mortality is carried into adolescence and the reproductive years. Serious health risks for adolescents arise when they become sexually active. And while in high-income countries women have universal access to health care during pregnancy, in developing countries it is estimated that 35 percent of pregnant women—some 45 million each year—receive no care at all (United Nations 2000b). Prenatal care is essential for recognizing, diagnosing, and promptly treating complications that arise during pregnancy.

Girls in many developing countries are allowed less education by their families than boys are—a disparity reflected in lower female primary enrollment (see table 1.2) and higher female illiteracy. As a result, women have fewer employment opportunities, especially in the formal sector. A labor force gender parity index of less than 1.0 shows that women's labor force participation in the formal sector is lower than men's. (A ratio of 1.0 indicates gender equality).

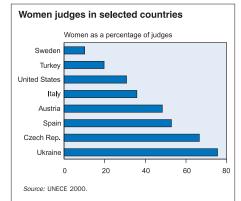
Women who work outside the home continue to bear a disproportionate share of the responsibility for housework and child rearing. They also face discriminatory practices in the workplace, especially relating to equal pay and maternity benefits. The maternity benefits data in the table relate only to legislated benefits and

do not include contractual benefits negotiated through labor union contracts. The benefits generally apply only in the formal sector, leaving out the vast majority of working women in developing countries. As a result, while the situation in the United States is much better than the data indicate, the situation in Thailand is likely to be much worse.

Women are vastly underrepresented in decision-making positions in government, although there is some evidence of recent improvement. While 6 percent of the world's cabinet ministers were women in 1994, 8 percent were in 1998. Without representation at this level, it is difficult for women to influence policy.

For information on other aspects of gender, see tables 1.2 (Millennium Development Goals: eradicating poverty and improving lives), 2.3 (employment by economic activity), 2.4 (unemployment), 2.13 (education efficiency), 2.14 (education outcomes), 2.17 (reproductive health), 2.19 (health: risk factors and future challenges), and 2.20 (mortality).

Figure 1.5



Women have begun to make inroads in various political, governmental, and civic aspects of life that give them decision-making power and influence and place them on a more equal footing with men. However, they still have a long way to go to achieve their share of positions where they can make a difference. Judgeships are the only positions of power and influence in which women have reached parity in a number of countries.

Definitions

• Female population is the percentage of the population that is female. • 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. • 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. • Literacy gender parity index is the ratio of the female literacy rate to the male rate, for the age group 15-24. • Labor force gender parity index is the ratio of the percentage of women who are economically active to the percentage of men who are. According to the International Labour Organization (ILO) definition, the economically active population is all those who supply labor for the production of goods and services during a specified period. It includes both the employed and the unemployed. While national practices vary in the treatment of such groups as the armed forces and seasonal or part-time workers, in general the labor force includes the armed forces, the unemployed, and first-time job seekers, but excludes homemakers and other unpaid caregivers and workers in the informal sector. • Maternity leave benefits refer to the compensation provided to women during maternity leave, as a share of their full wages.

• Women in decision-making positions are those in ministerial or equivalent positions in the government.

Data sources

The data are from the World Bank's population database; electronic databases of the United Nations Educational, Scientific, and Cultural Organization (UNESCO); the ILO database Estimates and Projections of the Economically Active Population, 1950–2010; and the United Nations' World's Women: Trends and Statistics 2000.



1.6 | Key indicators for other economies

| | Population | Surface area | Population density | | Gross nation | nal income | | Gross d prod | omestic luct | Life expectancy at birth | Adult illiteracy rate | Carbon dioxide emissions |
|----------------------------|------------|-----------------|----------------------|--------------|-----------------------|----------------|---------------------|-----------------|---------------------------|-----------------------------------|-----------------------------|--------------------------------|
| | thousands | thousand sq. km | people per sq. km | \$ millions | Per capita \$ | \$ millions | Per capita \$ | % growth | Per capita % growth | years | % of people 15 and above | thousand metric tons |
| | 2000 | 2000 | 2000 | 2000 в | 2000b | 2000 | 2000 | 1999-2000 | 1999-2000 | 2000 | 2000 | 1998 |
| American Samoa | 65 | 0.2 | 327 | | . c | | | | | | | 282 |
| Andorra | 67 | 0.5 | 149 | | d | | | | | 80 | •• | |
| Antigua and Barbuda | 68 | 0.4 | 155 | 642 | 9,440 ° | 680 | 10,000 | 3.7 | 2.8 | 75 | | 337 |
| Aruba | 101 | 0.2 | 532 | 4.500 | d | 4.000 | | | | | | 1,883 |
| Bahamas, The Bahrain | 303 691 | 13.9 | 30 | 4,533 | 14,960 ° | 4,969 | 16,400 | 4.5 | 2.9 | 69 73 | 5 12 | 1,792 18,688 |
| Barbados | 267 | 0.7 | 1,001 621 | 2.460 | 9,250 f | 4.010 | 15.000 | 4.1 | 3.8 | 75 | | 1,569 |
| Belize | 240 | 23.0 | 11 | 2,469 746 | 3,110 g | 4,010 1,258 | 15,020 5,240 | 10.2 | 6.6 | 73 | 7 | 399 |
| | 63 | | | | 3,110 s | | | | | | | 462 |
| Bermuda | 805 | 0.1 47.0 | 1,260 17 | 479 | 590 | 1,161 | 1,440 | 7.0 | 3.9 | 62 | •• | 386 |
| Bhutan | | | | | | | | | | | | |
| Brunei Cana Verde | 338 441 | 5.8 | 109 | 588 | ^d 1,330 | 2 100 h | 4 760 h | 6.8 | 3.6 | 76 69 | 26 | 5,488 121 |
| Cape Verde | | 4.0 | | 588 | | 2,100 | 4,760 h | | | | | |
| Cayman Islands | 35 | 0.3 | 135 | | d | | | | | 70 | •• | 289 |
| Channel Islands | 149 558 | 0.2 2.2 | 768 250 | | d | 007 h | 1 500 h | -1.1 | | 79 61 | | 70 |
| Comoros | | | | 212 | 380 | 887 h | 1,590 h | | -3.6 | | 44 | |
| Cyprus | 757 | 9.3 | 82 | 9,361 | 12,370 | 15,734 h | 20,780 h | 4.8 | 4.4 | 78 | 3 | 5,918 |
| Djibouti | 632 | 23.2 | 27 | 553 | 880 | | | 0.7 | -1.3 | 46 | 35 | 366 |
| Dominica Suita a a | 73 | 0.8 | 97 | | ° | | | 0.5 | | 76 | | 84 |
| Equatorial Guinea | 457 | 28.1 | 16 | 363 | 800 | 2,560 | 5,600 | 16.9 | 13.8 | 51 | 17 | 253 |
| Faeroe Islands | 45 | 1.4 | 32 | 4 400 | d | | 4 400 | | | | | 641 |
| Fiji | 812 | 18.3 | 44 | 1,480 | 1,820 | 3,636 | 4,480 | -8.0 | -9.2 | 69 | 7 | 721 |
| French Polynesia | 235 | 4.0 | 64 | 4,064 | 17,290 | 5,486 | 23,340 | 4.0 | 2.4 | 73 | | 561 |
| Greenland | 56 | 341.7 | 0 | | d | | | | | | | 528 |
| Grenada | 98 | 0.3 | 288 | 370 | 3,770 | 682 | 6,960 | 6.5 | 5.4 | 72 | | 183 |
| Guam | 155 | 0.6 | 281 | | ^d | | | | | 78 | | 4,111 |
| Guyana | 761 | 215.0 | 4 | 652 | 860 | 2,795 | 3,670 | -0.7 | -1.3 | 63 | 2 | 1,649 |
| Iceland | 281 | 103.0 | 3 | 8,540 | 30,390 | 8,069 | 28,710 | 5.0 | 3.7 | 80 | •• | 2,083 |
| Isle of Man | 75 | 0.6 | 131 | | ° | | •• | | | | •• | |
| Kiribati | 91 | 0.7 | 124 | 86 | 950 | | •• | -1.8 | -4.2 | 62 | •• | 22 |
| Liechtenstein | 32 | 0.2 | 200 | | d | | | | | | | |
| Luxembourg | 438 | 2.6 | 169 | 18,439 | 42,060 | 19,934 | 45,470 | 8.5 | 6.9 | 77 | | 7,678 |
| Macao, China | 438 | | | 6,385 | 14,580 | 7,967 | 18,190 | 4.6 | 3.7 | 79 | 6 | 1,630 |
| Maldives | 276 | 0.3 | 920 | 541 | 1,960 | 1,171 | 4,240 | 4.8 | 2.3 | 68 | 3 | 330 |
| Malta | 390 | 0.3 | 1,219 | 3,559 | 9,120 f | 6,448 | 16,530 | 4.7 | 4.2 | 78 | 8 | 1,803 |
| Marshall Islands | 52 | 0.2 | 286 | 102 | 1,970 | | | 0.5 | | 65 | | |
| Mayotte | 145 | 0.4 | 388 | | ° | | •• | | | | | |
| Micronesia, Fed. Sts. | 118 | 0.7 | 168 | 250 | 2,110 | | | 3.0 | 1.2 | 68 | | |
| Monaco | 32 | 0.0 | 16,410 | | . d | | | | | | | |
| Netherlands Antilles | 215 | 0.8 | 269 | | d | | | | | 76 | 3 | 7,753 |
| New Caledonia | 213 | 18.6 | 12 | 3,203 | 15,060 | 4,641 | 21,820 | 2.1 | 0.3 | 73 | | 1,746 |
| Northern Mariana Islands | 72 | 0.5 | 151 | | d | | | | | | | |
| Palau | 19 | 0.5 | 41 | | c | | | 5.4 | | 70 | | 242 |
| Qatar | 585 | 11.0 | 53 | | d | | | | | 75 | 19 | 46,772 |
| Samoa | 170 | 2.8 | 60 | 246 | 1,450 | 859 | 5,050 | 7.0 | 6.4 | 69 | 20 | 132 |
| São Tomé and Principe | 148 | 1.0 | 154 | 43 | 290 | | | 2.9 | 0.7 | 65 | | 77 |
| Seychelles | 81 | 0.5 | 181 | 573 | 7,050 | | | 1.2 | -0.3 | 72 | | 198 |
| Solomon Islands | 447 | 28.9 | 16 | 278 | 620 | 766 h | 1,710 h | -14.0 | -16.9 | 69 | | 161 |
| San Marino | 27 | 0.1 | 450 | | d | | | | | 80 | | |
| St. Kitts and Nevis | 41 | 0.4 | 114 | 269 | 6,570 | 449 | 10,960 | 2.6 | 2.3 | 71 | | 103 |
| St. Lucia | 156 | 0.6 | 256 | 642 | 4,120 | 842 | 5,400 | 2.0 | 0.5 | 71 | | 198 |
| St. Vincent and the Grenad | | 0.4 | 295 | 313 | 2,720 | 599 | 5,210 | 2.3 | 1.4 | 73 | | 161 |
| Suriname | 417 | 163.3 | 3 | 788 | 1,890 | 1,450 | 3,480 | -7.3 | -7.9 | 70 | | 2,139 |
| Tonga | 100 | 0.8 | 139 | 166 | 1,660 | | | 6.2 | 5.5 | 71 | | 117 |
| Vanuatu | 197 | 12.2 | 16 | 226 | 1,150 | 583 h | 2,960 h | 2.2 | 0.1 | 68 | | 62 |
| Virgin Islands (U.S.) | 121 | 0.3 | 356 | | d | | | | | 78 | | 11,706 |

a. PPP is purchasing power parity; see *Definitions*. b. Calculated using the World Bank Atlas method. c. Estimated to be upper middle income (\$2,996-9,265). d. Estimated to be high income (\$9,266 or more). e. Included under upper middle income economies in calculating the aggregates based on earlier data. f. Included under high income economies in calculating the aggregates based on earlier data. h. The estimate is based on regression; others are extrapolated from the latest International Comparison Programme benchmark estimates. i. Refers to GDP and GDP per capita.

Key indicators for other economies | 1.6



About the data

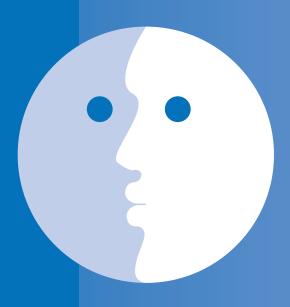
This table shows data for 55 economies—small economies with populations between 30,000 and 1 million and smaller economies if they are members of the World Bank. Where data on gross national income (GNI) per capita are not available, the estimated range is given. For more information on the calculation of GNI (gross national product, or GNP, in the 1968 System of National Accounts), see *About the data* for table 1.1. As in last year's edition, this table excludes France's overseas departments—French Guiana, Guadeloupe, Martinique, and Réunion—for which GNI and other economic measures are now included in the French national accounts.

Definitions

• Population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship-except 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 2000. See also table 2.1. • Surface area is a country's total area, including areas under inland bodies of water and some coastal waterways. • Population density is midyear population divided by land area in square kilometers. • Gross national income (GNI) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net receipts of primary income (compensation of employees and property income) from abroad. Data are in current U.S. dollars converted using the World Bank Atlas method (see Statistical methods). • GNI per capita is gross national income divided by midyear population. GNI per capita in U.S. dollars is converted using the World Bank Atlas method. • PPP GNI is gross national income converted to international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States. • Gross domestic product (GDP) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output. Growth is calculated from constant price GDP data in local currency. • 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. • Adult illiteracy rate is the percentage of adults ages 15 and above who cannot, with understanding, read and write a short, simple statement about their everyday life. • Carbon dioxide emissions are those stemming from the burning of fossil fuels and the manufacture of cement. They include carbon dioxide produced during consumption of solid, liquid, and gas fuels and gas flaring.

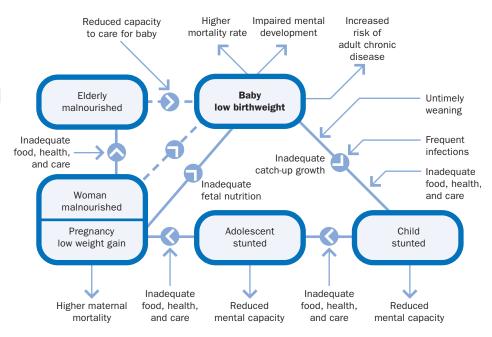
Data sources

The indicators here and throughout the rest of the book have been compiled by World Bank staff from primary and secondary sources. More information about the indicators and their sources can be found in the *About the data, Definitions,* and *Data sources* entries that accompany each table in subsequent sections.



PEOPLE

Nutrition throughout the life cycle

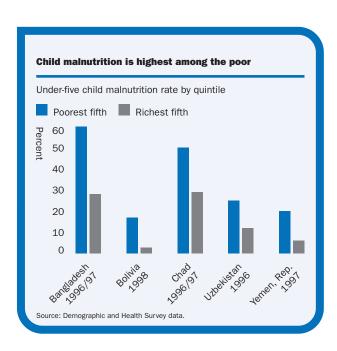


Source: UN ACC/SCN 2000.

Hunger and malnutrition

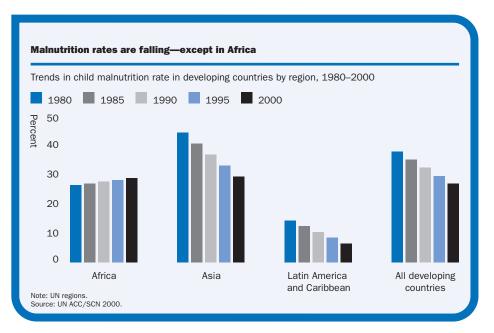
Hunger and malnutrition still pose a major challenge to many developing countries. In countries already saddled with poverty, malnutrition starts a vicious cycle of ill health, lower learning capacity, and poor physical growth. Because that undermines a country's social and economic development, investing in better nutrition is essential.

Reflecting this development priority, the Millennium Development Goals adopted a target to halve, between 1990 and 2015, the proportion of people in developing countries who suffer from hunger. Two indicators were identified to track progress: the prevalence of underweight in children under age five and the proportion of undernourished people.



Malnutrition is pervasive

The prevalence of child malnutrition in the developing world fell from 46.5 percent in 1970 to 27 percent in 2000. Even so, 150 million children under five are still malnourished. The situation is bleakest in Africa, where both the number and the proportion of malnourished children have been rising. At current rates of improvement, now slowing, halving child malnutrition by 2015 is unlikely. In 2020, 140 million children under five in developing countries will still be underweight, or about 50 million short of the goal (Smith and Haddad 2000).

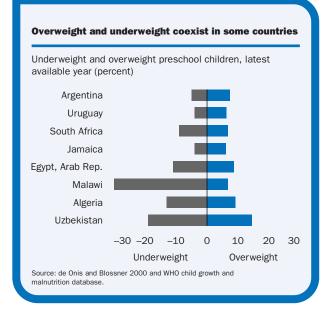


Why focus on malnutrition?

Overweight and underweight

Some wealthier developing countries are also starting to have worrisome rates of overweight children. These countries are undergoing a rapid nutrition transition, often to diets high in saturated fats, sugar, and refined foods (UN ACC/SCN 2000). In these countries obesity coexists with undernutrition (de Onis and Blossner 2000).

Data on nutritional status during the life cycle are slowly becoming available, mainly for women. The limited data suggest that women in developing countries fall on average



in the bottom quarter of weight-forheight standards and the bottom fifth of height. In addition, weight gains during pregnancy are usually half or less of those recommended (McGuire 1996).

The number of undernourished people in the developing world is expected to decline, from 777 million in 1997–99 to 576 million in 2015, halving the proportion of the population that was undernourished in 1990–92 and thus meeting the Millennium Development Goal. But the number of people undernourished in 2015 will still be around 70 percent of the 840 million people undernourished in 1990–92, far short of the World Food Summit goal of a reduction by half in the number of undernourished people.

Undernourishment and food insecurity

The chronic undernourishment measure, based on average caloric consumption (also called food inadequacy or food insecurity), developed by the Food and Agriculture Organization (FAO 2000), has the value of focusing world attention on food insecurity and food-insecure people. It also focuses the attention of national governments and international development agencies on a numerical goal and the political will to attain it, as part of the Millennium Development Goals.

However, the measure, derived largely from food supply data and an estimate of the distribution of food consumption across households, has its limitations:

• Food insecurity is an individual, household, or national phenomenon. And the average amount of food available to each person in the population, even if corrected for the possible effects of low income, is not a good predictor of food insecurity in the population. Furthermore, food

Source: Adapted from Smith 1998

insecurity can be a seasonal phenomenon even when there is aggregate food security.

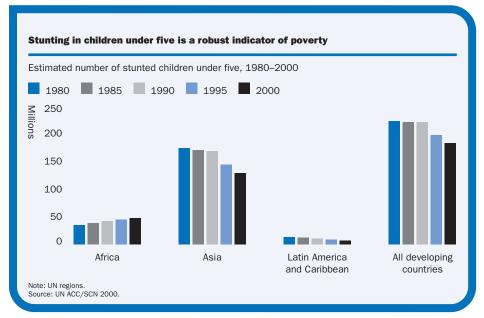
- In addition to being influenced by access to food, nutrition security is also determined by the quality of care for mothers and children and the quality of the household's health environment.
- Food-insecure households often have well-nourished children, which shows that some households have adaptive behaviors that contribute to better nutrition.
- The estimation method has problems because distribution of consumption among households is often not directly measured, and food availability at the national level is subject to many unmeasured errors.

These limitations become harder to ignore with the increasing numbers of nationally representative household food consumption and expenditure surveys that are now available.

Because it is a powerful indicator of extreme poverty.

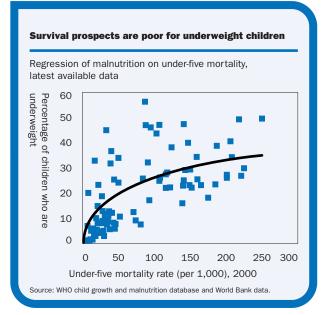
Stunting—a strong indicator of poverty

Malnutrition affects the poor more than the rich because factors associated with income poverty—such as female illiteracy, food insecurity, and a poor health environment—also cause malnutrition. Malnutrition is thus a cause and a consequence of poverty. Tracking trends in nutritional status is therefore useful in tracking the overall effectiveness of poverty reduction strategies. Stunting in children under five is the most appropriate indicator for populationwide monitoring. Stunting is an inexpensive and robust indicator when measured in a representative sample.



Higher mortality

Nearly a third of poor health outcomes are associated with malnutrition. More than half of child deaths-mostly from diarrheal diseases and respiratory infections are associated with low weight for age. In India underweight children had two to four times the mortality rate of normal weight children (McGuire 1996). Mortality is also associated with essential micronutrient deficiencies. Severely anemic women are at considerably greater risk of death during childbirth, since anemia lowers the tolerance to blood loss and the resistance to infection. Anemia may account for almost 20 percent of maternal

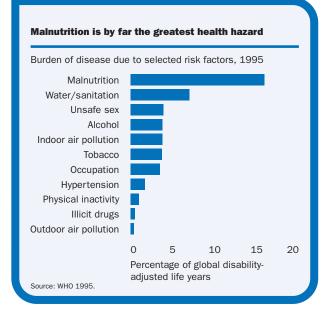


deaths. And addressing vitamin A deficiency in areas where it is common can result in a 23 percent reduction in mortality among children between ages two and six.

The costs of malnutrition are high

Poorer health

Morbidity indicators are also linked with malnutrition. Chronic noncommunicable diseases, such as diabetes and cardiovascular disease, are associated with inadequate diets for mothers and low birthweights for infants. Malnourished children have less resistance to infection. Malnutrition has been associated with a 10-45 percent increase in the incidence of diarrhea and a 30-55 percent increase in its duration. Similarly, vitamin A-deficient children are two to four times as susceptible to respiratory disease and twice as susceptible to diarrhea.

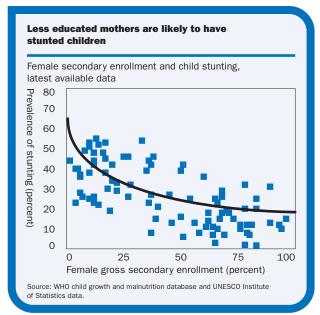


Costs to the national health system are substantial. Poor nutritional status is by far the largest single risk factor for disease in the WHO's calculations of the total burden of disease, leading to 1.1 billion days of illness a year worldwide.

Women in poor developing countries are disproportionately affected by malnutrition and health risks, causing an intergenerational vicious circle. The incidence of low-birthweight infants is higher among women who are short and undernourished. Low-birthweight infants are more likely to be stunted. And stunted girls grow up to be short women.

Less education and learning

Childhood malnutrition is often caused by improper feeding and caring practices, making the knowledge and values of caregivers very important. Women with at least a secondary education tend to have fewer children. They also have the knowledge and skills to provide them with better nutritional care. Women's education levels therefore influence nutritional status, and nutritional status affects children's educational attainment.

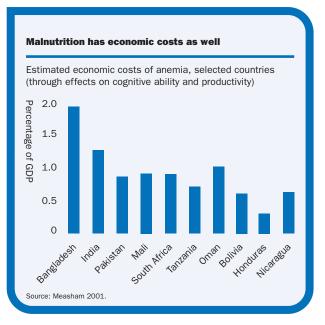


Chronic malnutrition and bouts of hunger in children affect school enrollment, attendance, and cognitive development. In Brazil a 12 percent reduction in malnutrition resulted in a 4 percent improvement in passing rates for first and second grades (McGuire 1996). A study of 9to 11-year-olds in Indonesia found that the achievement scores of anemic children improved by more than 10 percent after 12 weeks of iron supplementation (Soemantri, Pollitt, and Kim 1985). Nutrition affects school performance indirectly as well. Stunted children tend to enroll later in school than better-nourished children. In Ghana a 10 percent increase in stunting caused a 3.5 percent increase in the age of first enrollment in school (UN ACC/SCN 2000).

throughout childhood and adult life.

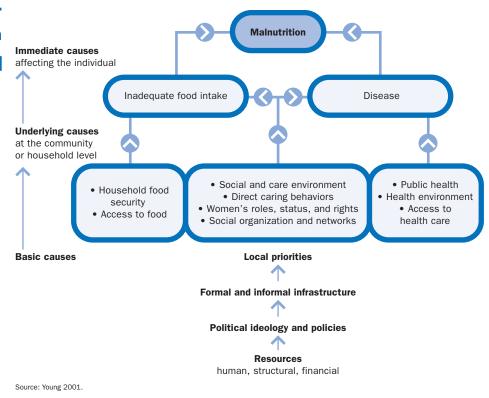
Lower productivity

The economic livelihood of populations depends on the health and nutrition of adults. This reflects the legacy of malnutrition in childhood as well as whether adults have sufficient food intake to sustain both normal body weight and the physical activity needed for the tasks of daily life. Child malnutrition manifests itself in reduced schooling and shorter stature, both linked to lower wages in rural and urban settings (Thomas and Strauss 1997).



Adult nutrition affects body mass. In India a 30 percent reduction in lean body mass was associated with 20 percent lower wages (McGuire 1996). Deficiencies in vitamin A, iron, and iodine can also cause prolonged impairment, reducing productivity and gross domestic product.

Causes of poor nutrition



Why does chronic malnutrition persist?

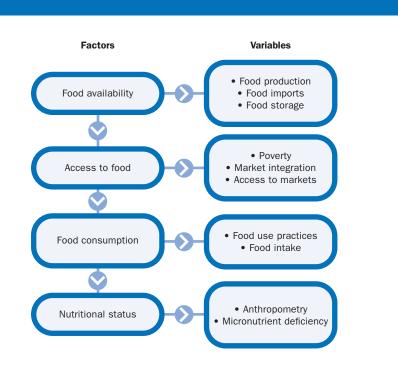
Slow progress against malnutrition

There are three main reasons for the generally slow progress in tackling malnutrition (Measham 2001). First, malnutrition is a complex intersectoral problem. It encompasses biological and socioeconomic causes at both micro and macro levels. It therefore rarely has an institutional home, such as a single ministry.

Second, because malnutrition is not highly visible, its severity and effects may be ignored. Even countries with national nutrition plans may not have a clearly articulated strategy for addressing malnutrition because politicians and decisionmakers fail to see the urgency and significance of the problem. And unlike education or health, malnutrition does not have a constituency to demand policies and programs to address it. Poor people often say that food is their first priority, but they lack the political power to get government to respond. If govern-

ment does respond, it usually tries to increase agricultural output or undertake expensive, ineffective food giveaways. This does not necessarily mean additional food consumption or increased income for the malnourished. Seldom is there a well-defined strategy for translating the demand for food into ways of increasing the nutritional wellbeing of those in need.

Third, even when confronting malnutrition is a priority, lack of government capacity results in inappropriate policies and programs, such as untargeted and unaffordable food subsidies, with implementation depending on institutions that are already overburdened. Good nutrition programs need not be expensive, but they require skilled administrators and appropriate design. As nongovernmental organizations conduct more nutrition programs, government resources become less of a constraint.



Food security and food policy

Food security and food policy are important in dealing with the underlying and basic causes of malnutrition. The need for adequate information on food security at global, national, and subnational levels received attention when international targets for the eradication of hunger and malnutrition were adopted. The World Food Conference in 1974 called for eradicating

hunger and malnutrition, and the World Food Summit in 1996 set the less ambitious goal of reducing the number of undernourished people by half no later than 2015.

Food security is determined by four sets of factors:

- Food availability.
- · Access to food.
- Food consumption.
- Nutritional status.

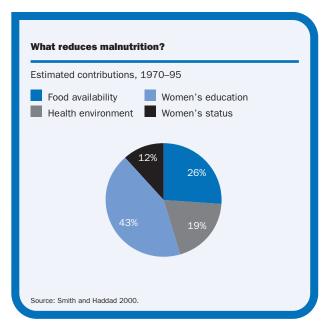
Policymakers often assume that interventions at any point in the chain will have a direct effect in reducing undernutrition or food insecurity. But links are more complex than they appear. For example, a school feeding scheme may have little impact on nutritional status if parents reallocate household resources away from providing food to the child.

To monitor food security, most countries collect information from a variety of sources, including national population censuses, agricultural surveys, agroecological zoning, market monitoring, health center records, livelihood monitoring, vulnerability mapping, and income, consumption, and expenditure surveys. Often not all these data sources are fully exploited because data collection and reporting tend to be divided among ministries, and as a result databases and information are not always coordinated.

Source: Adapted from Devereux 2001.

The way forward

Sustained income growth can do much to reduce malnutrition in the next two decades. But economic growth by itself is unlikely to achieve the Millennium Development Goal for malnutrition (Alderman and others 2001). Although economic growth can foster improvements in nutrition, many other factors influence the process. The most important appears to be women's education, followed by food availability (or income), the government's commitment to health at local and national levels, and women's status (Smith and Haddad 2000).

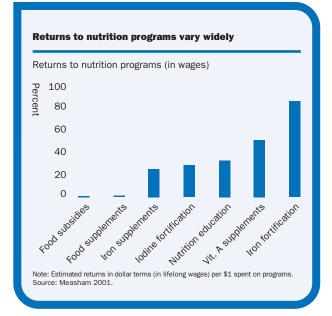


Income growth should therefore be part of a balanced strategy for addressing nutritional problems. As income rises, so does investment in other factors that influence nutrition, notably education and health.

Monitoring and measuring malnutrition tells a vivid story.

Some impressive returns

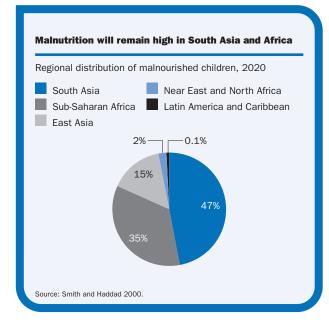
But given the difficulty many countries face in achieving sustained economic growth, especially those in Sub-Saharan Africa, nutrition education, supplementation, fortification, and supply and price mechanisms should be considered at both national and community levels.



The World Bank estimates that sustained elimination of micronutrient deficiencies could alone contribute as much as 5 percent of GDP annually to an affected country—for an investment of less than 0.3 percent of GDP (McGuire 1996). The returns per dollar invested in higher lifelong wages and lower disability are impressive.

Nutrition needs are still great

Over the past two decades progress has been dramatic in some areas of nutrition, especially in reducing micronutrient deficiencies. The proportion of stunted and underweight preschool children has declined in all regions except parts of Sub-Saharan Africa.



But high proportions of Asian and African mothers are malnourished, and the numbers are expected to grow. In developing countries some 30 million children are born each year with their growth already retarded. More than 150 million preschool children are still underweight, many with anemia and vitamin A deficiency. And more children and adults are becoming overweight or obese.

Making malnutrition visible

Because malnutrition is not very visible, it is often overlooked until it becomes severe. Making it visible is central to an effective strategy. Countries need to identify appropriate indicators of nutritional status and trends—and strengthen their statistical systems for collecting, analyzing, publishing, and using data.

Tracking malnutrition

Indicators that focus attention on nutritional status and behavior can be identified at household, community, and national levels.

Household

- Growth promotion
- Breastfeeding practices
- Access to health care
- Household food security

Community

- Well-functioning food markets
- Access to clean water and sanitation
- Availability of health care
- Nutrition education

National

- Trends in child growth
- · Women's health
- Girls' education
- Trends in childhood infections
- Immunization trends
- Food prices and price variability across time and regions
- Wage and employment rates, especially among the rural poor
- · Income of the poor



2.1 | Population dynamics

| | | Total populatio | n | Average a popula growth | tion | F | Population ag composition | | Depend ratio | - | Crude death rate | Crude birth rate |
|--------------------------|--------------|--------------------|---------|-------------------------------|-----------|--------------------------|------------------------------|-------------------------|---------------------------------|-----------------|------------------------------------|------------------------------------|
| | | | | | | Ages | Ages | Ages | depende proport work | tion of king | 777 4 000 | 1 000 |
| | 1980 | millions 2000 | 2015 | % 1980-2000 | 2000-2015 | 0-14 % 2000 | 15-64 % 2000 | 65+ % 2000 | age por young 2000 | old 2000 | per 1,000 people 2000 | per 1,000 people 2000 |
| Afghanistan | 16.0 | 26.6 a | 37.8 | 2.5 | 2.4 | 43.5 | 53.7 | 2.8 | 0.8 | 0.1 | 22 | 48 |
| Albania | 2.7 | 3.4 | 4.0 | 1.2 | 1.0 | 30.0 | 64.2 | 5.9 | 0.5 | 0.1 | 6 | 17 |
| Algeria | 18.7 | 30.4 | 39.1 | 2.4 | 1.7 | 34.8 | 61.0 | 4.1 | 0.6 | 0.1 | 5 | 25 |
| Angola | 7.1 | 13.1 | 19.6 | 3.1 | 2.7 | 48.2 | 49.0 | 2.8 | 1.0 | 0.1 | 19 | 48 |
| Argentina | 28.1 | 37.0 | 42.8 | 1.4 | 1.0 | 27.7 | 62.6 | 9.7 | 0.4 | 0.2 | 8 | 19 |
| Armenia | 3.1 | 3.8 | 4.0 | 1.0 | 0.4 | 23.7 | 67.6 | 8.6 | 0.4 | 0.1 | 6 | 11 |
| Australia | 14.7 | 19.2 | 21.5 | 1.3 | 0.8 | 20.5 | 67.2 | 12.3 | 0.3 | 0.2 | 7 | 13 |
| Austria | 7.6 | 8.1 | 8.0 | 0.4 | -0.1 | 16.6 | 67.8 | 15.6 | 0.3 | 0.2 | 10 | 10 |
| Azerbaijan | 6.2 | 8.0 | 9.2 | 1.3 | 0.9 | 29.0 | 64.2 | 6.8 | 0.5 | 0.1 | 6 | 15 |
| Bangladesh | 85.4 | 131.1 | 167.7 | 2.1 | 1.6 | 38.7 | 58.2 | 3.1 | 0.7 | 0.1 | 9 | 28 |
| Belarus | 9.6 | 10.0 | 9.4 | 0.2 | -0.4 | 18.7 | 68.0 | 13.3 | 0.3 | 0.2 | 14 | 9 |
| Belgium | 9.8 | 10.3 | 10.3 | 0.2 | 0.0 | 17.3 | 65.7 | 17.0 | 0.3 | 0.3 | 10 | 11 |
| Benin | 3.5 | 6.3 | 9.0 | 3.0 | 2.4 | 46.4 | 50.9 | 2.7 | 1.0 | 0.1 | 13 | 39 |
| Bolivia | 5.4 | 8.3 | 10.9 | 2.2 | 1.8 | 39.6 | 56.4 | 4.0 | 0.7 | 0.1 | 9 | 31 |
| Bosnia and Herzegovina | 4.1 | 4.0 | 4.4 | -0.1 | 0.6 | 18.9 | 71.2 | 9.9 | 0.3 | 0.1 | 8 | 12 |
| Botswana | 0.9 | 1.6 | 1.7 | 2.8 | 0.6 | 42.1 | 55.1 | 2.8 | 0.8 | 0.1 | 20 7 | 32 |
| Brazil | 121.6 8.9 | 170.4 8.2 | 201.3 | 1.7 -0.4 | -0.6 | 28.8 15.7 | 66.1 68.1 | 5.1 16.1 | 0.4 | 0.1 | 14 | 9 |
| Bulgaria Burkina Faso | 7.0 | 11.3 | 15.6 | 2.4 | 2.2 | 48.7 | 48.1 | 3.2 | 1.0 | 0.2 | 19 | 44 |
| Burundi | 4.1 | 6.8 | 8.8 | 2.5 | 1.7 | 47.6 | 49.6 | 2.9 | 1.0 | 0.1 | 20 | 40 |
| Cambodia | 6.8 | 12.0 | 15.2 | 2.8 | 1.6 | 43.9 | 53.3 | 2.8 | 0.8 | 0.1 | 12 | 30 |
| Cameroon | 8.7 | 14.9 | 19.4 | 2.7 | 1.8 | 43.1 | 53.2 | 3.7 | 0.8 | 0.1 | 14 | 37 |
| Canada | 24.6 | 30.8 | 33.6 | 1.1 | 0.6 | 19.1 | 68.3 | 12.6 | 0.3 | 0.1 | 8 | 11 |
| Central African Republic | 2.3 | 3.7 | 4.6 | 2.4 | 1.5 | 43.0 | 53.0 | 4.0 | 0.8 | 0.1 | 20 | 36 |
| Chad | 4.5 | 7.7 | 11.8 | 2.7 | 2.9 | 46.5 | 50.4 | 3.1 | 0.9 | 0.1 | 16 | 45 |
| Chile | 11.1 | 15.2 | 17.7 | 1.6 | 1.0 | 28.5 | 64.4 | 7.2 | 0.4 | 0.1 | 6 | 17 |
| China | 981.2 | 1,262.5 | 1,392.6 | 1.3 | 0.7 | 24.8 | 68.3 | 6.9 | 0.4 | 0.1 | 7 | 15 |
| Hong Kong, China | 5.0 | 6.8 | 7.5 | 1.5 | 0.6 | 16.3 | 73.1 | 10.6 | 0.2 | 0.2 | 5 | 8 |
| Colombia | 28.4 | 42.3 | 51.6 | 2.0 | 1.3 | 32.8 | 62.5 | 4.7 | 0.5 | 0.1 | 6 | 23 |
| Congo, Dem. Rep. | 26.9 | 50.9 | 75.6 | 3.2 | 2.6 | 48.8 | 48.4 | 2.9 | 1.0 | 0.1 | 17 | 46 |
| Congo, Rep. | 1.7 | 3.0 | 4.6 | 3.0 | 2.8 | 46.3 | 50.4 | 3.3 | 0.9 | 0.1 | 14 | 43 |
| Costa Rica | 2.3 | 3.8 | 4.7 | 2.6 | 1.5 | 32.4 | 62.5 | 5.1 | 0.5 | 0.1 | 4 | 20 |
| Côte d'Ivoire | 8.2 | 16.0 | 20.5 | 3.3 | 1.7 | 42.1 | 54.8 | 3.1 | 0.8 | 0.1 | 17 | 37 |
| Croatia | 4.6 | 4.4 | 4.2 | -0.2 | -0.3 | 18.0 | 67.8 | 14.1 | 0.3 | 0.2 | 12 | 10 |
| Cuba | 9.7 | 11.2 | 11.7 | 0.7 | 0.3 | 21.2 | 69.2 | 9.6 | 0.3 | 0.1 | 7 | 13 |
| Czech Republic | 10.2 | 10.3 | 9.9 | 0.0 | -0.2 | 16.4 | 69.7 | 13.8 | 0.2 | 0.2 | 11 | 9 |
| Denmark | 5.1 | 5.3 | 5.4 | 0.2 | 0.1 | 18.3 | 66.7 | 15.0 | 0.3 | 0.2 | 11 | 12 |
| Dominican Republic | 5.7 | 8.4 | 10.1 | 1.9 | 1.3 | 33.5 | 62.2 | 4.3 | 0.5 | 0.1 | 6 | 23 |
| Ecuador | 8.0 | 12.6 | 15.8 | 2.3 | 1.5 | 33.8 | 61.5 | 4.7 | 0.6 | 0.1 | 6 | 24 |
| Egypt, Arab Rep. | 40.9 | 64.0 | 80.7 | 2.2 | 1.6 | 35.4 | 60.5 | 4.1 | 0.6 | 0.1 | 6 | 25 |
| El Salvador | 4.6 | 6.3 | 8.0 | 1.6 | 1.6 | 35.6 | 59.4 | 5.0 | 0.6 | 0.1 | 6 | 26 |
| Eritrea | 2.4 | 4.1 | 5.9 | 2.7 | 2.4 | 43.9 | 53.2 | 2.9 | 0.8 | 0.1 | 13 | 39 |
| Estonia | 1.5 | 1.4 | 1.3 | -0.4 | -0.5 | 17.7 | 67.9 | 14.4 | 0.3 | 0.2 | 13 | 9 |
| Ethiopia | 37.7 | 64.3 | 88.1 | 2.7 | 2.1 | 45.2 | 51.9 | 3.0 | 0.9 | 0.1 | 20 | 44 |
| Finland | 4.8 | 5.2 | 5.3 | 0.4 | 0.1 | 18.0 | 67.0 | 14.9 | 0.3 | 0.2 | 10 | 11 |
| France | 53.9 | 58.9 | 61.6 | 0.4 | 0.3 | 18.7 | 65.3 | 16.0 | 0.3 | 0.2 | 9 | 13 |
| Gabon | 0.7 | 1.2 | 1.7 | 2.9 | 2.2 | 40.2 | 54.0 | 5.8 | 0.7 | 0.1 | 16 | 36 |
| Gambia, The | 0.6 | 1.3 | 1.8 | 3.5 | 2.1 | 40.3 | 56.6 | 3.1 | 0.7 | 0.1 | 13 | 39 |
| Georgia | 5.1 | 5.0 | 4.8 | 0.0 | -0.3 | 20.5 | 66.6 | 12.9 | 0.3 | 0.2 | 9 | 9 |
| Germany | 78.3 | 82.2 | 80.0 | 0.2 | -0.2 | 15.5 | 68.1 | 16.4 | 0.2 | 0.2 | 11 | 9 |
| Ghana | 10.7 | 19.3 | 24.7 | 2.9 | 1.6 | 40.9 | 55.8 | 3.2 | 0.7 | 0.1 | 11 | 30 |
| Greece | 9.6 | 10.6 | 10.3 | 0.5 | -0.2 | 15.1 | 67.4 | 17.6 | 0.2 | 0.3 | 11 | 12 |
| Guatemala | 6.8 | 11.4 | 16.3 | 2.6 | 2.4 | 43.6 | 52.8 | 3.5 | 0.8 | 0.1 | 7 | 33 |
| Guinea | 4.5 | 7.4 | 9.8 | 2.5 | 1.9 | 44.1 | 53.2 | 2.8 | 0.8 | 0.1 | 17 | 39 |
| Guinea-Bissau | 0.8 | 1.2 | 1.7 | 2.3 | 2.2 | 43.5 | 52.9 | 3.6 | 0.8 | 0.1 | 20 | 42 |
| Haiti | 5.4 | 8.0 | 10.3 | 2.0 | 1.7 | 40.6 | 55.7 | 3.7 | 0.7 | 0.1 | 13 | 32 |
| Honduras | 3.6 | 6.4 | 8.5 | 2.9 | 1.9 | 41.8 | 54.8 | 3.4 | 0.8 | 0.1 | 6 | 31 |

Population dynamics | 2.1



| | | Total populatio | n | Average a popula growth | tion | ı | Population ag composition | - | Depend ratio | - | Crude death rate | Crude birth rate |
|---------------------------------|---------------|--------------------|---------------|-------------------------------|-----------|-----------------|---------------------------|-------------|-----------------|---------|------------------|------------------|
| | | | | growth | iate | A 44 - 4 | | Auro | depende | tion of | | |
| | | | | | | Ages 0-14 | Ages 15-64 | Ages 65+ | work age pop | | per 1,000 | per 1,000 |
| | 1980 | millions | 2045 | % 1980-2000 | 2000-2015 | % | % | % | young | old | people | people |
| H | | 2000 | 2015 | | | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Hungary | 10.7 | 10.0 | 9.4 | -0.3 | -0.4 | 16.9 | 68.4 | 14.6 | 0.3 | 0.2 | 14 | 10 |
| India | 687.3 | 1,015.9 | 1,227.9 | 2.0 | 1.3 | 33.5 | 61.5 | 5.0 | 0.5 | 0.1 | 9 | 25 |
| Indonesia Iran, Islamic Rep. | 148.3 39.1 | 210.4 | 250.5 80.4 | 1.7 2.4 | 1.2 | 30.8 37.4 | 64.4 59.2 | 4.8 3.4 | 0.5 | 0.1 | 6 | 22 |
| | 13.0 | 23.3 | 31.2 | 2.4 | 2.0 | 41.6 | 55.5 | 2.9 | 0.8 | 0.1 | 9 | 31 |
| Iraq Ireland | 3.4 | 3.8 | 4.3 | 0.5 | 0.8 | 21.6 | 67.1 | 11.3 | 0.8 | 0.1 | 8 | 14 |
| Israel | 3.4 | 6.2 | 7.9 | 2.4 | 1.6 | 28.3 | 61.9 | 9.9 | 0.5 | 0.2 | 6 | 21 |
| Italy | 56.4 | 57.7 | 54.8 | 0.1 | -0.3 | 14.3 | 67.6 | 18.1 | 0.2 | 0.3 | 10 | 9 |
| Jamaica | 2.1 | 2.6 | 3.1 | 1.1 | 1.0 | 31.5 | 61.3 | 7.2 | 0.5 | 0.1 | 6 | 21 |
| Japan | 116.8 | 126.9 | 124.6 | 0.4 | -0.1 | 14.7 | 68.1 | 17.2 | 0.2 | 0.3 | 8 | 9 |
| Jordan | 2.2 | 4.9 | 6.8 | 4.0 | 2.2 | 40.0 | 57.2 | 2.8 | 0.7 | 0.1 | 4 | 29 |
| Kazakhstan | 14.9 | 14.9 | 15.3 | 0.0 | 0.2 | 27.0 | 66.2 | 6.9 | 0.4 | 0.1 | 10 | 15 |
| Kenya | 16.6 | 30.1 | 37.5 | 3.0 | 1.5 | 43.5 | 53.7 | 2.8 | 0.8 | 0.1 | 14 | 35 |
| Korea, Dem. Rep. | 17.2 | 22.3 | 24.2 | 1.3 | 0.6 | 26.5 | 67.6 | 5.9 | 0.4 | 0.1 | 11 | 18 |
| Korea, Rep. | 38.1 | 47.3 | 50.3 | 1.1 | 0.4 | 20.8 | 72.1 | 7.1 | 0.3 | 0.1 | 6 | 13 |
| Kuwait | 1.4 | 2.0 | 2.7 | 1.8 | 2.1 | 31.3 | 66.5 | 2.2 | 0.5 | 0.0 | 2 | 20 |
| Kyrgyz Republic | 3.6 | 4.9 | 5.8 | 1.5 | 1.1 | 33.9 | 60.0 | 6.0 | 0.6 | 0.1 | 7 | 21 |
| Lao PDR | 3.2 | 5.3 | 7.3 | 2.5 | 2.2 | 42.7 | 53.8 | 3.5 | 0.8 | 0.1 | 13 | 37 |
| Latvia | 2.5 | 2.4 | 2.1 | -0.4 | -0.7 | 17.4 | 67.8 | 14.8 | 0.3 | 0.2 | 14 | 9 |
| Lebanon | 3.0 | 4.3 | 5.2 | 1.8 | 1.2 | 31.1 | 62.8 | 6.1 | 0.5 | 0.1 | 6 | 20 |
| Lesotho | 1.4 | 2.0 | 2.3 | 2.0 | 0.8 | 39.3 | 56.6 | 4.2 | 0.7 | 0.1 | 17 | 33 |
| Liberia | 1.9 | 3.1 | 4.5 | 2.6 | 2.5 | 42.7 | 54.5 | 2.9 | 0.8 | 0.1 | 17 | 44 |
| Libya | 3.0 | 5.3 | 7.0 | 2.8 | 1.9 | 33.9 | 62.7 | 3.4 | 0.5 | 0.1 | 5 | 27 |
| Lithuania | 3.4 | 3.7 | 3.6 | 0.4 | -0.2 | 19.5 | 67.2 | 13.4 | 0.3 | 0.2 | 11 | 9 |
| Macedonia, FYR | 1.9 | 2.0 | 2.2 | 0.4 | 0.4 | 22.6 | 67.4 | 10.0 | 0.3 | 0.2 | 8 | 13 |
| Madagascar | 8.9 | 15.5 | 22.5 | 2.8 | 2.5 | 44.7 | 52.3 | 3.0 | 0.9 | 0.1 | 12 | 40 |
| Malawi | 6.2 | 10.3 | 13.6 | 2.6 | 1.8 | 46.3 | 50.7 | 2.9 | 0.9 | 0.1 | 24 | 46 |
| Malaysia | 13.8 | 23.3 | 29.3 | 2.6 | 1.5 | 34.1 | 61.8 | 4.1 | 0.6 | 0.1 | 4 | 25 |
| Mali | 6.6 | 10.8 | 15.0 | 2.5 | 2.2 | 46.1 | 49.9 | 4.0 | 0.9 | 0.1 | 20 | 46 |
| Mauritania | 1.6 | 2.7 | 3.9 | 2.7 | 2.5 | 44.1 | 52.7 | 3.2 | 0.8 | 0.1 | 15 | 42 |
| Mauritius | 1.0 | 1.2 | 1.4 | 1.0 | 0.9 | 25.6 | 68.2 | 6.2 | 0.4 | 0.1 | 7 | 17 |
| Mexico | 67.6 | 98.0 | 121.1 | 1.9 | 1.4 | 33.1 | 62.1 | 4.7 | 0.5 | 0.1 | 5 | 25 |
| Moldova | 4.0 | 4.3 | 4.2 | 0.3 | -0.1 | 23.1 | 67.6 | 9.3 | 0.3 | 0.1 | 11 | 10 |
| Mongolia | 1.7 | 2.4 | 2.9 | 1.8 | 1.3 | 35.2 | 61.0 | 3.8 | 0.6 | 0.1 | 6 | 22 |
| Morocco | 19.4 | 28.7 | 35.4 | 2.0 | 1.4 | 34.7 | 61.2 | 4.1 | 0.6 | 0.1 | 6 | 24 |
| Myanmar | 12.1 33.7 | 17.7 | 22.7 | 1.9 | 1.7 | 43.9 33.1 | 52.8 62.3 | 3.2 4.6 | 0.8 | 0.1 | 20 12 | 40 25 |
| Myanmar Namibia | 1.0 | 47.7 1.8 | 55.8 2.1 | 2.9 | 1.0 | 43.7 | 52.5 | 3.8 | 0.8 | 0.1 | 17 | 36 |
| Nepal | 14.6 | 23.0 | 31.1 | 2.3 | 2.0 | 41.0 | 55.2 | 3.7 | 0.8 | 0.1 | 10 | 33 |
| Netherlands | 14.2 | 15.9 | 16.9 | 0.6 | 0.4 | 18.3 | 68.1 | 13.6 | 0.7 | 0.2 | 9 | 13 |
| New Zealand | 3.1 | 3.8 | 4.1 | 1.0 | 0.5 | 23.0 | 65.4 | 11.7 | 0.4 | 0.2 | 7 | 15 |
| Nicaragua | 2.9 | 5.1 | 7.0 | 2.8 | 2.1 | 42.6 | 54.3 | 3.0 | 0.8 | 0.1 | 5 | 30 |
| Niger | 5.6 | 10.8 | 16.8 | 3.3 | 2.9 | 49.9 | 48.1 | 2.0 | 1.0 | 0.0 | 19 | 51 |
| Nigeria | 71.1 | 126.9 | 169.4 | 2.9 | 1.9 | 45.1 | 51.9 | 3.0 | 0.9 | 0.1 | 16 | 40 |
| Norway | 4.1 | 4.5 | 4.8 | 0.5 | 0.4 | 19.8 | 64.9 | 15.4 | 0.3 | 0.2 | 10 | 13 |
| Oman | 1.1 | 2.4 | 3.3 | 3.9 | 2.2 | 44.1 | 53.4 | 2.5 | 0.8 | 0.1 | 3 | 28 |
| Pakistan | 82.7 | 138.1 | 192.8 | 2.6 | 2.2 | 41.8 | 54.5 | 3.7 | 0.8 | 0.1 | 8 | 34 |
| Panama | 2.0 | 2.9 | 3.5 | 1.9 | 1.3 | 31.3 | 63.2 | 5.5 | 0.5 | 0.1 | 5 | 21 |
| Papua New Guinea | 3.1 | 5.1 | 6.9 | 2.5 | 2.0 | 40.1 | 57.5 | 2.4 | 0.7 | 0.0 | 9 | 32 |
| Paraguay | 3.1 | 5.5 | 7.5 | 2.8 | 2.1 | 39.5 | 57.0 | 3.5 | 0.7 | 0.1 | 5 | 30 |
| Peru | 17.3 | 25.7 | 31.4 | 2.0 | 1.3 | 33.4 | 61.8 | 4.8 | 0.5 | 0.1 | 7 | 23 |
| Philippines | 48.0 | 75.6 | 97.3 | 2.3 | 1.7 | 37.5 | 58.9 | 3.5 | 0.6 | 0.1 | 5 | 27 |
| Poland | 35.6 | 38.7 | 38.8 | 0.4 | 0.0 | 19.2 | 68.7 | 12.1 | 0.3 | 0.2 | 10 | 10 |
| Portugal | 9.8 | 10.0 | 9.9 | 0.1 | -0.1 | 16.7 | 67.7 | 15.6 | 0.3 | 0.2 | 11 | 12 |
| Puerto Rico | 3.2 | 3.9 | 4.4 | 1.0 | 0.7 | 23.8 | 65.7 | 10.5 | 0.4 | 0.2 | 8 | 15 |
| Romania | 22.2 | 22.4 | 21.4 | 0.1 | -0.3 | 18.3 | 68.4 | 13.3 | 0.3 | 0.2 | 11 | 10 |
| Russian Federation | 139.0 | 145.6 | 134.5 | 0.2 | -0.5 | 18.0 | 69.6 | 12.5 | 0.3 | 0.2 | 15 | 9 |



2.1 | Population dynamics

| | | Total populatio | n | Average popula | tion | | opulation age composition | e | Depend ratio | - | Crude death rate | Crude birth rate |
|-------------------------|-----------|--------------------|---------|-----------------------|-----------|------------------|------------------------------|------------------|---------------------------------------|---------------------------|------------------|------------------|
| | | | | | | Ages 0-14 | Ages 15-64 | Ages 65+ | depende proport work age pop | ion of iing ulation | per 1,000 | per 1,000 |
| | 1980 | millions 2000 | 2015 | % 1980-2000 | 2000-2015 | % 2000 | % 2000 | % 2000 | young 2000 | old 2000 | people 2000 | people 2000 |
| Rwanda | 5.2 | 8.5 | 11.1 | 2.5 | 1.8 | 44.3 | 53.1 | 2.6 | 0.9 | 0.1 | 22 | 44 |
| Saudi Arabia | 9.4 | 20.7 | 32.1 | 4.0 | 2.9 | 42.9 | 54.1 | 3.0 | 0.8 | 0.1 | 4 | 33 |
| Senegal | 5.5 | 9.5 | 13.0 | 2.7 | 2.1 | 44.3 | 53.2 | 2.5 | 0.8 | 0.1 | 13 | 37 |
| Sierra Leone | 3.2 | 5.0 | 6.9 | 2.2 | 2.1 | 44.2 | 52.8 | 2.9 | 0.8 | 0.1 | 23 | 44 |
| Singapore | 2.4 | 4.0 | 4.9 | 2.5 | 1.3 | 21.9 | 70.9 | 7.2 | 0.3 | 0.1 | 4 | 12 |
| Slovak Republic | 5.0 | 5.4 | 5.4 | 0.4 | 0.0 | 19.5 | 69.1 | 11.4 | 0.3 | 0.2 | 10 | 10 |
| Slovenia | 1.9 | 2.0 | 1.9 | 0.2 | -0.2 | 15.9 | 70.2 | 13.9 | 0.2 | 0.2 | 10 | 9 |
| Somalia | 6.5 | 8.8 | 14.2 | 1.5 | 3.2 | 48.0 | 49.6 | 2.4 | 1.0 | 0.1 | 17 | 51 |
| South Africa | 27.6 | 42.8 | 45.8 | 2.2 | 0.5 | 34.0 | 62.4 | 3.6 | 0.6 | 0.1 | 16 | 26 |
| Spain | 37.4 | 39.5 | 38.8 | 0.3 | -0.1 | 14.7 | 68.3 | 17.0 | 0.2 | 0.3 | 9 | 10 |
| Sri Lanka | 14.7 | 19.4 | 23.0 | 1.4 | 1.1 | 26.3 | 67.4 | 6.3 | 0.4 | 0.1 | 6 | 18 |
| Sudan | 19.3 | 31.1 | 41.8 | 2.4 | 2.0 | 40.1 | 56.4 | 3.4 | 0.7 | 0.1 | 11 | 34 |
| Swaziland | 0.6 | 1.0 | 1.3 | 3.1 | 1.3 | 41.6 | 55.0 | 3.5 | 0.8 | 0.1 | 15 | 36 |
| Sweden | 8.3 | 8.9 | 8.8 | 0.3 | -0.1 | 18.2 | 64.4 | 17.4 | 0.3 | 0.3 | 11 | 10 |
| Switzerland | 6.3 | 7.2 | 7.1 | 0.6 | 0.0 | 16.7 | 67.3 | 16.0 | 0.3 | 0.2 | 9 | 10 |
| Syrian Arab Republic | 8.7 | 16.2 | 22.1 | 3.1 | 2.1 | 40.8 | 56.0 | 3.1 | 0.7 | 0.1 | 5 | 29 |
| Tajikistan | 4.0 | 6.2 | 7.7 | 2.2 | 1.5 | 39.4 | 56.0 | 4.6 | 0.7 | 0.1 | 5 | 19 |
| Tanzania | 18.6 | 33.7 | 43.9 | 3.0 | 1.8 | 45.0 | 52.6 | 2.4 | 0.9 | 0.1 | 17 | 39 |
| Thailand | 46.7 | 60.7 | 68.7 | 1.3 | 0.8 | 26.7 | 68.1 | 5.2 | 0.4 | 0.1 | 7 | 17 |
| Togo | 2.5 | 4.5 | 6.0 | 2.9 | 1.9 | 44.3 | 52.6 | 3.1 | 0.8 | 0.1 | 15 | 37 |
| Trinidad and Tobago | 1.1 | 1.3 | 1.5 | 0.9 | 0.8 | 25.0 | 68.4 | 6.7 | 0.4 | 0.1 | 7 | 15 |
| Tunisia | 6.4 | 9.6 | 11.6 | 2.0 | 1.3 | 29.7 | 64.4 | 5.9 | 0.5 | 0.1 | 6 | 17 |
| Turkey | 44.5 | 65.3 | 77.8 | 1.9 | 1.2 | 30.0 | 64.2 | 5.8 | 0.5 | 0.1 | 6 | 20 |
| Turkmenistan | 2.9 | 5.2 | 6.4 | 3.0 | 1.3 | 37.6 | 58.1 | 4.3 | 0.7 | 0.1 | 7 | 21 |
| Uganda | 12.8 | 22.2 | 31.6 | 2.8 | 2.4 | 49.2 | 48.3 | 2.5 | 1.0 | 0.1 | 19 | 45 |
| Ukraine | 50.0 | 49.5 | 44.9 | -0.1 | -0.6 | 17.8 | 68.3 | 13.8 | 0.3 | 0.2 | 15 | 9 |
| United Arab Emirates | 1.0 | 2.9 | 3.8 | 5.1 | 1.8 | 26.0 | 71.3 | 2.7 | 0.4 | 0.0 | 3 | 17 |
| United Kingdom | 56.3 | 59.7 | 59.7 | 0.3 | 0.0 | 19.0 | 65.3 | 15.8 | 0.3 | 0.2 | 11 | 11 |
| United States | 227.2 | 281.6 | 317.8 | 1.1 | 0.8 | 21.7 | 66.0 | 12.3 | 0.3 | 0.2 | 9 | 15 |
| Uruguay | 2.9 | 3.3 | 3.7 | 0.7 | 0.6 | 24.8 | 62.3 | 12.9 | 0.4 | 0.2 | 10 | 16 |
| Uzbekistan | 16.0 | 24.8 | 30.1 | 2.2 | 1.3 | 36.3 | 59.1 | 4.7 | 0.6 | 0.1 | 6 | 22 |
| Venezuela, RB | 15.1 | 24.2 | 30.3 | 2.4 | 1.5 | 34.0 | 61.5 | 4.4 | 0.6 | 0.1 | 4 | 22 |
| Vietnam | 53.7 | 78.5 | 94.4 | 1.9 | 1.2 | 33.4 | 61.3 | 5.3 | 0.5 | 0.1 | 6 | 19 |
| West Bank and Gaza | | 3.0 | 5.0 | | 3.5 | | | | | | 4 | 40 |
| Yemen, Rep. | 8.5 | 17.5 | 27.0 | 3.6 | 2.9 | 50.1 | 47.6 | 2.3 | 1.1 | 0.1 | 11 | 40 |
| Yugoslavia, Fed. Rep. | 9.8 | 10.6 | 10.7 | 0.4 | 0.1 | 20.0 | 66.9 | 13.1 | 0.3 | 0.2 | 11 | 12 |
| Zambia | 5.7 | 10.1 | 12.2 | 2.8 | 1.3 | 46.5 | 50.5 | 2.9 | 0.9 | 0.1 | 21 | 40 |
| Zimbabwe | 7.1 | 12.6 | 14.0 | 2.9 | 0.7 | 45.2 | 51.6 | 3.2 | 0.9 | 0.1 | 18 | 30 |
| World | 4,429.3 s | 6,0 <u>57.3</u> s | 7,101.2 | 1.6 w | 1.1 w | 30.0 w | 63.1 w | 6.9 w | 0.47 w | 0.11 w | v 9 w | 22 w |
| Low income | 1,609.5 | 2,459.8 | 3,090.3 | 2.1 | 1.5 | 36.9 | 58.7 | 4.4 | 0.6 | 0.1 | 11 | 29 |
| Middle income | 2,030.0 | 2,694.6 | 3,063.4 | 1.4 | 0.9 | 27.4 | 66.0 | 6.6 | 0.4 | 0.1 | 8 | 18 |
| Lower middle income | 1,563.7 | 2,047.6 | 2,306.4 | 1.3 | 0.8 | 26.9 | 66.4 | 6.8 | 0.4 | 0.1 | 8 | 17 |
| Upper middle income | 466.3 | 647.0 | 757.1 | 1.6 | 1.0 | 29.1 | 64.6 | 6.2 | 0.5 | 0.1 | 7 | 20 |
| Low & middle income | 3,639.5 | 5,154.4 | 6,153.7 | 1.7 | 1.2 | 31.9 | 62.5 | 5.6 | 0.5 | 0.1 | 9 | 23 |
| East Asia & Pacific | 1,396.9 | 1,855.2 | 2,097.8 | 1.4 | 0.8 | 26.9 | 66.8 | 6.2 | 0.4 | 0.1 | 7 | 17 |
| Europe & Central Asia | 425.8 | 474.3 | 478.8 | 0.5 | 0.1 | 22.0 | 67.1 | 10.8 | 0.3 | 0.2 | 11 | 12 |
| Latin America & Carib. | 359.6 | 515.7 | 625.4 | 1.8 | 1.3 | 31.5 | 63.0 | 5.4 | 0.5 | 0.1 | 6 | 22 |
| Middle East & N. Africa | 174.0 | 295.2 | 388.7 | 2.6 | 1.8 | 37.8 | 58.6 | 3.6 | 0.6 | 0.1 | 6 | 26 |
| South Asia | 901.4 | 1,355.1 | 1,681.9 | 2.0 | 1.4 | 35.1 | 60.3 | 4.6 | 0.6 | 0.1 | 9 | 27 |
| Sub-Saharan Africa | 381.7 | 658.9 | 881.1 | 2.7 | 1.9 | 44.4 | 52.6 | 3.0 | 0.8 | 0.1 | 17 | 39 |
| | 700.0 | 000.0 | 047.5 | 0.7 | 0.2 | 40 F | 66.0 | 117 | 0.0 | 0.2 | | |

789.8

286.7

902.9

304.0

947.5

302.3

0.7

0.3

0.3

0.0

18.5

16.2

66.9

67.3

14.7

16.4

0.3

0.2

0.2

9

10

12

11

High income

Europe EMU

Population dynamics | 2.1



About the data

Population estimates are usually based on national population censuses, but the frequency and quality of these vary by country. Most countries conduct a complete enumeration no more than once a decade. Pre- and postcensus estimates 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 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, 118 (about 78 percent) conducted a census between 1990 and 2001. 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 registration completeness.

Current population estimates for developing countries that lack recent census-based data, and pre- and postcensus estimates for countries with census data, are provided by national statistical offices, 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 15 was earlier 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.

The variations in the proportions of children, aged persons, and persons of working age are taken into account in the dependency ratio.

Separate calculations of young-age dependency and old-age dependency reflect the burden of dependency that the working-age population must bear in relation to the proportion of children and the aged in the population. Age dependency ratios are a measure of the age composition, not of economic dependency. It should be noted that some people in the dependent age range are part of the labor force, and many persons in the working age range are not in the labor force.

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, United Nations agencies, and other organizations. The estimates for 2000 for many countries are 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 geographic coverage or coverage of events. Many developing countries carry out specialized 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 53 percent in 1999. Still, some of the most populous developing countries—China, India, Indonesia, Brazil, Pakistan, Bangladesh, Nigeria—do not have complete vital registration systems. Fewer than 30 percent of births and fewer than 40 percent of deaths worldwide are thought to be registered and reported.

International migration is the only other factor besides birth and death rates that directly determines a country's population growth. In the high-income countries about 40 percent of annual population growth in 1990-95 was due to migration, while in the developing countries migration reduced population growth by about 3 percent. 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 who are present regardless of legal status or citizenship— except for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. The indicators shown are midyear estimates for 1980 and 2000 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** represents the percentage of the total population that is in specific age groups. **Dependency ratios** are the ratios of dependents—people younger than 15 and older than 64—to the working-age population—those between 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.

Data sources

The World Bank's population estimates are 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 following sources: census reports and other statistical publications from national statistical offices; Demographic and Health Surveys conducted by national agencies, Macro International, and the U.S. Centers for Disease Control and Prevention: United Nations Statistics Division, Population and Vital Statistics Report (quarterly); United Nations Population Division, World Population Prospects: The 2000 Revision; 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

Population ages 15-64

Labor force

| | | | | Total | | Average | | Fema | |
|--------------------------|------------|------------------|------------|------------------|-------------|----------------------------|------------------|--------------------------|------------------|
| | 1980 | millions 2000 | 1980 | millions 2000 | 2010 | growth 1980-2000 | rate % 2000-2010 | % of labo 1980 | or force 2000 |
| Afghanistan | 8.5 | 14.2 | 6.8 | 11.2 | 13.8 | 2.5 | 2.1 | 34.8 | 35.5 |
| Albania | 1.6 | 2.2 | 1.2 | 1.7 | 2.0 | 1.7 | 1.5 | 38.8 | 41.3 |
| Algeria | 9.3 | 18.6 | 4.8 | 10.2 | 14.6 | 3.7 | 3.5 | 21.4 | 27.6 |
| Angola | 3.7 | 6.4 | 3.5 | 6.0 | 8.1 | 2.7 | 3.0 | 47.0 | 46.3 |
| Argentina | 17.2 | 23.2 | 10.7 | 15.0 | 18.5 | 1.7 | 2.1 | 27.6 | 33.2 |
| Armenia | 2.0 | 2.6 | 1.4 | 1.9 | 2.2 | 1.4 | 1.3 | 47.9 | 48.6 |
| Australia | 9.6 | 12.9 | 6.7 | 9.8 | 10.6 | 1.9 | 0.8 | 36.8 | 43.7 |
| Austria | 4.8 | 5.5 | 3.4 | 3.8 | 3.8 | 0.6 | 0.0 | 40.5 | 40.3 |
| Azerbaijan | 3.7 | 5.2 | 2.7 | 3.6 | 4.3 | 1.4 | 1.9 | 47.5 | 44.6 |
| Bangladesh | 44.8 | 76.2 | 40.3 | 69.2 | 86.7 | 2.7 | 2.3 | 42.3 | 42.4 |
| Belarus | 6.4 | 6.8 | 5.1 | 5.3 | 5.3 | 0.2 | 0.1 | 49.9 | 49.0 |
| Belgium | 6.5 | 6.7 | 3.9 | 4.3 | 4.2 | 0.4 | -0.2 | 33.9 | 40.9 |
| Benin | 1.8 | 3.2 | 1.7 | 2.8 | 3.7 | 2.7 | 2.8 | 47.0 | 48.3 |
| Bolivia | 2.9 | 4.7 | 2.0 | 3.4 | 4.4 | 2.6 | 2.5 | 33.3 | 37.8 |
| Bosnia and Herzegovina | 2.7 | 2.8 | 1.6 | 1.9 | 2.0 | 0.7 | 0.9 | 32.8 | 38.1 |
| Botswana | 0.4 | 0.9 | 0.4 | 0.7 | 0.8 | 2.9 | 0.9 | 50.1 | 45.3 |
| Brazil | 70.3 | 112.6 | 47.7 | 79.7 | 90.0 | 2.6 | 1.2 | 28.4 | 35.5 |
| Bulgaria | 5.8 | 5.6 | 4.6 | 4.2 | 3.9 | -0.5 | -0.7 | 45.3 | 48.2 |
| Burkina Faso | 3.4 | 5.4 | 3.8 | 5.6 | 6.7 | 1.9 | 1.9 | 47.6 | 46.5 |
| Burundi | 2.1 | 3.4 | 2.3 | 3.7 | 4.6 | 2.5 | 2.2 | 50.2 | 48.7 |
| Cambodia | 3.9 | 6.4 | 3.7 | 6.3 | 7.9 | 2.7 | 2.3 | 55.4 | 51.7 |
| Cameroon | 4.5 | 7.9 | 3.6 | 6.1 | 7.5 | 2.5 | 2.1 | 36.8 | 38.0 |
| Canada | 16.7 | 21.0 | 12.2 | 16.5 | 17.5 2.1 | 1.5 | 0.6 | 39.5 | 45.8 |
| Central African Republic | 1.3 2.3 | 2.0 | 1.2 2.2 | 1.8 3.7 | 5.0 | 1.9 2.6 | 1.5 | 43.4 | 44.7 |
| Chad Chile | 6.8 | 3.9 9.8 | 3.8 | 6.2 | 7.5 | 2.4 | 3.0 1.9 | 26.3 | 33.6 |
| China | 586.3 | 862.2 | 538.7 | 756.8 | 818.3 | 1.7 | 0.8 | 43.2 | 45.2 |
| Hong Kong, China | 3.4 | 5.0 | 2.5 | 3.6 | 3.9 | 1.9 | 0.8 | 34.3 | 37.1 |
| Colombia | 15.8 | 26.4 | 9.4 | 18.5 | 23.0 | 3.4 | 2.2 | 26.2 | 38.7 |
| Congo, Dem. Rep. | 13.8 | 24.6 | 12.0 | 21.0 | 28.2 | 2.8 | 3.0 | 44.5 | 43.4 |
| Congo, Rep. | 0.9 | 1.5 | 0.7 | 1.2 | 1.7 | 2.9 | 3.0 | 42.4 | 43.5 |
| Costa Rica | 1.3 | 2.4 | 0.8 | 1.5 | 1.9 | 3.3 | 2.1 | 20.8 | 31.1 |
| Côte d'Ivoire | 4.2 | 8.8 | 3.3 | 6.4 | 8.0 | 3.3 | 2.3 | 32.2 | 33.4 |
| Croatia | 3.1 | 3.0 | 2.2 | 2.1 | 2.0 | -0.2 | -0.2 | 40.2 | 44.2 |
| Cuba | 5.9 | 7.7 | 3.7 | 5.5 | 5.9 | 2.0 | 0.7 | 31.4 | 39.5 |
| Czech Republic | 6.5 | 7.2 | 5.3 | 5.8 | 5.5 | 0.4 | -0.4 | 47.1 | 47.3 |
| Denmark | 3.3 | 3.6 | 2.7 | 2.9 | 2.8 | 0.4 | -0.5 | 44.0 | 46.4 |
| Dominican Republic | 3.1 | 5.2 | 2.1 | 3.7 | 4.6 | 2.8 | 2.2 | 24.7 | 30.8 |
| Ecuador | 4.2 | 7.8 | 2.5 | 4.9 | 6.5 | 3.3 | 2.7 | 20.1 | 28.0 |
| Egypt, Arab Rep. | 23.1 | 38.7 | 14.3 | 24.4 | 32.2 | 2.7 | 2.8 | 26.5 | 30.4 |
| El Salvador | 2.4 | 3.7 | 1.6 | 2.7 | 3.6 | 2.8 | 2.9 | 26.5 | 36.5 |
| Eritrea | 1.3 | 2.2 | 1.2 | 2.1 | 2.7 | 2.6 | 2.7 | 47.4 | 47.4 |
| Estonia | 1.0 | 0.9 | 0.8 | 0.8 | 0.7 | -0.4 | -0.2 | 50.6 | 49.0 |
| Ethiopia | 19.9 | 33.4 | 16.9 | 27.6 | 34.6 | 2.4 | 2.3 | 42.3 | 40.9 |
| Finland | 3.2 | 3.5 | 2.4 | 2.6 | 2.5 | 0.4 | -0.5 | 46.5 | 48.1 |
| France | 34.4 | 38.5 | 23.8 | 26.7 | 27.6 | 0.6 | 0.3 | 40.1 | 45.1 |
| Gabon | 0.4 | 0.7 | 0.4 | 0.6 | 0.7 | 2.2 | 2.0 | 45.0 | 44.7 |
| Gambia, The | 0.3 | 0.7 | 0.3 | 0.7 | 0.8 | 3.5 | 2.4 | 44.8 | 45.1 |
| Georgia | 3.3 | 3.3 | 2.6 | 2.5 | 2.5 | -0.2 | 0.1 | 49.3 | 46.8 |
| Germany | 51.6 | 55.9 | 37.5 | 40.9 | 40.8 | 0.4 | 0.0 | 40.1 | 42.3 |
| Ghana | 5.5 | 10.8 | 5.1 | 9.2 | 11.2 | 2.9 | 2.0 | 51.0 | 50.5 |
| Greece | 6.2 | 7.1 | 3.8 | 4.6 | 4.6 | 1.0 | 0.1 | 27.9 | 37.8 |
| Guatemala | 3.5 | 6.0 | 2.3 | 4.2 | 6.0 | 2.9 | 3.5 | 22.4 | 28.9 |
| Guinea | 2.3 | 3.9 | 2.3 | 3.5 | 4.3 | 2.1 | 2.0 | 47.1 | 47.2 |
| Guinea-Bissau | 0.4 | 0.6 | 0.4 | 0.6 | 0.7 | 1.9 | 2.3 | 39.9 | 40.5 |
| Haiti | 2.9 | 4.4 | 2.5 | 3.5 | 4.2 | 1.6 | 1.8 | 44.6 | 42.9 |
| Honduras | 1.8 | 3.5 | 1.2 | 2.4 | 3.4 | 3.5 | 3.3 | 25.2 | 31.8 |

Labor force structure | 2.2



Population ages 15-64

Labor force

| | | | | | | | | Female | | |
|----------------------|-------|----------|-------|-------------------|-------|-----------|--------------------|------------------------|------|--|
| | r | millions | | Total millions | | | e annual rate % | Fem % of laboration | | |
| | 1980 | 2000 | 1980 | 2000 | 2010 | 1980-2000 | 2000-2010 | 1980 | 2000 | |
| Hungary | 6.9 | 6.9 | 5.1 | 4.8 | 4.6 | -0.3 | -0.5 | 43.3 | 44.7 | |
| India | 394.5 | 625.2 | 299.5 | 450.8 | 543.6 | 2.0 | 1.9 | 33.7 | 32.3 | |
| Indonesia | 83.2 | 135.6 | 58.6 | 101.8 | 124.5 | 2.8 | 2.0 | 35.2 | 40.8 | |
| Iran, Islamic Rep. | 20.5 | 37.7 | 11.7 | 19.7 | 27.7 | 2.6 | 3.4 | 20.4 | 27.1 | |
| Iraq | 6.7 | 12.9 | 3.5 | 6.5 | 8.6 | 3.0 | 2.8 | 17.3 | 19.7 | |
| Ireland | 2.0 | 2.5 | 1.3 | 1.6 | 1.8 | 1.2 | 1.3 | 28.1 | 34.5 | |
| Israel | 2.3 | 3.9 | 1.5 | 2.7 | 3.5 | 3.1 | 2.5 | 33.7 | 41.2 | |
| Italy | 36.4 | 39.0 | 22.6 | 25.7 | 24.7 | 0.7 | -0.4 | 32.9 | 38.5 | |
| Jamaica | 1.1 | 1.6 | 1.0 | 1.4 | 1.6 | 1.8 | 1.5 | 46.3 | 46.2 | |
| Japan | 78.7 | 86.4 | 57.2 | 68.3 | 66.1 | 0.9 | -0.3 | 37.9 | 41.4 | |
| Jordan | 1.0 | 2.8 | 0.5 | 1.5 | 2.0 | 5.2 | 3.4 | 14.7 | 24.6 | |
| Kazakhstan | 9.1 | 9.8 | 7.0 | 7.3 | 7.7 | 0.2 | 0.6 | 47.6 | 47.1 | |
| Kenya | 7.8 | 16.2 | 7.8 | 15.5 | 19.0 | 3.4 | 2.0 | 46.0 | 46.1 | |
| Korea, Dem. Rep. | 10.5 | 15.1 | 7.5 | 11.7 | 12.3 | 2.2 | 0.5 | 44.8 | 43.3 | |
| Korea, Rep. | 23.7 | 34.1 | 15.5 | 24.2 | 26.6 | 2.2 | 0.9 | 38.7 | 41.4 | |
| Kuwait | 0.8 | 1.3 | 0.5 | 0.8 | 1.2 | 2.4 | 4.0 | 13.1 | 31.3 | |
| | 2.1 | 2.9 | 1.5 | 2.1 | 2.6 | 1.6 | 2.1 | 47.5 | 47.3 | |
| Kyrgyz Republic | 1.8 | 2.9 | 1.5 | 2.1 | 3.3 | 2.1 | 2.1 | | | |
| Lao PDR | | | | | | | | | | |
| Latvia | 1.7 | 1.6 | 1.4 | 1.3 | 1.3 | -0.5 | -0.4 | 50.8 | 50.5 | |
| Lebanon | 1.6 | 2.7 | 0.8 | 1.5 | 2.0 | 2.9 | 2.6 | 22.6 | 29.6 | |
| Lesotho | 0.7 | 1.2 | 0.6 | 0.8 | 0.9 | 1.9 | 1.2 | 37.9 | 36.9 | |
| Liberia | 1.0 | 1.7 | 0.8 | 1.3 | 1.6 | 2.3 | 2.1 | 38.4 | 39.6 | |
| Libya | 1.6 | 3.3 | 0.9 | 1.5 | 1.9 | 2.4 | 2.4 | 18.6 | 23.1 | |
| Lithuania | 2.2 | 2.5 | 1.8 | 1.9 | 2.0 | 0.3 | 0.2 | 49.7 | 48.0 | |
| Macedonia, FYR | 1.2 | 1.4 | 0.8 | 1.0 | 1.0 | 0.8 | 0.6 | 36.1 | 41.7 | |
| Madagascar | 4.6 | 8.1 | 4.3 | 7.3 | 9.7 | 2.6 | 2.9 | 45.2 | 44.7 | |
| Malawi | 3.1 | 5.2 | 3.1 | 5.0 | 6.0 | 2.3 | 1.9 | 50.6 | 48.6 | |
| Malaysia | 7.8 | 14.4 | 5.3 | 9.6 | 12.7 | 3.0 | 2.8 | 33.7 | 37.9 | |
| Mali | 3.3 | 5.4 | 3.4 | 5.3 | 6.6 | 2.2 | 2.3 | 46.7 | 46.2 | |
| Mauritania | 0.8 | 1.4 | 0.7 | 1.2 | 1.6 | 2.5 | 2.7 | 45.0 | 43.6 | |
| Mauritius | 0.6 | 0.8 | 0.3 | 0.5 | 0.6 | 2.0 | 1.1 | 25.7 | 32.6 | |
| Mexico | 34.5 | 60.9 | 22.0 | 40.4 | 50.9 | 3.0 | 2.3 | 26.9 | 33.2 | |
| Moldova | 2.6 | 2.9 | 2.1 | 2.2 | 2.2 | 0.1 | 0.2 | 50.3 | 48.6 | |
| Mongolia | 0.9 | 1.5 | 0.8 | 1.2 | 1.5 | 2.2 | 2.1 | 45.7 | 47.0 | |
| Morocco | 10.2 | 17.6 | 7.0 | 11.5 | 14.7 | 2.5 | 2.5 | 33.5 | 34.7 | |
| Mozambique | 6.4 | 9.3 | 6.7 | 9.2 | 11.1 | 1.6 | 1.9 | 49.0 | 48.4 | |
| Myanmar | 18.6 | 29.7 | 17.1 | 25.4 | 29.3 | 2.0 | 1.5 | 43.7 | 43.4 | |
| Namibia | 0.5 | 0.9 | 0.4 | 0.7 | 0.8 | 2.6 | 1.4 | 40.1 | 40.9 | |
| Nepal | 8.1 | 12.7 | 7.1 | 10.7 | 13.6 | 2.1 | 2.4 | 38.8 | 40.5 | |
| Netherlands | 9.4 | 10.8 | 5.6 | 7.4 | 7.6 | 1.4 | 0.2 | 31.5 | 40.6 | |
| New Zealand | 2.0 | 2.5 | 1.3 | 1.9 | 2.0 | 1.9 | 0.6 | 34.3 | 45.0 | |
| Nicaragua | 1.5 | 2.8 | 1.0 | 2.1 | 2.9 | 3.6 | 3.4 | 27.6 | 35.9 | |
| Niger | 2.7 | 5.2 | 2.8 | 5.1 | 7.0 | 3.0 | 3.2 | 44.6 | 44.3 | |
| Nigeria | 37.0 | 65.9 | 29.5 | 50.3 | 63.2 | 2.7 | 2.3 | 36.2 | 36.5 | |
| Norway | 2.6 | 2.9 | 1.9 | 2.3 | 2.4 | 0.9 | 0.3 | 40.5 | 46.4 | |
| Oman | 0.6 | 1.3 | 0.3 | 0.6 | 0.8 | 3.3 | 2.7 | 6.2 | 17.1 | |
| Pakistan | 45.4 | 75.3 | 29.3 | 51.7 | 71.4 | 2.8 | 3.2 | 22.7 | 28.6 | |
| Panama | 1.1 | 1.8 | 0.7 | 1.2 | 1.5 | 2.8 | 2.0 | 29.9 | 35.3 | |
| Papua New Guinea | 1.7 | 2.9 | 1.5 | 2.5 | 3.2 | 2.5 | 2.3 | 41.7 | 42.2 | |
| Paraguay | 1.7 | 3.1 | 1.1 | 2.1 | 2.8 | 3.0 | 3.0 | 26.7 | 30.0 | |
| Peru | 9.4 | 15.9 | 5.4 | 9.7 | 12.6 | 2.9 | 2.6 | 23.9 | 31.3 | |
| Philippines | 25.8 | 44.5 | 18.7 | 31.9 | 41.0 | 2.7 | 2.5 | 35.0 | 37.8 | |
| Poland | 23.3 | 26.6 | 18.5 | 19.9 | 20.3 | 0.4 | 0.2 | 45.3 | 46.4 | |
| Portugal | 6.2 | 6.8 | 4.6 | 5.1 | 5.0 | 0.5 | -0.1 | 38.7 | 44.0 | |
| Puerto Rico | 1.9 | 2.6 | 1.0 | 1.5 | 1.7 | 1.9 | 1.2 | 31.8 | 37.2 | |
| Romania | 14.0 | 15.4 | 10.9 | 10.7 | 10.6 | -0.1 | -0.1 | 45.8 | 44.5 | |
| Russian Federation | 94.7 | 101.2 | 76.0 | 77.7 | 77.0 | 0.1 | -0.1 | 49.4 | 49.2 | |
| russian i EucidiiUII | 54.1 | 101.2 | 10.0 | 11.1 | 11.0 | 0.1 | -O.T | +3.4 | 43.∠ | |



2.2 | Labor force structure

Population ages 15-64

Labor force

| | | millions | | Total millions | | | ge annual th rate % | Fen % of lab | |
|-----------------------|-------|----------|-------|-------------------|-------|-----------|------------------------|-----------------|------|
| | 1980 | 2000 | 1980 | 2000 | 2010 | 1980-2000 | 2000-2010 | 1980 | 2000 |
| Rwanda | 2.5 | 4.5 | 2.6 | 4.6 | 5.8 | 2.8 | 2.2 | 49.1 | 48.8 |
| Saudi Arabia | 5.0 | 11.2 | 2.8 | 6.8 | 9.6 | 4.5 | 3.4 | 7.6 | 16.1 |
| Senegal | 2.9 | 5.1 | 2.5 | 4.3 | 5.4 | 2.6 | 2.3 | 42.2 | 42.6 |
| Sierra Leone | 1.7 | 2.7 | 1.2 | 1.9 | 2.4 | 2.0 | 2.4 | 35.5 | 36.8 |
| Singapore | 1.6 | 2.8 | 1.1 | 2.0 | 2.2 | 2.9 | 1.1 | 34.6 | 39.1 |
| Slovak Republic | 3.2 | 3.7 | 2.5 | 3.0 | 3.0 | 0.9 | 0.2 | 45.3 | 47.8 |
| Slovenia | 1.2 | 1.4 | 1.0 | 1.0 | 1.0 | 0.3 | -0.3 | 45.8 | 46.5 |
| Somalia | 3.3 | 4.4 | 3.0 | 3.8 | 5.2 | 1.2 | 3.3 | 43.4 | 43.4 |
| South Africa | 15.2 | 26.7 | 10.3 | 17.0 | 18.4 | 2.5 | 0.8 | 35.1 | 37.8 |
| Spain | 23.5 | 27.0 | 14.0 | 17.4 | 17.6 | 1.1 | 0.1 | 28.3 | 37.2 |
| Sri Lanka | 8.9 | 13.1 | 5.4 | 8.5 | 10.1 | 2.2 | 1.7 | 26.9 | 36.6 |
| Sudan | 10.2 | 17.6 | 7.1 | 12.4 | 16.2 | 2.8 | 2.6 | 26.9 | 29.5 |
| Swaziland | 0.3 | 0.6 | 0.2 | 0.4 | 0.5 | 3.2 | 2.0 | 33.5 | 37.7 |
| Sweden | 5.3 | 5.7 | 4.2 | 4.8 | 4.6 | 0.7 | -0.3 | 43.8 | 48.0 |
| Switzerland | 4.2 | 4.8 | 3.1 | 3.9 | 3.9 | 1.2 | 0.0 | 36.7 | 40.5 |
| Syrian Arab Republic | 4.2 | 9.1 | 2.5 | 5.2 | 7.5 | 3.7 | 3.8 | 23.5 | 27.0 |
| Tajikistan | 2.1 | 3.5 | 1.5 | 2.4 | 3.3 | 2.3 | 3.0 | 46.9 | 44.9 |
| Tanzania | 9.3 | 17.7 | 9.5 | 17.3 | 21.1 | 3.0 | 2.0 | 49.8 | 49.1 |
| Thailand | 26.9 | 41.4 | 24.4 | 36.8 | 40.8 | 2.1 | 1.0 | 47.4 | 46.3 |
| Togo | 1.3 | 2.4 | 1.1 | 1.9 | 2.3 | 2.7 | 2.3 | 39.3 | 40.0 |
| Trinidad and Tobago | 0.7 | 0.9 | 0.4 | 0.6 | 0.7 | 1.6 | 1.6 | 31.4 | 34.3 |
| Tunisia | 3.5 | 6.2 | 2.2 | 3.8 | 4.8 | 2.7 | 2.4 | 28.9 | 31.7 |
| Turkey | 24.9 | 41.9 | 18.7 | 31.3 | 37.1 | 2.6 | 1.7 | 35.5 | 37.6 |
| Turkmenistan | 1.6 | 3.0 | 1.2 | 2.3 | 2.9 | 3.2 | 2.4 | 47.0 | 45.9 |
| Uganda | 6.4 | 10.7 | 6.6 | 10.9 | 14.0 | 2.5 | 2.5 | 47.9 | 47.6 |
| Ukraine | 33.4 | 33.8 | 26.4 | 25.1 | 24.4 | -0.3 | -0.3 | 50.2 | 48.9 |
| United Arab Emirates | 0.7 | 2.1 | 0.6 | 1.4 | 1.7 | 4.7 | 1.9 | 5.1 | 14.8 |
| United Kingdom | 36.1 | 39.0 | 26.9 | 29.9 | 29.7 | 0.5 | -0.1 | 38.9 | 44.1 |
| United States | 150.6 | 185.8 | 110.1 | 144.7 | 158.0 | 1.4 | 0.9 | 41.0 | 46.0 |
| Uruguay | 1.8 | 2.1 | 1.2 | 1.5 | 1.7 | 1.4 | 0.9 | 30.8 | 41.8 |
| Uzbekistan | 8.6 | 14.6 | 6.5 | 10.5 | 13.3 | 2.4 | 2.4 | 48.0 | 46.9 |
| Venezuela, RB | 8.5 | 14.9 | 5.2 | 9.9 | 12.8 | 3.3 | 2.6 | 26.7 | 34.8 |
| Vietnam | 28.6 | 48.1 | 25.6 | 40.4 | 48.0 | 2.3 | 1.7 | 48.1 | 48.9 |
| West Bank and Gaza | | | | | | | | | |
| Yemen, Rep. | 4.0 | 8.3 | 2.5 | 5.5 | 7.7 | 4.0 | 3.3 | 32.5 | 28.1 |
| Yugoslavia, Fed. Rep. | 6.5 | 7.1 | 4.5 | 5.1 | 5.2 | 0.6 | 0.3 | 38.7 | 42.9 |
| Zambia | 2.9 | 5.1 | 2.4 | 4.3 | 5.1 | 2.9 | 1.8 | 45.4 | 44.8 |
| Zimbabwe | 3.5 | 6.5 | 3.2 | 5.8 | 6.6 | 3.0 | 1.2 | 44.4 | 44.5 |
| | | | | | | | | | |

| World | 2,600.9 s | 3,806.4 s | 2,036.1 s | 2,943.2 s | 3,380.2 s | 1.8 w | 1.4 w | 39.1 w | 40.6 w |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-------|-------|--------|--------|
| Low income | 894.7 | 1,443.2 | 708.7 | 1,115.1 | 1,367.6 | 2.3 | 2.0 | 37.8 | 37.8 |
| Middle income | 1,200.1 | 1,774.6 | 969.3 | 1,388.8 | 1,558.3 | 1.8 | 1.2 | 40.2 | 42.1 |
| Lower middle income | 929.9 | 1,356.8 | 785.4 | 1,100.4 | 1,223.6 | 1.7 | 1.1 | 41.9 | 43.4 |
| Upper middle income | 270.2 | 417.8 | 183.9 | 288.4 | 334.7 | 2.2 | 1.5 | 33.0 | 36.7 |
| Low & middle income | 2,094.8 | 3,217.8 | 1,678.0 | 2,503.9 | 2,926.0 | 2.0 | 1.6 | 39.2 | 40.2 |
| East Asia & Pacific | 820.4 | 1,239.7 | 719.3 | 1,051.7 | 1,170.0 | 1.9 | 1.1 | 42.5 | 44.4 |
| Europe & Central Asia | 274.2 | 318.4 | 214.1 | 238.1 | 249.0 | 0.5 | 0.4 | 46.7 | 46.3 |
| Latin America & Carib. | 201.0 | 324.9 | 129.8 | 222.1 | 269.1 | 2.7 | 1.9 | 27.8 | 34.8 |
| Middle East & N. Africa | 91.6 | 171.2 | 54.1 | 99.0 | 134.5 | 3.0 | 3.1 | 23.8 | 27.7 |
| South Asia | 510.7 | 817.4 | 388.7 | 602.6 | 739.9 | 2.2 | 2.1 | 33.8 | 33.4 |
| Sub-Saharan Africa | 197.0 | 346.3 | 172.0 | 290.5 | 363.5 | 2.6 | 2.2 | 42.0 | 42.0 |
| High income | 506.2 | 588.6 | 358.1 | 439.4 | 454.3 | 1.0 | 0.3 | 38.4 | 43.2 |
| Europe EMU | 185.1 | 204.6 | 123.4 | 141.0 | 141.2 | 0.7 | 0.0 | 36.4 | 41.3 |

Labor force structure | 2.2



About the data

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.

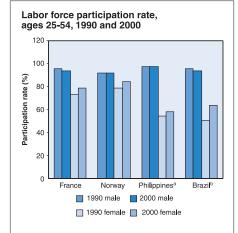
Data on the labor force are compiled by the International Labour Organization (ILO) from censuses or labor force surveys. For international comparisons the most comprehensive source is labor force surveys. Despite the ILO's efforts to encourage the use of international standards, labor force data are not fully comparable because of differences among countries, and sometimes within countries, in their scope and coverage. In some countries data on the labor force refer to people above a specific age, while in others there is no specific age provision. 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 (ILO, Yearbook of Labour Statistics 1997).

The labor force estimates in the table were calculated by World Bank staff by applying economic activity 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. The population ages 15–64 is often used to provide a rough estimate of the potential labor force. But in many developing countries children under 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 underestimate actual rates.

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.

Figure 2.2



a. Data refer to 1999 rather than 2000. b. Data refer to 1998 rather than 2000.

Source: ILO. Key Indicators of the Labour Market database (2001-02).

The analysis of labor force participation by sex shows that for economies for which information is available, women are less likely than men to participate in the labor force. This reflects whether their work is regarded as economic as it does the competing demands of household work and childbearing and childcare.

For the majority of economies, the gap between male and female labor force participation has been falling. This results from both the reduced rates for men and the rising rates for women.

Definitions

• Population ages 15-64 is the number of people who could potentially be economically active. • Total labor force comprises people who meet the ILO definition of the economically active population: all people who supply labor for the production of goods and services during a specified period. It includes both the employed and the unemployed. While national practices vary in the treatment of such groups as the armed forces and seasonal or part-time workers, the labor force generally includes the armed forces, the unemployed, and first-time job-seekers, but excludes homemakers and other unpaid caregivers and workers in the informal sector. • 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.

Data sources

The population estimates are from the World Bank's population database. The economic activity rates are from the ILO database Estimates and Projections of the Economically Active Population, 1950–2010. The ILO publishes estimates of the economically active population in its *Yearbook of Labour Statistics*.



2.3 | Employment by economic activity

| | Agriculture Male Female % of male % of female labor force labor force | | | | | Indu | stry | | | Servi | ces | |
|--------------------------|--|------------|----------|------------|----------|------------------------------|-------------------------|------------|---------------------|------------|--------|-------------------------|
| | % of | male | % of f | emale | % | Male of male oor force | Fem % of fe labor | emale | Ma % of labor | male | % of 1 | nale female force |
| | 1980-82ª | 1998-2000° | 1980-82° | 1998-2000° | 1980-82ª | 1998-2000° | 1980-82° | 1998-2000° | 1980-82° | 1998-2000° | | 1998-2000° |
| Afghanistan | 66 | | 86 | | 9 | | 12 | | 26 | | 2 | |
| Albania | | | | | | | | | | | | |
| Algeria | 27 | •• | 69 | •• | 33 | | 6 | | 40 | | 25 | |
| Angola | 67 | | 87 | | 13 | | 1 | | 20 | | 11 | |
| Argentina | •• | 1 | •• | О ь | | 34 | •• | 10 | •• | 65 | •• | 89 |
| Armenia | | | | | | | | | | | 70 | |
| Australia | 8 | 6 | 4 | 7 | 39 | 30 | 16 | 10 14 | 53 | 64 52 | 79 | 86 79 |
| Austria Azerbaijan | •• | | | | | 43 | | | | | •• | |
| Bangladesh | •• | •• | •• | •• | •• | •• | •• | •• | •• | | •• | |
| Belarus | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | |
| Belgium | •• | 3 | •• | 2 | •• | 37 | •• | 13 | •• | 60 | •• | 86 |
| Benin | 66 | | 69 | | 10 | | 4 | | 24 | | 27 | |
| Bolivia | 52 | 58 ° | 28 | 2 ° | 21 | 40 ° | 19 | 16 ° | 27 | 58 ° | 53 | 82 ° |
| Bosnia and Herzegovina | 26 | | 38 | | 45 | | 24 | | 30 | | 39 | |
| Botswana | 6 | | 3 | | 41 | | 8 | | 53 | | 89 | |
| Brazil | 34 | 26 | 20 | 19 | 30 | 27 | 13 | 10 | 36 | 47 | 67 | 71 |
| Bulgaria | | | | | | | | | | | | |
| Burkina Faso | 92 | | 93 | | 3 | | 2 | | 5 | | 5 | |
| Burundi | | | | | | | | | | | | |
| Cambodia | | | | | | | | | | | | |
| Cameroon | 65 | | 87 | | 11 | | 2 | | 24 | | 11 | |
| Canada | 7 | 5 | 3 | 2 | 37 | 32 | 16 | 11 | 56 | 63 | 81 | 87 |
| Central African Republic | 79 | | 90 | | 5 | | 1 | | 15 | | 9 | |
| Chad | 82 | | 95 | | 6 | | О ь | | | | 4 | |
| Chile | 22 | 19 | 3 | 5 | 27 | 31 | 16 | 14 | 51 | 49 | 81 | 82 |
| China | | | | | | | | | | | | |
| Hong Kong, China | 2 | 0 b | 1 | 0 b | 47 | 28 | 56 | 12 | 52 | 71 | 43 | 88 |
| Colombia | 2 | 2 | 1 | 1 | 39 | 27 | 26 | 20 | 59 | 71 | 74 | 79 |
| Congo, Dem. Rep. | 62 | | 84 | | 18 | | 4 | | 20 | | 12 | |
| Congo, Rep. | 42 | | 81 | | 20 | | 2 | | 38 | | 17 | |
| Costa Rica | 34 | 27 | 6 | 5 | 25 | 26 | 20 | 17 | 40 | 46 | 74 | 77 |
| Côte d'Ivoire | 60 | | 75 | | 10 | | 5 | | 30 | | 20 | |
| Croatia | | 15 | | 13 | | 34 | | 21 | | 51 | | 66 |
| Cuba | 30 | | 10 | | 32 | | 22 | | 39 | | 68 | |
| Czech Republic | 13 | 6 | 11 | 4 | 57 | 49 | 39 | 28 | 30 | 48 | 50 | 69 |
| Denmark | 11 | 5 | 4 | 2 | 41 | 37 | 16 | 15 | 48 | 58 | 80 | 83 |
| Dominican Republic | | | | | | | | | | | | |
| Ecuador | | 11 | | 2 | | 26 | | 14 | | 63 | | 84 |
| Egypt, Arab Rep. | 45 | 29 | 10 | 35 | 21 | 25 | 13 | 9 | 33 | 46 | 69 | 56 |
| El Salvador | 51 | 37 | 10 | 6 | 21 | 24 | 21 | 25 | 28 | 38 | 69 | 69 |
| Eritrea | 79 | | 88 | | 7 | | 2 | | 14 | | 11 | |
| Estonia | | 11 | | 7 | | 40 | | 23 | | 49 | | 70 |
| Ethiopia | | | | | | | | | | | | |
| Finland | 15 | 8 | 12 | 4 | 44 | 40 | 23 | 14 | 41 | 52 | 65 | 82 |
| France | 3 | 2 | 1 | 1 | 50 | 35 | 25 | 13 | 48 | 63 | 75 | 86 |
| Gabon | 59 | •• | 74 | | 18 | | 6 | •• | 24 | | 21 | •• |
| Gambia, The | 78 | | 93 | | 10 | | 3 | | 13 | | 5 | |
| Georgia | | | | | | | | | | | | 70 |
| Germany | | 3 | | 2 | | 46 | | 19 | | 50 | | 79 |
| Ghana | | 16 | | | 34 | | 10 | | 40 | 54 | 40 | 67 |
| Guatemala | 26 | 16 | 42 | 20 | | 29 | 18 | 12 | 40 | | 40 | 67 |
| Guinea | | •• | 97 | •• | 2 | | 1 | •• | 12 | | | |
| Guinea-Rissau | 86 81 | •• | 97 98 | •• | 3 | | 1 | •• | 12 17 | | 3 | •• |
| Guinea-Bissau Haiti | | •• | 53 | | 8 | | 8 | •• | | •• | 39 | •• |
| Haiti Honduras | 81 | 50 | | 9 | | 21 | | 25 | 11 | 30 | | 67 |
| TIUTUUTAS | | 50 | | <i>9</i> | | Z L | •• | ∠0 | •• | 30 | •• | 01 |

Employment by economic activity | 2.3



| | Agriculture Male Female % of male % of female | | | | | Indu | stry | | | Serv | ices | |
|--------------------|--|------------|----------|------------|----------|-----------------------------|----------|------------------------|---------------------|---------------|----------|---------------------------|
| | % of | | % of | | % d | Male of male or force | % of f | nale emale force | Ma % of labor | male force | % of a | male female · force |
| | 1980-82° | 1998-2000° | 1980-82° | 1998-2000° | 1980-82ª | 1998-2000° | 1980-82ª | 1998-2000° | 1980-82° | 1998-2000° | 1980-82ª | 1998-2000° |
| Hungary | 24 | 9 | 19 | 4 | 45 | 42 | 36 | 25 | 31 | 48 | 45 | 71 |
| India | | | | | | | | •• | | | | |
| Indonesia | 57 | | 54 | | 13 | | 13 | | 29 | | 33 | |
| Iran, Islamic Rep. | | | | | | | | | | | | |
| Iraq | 21 | | 62 | | 24 | | 11 | | 55 | | 28 | |
| Ireland | | 12 | | 2 | | 38 | | 15 | | 50 | | 83 |
| Israel | 8 | 3 | 4 | 1 | 39 | 35 | 16 | 13 | 52 | 61 | 79 | 86 |
| Italy | 13 | 6 | 16 | 5 | 43 | 39 | 28 | 21 | 44 | 55 | 56 | 74 |
| Jamaica | 47 | 30 | 23 | 10 | 20 | 26 | 8 | 9 | 33 | 45 | 69 | 81 |
| Japan | 9 | 5 | 13 | 6 | 40 | 38 | 28 | 22 | 51 | 57 | 58 | 73 |
| Jordan | | | | | | | | | | | | |
| Kazakhstan | | | | | | | | | | | | |
| Kenya | 23 | 20 | 25 | 16 | 24 | 23 | 9 | 10 | 53 | 57 | 65 | 75 |
| Korea, Dem. Rep. | 39 | | 52 | | 37 | | 20 | | 24 | | 28 | |
| Korea, Rep. | 31 | 10 | 39 | 13 | 32 | 34 | 24 | 19 | 37 | 56 | 37 | 68 |
| | | | | | | | | | | | | |
| Kuwait | 2 | | | F2 | 36 | | 3 | | 62 | | 97 | |
| Kyrgyz Republic | | 52 | | 53 | | 14 | | 8 | | 34 | | 38 |
| Lao PDR | 77 | | 82 | | 7 | | 4 | | 16 | | 13 | |
| Latvia | | 17 | | 14 | | 35 | | 18 | | 49 | | 69 |
| Lebanon | 13 | | 20 | | 29 | | 21 | | 58 | | 59 | |
| Lesotho | 26 | | 64 | | 52 | | 5 | | 22 | | 31 | |
| Liberia | 69 | | 89 | | 9 | | 1 | | 22 | | 10 | |
| Libya | 16 | | 63 | | 29 | | 3 | | 55 | | 34 | |
| Lithuania | | 24 | | | | 33 | | | | 43 | | |
| Macedonia, FYR | | | | | | | | | | | | |
| Madagascar | 73 | 77 | 93 | 76 | 9 | 6 | 2 | 4 | 19 | 16 | 5 | 20 |
| Malawi | | | | | | | | | | | | |
| Malaysia | 34 | 21 | 44 | 13 | 26 | 33 | 20 | 29 | 40 | 46 | 36 | 58 |
| Mali | 86 | | 92 | | 2 | | 1 | | 12 | | 7 | |
| Mauritania | 65 | | 79 | | 11 | | 2 | | 25 | | 19 | |
| Mauritius | 29 | | 30 | | 19 | | 40 | | 47 | | 31 | |
| Mexico | | 27 | | 9 | | 27 | | 21 | | 45 | | 69 |
| Moldova | | | | | | | | | | | | |
| | •• | •• | •• | •• | | | •• | •• | •• | | •• | •• |
| Mongolia | | | | | | | | | | | | |
| Morocco | | 6 | | 6 | | 32 | | 40 | | 63 | | 54 |
| Mozambique | 72 | | 97 | | 14 | | 1 | •• | 14 | | 2 | |
| Myanmar | | | | | | | | | | | | |
| Namibia | 52 | | 42 | | 22 | | 10 | | 27 | | 47 | |
| Nepal | | | | | | | | | | | | |
| Netherlands | 7 | 4 | 3 | 2 | 39 | 31 | 13 | 9 | 54 | 63 | 84 | 84 |
| New Zealand | | 11 | | 6 | | 32 | | 12 | | 56 | | 81 |
| Nicaragua | | | | | | | | | | | | |
| Niger | 7 | | 6 | | 69 | | 29 | | 25 | | 66 | |
| Nigeria | | | | | | | | | | | | |
| Norway | 10 | 6 | 6 | 2 | 41 | 33 | 13 | 9 | 49 | 61 | 81 | 88 |
| Oman | 52 | | 24 | | 21 | | 33 | | 27 | | 43 | |
| Pakistan | | | | | | | | | | | | |
| Panama | 37 | 25 | 6 | 2 | 21 | 22 | 12 | 10 | 39 | 52 | 81 | 88 |
| Papua New Guinea | 76 | | 92 | | 8 | | 2 | | 16 | | 6 | |
| Paraguay | 2 | | 0 b | | 35 | | 13 | | 63 | | 86 | |
| Peru | | 8 | | 3 | | 25 | | 11 | | 67 | | 86 |
| Philippines | 60 | 47 | 37 | 27 | 16 | 18 | 15 | 13 | 25 | 36 | 48 | 61 |
| Poland | | 19 | | 19 | | 41 | | 21 | | 39 | | 60 |
| | | | 35 | 19 | 44 | 44 | | | | | | |
| Portugal | 22 | 11 | | | | | 25 | 24 | 34 | 45 | 40 | 62 |
| Puerto Rico | 8 | 3 | О ь | 0 b | 27 | 28 | 24 | 14 | 65 | 69 | 75 | 85 |
| Romania | 22 | 39 | 39 | 45 | 52 | 33 | 34 | 22 | 26 | 29 | 27 | 33 |
| Russian Federation | 19 | 15 | 13 | 8 | 50 | 36 | 37 | 23 | 31 | 49 | 50 | 69 |

2.3 | Employment by economic activity

| | Agriculture Male Female | | | | Industry | | | | Services | | | |
|-------------------------|--------------------------------|---------------|----------|----------------|----------|-----------------------------|------------------------|----------------|-----------------------|---------------|------------|---------------------------|
| | % of labor | male force | % of f | emale force | % o | Male of male or force | Fen % of f labor | emale force | Ma % of i labor | male force | % of labor | male female · force |
| | 1980-82ª | 1998-2000° | 1980-82ª | 1998-2000° | 1980-82° | 1998-2000° | 1980-82° | 1998-2000° | | 1998-2000° | 1980-82ª | 1998-2000° |
| Rwanda | 88 | | 98 | | 5 | | 1 | | 7 | | 1 | |
| Saudi Arabia | 45 | | 25 | | 17 | | 5 | | 39 | | 70 | |
| Senegal | 74 | | 90 | | 9 | | 2 | | 17 | | 8 | |
| Sierra Leone | 63 | | 82 | | 20 | | 4 | | 17 | | 14 | |
| Singapore | 2 | О ь | 1 | О ь | 33 | 33 | 40 | 23 | 65 | 67 | 59 | 77 |
| Slovak Republic | | 10 | | 5 | | 49 | | 26 | | 42 | | 69 |
| Slovenia | | 11 | | 11 | | 46 | | 28 | | 42 | | 61 |
| Somalia | 69 | | 90 | | 12 | | 2 | | 19 | | 8 | |
| South Africa | | | | | | | | | | | | |
| Spain | 20 | 9 | 18 | 5 | 42 | 40 | 21 | 14 | 39 | 51 | 60 | 81 |
| Sri Lanka | 44 | 38 | 51 | 49 | 19 | 23 | 18 | 22 | 30 | 37 | 28 | 27 |
| Sudan | 66 | | 88 | | 9 | | 4 | | 24 | | 8 | |
| Swaziland | 40 | | 38 | | 29 | | 14 | | 30 | | 48 | |
| Sweden | 8 | 4 | 3 | 1 | 45 | 38 | 16 | 12 | 47 | 59 | 81 | 87 |
| | | | | | | | | | | | | |
| Switzerland | 8 | 5 | 5 | 4 | 47 | 36 | 23 | 13 | 46 | 59 | 72 | 83 |
| Syrian Arab Republic | •• | | •• | ** | •• | •• | | ** | •• | •• | | |
| Tajikistan | | | | | | | | | | | | |
| Tanzania | | | | | | | | | | | | |
| Thailand | 68 | 50 | 74 | 47 | 13 | 20 | 8 | 17 | 20 | 31 | 18 | 36 |
| Togo | 70 | | 67 | | 12 | | 7 | | 19 | | 26 | |
| Trinidad and Tobago | 11 | 11 | 9 | 3 | 44 | 37 | 21 | 13 | 45 | 52 | 70 | 83 |
| Tunisia | 33 | | 53 | | 30 | | 32 | | 37 | | 16 | |
| Turkey | 4 | 34 | 9 | 72 | 36 | 25 | 31 | 10 | 60 | 41 | 60 | 18 |
| Turkmenistan | | | | | | | | | | | | |
| Uganda | | | | | | | | | | | | |
| Ukraine | | | | | | | | | | | | |
| United Arab Emirates | 5 | | | | 40 | | 7 | | 55 | | 93 | |
| United Kingdom | 4 | 2 | 1 | 1 | 48 | 36 | 23 | 12 | 49 | 61 | 76 | 87 |
| United States | 5 | 4 | 2 | 1 | 39 | 32 | 19 | 12 | 56 | 64 | 80 | 86 |
| Uruguay | | 6 | | 1 | | 34 | | 14 | | 61 | | 85 |
| Uzbekistan | | | | | | | | | | | | |
| Venezuela, RB | 20 | | 2 | | 31 | | 18 | | 49 | | 79 | |
| Vietnam | | | | | | | | | | | | ··· |
| West Bank and Gaza | 22 | | 25 | | 43 | | 25 | | 36 | •• | 50 | |
| | 60 | •• | 98 | •• | 19 | •• | 1 | •• | 21 | •• | 1 | •• |
| Yemen, Rep. | | •• | | | | | | •• | | | | |
| Yugoslavia, Fed. Rep. | | | | | | | | •• | | | | •• |
| Zambia | 69 | | 85 | •• | 13 | | 3 | | 19 | •• | 13 | |
| Zimbabwe | 29 | | 50 | | 31 | | 8 | | 40 | | 42 | |
| | | | | | | | | | | | | |
| World | W | W | w | W | W | W | W | W | W | W | W | W |
| Low income | | | | | | | | | | | | |
| Middle income | | | | | | | | | | | | |
| Lower middle income | | | | | | | | | | | | |
| Upper middle income | | 22 | | 21 | | 31 | | 16 | | 48 | | 64 |
| Low & middle income | | | | | | | | | | | | |
| East Asia & Pacific | | | | | | | | | | | | |
| Europe & Central Asia | | 21 | | 21 | | 35 | | 21 | | 44 | | 58 |
| Latin America & Carib. | | 20 | | 11 | | 28 | | 14 | | 52 | | 75 |
| Middle East & N. Africa | | | | | | | | | | | | |
| South Asia | | | | | | | | | | | •• | •• |
| Sub-Saharan Africa | •• | | | •• | •• | •• | •• | | •• | •• | •• | •• |
| | 7 | | | | | | | 15 | 51 | | 72 | |
| High income | | 4 | 6 | 2 | 42 | 36 | 22 | 15 | 51 | 60 | 72 | 82 |
| Europe EMU | | 4 | | 2 | | 41 | | 17 | | 55 | | 80 |

a. Data are for the most recent year available. b. Less than 0.5. c. Break in series between 1980 and 1990.

Employment by economic activity | 2.3



About the data

The International Labour Organization (ILO) classifies economic activity on the basis of the International Standard Industrial Classification (ISIC) of All Economic Activities. 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 people who are not classifiable by economic activity.

Data on employment are drawn from labor force surveys, establishment censuses and survevs, administrative records of social insurance schemes, and official national estimates. 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, however, many differences in how countries define and measure employment status, particularly for part-time workers, students, members of the armed forces, and household or contributing family workers. When the armed forces are included, they are allocated to the service sector, causing that sector to be somewhat overstated in comparison with economies where they are excluded. Where data are obtained from establishment surveys, they cover only employees; thus self-employed and contributing family workers are excluded. In such cases the employment share of the agricultural sector is severely underreported. Countries also take very 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 (ILO, Yearbook of Labour Statistics 1996, p. 64).

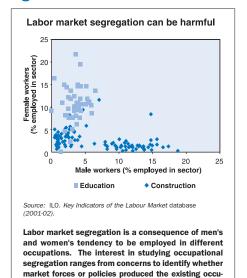
The ILO's Yearbook of Labour Statistics and Key Indicators of the Labour Market database report data by major divisions of the ISIC revision 2 or ISIC revision 3. In this table the reported divisions or categories are aggregated into three broad groups: agriculture, industry, and services. An increasing number of countries report economic activity according to the ISIC. Where data are supplied according to national classifications, however, industry definitions and descriptions may differ. In addition, classification into broad groups may obscure fundamental differences in countries' industrial patterns.

The distribution of economic activity by gender reveals some interesting patterns. Agriculture accounts for the largest share of female employment in much of Africa and Asia. Services account for much of the increase in women's labor force participation in North Africa, Latin America and the Caribbean, and high-income economies. Worldwide, women are underrepresented in 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. 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 often dominate, as has been the recent experience in many countries.

There are several explanations for the rising importance of service jobs for women. Many service jobs— such 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 not clear whether this is a cause or an effect.

Figure 2.3



pational structure, to the practical issues of advancing the equality of women and men in employment.

Definitions

· Agriculture includes hunting, forestry, and fishing, corresponding to division 1 (ISIC revision 2) or tabulation categories A and B (ISIC revision 3). • Industry includes mining and quarrying (including oil production), manufacturing, construction, electricity, gas, and water, corresponding to divisions 2-5 (ISIC revision 2) or tabulation categories C-F (ISIC revision 3). • Services 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—corresponding to divisions 6-9 (ISIC revision 2) or tabulation categories G-P (ISIC revision 3).

Data sources

The employment data are from the ILO database Key Indicators of the Labour Market (2001-02 issue).



2.4 | Unemployment

| | | оттрі | _ | oloyment | | | ur | Long term nemploymer | nt | | nployment b cational att | |
|--------------------------|------|------------------------------------|---------|---|------|--|------|---------------------------------------|---------------------------------------|-------------------------------------|--|--------------------------------|
| | % of | ale male force 1998-2000° | % of | male female r force 1998-2000° | % o | otal if total or force 1998-2000° | Male | total unemplo Female 1998-2000° | oyment Total 1998-2000 ° | % of Primary 1997-99 * | total unemplo Secondary 1997-99° | oyment Tertiary 1997-99° |
| Afghanistan | | | | | | | | | | | | |
| Albania | | 15.8 | | 20.9 | 5.6 | 18.0 | | | | | | |
| Algeria | | | | | | | | | | | | |
| Angola | | | | | | | | | | | | |
| Argentina | | 11.9 | | 14.3 | 2.3 | 12.8 | | | | | | |
| Armenia | | 4.9 | | 15.0 | | 9.3 | | | | | | |
| Australia | 5.0 | 7.2 | 7.4 | 6.7 | 5.9 | 6.4 | 30.6 | 24.0 | 27.9 | 53.3 | 32.1 | 11.8 |
| Austria | 1.6 | 4.7 | 2.3 | 4.8 | 1.9 | 4.7 | 28.1 | 36.1 | 31.7 | 35.2 | 60.3 | 4.6 |
| Azerbaijan | | 1.0 | | 1.4 | | 1.2 | | | | 6.7 | 30.8 | 62.5 |
| Bangladesh | | | | | | | | | | | | |
| Belarus | | | | | | 2.0 | | | | 7.8 | 15.5 | 76.7 |
| Belgium | 5.5 | 5.8 | 15.0 | 8.7 | 9.1 | 7.0 | 60.1 | 60.9 | 60.5 | 53.1 | 33.4 | 13.6 |
| Benin | | | | | | | | | | | | |
| Bolivia | | | | | | | | | | | | |
| Bosnia and Herzegovina | | | | | | | | | | | | |
| Botswana | | | | | | | | | | •• | | |
| Brazil | 2.8 | 7.2 | 2.8 | 11.6 | 2.8 | 9.6 | | | | | | |
| Bulgaria | •• | 16.7 | | 15.9 | | 16.3 | 58.6 | 58.7 | 58.7 | 7.4 | 85.3 | 7.3 |
| Burkina Faso | | | | | •• | | | | •• | | | |
| Burundi | | •• | | | | •• | | •• | | •• | | |
| Cambodia Cameroon | | •• | | | •• | •• | | •• | •• | •• | •• | |
| Canada | 7.0 | 6.9 | 8.2 | 6.7 | 7.5 | 6.8 | 11.7 | 9.5 | 10.7 | 25.9 | 31.2 | 35.6 |
| Central African Republic | | | | | | | | | | | | |
| Chad | | | | | | | | | | •• | | |
| Chile | 10.6 | 7.0 | 10.0 | 7.6 | 10.4 | 9.9 | | | | 28.5 | 56.2 | 14.6 |
| China | | | | | 4.9 | 3.1 | | | | | | |
| Hong Kong, China | 3.9 | 5.1 | 3.4 | 4.0 | 3.8 | 5.0 | | | | •• | | |
| Colombia | 7.5 | 17.2 | 11.5 | 23.3 | 9.1 | 20.1 | | | | 21.3 | 57.8 | 19.1 |
| Congo, Dem. Rep. | | | | | | | | | | | | |
| Congo, Rep. | | | | | | | | | | | | |
| Costa Rica | 5.3 | 4.9 | 7.8 | 8.2 | 5.9 | 6.0 | | | | 75.1 | 12.7 | 8.1 |
| Côte d'Ivoire | | | | | | | | | | | | |
| Croatia | 3.4 | 12.8 | 8.2 | 14.5 | 5.3 | 16.1 | 56.3 | 53.6 | 60.7 | 19.5 | 69.1 | 11.4 |
| Cuba | | | | | | | | | | | | |
| Czech Republic | | 7.3 | | 10.6 | | 8.8 | 47.5 | 49.8 | 48.8 | 24.2 | 72.1 | 3.7 |
| Denmark | 6.5 | 4.5 | 7.6 | 5.9 | 7.0 | 5.4 | 20.9 | 20.1 | 20.5 | 34.6 | 47.7 | 16.7 |
| Dominican Republic | | | | | | | | | | 50.4 | 31.1 | 9.6 |
| Ecuador | | 8.4 | | 16.0 | | 11.5 | | | | | | |
| Egypt, Arab Rep. | 3.9 | 5.1 | 19.2 | 19.9 | 5.2 | 8.2 | | | | | | |
| El Salvador | | 8.2 | | 6.0 | 12.9 | 7.3 | | | | 57.1 | 23.4 | 7.5 |
| Eritrea | | | | | | | | | | | | |
| Estonia | | 13.0 | | 10.2 | | 14.8 | 45.4 | 49.1 | 47.0 | 22.5 | 54.4 | 23.1 |
| Ethiopia | 3.6 | | 9.5 | | 5.2 | | | | | 26.9 | 61.3 | 8.1 |
| Finland | 4.6 | 9.7 | 4.7 | 10.7 | 4.7 | 9.8 | 30.1 | 25.2 | 27.6 | 41.1 | 49.8 | 9.1 |
| France | 4.1 | 8.5 | 9.1 | 11.9 | 6.1 | 10.0 | 41.1 | 43.6 | 42.5 | | •• | |
| Gabon | | | | | | | | | | •• | | |
| Gambia, The | | | | | | | | | | | | |
| Georgia | | 15.3 | | 12.2 | | 13.8 | | | E4 7 | 3.9 | 32.4 | 60.8 |
| Germany | | 7.6 | | 8.6 | | 8.1 | 49.9 | 54.0 | 51.7 | 28.9 | 57.5 | 13.6 |
| Ghana | | 7.0 | 5.7 | 16.5 | | 10.0 | | 61.5 | 54.0 | | 40.5 | 21.0 |
| Greece Guatemala | 3.3 | 7.0 | 5.7 | 16.5 | 2.4 | 10.8 | 44.7 | 61.5 | 54.9 | 36.9 | 40.5 | 21.9 |
| Guinea | •• | •• | | •• | •• | •• | •• | | •• | | •• | •• |
| Guinea-Bissau | | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• | •• |
| Haiti | | | | | | | | | | | | |
| Honduras | 8.6 | 3.7 | 6.0 | 3.8 | 7.3 | 3.7 | | | | 63.2 | 22.4 | 5.8 |
| | 0.0 | 5.1 | 0.0 | 5.0 | 1.0 | 5.1 | | | | 00.2 | ~~·T | 0.0 |

Unemployment | 2.4



| | | | Unemp | oloyment | | | ur | Long term nemploymen | t | | nployment b cational att | |
|--------------------|----------|----------------------|----------|---------------------------|----------|----------------------------|--------------|-------------------------|----------------|-----------------|-----------------------------|--------------------|
| | % of | ale male force | % of | male female r force | % of | otal f total r force | % of Male | total unemplo Female | yment Total | % of Primary | total unemplo Secondary | oyment Tertiary |
| | 1980-82ª | 1998-2000° | 1980-82° | 1998-2000° | 1980-82° | 1998-2000° | 1998-2000° | 1998-2000ª | 1998-2000° | 1997-99° | 1997-99° | 1997-99° |
| Hungary | | 7.5 | | 6.3 | | 6.5 | 45.0 | 43.2 | 44.3 | 35.2 | 61.6 | 3.2 |
| India | | | | | | | | | | | | |
| Indonesia | | | | | | 6.1 | | | | 38.3 | 47.9 | 9.2 |
| Iran, Islamic Rep. | | | | | | | | | | | | |
| Iraq | | | | | | | | | | | | |
| Ireland | 11.4 | 4.8 | 8.2 | 4.6 | 10.5 | 4.7 | 44.9 | 23.4 | 36.5 | 60.7 | 20.8 | 16.1 |
| Israel | 4.1 | 8.5 | 6.0 | 8.1 | 4.8 | 8.3 | | | | 23.9 | 42.2 | 33.1 |
| Italy | 4.8 | 8.7 | 13.2 | 15.7 | 7.6 | 10.8 | 62.1 | 60.7 | 61.4 | 52.3 | 39.0 | 6.9 |
| Jamaica | 16.3 | 10.0 | 39.6 | 22.5 | 27.3 | 15.7 | 18.0 | 29.6 | 25.6 | | | |
| Japan | 2.0 | 5.0 | 2.0 | 4.5 | 2.0 | 4.8 | 30.7 | 17.1 | 25.5 | 23.3 | 51.2 | 25.6 |
| Jordan | | 11.8 | | 20.7 | | 13.2 | | | | | | |
| Kazakhstan | | | | | | 13.7 | | | | 7.2 | 52.5 | 40.3 |
| Kenya | | | | | | | | | | | | |
| Korea, Dem. Rep. | | | | | | | | | | | | |
| Korea, Rep. | 6.2 | 7.1 | 3.5 | 5.1 | 5.2 | 4.1 | 3.1 | 0.7 | 2.3 | 16.4 | 52.7 | 20.0 |
| Kuwait | | | | | | | | | | | | |
| Kyrgyz Republic | | | | | | | | | | 33.4 | 55.7 | 10.9 |
| Lao PDR | | | | | | | | | | | | |
| Latvia | | 15.5 | | 13.3 | | 8.4 | 50.5 | 52.8 | 51.5 | 20.8 | 68.1 | 8.5 |
| Lebanon | | | | | | | | | | | | |
| Lesotho | | | | | | | | | | | | |
| Liberia | | | | | | | | | | | | |
| Libya | | | | | | | | | | | | |
| Lithuania | | 17.3 | | 13.3 | | 11.1 | 23.4 | 19.2 | 21.6 | 15.4 | 56.2 | 28.5 |
| Macedonia, FYR | 15.6 | 32.5 | 32.8 | 37.5 | 22.0 | 34.5 | | | | | | |
| Madagascar | | | | | | | | | | | | |
| Malawi | | | | | | | | | | | | |
| Malaysia | | | | | | 3.0 | | | | | | |
| Mali | | | | | | | | | | | | |
| Mauritania | | | | | | | | | | | | |
| Mauritius | | | | | | | | | | 33.2 | 66.1 | |
| Mexico | | 1.8 | | 2.6 | | 2.0 | 0.4 | 1.5 | 0.8 | 15.5 | 36.0 | 37.7 |
| Moldova | | | | | | 11.1 | | | | | | |
| Mongolia | | 5.2 | | 6.3 | | 5.7 | | | | 47.9 | 24.1 | 17.3 |
| Morocco | | 20.3 | | 27.6 | | 22.0 | | | | | | |
| Mozambique | | | | | | | | | | | | |
| Myanmar | | | | | | | | | | | | |
| Namibia | | | | | | | | | | | | |
| Nepal | | 1.5 | | 0.7 | | 1.1 | | | | | | |
| Netherlands | 4.3 | 2.7 | 5.2 | 4.9 | 4.6 | 3.6 | 47.7 | 40.4 | 43.5 | 30.4 | 33.0 | 14.3 |
| New Zealand | | 6.1 | | 5.8 | | 6.0 | 20.7 | 12.6 | 17.1 | 0.5 | 38.5 | 22.6 |
| Nicaragua | | 8.8 | | 14.5 | | 13.3 | | | | 54.9 | 24.7 | 14.9 |
| Niger | | | | | | | | | | | | |
| Nigeria | | | | | | | | | | | | |
| Norway | 1.2 | 3.7 | 2.1 | 3.2 | 1.7 | 3.4 | 6.7 | 2.9 | 5.0 | 25.3 | 54.7 | 17.3 |
| Oman | | | | | | | | | | | | |
| Pakistan | 3.0 | 4.2 | 7.5 | 14.9 | 3.6 | 5.9 | | | | | | |
| Panama | 6.3 | 8.9 | 13.3 | 16.9 | 8.4 | 11.8 | | | | | | |
| Papua New Guinea | | | | | | | | | | | | |
| Paraguay | 3.8 | | 4.8 | | 4.1 | | | | | | | |
| Peru | | 7.5 | | 8.6 | | 8.0 | | | | 13.1 | 52.6 | 33.3 |
| Philippines | 3.2 | 10.3 | 7.5 | 9.9 | 4.8 | 10.1 | | | •• | | | |
| Poland | | 15.2 | | 18.5 | | 16.7 | 34.2 | 41.4 | 37.9 | 33.1 | 64.8 | 2.0 |
| Portugal | 3.3 | 2.9 | 12.2 | 4.8 | 6.7 | 3.8 | 39.5 | 42.9 | 41.2 | 73.9 | 14.9 | 5.8 |
| Puerto Rico | 19.5 | 11.9 | 12.2 | 7.8 | 17.1 | 10.1 | | | | | | |
| | | 7.4 | | 6.2 | | 10.1 | 41.0 | 48.4 | 44.0 | 21.7 | 70.6 | 6.4 |
| Romania | | | •• | 13.1 | | | | | | 21.7 | | |
| Russian Federation | •• | 13.6 | | 13.1 | •• | 11.4 | | | 11.9 | 16.8 | 41.6 | 41.6 |

2.4 | Unemployment

| | | | Unemp | loyment | | u | Long term nemploymen | t | Unemployment by level of educational attainment | | | |
|-------------------------|----------|------------------------|----------|---------------------------|----------|-----------------------------|-------------------------|-------------------------|---|--------------|---------------------------|--------------------|
| | % of | ale male r force | % of | male female r force | % о | otal f total or force | % of Male | total unemplo Female | yment Total | % of Primary | total unempl Secondary | oyment Tertiary |
| | 1980-82° | 1998-2000° | 1980-82ª | 1998-2000° | 1980-82ª | 1998-2000° | | | 1998-2000ª | 1 | 1997-99° | 1997-99° |
| Rwanda | | | | | | | | | | | | |
| Saudi Arabia | | | | | | | | | | | | |
| Senegal | | | | | | | | | | | | |
| Sierra Leone | | | | | | | | | | | | |
| Singapore | 2.9 | 4.5 | 3.4 | 4.6 | 3.0 | 4.4 | | | | 26.8 | 27.4 | 28.6 |
| Slovak Republic | | 15.9 | | 16.4 | | 18.9 | 43.2 | 49.7 | 46.1 | | 75.6 | 3.0 |
| Slovenia | | 7.5 | | 7.4 | | 7.5 | 44.3 | 36.8 | 40.7 | 28.2 | 64.8 | 7.0 |
| Somalia | | | | | | | | | | | | |
| South Africa | | 19.8 | | 27.8 | | 23.3 | | | | | | |
| Spain | 10.4 | 9.7 | 12.8 | 20.5 | 11.1 | 14.1 | 39.5 | 52.4 | 46.8 | 52.3 | 19.1 | 21.5 |
| Sri Lanka | | 5.9 | | 11.0 | | 7.7 | | | | 49.8 | | 50.2 |
| Sudan | | | | | | | | | | | | |
| Swaziland | | | | | | | | | •• | | | |
| Sweden | 1.9 | 7.4 | 2.6 | 6.7 | 2.2 | 5.1 | 33.3 | 26.1 | 30.1 | 32.0 | 50.6 | 15.8 |
| Switzerland | 0.2 | 2.3 | 0.3 | 3.1 | 0.2 | 2.7 | 27.5 | 29.1 | 28.3 | | | |
| Syrian Arab Republic | 3.8 | | 3.8 | | 3.9 | | | | | | | |
| Tajikistan | | | | | | | | | | 10.6 | 83.2 | 6.3 |
| Tanzania | | | | | | | | | | | | |
| Thailand | 1.0 | 3.0 | 0.7 | 3.0 | 0.8 | 2.4 | | | | 71.7 | 12.3 | 12.9 |
| Togo | | | | | | | | | | | | |
| Trinidad and Tobago | 8.0 | 10.9 | 14.0 | 16.8 | 10.0 | 13.1 | 19.9 | 42.3 | 31.0 | 38.2 | 60.7 | 0.8 |
| Tunisia | | | | | | | | | | | 33.7 | 4.1 |
| Turkey | 9.0 | 7.6 | 23.0 | 6.6 | 10.9 | 8.3 | 29.8 | 44.1 | 33.7 | | | |
| Turkmenistan | | | | | | | | | | | | |
| Uganda | | | | | | | | | | | | |
| Ukraine | | 12.2 | | 11.5 | | 11.9 | | | | 9.4 | 27.2 | 63.4 |
| United Arab Emirates | | | | | | | | | | | | |
| United Kingdom | 8.3 | 6.7 | 4.8 | 5.1 | 6.8 | 5.3 | 34.8 | 21.6 | 29.8 | 9.3 | 43.4 | 12.1 |
| United States | 6.9 | 3.7 | 7.4 | 4.6 | 7.1 | 4.1 | 6.7 | 5.3 | 6.0 | 22.2 | 35.6 | 42.1 |
| Uruguay | | 8.7 | | 14.6 | | 11.3 | | | | | | |
| Uzbekistan | | | | | | | | | | | | |
| Venezuela, RB | | | | | 5.9 | 14.9 | | | | | | |
| Vietnam | | | | | | | | | | | | |
| West Bank and Gaza | | | | | | 14.1 | | | | | | |
| Yemen, Rep. | | | | | | | | | | | | |
| Yugoslavia, Fed. Rep. | | | | | | | | | | | | |
| Zambia | 32.7 | | 59.0 | | 42.2 | | | | | | | |
| Zimbabwe | | 7.3 | | 4.6 | | 6.0 | | | | | | |
| World | w | w | W | w | W | W | w | w | w | w | W | w |
| Low income | | | | | | | | | | | | |
| | | •• | | | | | •• | | •• | •• | | •• |
| Middle income | | •• | | | 4.8 | 4.9 | •• | | •• | •• | | |
| Lower middle income | •• | 7.0 | •• | | 4.9 | 4.3 | •• | | •• | •• | | |
| Upper middle income | •• | 7.0 | •• | 8.9 | •• | 9.0 | •• | •• | •• | | | •• |
| Low & middle income | •• | •• | •• | ** | 4.7 | 2 7 | •• | •• | •• | •• | | •• |
| East Asia & Pacific | | 11.2 | | | 4.7 | 3.7 | •• | | 07.1 | 17.6 | 47.2 | 24.0 |
| Europe & Central Asia | | 11.3 | | 11.1 | | 11.1 | •• | | 27.1 | 17.6 | 47.3 | 34.8 |
| Latin America & Carib. | | 7.2 | | 10.5 | | 9.2 | •• | •• | •• | | | •• |
| Middle East & N. Africa | •• | | •• | •• | | •• | | •• | | •• | | •• |
| South Asia | •• | •• | •• | •• | | | | •• | | | | |
| Sub-Saharan Africa | | | | | | | | | | | | |
| High income | 5.5 | 5.4 | 7.0 | 6.7 | 6.0 | 6.2 | 28.4 | 25.6 | 27.3 | 27.3 | 41.2 | 27.4 |
| Europe EMU | 5.5 | 7.9 | 10.8 | 11.6 | 7.1 | 9.8 | 48.5 | 50.9 | 49.8 | 42.3 | 42.9 | 12.9 |

Unemployment | 2.4



About the data

Unemployment and total employment in a country 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.

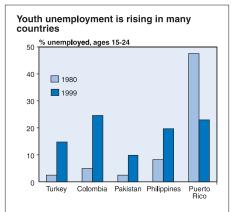
Data on unemployment are drawn from labor force sample surveys and general household sample surveys, social insurance statistics, employment office statistics, and official estimates, which are usually based on information drawn from one or more of the above sources. Labor force surveys generally yield the most comprehensive data because they include groups—particularly people seeking work for the first time—not covered in other unemployment statistics. 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.

In contrast, the quality and completeness of data obtained from employment offices and social insurance programs vary widely. Where employment offices work closely with social insurance schemes, and registration with such offices is a prerequisite for receipt of unemployment benefits, the two sets of unemployment estimates tend to be comparable. Where registration is voluntary, and where employment offices function only in more populous areas, employment office statistics do not give a reliable indication of unemployment. Most commonly excluded from both these sources are discouraged workers who have given up their job search because they believe that no employment opportunities exist or do not register as unemployed after their benefits have been exhausted. Thus measured unemployment may be higher in economies that offer more or longer unemployment benefits.

Long-term unemployment is measured in terms of duration, that is, the length of time that an unemployed person has been without work and looking for a job. The underlying assumption is that shorter periods of joblessness are of less concern, especially when the unemployed are covered by unemployment benefits or similar forms of welfare support. The length of time a person has been unemployed is difficult to measure, because the ability to recall the length of that time diminishes as the period of joblessness extends. Women's long-term unemployment is likely to be lower in countries where women constitute a large share of the unpaid family workforce. Such women 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.

No data are given in the table for economies for which unemployment data are not consistently available or are deemed unreliable.

Figure 2.4



Source: ILO. Key Indicators of the Labour Market database

The youth unemployment rate refers to the share of the labor force ages 15-24 who are unemployed. Youth unemployment is generally viewed as an important policy issue for many economies. Low unemployment among youth does not necessarily imply a high level of school enrollment, it could indicate the difficulties young people have in finding a job.

Definitions

• Unemployment refers to the share of the labor force without work but available for and seeking employment. Definitions of labor force and unemployment 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 level of 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 United Nations Educational, Cultural, and Scientific Organization's (UNESCO) International Standard Classification of Education.

Data sources

The unemployment data are from the ILO database Key Indicators of the Labour Market (2001-02 issue).



2.5 | Wages and productivity

| 2.0 | Average hours | | | | | ural wage | Laha | * - 00* | Value added | | |
|--------------------------|---------------|----------|------------------|-----------------------------|----------|-----------------------------|--------------|-------------------------------|-----------------|----------------------------|--|
| | | per week | William | um wage | Agricuit | urai wage | per v | r cost vorker facturing | per v | vorker Ifacturing | |
| | 1980-84 | 1995-99° | \$ po 1980-84 | er year 1995-99 ° | \$ pe | er year 1995-99 ° | \$ pe | r year 1995-99 ª | \$ pe | r year 1995-99 ° | |
| Afghanistan | | | | | | | | | | | |
| Albania | | | | | | | | | | | |
| Algeria | | | | 1,340 | | | 6,242 | 2,638 | 11,306 | | |
| Angola | | | | | | | | | | | |
| Argentina | 41 | 40 | | 2,400 | | | 6,768 | 7,338 | 33,694 | 37,480 | |
| Armenia | | | | | | | | | | | |
| Australia | 37 | 39 | | 12,712 | 11,212 | 15,124 | 14,749 | 26,087 | 27,801 | 57,857 | |
| Austria | 33 | 32 | | b | | | 11,949 | 28,342 | 20,956 | 53,061 | |
| Azerbaijan | | | | | | | | | | | |
| Bangladesh | | 52 | | 492 | 192 | 360 | 556 | 671 | 1,820 | 1,711 | |
| Belarus | | | | | 1,641 | 410 | 2,233 | 754 | | | |
| Belgium | | 38 | 7,661 | 15,882 | 6,399 | | 12,805 | 24,132 | 25,579 | 58,678 | |
| Benin | | | | | | | | | | | |
| Bolivia | | 46 | | 529 | | | 4,432 | 2,343 | 21,519 | 26,282 | |
| Bosnia and Herzegovina | | | | | | | | | | | |
| Botswana | 45 | | 894 | 961 | 650 | 1,223 | 3,250 | 2,884 | 7,791 | | |
| Brazil | | | 1,690 | 1,308 | | | 10,080 | 14,134 | 43,232 | 61,595 | |
| Bulgaria | | | | 573 | | 1,372 | 2,485 | 1,179 | | | |
| Burkina Faso | •• | •• | 695 | 585 | | | 3,282 | •• | 15,886 | | |
| Burundi | | •• | | | •• | | | •• | •• | •• | |
| Cambodia | •• | •• | | | •• | | | | •• | •• | |
| Cameroon | | | | | | | | | | | |
| Canada | 38 | 38 | 4,974 | 7,897 | 20,429 | 30,625 | 17,710 | 28,424 | 36,903 | 60,712 | |
| Central African Republic | •• | | | •• | | •• | | •• | | | |
| Chad Chile | 43 | 45 | 663 | 1 701 | •• | •• | 6 224 | E 022 | 32.905 | 22.077 | |
| China | | | | 1,781 | 349 | 325 | 6,234 472 | <i>5,822</i> 729 | 32,805 3,061 | 32,977 2,885 | |
| Hong Kong, China | 48 | 46 | •• | •• | | | 4,127 | 10,353 | 7,886 | 32,611 | |
| Colombia | | | •• | 1,128 | •• | •• | 2,988 | 2,507 | 15,096 | 17,061 | |
| Congo, Dem. Rep. | | | | | | | | | | | |
| Congo, Rep. | | | | | | | | | | ··· | |
| Costa Rica | | 47 | 1,042 | 1,638 | 982 | 1,697 | 2,433 | 2,829 | 7,185 | 7,184 | |
| Côte d'Ivoire | | | 1,246 | 871 | | | 5,132 | 9,995 | 16,158 | 7,101 | |
| Croatia | | | | | | | | | | | |
| Cuba | | | | | | | | | | | |
| Czech Republic | 43 | 43 | | 942 | 2,277 | 3,090 | 2,306 | 3,815 | 5,782 | 5,094 | |
| Denmark | | 37 | 9,170 | 19,933 | | | 16,169 | 29,235 | 27,919 | 49,273 | |
| Dominican Republic | 44 | 44 | | 1,439 | | | 2,191 | 1,806 | 8,603 | | |
| Ecuador | | | 1,637 | 492 | | | 5,065 | 3,738 | 12,197 | 9,747 | |
| Egypt, Arab Rep. | 58 | | 343 | 415 | | | 2,210 | 1,863 | 3,691 | 5,976 | |
| El Salvador | | | | 790 | | | 3,654 | | 14,423 | | |
| Eritrea | | | | | | | | | | | |
| Estonia | | | | | | | | | | | |
| Ethiopia | | | | | | | | 1,596 | | 7,094 | |
| Finland | | 38 | | b | | | 11,522 | 26,615 | 25,945 | 55,037 | |
| France | 40 | 39 | 6,053 | 12,072 | | | 18,488 | | 26,751 | 61,019 | |
| Gabon | | | | | | | | | | | |
| Gambia, The | | | | | | | | | | | |
| Georgia | | | | | | | | | | | |
| Germany | 41 | 40 | | b | | | 15,708 | 33,226 | 34,945 | 79,616 | |
| Ghana | | | | | 1,470 | | 2,306 | | 12,130 | | |
| Greece | | 41 | •• | 6,057 | | | 6,461 | 12,296 | 14,561 | 30,429 | |
| Guatemala | | | •• | 459 | | | 2,605 | 1,802 | 11,144 | 9,235 | |
| Guinea | 40 | | | | | | | | | | |
| Guinea-Bissau | 48 | | | | | | | | | | |
| Haiti | | | | | | | | | | | |
| Honduras | | 44 | | | 1,623 | | 2,949 | 2,658 | 7,458 | 7,427 | |

Wages and productivity | 2.5



| | Average hours worked per week | | Minimu | um wage | Agricultu | ral wage | per w | r cost vorker facturing | Value added per worker in manufacturing | | |
|--------------------|----------------------------------|----------|-----------------------|----------------------------|-----------|--------------------------|-----------------|-------------------------------|---|----------------------------|--|
| | 1980-84 | 1995-99° | \$ pe | r year 1995-99 * | \$ per | year 1995-99 ª | \$ per | r year 1995-99 * | \$ per | r year 1995-99 ª | |
| Hungary | 35 | 33 | 1,186 | 1,132 | 1,186 | 2,676 | 1,410 | 3,755 | 4,307 | 10,918 | |
| India | 46 | | | 408 | 205 | 245 | 1,035 | 1,192 | 2,108 | 3,118 | |
| Indonesia | 40 | 43 | | 241 | | | 898 | 3,054 | 3,807 | 5,139 | |
| Iran, Islamic Rep. | | | | | | | 9,737 | 30,562 | 17,679 | 89,787 | |
| Iraq | | | | | | | 4,624 | 13,288 | 13,599 | 34,316 | |
| Ireland | 41 | 41 | 5,556 | 12,087 | | | 10,190 | 22,681 | 26,510 | 86,036 | |
| Israel | 36 | 36 | | 5,861 | 4,582 | 7,906 | 13,541 | 21,150 | 23,459 | 35,526 | |
| Italy | •• | 32 | | b | | | 9,955 | 34,859 | 24,580 | 50,760 | |
| Jamaica | •• | 39 | 782 | 692 | | | 5,218 | 3,655 | 12,056 | 11,091 | |
| Japan | 47 | 47 | 3,920 _b | 12,265 | | | 12,306 | 31,687 | 34,456 | 92,582 | |
| Jordan | •• | 50 | D | В | | | 4,643 | 2,082 | 16,337 | 11,906 | |
| Kazakhstan | | | | | | | 4.040 | | | 4.400 | |
| Kenya | 41 | 39 | | 551 | 508 | 568 | 1,043 | 810 | 2,345 | 1,489 | |
| Korea, Dem. Rep. | 52 | 48 | | 3,903 | •• | | 2.152 | 10,743 | 11 617 | 40,916 | |
| Korea, Rep. Kuwait | | | •• | 3,903 8,244 | •• | •• | 3,153 10,281 | , | 11,617 30,341 | | |
| Kyrgyz Republic | •• | •• | •• | 65 | 1,695 | 168 | 2,287 | 687 | | •• | |
| Lao PDR | | | •• | | 1,033 | | 2,201 | | | ••• | |
| Latvia | | | | | | | | 366 | | | |
| Lebanon | | | ··· | ··· | | ··· | | | | ··· | |
| Lesotho | | 45 | | | | ··· | 1,442 | | 6,047 | ··· | |
| Liberia | | | ··· | | | ··· | -, | | | ··· | |
| Libya | | | | | | | 8,648 | | 21,119 | | |
| Lithuania | | | | | | | | | | | |
| Macedonia, FYR | | | | | | | | | | | |
| Madagascar | | 40 | | | | | 1,575 | | 3,542 | | |
| Malawi | | | | | | | | | | | |
| Malaysia | | | | b | 1,435 | | 2,519 | 3,429 | 8,454 | 12,661 | |
| Mali | | | 321 | 459 | | | 2,983 | | 10,477 | | |
| Mauritania | | | | | | | | | | | |
| Mauritius | | | | | | | 1,465 | 1,973 | 2,969 | 4,217 | |
| Mexico | 43 | 45 | 1,343 | 768 | 1,031 | 908 | 3,772 | 7,607 | 17,448 | 25,931 | |
| Moldova | •• | | | | | | | | | | |
| Mongolia | | | | | | | | | | | |
| Morocco | •• | | | 1,672 | | | 2,583 | 3,391 | 6,328 | 9,089 | |
| Mozambique | •• | | | | | | | | | | |
| Myanmar | | | | | | | | | | | |
| Namibia | •• | | | | | | | | | | |
| Nepal | | | | 4E 470 | | | 371 | 24 226 | 1,523 | EC 004 | |
| Netherlands | 40 | 40 | 9,074 | 15,170 | •• | | 18,891 | 34,326 | 27,491 | 56,801 | |
| New Zealand | 39 | 39 | 3,309 | 9,091 | •• | | 10,605 | 18,419 | 16,835 | 32,723 | |
| Nicaragua Niger | 40 | 44 | •• | | •• | •• | 4,074 | •• | 22,477 | •• | |
| Nigeria | | •• | •• | 300 | •• | | 4,812 | •• | 20,000 | •• | |
| Norway | 35 | 35 | •• | 500 b | | | 14,935 | 38,415 | 24,905 | 51,510 | |
| Oman | | | •• | | •• | | 14,555 | 3,099 | 24,303 | 61,422 | |
| Pakistan | 48 | | | 600 | 427 | 416 | 1,264 | | 6,214 | 01,422 | |
| Panama | | | | | | | 4,768 | 6,351 | 15,327 | 17,320 | |
| Papua New Guinea | 44 | | | | | | 4,825 | | 13,563 | ., | |
| Paraguay | 36 | 39 | | | 1,606 | 1,210 | 2,509 | 3,241 | | 14,873 | |
| Peru | 48 | | | | | 944 | 2,988 | | 15,962 | | |
| Philippines | 47 | 43 | 915 | 1,472 | 382 | | 1,240 | 2,450 | 5,266 | 10,781 | |
| Poland | 36 | 33 | 320 | 1,584 | 1,726 | 1,301 | 1,682 | 1,714 | 6,242 | 7,637 | |
| Portugal | 39 | 40 | 1,606 | 4,086 | •• | | 3,115 | 6,237 | 7,161 | 17,273 | |
| Puerto Rico | | | | | | | | | | | |
| Romania | 34 | 34 | | 531 | 1,669 | 1,864 | 1,757 | 1,190 | •• | 3,482 | |
| Russian Federation | | | 863 | 297 | 2,417 | 659 | 2,524 | 1,528 | | | |



2.5 | Wages and productivity

| | _ | ge hours per week | Minimu | m wage | Agricultu | ural wage | Laboi per w in manu | orker | Value added per worker in manufacturing | | |
|-----------------------------|---------|----------------------|--------|--------------------------|-------------------------|----------------------------|---------------------------|--------------------------|---|--------------------------|--|
| | 1980-84 | 1995-99° | \$ pei | year 1995-99 ° | \$ pe 1980-84 | r year 1995-99 ° | \$ pei 1980-84 | year 1995-99 ° | \$ per 1980-84 | year 1995-99 ª | |
| Rwanda | | | | | | | 1,871 | | 9,835 | | |
| Saudi Arabia | | | | | | | 9,814 | | | | |
| Senegal | | | 993 | 848 | | | 2,828 | 7,754 | 6,415 | | |
| Sierra Leone | 44 | | | | | | 1,624 | | 7,807 | | |
| Singapore | 46 | 47 | | | | 4,856 | 5,576 | 21,317 | 16,442 | 40,674 | |
| Slovak Republic | 43 | 40 | | | 2,277 | 1,885 | 2,306 | 1,876 | 5,782 | 5,094 | |
| Slovenia | | | | | | | | 9,632 | | 12,536 | |
| Somalia | | | | | | | | | | | |
| South Africa | 42 | 41 | b | 888 | | 6,261 | 8,475 | 12,705 | 16,612 | | |
| Spain | 38 | 37 | 3,058 | 5,778 | | | 8,276 | 19,329 | 18,936 | 47,016 | |
| Sri Lanka | 50 | 53 | | | 198 | 264 | 447 | 604 | 2,057 | 3,405 | |
| Sudan | | | | | | | | | | | |
| Swaziland | | | | | | | | | | | |
| Sweden | 36 | 37 | | | 9,576 | 27,098 | 13,038 | 26,601 | 32,308 | 56,675 | |
| Switzerland | 44 | 42 | | b | ., | | | | | 61,848 | |
| Syrian Arab Republic | | | | | | | 2,844 | 4,338 | 9,607 | 9,918 | |
| Tajikistan | | | | | | | | .,,,,,,, | | | |
| Tanzania | | | | | | | 1,123 | | 3,339 | ••• | |
| Thailand | 50 | 47 | 749 | 1,159 | | | 2,305 | 3,868 | 11,072 | 19,946 | |
| Togo | | | | | •• | •• | , | , | , | | |
| | •• | 40 | •• | 2,974 | •• | •• | | •• | 14,008 | | |
| Trinidad and Tobago | •• | | 4 204 | | | | 2.244 | 2.500 | | | |
| Tunisia | | | 1,381 | 1,525 | 668 | 968 | 3,344 | 3,599 | 7,111 | | |
| Turkey | | 48 | 594 | 1,254 | 1,015 | 2,896 | 3,582 | 7,958 | 13,994 | 32,961 | |
| Turkmenistan | | •• | •• | •• | | •• | | •• | •• | | |
| Uganda | 43 | •• | | | | •• | 253 | •• | | | |
| Ukraine | | | •• | | | •• | | •• | •• | | |
| United Arab Emirates | | | •• | | | | 6,968 | | 20,344 | | |
| United Kingdom | 42 | 40 | | b | | •• | 11,406 | 23,843 | 24,716 | 55,060 | |
| United States | 40 | 41 | 6,006 | 8,056 | | | 19,103 | 28,907 | 47,276 | 81,353 | |
| Uruguay | 48 | 42 | 1,262 | 1,027 | 1,289 | | 4,128 | 3,738 | 13,722 | 16,028 | |
| Uzbekistan | | •• | | | | •• | | | | | |
| Venezuela | 41 | | 1,869 | 1,463 | | | 11,188 | 4,667 | 37,063 | 24,867 | |
| Vietnam | | 47 | | 134 | | 442 | | 711 | | | |
| West Bank and Gaza | | | | | | | | | | | |
| Yemen, Rep. | | | | | | | 4,492 | 1,291 | 17,935 | 5,782 | |
| Yugoslavia, FR (Serb./Mont. | | | | | | | | | | | |
| Zambia | | 45 | | | | | 3,183 | 4,292 | 11,753 | 16,615 | |
| Zimbabwe | | | | | 1.065 | | 4.097 | 3.422 | 9.625 | 11.944 | |

a. Figures in italics refer to 1990-94. b. Country has sectoral minimum wage but no minimum wage policy.

Wages and productivity | 2.5



About the data

Much of the available data on labor markets are collected through national reporting systems that depend on plant-level surveys. Even when these data are compiled and reported by international agencies such as the International Labour Organization or the United Nations Industrial Development Organization, differences in definitions, coverage, and units of account limit their comparability across countries. The indicators in this table are the result of a research project at the World Bank that has compiled results from more than 300 national and international sources in an effort to provide a set of uniform and representative labor market indicators. Nevertheless, many differences in reporting practices persist, some of which are described helow

Analyses of labor force participation, employment, and underemployment often rely on the number of hours of work per week. The indicator reported in the table is the time spent at the workplace working, preparing for work, or waiting for work to be supplied or for a machine to be fixed. It also includes the time spent at the workplace when no work is being performed but for which payment is made under a guaranteed work contract, or time spent on short periods of rest. Hours paid for but not spent at the place of work—such as paid annual and sick leave, paid holidays, paid meal breaks, and time spent in commuting between home and workplaceare not included. When this information is not available, the table reports the number of hours paid for, comprising the hours actually worked plus the hours paid for but not spent in the workplace. Data on hours worked are influenced by differences in methods of compilation and coverage as well as by national practices relating to the number of days worked and overtime, making comparisons across countries difficult.

Wages refer to remuneration in cash and in kind paid to employees at regular intervals. They exclude employers' contributions to social security and pension schemes as well as other benefits received by employees under these schemes. In some countries the national minimum wage represents a "floor," with higher minimum wages for particular occupations and skills set through collective bargaining. In those countries the agreements reached by employers associations and trade unions are extended by the government to all firms in the sector, or at least to large firms. Changes in the national minimum wage are generally associated with parallel changes in the minimum wages set through collective bargaining.

In many developing countries agricultural workers are hired on a casual or daily basis and lack any social security benefits. International comparisons of agricultural wages are subject to greater reservations than those of wages in other activities. The nature of the work carried out by different categories of agricultural workers and

the length of the workday and workweek vary considerably from one country to another. Seasonal fluctuations in agricultural wages are more important in some countries than in others. And the methods followed in different countries for estimating the monetary value of payments in kind are not uniform.

Labor cost per worker in manufacturing is sometimes used as a measure of international competitiveness. The indicator reported in the table is the ratio of total compensation to the number of workers in the manufacturing sector. Compensation includes direct wages, salaries, and other remuneration paid directly by employers plus all contributions by employers to social security programs on behalf of their employees. But there are unavoidable differences in concepts and reference periods and in reporting practices. Remuneration for time not worked, bonuses and gratuities, and housing and family allowances should be considered part of the compensation costs, along with severance and termination pay. These indirect labor costs can vary substantially from country to country, depending on the labor laws and collective bargaining agreements in force.

International competitiveness also depends on productivity, which is often measured by value added per worker in manufacturing. The indicator reported in the table is the ratio of total value added in manufacturing to the number of employees engaged in that sector. Total value added is estimated as the difference between the value of industrial output and the value of materials and supplies for production (including fuel and purchased electricity) and cost of industrial services received.

Observations on labor costs and value added per worker are from plant-level surveys covering relatively large establishments, usually employing 10 or more workers and mostly in the formal sector. In high-income countries the coverage of these surveys tends to be quite good. In developing countries there is often a substantial bias toward very large establishments in the formal sector. As a result, the data may not be strictly comparable across countries. The data are converted into U.S. dollars using the average exchange rate for each year.

The data in the table are period averages and refer to workers of both sexes.

Definitions

• Average hours worked per week refer to all workers (male and female) in nonagricultural activities or, if unavailable, in manufacturing. The data correspond to hours actually worked, to hours paid for, or to statutory hours of work in a normal workweek. • Minimum wage corresponds to the most general regime for nonagricultural activities. When rates vary across sectors, only that for manufacturing (or commerce, if the manufacturing wage is unavailable) is reported. • Agricultural wage is based on daily wages in agriculture. • Labor cost per worker in manufacturing is obtained by dividing the total payroll by the number of employees, or the number of people engaged, in manufacturing establishments. • Value added per worker in manufacturing is obtained by dividing the value added of manufacturing establishments by the number of employees, or the number of people engaged, in those establishments.

Data sources

The data in the table are drawn from Martin Rama and Raquel Artecona's "Database of Labor Market Indicators across Countries," (2001).



National poverty line

International poverty line

| | | Po | pulation belo | w the | | Po | pulation below | the | | Population | Poverty | Population | Poverty |
|---------------------------|----------------|------------|---------------|---------------|----------------|------------|----------------|---------------|---------|----------------|----------------|----------------|----------------|
| | | | poverty line | е | | | poverty line | | | below | gap at | below | gap at |
| | Survey year | Rural % | Urban % | National % | Survey year | Rural % | Urban % | National % | Survey | \$1 a day % | \$1 a day % | \$2 a day % | \$2 a day % |
| Afghanistan | | | | | yeai | | | | ı yeai | | | | |
| Albania | 1994 | 28.9 | •• | •• | 1996 | •• | 15.0 | | | •• | | •• | •• |
| Algeria | 1988 | 16.6 | 7.3 | 12.2 | 1995 | 30.3 | 14.7 | 22.6 | 1995 | <2 | <0.5 | 15.1 | 3.6 |
| Angola | 1300 | | | | 1995 | | | | 1995 | | | | |
| Argentina | 1991 | | | 25.5 | 1993 | | | 17.6 | | | | | |
| Armenia | 1001 | | | | 1000 | | | | 1996 | 7.8 | 1.7 | 34.0 | 11.3 |
| Australia | | | | | | | | | 1000 | | | | |
| Austria | | | | | | | | | | | | •• | |
| Azerbaijan | 1995 | | | 68.1 | | | | | 1995 | <2 | <0.5 | 9.6 | 2.3 |
| Bangladesh | 1991-92 | 46.0 | 23.3 | 42.7 | 1995-96 | 39.8 | 14.3 | 35.6 | 1996 | 29.1 | 5.9 | 77.8 | 31.8 |
| Belarus | 2000 | | | 41.9 | | | | | 1998 | <2 | <0.5 | <2 | <0.5 |
| Belgium | | | | | | | | | | | | | |
| Benin | 1995 | | | 33.0 | | | | | | | | | |
| Bolivia | 1993 | | 29.3 | | 1995 | 79.1 | | | 1999 | 14.4 | 5.4 | 34.3 | 14.9 |
| Bosnia and Herzegovina | | | | | | | | | | | | | |
| Botswana | | | | | | | | | 1985-86 | 33.3 | 12.5 | 61.4 | 30.7 |
| Brazil | 1990 | 32.6 | 13.1 | 17.4 | | | | | 1998 | 11.6 | 3.9 | 26.5 | 11.6 |
| Bulgaria | | | | | | | | | 1997 | <2 | <0.5 | 21.9 | 4.2 |
| Burkina Faso | | | | | | | | | 1994 | 61.2 | 25.5 | 85.8 | 50.9 |
| Burundi | 1990 | | | 36.2 | | | | | | | | | |
| Cambodia | 1993-94 | 43.1 | 24.8 | 39.0 | 1997 | 40.1 | 21.1 | 36.1 | | | | | |
| Cameroon | 1984 | 32.4 | 44.4 | 40.0 | | | | | 1996 | 33.4 | 11.8 | 64.4 | 31.2 |
| Canada | | | | | | | | | | | | | |
| Central African Republic | | | | | | | | | 1993 | 66.6 | 38.1 | 84.0 | 58.4 |
| Chad | 1995-96 | 67.0 | 63.0 | 64.0 | | | | | | | | | |
| Chile | 1996 | | | 24.6 | 1998 | | | 21.2 | 1998 | <2 | <0.5 | 8.7 | 2.3 |
| China | 1996 | 7.9 | <2 | 6.0 | 1998 | 4.6 | <2 | 4.6 | 1999 | 18.8 | 4.4 | 52.6 | 20.9 |
| Hong Kong, China | 4004 | | | | 4000 | | | | 4000 | | | | |
| Colombia Congo, Dem. Rep. | 1991 | 29.0 | 7.8 | 16.9 | 1992 | 31.2 | 8.0 | 17.7 | 1998 | 19.7 | 10.8 | 36.0 | 19.4 |
| Congo, Rep. | | | •• | •• | | | | | | •• | | •• | •• |
| Costa Rica | 1992 | 25.5 | 19.2 | 22.0 | | •• | •• | •• | 1998 | 12.6 | 6.2 | 26.0 | 12.8 |
| Côte d'Ivoire | 1993 | 20.0 | | 32.3 | 1995 | | | 36.8 | 1995 | 12.3 | 2.4 | 49.4 | 16.8 |
| Croatia | 1000 | | | | 1000 | | | | 1998 | <2 | <0.5 | <2 | <0.5 |
| Cuba | | | | | | | | | 1000 | | | | |
| Czech Republic | | | | | | | | | 1996 | <2 | <0.5 | <2 | <0.5 |
| Denmark | | | | | | | | | 1000 | | | | |
| Dominican Republic | 1989 | 27.4 | 23.3 | 24.5 | 1992 | 29.8 | 10.9 | 20.6 | 1996 | 3.2 | 0.7 | 16.0 | 5.0 |
| Ecuador | 1994 | 47.0 | 25.0 | 35.0 | | | | | 1995 | 20.2 | 5.8 | 52.3 | 21.2 |
| Egypt, Arab Rep. | 1995-96 | 23.3 | 22.5 | 22.9 | | | | | 1995 | 3.1 | <0.5 | 52.7 | 13.9 |
| El Salvador | 1992 | 55.7 | 43.1 | 48.3 | | | | | 1998 | 21.0 | 7.8 | 44.5 | 20.6 |
| Eritrea | 1993-94 | | | 53.0 | | | | | | | | | |
| Estonia | 1995 | 14.7 | 6.8 | 8.9 | | | | | 1998 | <2 | <0.5 | 5.2 | 0.8 |
| Ethiopia | | | | | | | | | 1995 | 31.3 | 8.0 | 76.4 | 32.9 |
| Finland | | | | | | | | | | | | | |
| France | | | | | | | | | | | | | |
| Gabon | | | | | | | | | | | | | |
| Gambia, The | 1992 | | | 64.0 | | | | | 1998 | 59.3 | 28.8 | 82.9 | 51.1 |
| Georgia | 1997 | 9.9 | 12.1 | 11.1 | | | | | 1996 | <2 | <0.5 | <2 | <0.5 |
| Germany | | | | | | | | | | | | | |
| Ghana | 1992 | 34.3 | 26.7 | 31.4 | | | | | 1999 | 44.8 | 17.3 | 78.5 | 40.8 |
| Greece | | | | | | | | | | | | | |
| Guatemala | 1989 | 71.9 | 33.7 | 57.9 | | | | | 1998 | 10.0 | 2.2 | 33.8 | 11.8 |
| Guinea | 1994 | | | 40.0 | | | | | | | | | |
| Guinea-Bissau | 1991 | | | 48.7 | 400= | | | | | | | | |
| Haiti | 1987 | | | 65.0 | 1995 | 66.0 | | | 4000 | | | | |
| Honduras | 1992 | 46.0 | 56.0 | 50.0 | 1993 | 51.0 | 57.0 | 53.0 | 1998 | 24.3 | 11.9 | 45.1 | 23.5 |

Poverty | 2.6



National poverty line

International poverty line

| | | | | | | | | | | | | Population | Dovorty |
|----------------------|----------------|------------|-------------------------------|---------------|----------------|------------|--------------------------------|---------------|----------------|------------------|-------------------|------------------|-------------------|
| | | Po | pulation belo poverty line | | | Po | pulation below poverty line | the | | 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 % |
| Hungary | 1989 | | | 1.6 | 1993 | | | 8.6 | 1998 | <2 | <0.5 | 7.3 | 1.7 |
| India | 1992 | 43.5 | 33.7 | 40.9 | 1994 | 36.7 | 30.5 | 35.0 | 1997 | 44.2 | 12.0 | 86.2 | 41.4 |
| Indonesia | 1996 | | | 15.7 | 1999 | | | 27.1 | 1999 | 7.7 | 1.0 | 55.3 | 16.5 |
| Iran, Islamic Rep. | | | | | | | | | | | | | |
| Iraq | | | | | | | | | | | | | |
| Ireland | | | | | | | | | | | | | |
| Israel | | | | | | | | | | | | | |
| Italy | | | | | | | | | | | | | |
| Jamaica | 1992 | | | 33.9 | 2000 | | | 18.7 | 1996 | 3.2 | 0.7 | 25.2 | 6.9 |
| Japan | | | | | | | | | | | | | |
| Jordan | 1991 | | | 15.0 | 1997 | | | 11.7 | 1997 | <2 | <0.5 | 7.4 | 1.4 |
| Kazakhstan | 1996 | 39.0 | 30.0 | 34.6 | | | | | 1996 | <2 | <0.5 | 15.3 | 3.9 |
| Kenya | 1992 | 46.4 | 29.3 | 42.0 | | | | | 1994 | 26.5 | 9.0 | 62.3 | 27.5 |
| Korea, Dem. Rep. | | | | | | | | | | | | | |
| Korea, Rep. | | | | | | | | | 1993 | <2 | <0.5 | <2 | <0.5 |
| Kuwait | | | | | | | | | | | | | |
| Kyrgyz Republic | 1993 | 48.1 | 28.7 | 40.0 | 1997 | 64.5 | 28.5 | 51.0 | | | | | |
| Lao PDR | 1993 | 53.0 | 24.0 | 46.1 | 1001 | | | | 1997 | 26.3 | 6.3 | 73.2 | 29.6 |
| Latvia | 1000 | | | | | | | | 1998 | <2 | <0.5 | 8.3 | 2.0 |
| Lebanon | | | | | | | | | 1000 | | | | 2.0 |
| Lesotho | 1993 | 53.9 | 27.8 | 49.2 | | | | | 1993 | 43.1 | 20.3 | 65.7 | 38.1 |
| Liberia | 1000 | | | | | | | | 1000 | | | | |
| Libya | | •• | •• | | | •• | •• | •• | | •• | •• | •• | •• |
| Lithuania | | •• | •• | | | | •• | •• | 1996 | <2 | <0.5 | 7.8 | 2.0 |
| Macedonia, FYR | | | | •• | | | | •• | 1990 | | | | |
| | 1993-94 | 77.0 | 47.0 | 70.0 | | | •• | | 1999 | 49.1 | 18.3 | 83.3 | 44.0 |
| Madagascar Malawi | 1990-91 | | | 54.0 | | | •• | •• | 1999 | | | | |
| Malaysia | 1990-91 | •• | •• | 15.5 | | •• | •• | •• | | •• | | •• | •• |
| Mali | 1969 | | | | | | | •• | 1994 | 72.8 | 37.4 | 90.6 | 60.5 |
| Mauritania | 1989-90 | •• | •• | 57.0 | | | •• | •• | 1995 | 28.6 | 9.1 | 68.7 | 29.6 |
| Mauritius | 1989-90 | | •• | 10.6 | | | | | 1993 | | | | |
| Mexico | 1992 | | • | 10.0 | | | | | 1998 | 15.9 | 5.2 | 37.7 | 16.0 |
| Moldova | 1988 | 26.7 | •• | 23.3 | | | •• | | 1998 | 11.3 | 3.0 | 38.4 | 14.0 |
| | 1997 | 33.1 | 38.5 | 36.3 | | | | •• | 1995 | 13.9 | 3.1 | 50.0 | 17.5 |
| Morgolia | 1990-91 | 18.0 | 7.6 | 13.1 | 1998-99 | 27.2 | 12.0 | 19.0 | 1990-91 | <2 | <0.5 | 7.5 | 1.3 |
| Morocco | 1990-91 | | | | 1990-99 | | | | 1990-91 | 37.9 | 12.0 | 7.5 | 36.8 |
| Myanmar | | | •• | | | | | | 1990 | 31.9 | 12.0 | 10.4 | 30.6 |
| Myanmar | | | •• | •• | | | | | 1002 | | 110 | EE 0 | 20. 4 |
| Namibia | 1995-96 | | | 40.0 | | •• | | | 1993 | 34.9 | 14.0 | 55.8 | 30.4 |
| Nepal | 1995-96 | 44.0 | 23.0 | 42.0 | | •• | | | 1995 | 37.7 | 9.7 | 82.5 | 37.5 |
| Netherlands | | | | •• | | | | | | •• | | | |
| New Zealand | 1000 | | | | | | | | | | •• | | |
| Nicaragua | 1993 | 76.1 | 31.9 | 50.3 | | | •• | •• | 1005 | | | | |
| Niger | 1989-93 | 66.0 | 52.0 | 63.0 | 1000.00 | | | | 1995 | 61.4 | 33.9 | 85.3 | 54.8 |
| Nigeria | 1985 | 49.5 | 31.7 | 43.0 | 1992-93 | 36.4 | 30.4 | 34.1 | 1997 | 70.2 | 34.9 | 90.8 | 59.0 |
| Norway | | | | •• | | | •• | | | •• | | •• | •• |
| Oman | | | | | | | | | 4005 | | | | |
| Pakistan | 1991 | 36.9 | 28.0 | 34.0 | | | | | 1996 | 31.0 | 6.2 | 84.7 | 35.0 |
| Panama | 1997 | 64.9 | 15.3 | 37.3 | | | | | 1998 | 14.0 | 5.9 | 29.0 | 13.8 |
| Papua New Guinea | | | | | | | | | | | | | |
| Paraguay | 1991 | 28.5 | 19.7 | 21.8 | | | | | 1998 | 19.5 | 9.8 | 49.3 | 26.3 |
| Peru | 1994 | 67.0 | 46.1 | 53.5 | 1997 | 64.7 | 40.4 | 49.0 | 1996 | 15.5 | 5.4 | 41.4 | 17.1 |
| Philippines | 1994 | 53.1 | 28.0 | 40.6 | 1997 | 50.7 | 21.5 | 36.8 | | | | | |
| Poland | 1993 | | | 23.8 | | | | | 1998 | <2 | <0.5 | <2 | <0.5 |
| Portugal | | | | | | | | | 1994 | <2 | <0.5 | <2 | <0.5 |
| Puerto Rico | | | | | | | | | | | | | |
| Romania | 1994 | 27.9 | 20.4 | 21.5 | | | | | 1994 | 2.8 | 0.8 | 27.5 | 6.9 |
| Russian Federation | 1994 | | | 30.9 | | | | | 1998 | 7.1 | 1.4 | 25.1 | 8.7 |

| | | Po | pulation belo | w the | | Poi | pulation below | the | | Population | Poverty | Population | Poverty |
|---------------------------|----------------|------------|---------------|---------------|----------------|------------|----------------|---------------|---------|----------------|----------------|----------------|----------------|
| | | | poverty line | ; | | , | poverty line | | | below | gap at | below | gap at |
| | Survey year | Rural % | Urban % | National % | Survey year | Rural % | Urban % | National % | Survey | \$1 a day % | \$1 a day % | \$2 a day % | \$2 a day % |
| Rwanda | 1993 | | | 51.2 | yeai | | | | 1983-85 | 35.7 | 7.7 | 84.6 | 36.7 |
| Saudi Arabia | 1993 | •• | | | | | | | 1902-00 | | | | |
| | 1992 | 40.4 | •• | 33.4 | | •• | •• | •• | 1995 | 26.3 | 7.0 | 67.8 | 28.2 |
| Senegal | | | | | | | •• | •• | | | | | |
| Sierra Leone | 1989 | 76.0 | 53.0 | 68.0 | | | | | 1989 | 57.0 | 39.5 | 74.5 | 51.8 |
| Singapore | | | | •• | | | | | 4000 | | | | |
| Slovak Republic | | •• | | | | | •• | | 1992 | <2 | <0.5 | <2 | <0.5 |
| Slovenia | | | | | | | •• | | 1998 | <2 | <0.5 | <2 | <0.5 |
| Somalia | | | | | | | | | | | | | |
| South Africa | | | | | | | | | 1993 | 11.5 | 1.8 | 35.8 | 13.4 |
| Spain | | | | | | | | | | | | | |
| Sri Lanka | 1990-91 | | | 20.0 | 1995-96 | | | 25.0 | 1995 | 6.6 | 1.0 | 45.4 | 13.5 |
| Sudan | | | | | | | | | | | | | |
| Swaziland | 1995 | | | 40.0 | | | | | | | | | |
| Sweden | | | | | | | | | | | | | |
| Switzerland | | | | | | | | | | | | | |
| Syrian Arab Republic | | | | | | | | | | | | | |
| Tajikistan | | | | | | | | | | | | | |
| Tanzania | 1991 | | | 51.1 | 1993 | 49.7 | 24.4 | 41.6 | 1993 | 19.9 | 4.8 | 59.7 | 23.0 |
| Thailand | 1990 | | | 18.0 | 1992 | 15.5 | 10.2 | 13.1 | 1998 | <2 | <0.5 | 28.2 | 7.1 |
| Togo | 1987-89 | | | 32.3 | | | | | | | | | |
| Trinidad and Tobago | 1992 | 20.0 | 24.0 | 21.0 | | | | | 1992 | 12.4 | 3.5 | 39.0 | 14.6 |
| Tunisia | 1985 | 29.2 | 12.0 | 19.9 | 1990 | 21.6 | 8.9 | 14.1 | 1995 | <2 | <0.5 | 10.0 | 2.3 |
| Turkey | | | | | | | | | 1994 | 2.4 | 0.5 | 18.0 | 5.0 |
| Turkmenistan | | | | | | | | | 1998 | 12.1 | 2.6 | 44.0 | 15.4 |
| Uganda | 1993 | | | 55.0 | | | | | | | | | |
| Ukraine | 1995 | | | 31.7 | | | | | 1999 | 2.9 | 0.6 | 31.0 | 8.0 |
| United Arab Emirates | | | | | | | | | | | | | |
| United Kingdom | | | | | | | | | | | | | |
| United States | | | | | | | | | | | | | |
| Uruguay | | | | | | | | | 1989 | <2 | <0.5 | 6.6 | 1.9 |
| Uzbekistan | | | | | | | | | 1993 | 3.3 | 0.5 | 26.5 | 7.3 |
| Venezuela, RB | 1989 | | | 31.3 | | | | | 1998 | 23.0 | 10.8 | 47.0 | 23.0 |
| Vietnam | 1993 | 57.2 | 25.9 | 50.9 | | | | | | | | | |
| West Bank and Gaza | | | | | | | | | | | | | |
| Yemen, Rep. | 1992 | 19.2 | 18.6 | 19.1 | | | | | 1998 | 15.7 | 4.5 | 45.2 | 15.0 |
| Yugoslavia, FR (Serb./Mor | nt.) | | | | | | | | | | | | |
| Zambia | 1991 | 88.0 | 46.0 | 68.0 | 1993 | | | 86.0 | 1998 | 63.7 | 32.7 | 87.4 | 55.4 |
| Zimbabwe | 1990-91 | 31.0 | 10.0 | 25.5 | | | | | 1990-91 | 36.0 | 9.6 | 64.2 | 29.4 |

National poverty line

Poverty 2.6



About the data

International comparisons of poverty data entail both conceptual and practical problems. Different countries have different definitions of poverty, and consistent comparisons between 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? Can we hold the real value of the poverty line constant across countries, just as we do when making comparisons over time?

Poverty measures based on an international poverty line attempt to do this. 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 not for making international poverty comparisons but for comparing aggregates from national accounts. As a result, there is no certainty that an international poverty line measures the same degree of need or deprivation across countries.

Past editions of the *World Development Indicators* used PPPs from the Penn World Tables. Because the Penn World Tables updated to 1993 are not yet available, this year's edition (like last year's) uses 1993 consumption PPP estimates produced by the World Bank. The international poverty line, set at \$1 a day in 1985 PPP terms, has been recalculated in 1993 PPP terms at about \$1.08 a day. Any revisions in the PPP of a country to incorporate better price indexes can produce dramatically different poverty lines in local currency.

Problems also exist in comparing poverty measures within countries. For example, the cost of living is typically higher in urban than in rural areas. (Food staples, for example, 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 properly reflects the difference 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.

The problems of making poverty comparisons do not end there. More issues arise in measuring household living standards. The choice between income and consumption as a welfare indicator is one issue. Income is generally more difficult to measure accurately, and consumption accords better with the idea of the standard of living than does income, which can vary over time even if the standard of living does not. But consumption data are not always available, and when they are not there is little choice but to use income. There are still other problems. Household survey questionnaires can differ widely, for example, in the number of distinct categories of consumer goods they identify. Survey quality varies, and even similar surveys may not be strictly comparable.

Comparisons across 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 consumption from own production, particularly important in underdeveloped rural economies) should be included in the measure of total consumption expenditure. Similarly, the imputed profit from 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 farm gate selling price.

Whenever possible, consumption has been used as the welfare indicator for deciding who is poor. When only household income was available, average income has been adjusted to accord with either a survey-based estimate of mean consumption (when available) or an estimate based on consumption data from national accounts. This procedure adjusts only the mean, however; nothing can be done to correct for the difference in Lorenz (income distribution) curves between consumption and income.

Empirical Lorenz curves were weighted by household size, so they are based on percentiles of population, not households. In all cases the measures of poverty have been calculated from primary data sources (tabulations or household data) rather than existing estimates. Estimation from tabulations requires an interpolation method; the method chosen was Lorenz curves with flexible functional forms, which have proved reliable in past work.

Definitions

• 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 (equivalent to \$1 and \$2 in 1985 prices, adjusted for purchasing power parity). Poverty rates are comparable across countries, but as a result of revisions in PPP exchange rates, they cannot be compared with poverty rates reported in previous editions for individual countries. • 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 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 country departments. The World Bank has prepared an annual review of poverty work in the Bank since 1993. Poverty Reduction and the World Bank: Operationalizing the World Develoment Report 2000/01 is forthcoming.



2.7 | Social indicators of poverty

| | Survey year Infant mortality rate | | | by a me trained | person | Prevale child mal | | Low mo body- ind | mass | Total fertility rate | | |
|--------------------------|-----------------------------------|---------------------|---------------------|-----------------------|------------------|----------------------|---------------------|------------------------|---------------------|-------------------------|------------------|--|
| | | per 1 | ,000 | % of birth five years | | % of cl | hildren | | | | | |
| | | live b | | the s | - | unde | | % of w | | births per | | |
| | | Poorest quintile | Richest quintile | Poorest quintile | Richest quintile | Poorest quintile | Richest quintile | Poorest quintile | Richest quintile | Poorest quintile | Richest quintile | |
| Bangladesh | 1996-97 | 96 | 57 | 2 | 30 | 60 | 28 | 64.4 | 32.6 | 3.8 | 2.2 | |
| Benin | 1996 | 119 | 63 | 34 | 98 | 37 | 19 | 21.0 | 7.0 | 7.3 | 3.8 | |
| Bolivia | 1998 | 107 | 26 | 20 | 98 | 17 | 3 | 0.5 | 2.2 | 7.4 | 2.1 | |
| Brazil | 1996 | 83 | 29 | 72 | 99 | 12 | 3 | 8.8 | 5.4 | 4.8 | 1.7 | |
| Burkina Faso | 1992-93 | 114 | 80 | 26 | 86 | 36 | 22 | 15.7 | 10.2 | 7.5 | 4.6 | |
| Cameroon | 1991 | 104 | 51 | 32 | 95 | 25 | 6 | | | 6.2 | 4.8 | |
| Central African Republic | 1994-95 | 132 | 54 | 14 | 82 | 37 | 20 | 16.3 | 11.2 | 5.1 | 4.9 | |
| Chad | 1996-97 | 80 | 89 | 3 | 47 | 50 | 29 | 27.5 | 21.0 | 7.1 | 6.2 | |
| Colombia | 1995 | 41 | 16 | 61 | 98 | 15 | 3 | 5.9 | 1.2 | 5.2 | 1.7 | |
| Comoros | 1996 | 87 | 65 | 26 | 85 | 36 | 18 | 7.4 | 8.6 | 6.4 | 3.0 | |
| Côte d'Ivoire | 1994 | 117 | 63 | 17 | 84 | 31 | 13 | 11.0 | 5.7 | 6.4 | 3.7 | |
| Dominican Republic | 1996 | 67 | 23 | 89 | 98 | 13 | 1 | 8.9 | 3.0 | 5.1 | 2.1 | |
| Egypt, Arab Rep. | 1995-96 | 110 | 32 | 21 | 86 | 17 | 8 | 2.9 | 0.4 | 4.4 | 2.7 | |
| Ghana | 1993 | 78 | 46 | 25 | 85 | 33 | 13 | 11.3 | 7.2 | 6.7 | 3.4 | |
| Guatemala | 1995 | 57 | 35 | 9 | 92 | 35 | 7 | 4.2 | 2.0 | 8.0 | 2.4 | |
| Haiti | 1994-95 | 94 | 74 | 24 | 78 | 39 | 10 | 24.9 | 9.3 | 7.0 | 2.3 | |
| India | 1992-93 | 109 | 44 | 12 | 79 | 60 | 34 | | | 4.1 | 2.1 | |
| Indonesia | 1997 | 78 | 23 | 21 | 89 | | | | | 3.3 | 2.0 | |
| Kazakhstan | 1995 | 35 | 29 | 99 | 100 | 11 | 3 | 7.9 | 3.8 | 3.2 | 1.3 | |
| Kenya | 1998 | 103 | 50 | 23 | 80 | 32 | 10 | 17.6 | 6.0 | 6.6 | 3.0 | |
| Kyrgyz Republic | 1997 | 83 | 46 | 96 | 100 | 13 | 8 | 5.6 | 3.7 | 4.6 | 2.0 | |
| Madagascar | 1997 | 119 | 58 | 30 | 89 | 45 | 32 | 24.3 | 15.1 | 8.1 | 3.4 | |
| Malawi | 1992 | 141 | 106 | 45 | 78 | 34 | 17 | 14.1 | 6.0 | 7.2 | 6.1 | |
| Mali | 1995-96 | 151 | 93 | 11 | 81 | 47 | 28 | 15.9 | 12.2 | 6.9 | 5.1 | |
| Morocco | 1993 | 80 | 35 | 5 | 78 | 17 | 2 | 6.2 | 1.8 | 6.7 | 2.3 | |
| Mozambique | 1997 | 188 | 95 | 18 | 82 | 37 | 14 | 17.2 | 4.2 | 5.2 | 4.4 | |
| Namibia | 1992 | 64 | 57 | 51 | 91 | 36 | 13 | 19.3 | 5.3 | 6.9 | 3.6 | |
| Nepal | 1996 | 96 | 64 | 3 | 34 | 53 | 28 | 25.7 | 21.4 | 6.2 | 2.9 | |
| Nicaragua | 1997-98 | 51 | 26 | 33 | 92 | 18 | 4 | 4.0 | 4.1 | 6.6 | 1.9 | |
| Niger | 1998 | 131 | 86 | 4 | 63 | 52 | 37 | 26.7 | 12.8 | 8.4 | 5.7 | |
| Nigeria | 1990 | 102 | 69 | 12 | 70 | 40 | 22 | | | 6.6 | 4.7 | |
| Pakistan | 1990-91 | 89 | 63 | 5 | 55 | 54 | 26 | •• | | 5.1 | 4.0 | |
| Paraguay | 1990-91 | 43 | 16 | 41 | 98 | 6 | 1 | | | 7.9 | 2.7 | |
| Peru | 1996 | 78 | 20 | 14 | 97 | 17 | 1 | 1.3 | 1.1 | 6.6 | 1.7 | |
| Philippines | 1998 | 49 | 21 | 21 | 92 | | | | | 6.5 | 2.1 | |
| Senegal | 1997 | 85 | 45 | 20 | 86 | | | | | 7.4 | 3.6 | |
| Tanzania - | 1996 | 87 | 65 | 27 | 81 | 40 | 18 | 12.2 | 7.1 | 7.8 | 3.9 | |
| Togo | 1998 | 84 | 66 | 25 | 91 | 32 | 12 | 13.3 | 7.9 | 7.3 | 2.9 | |
| Turkey | 1993 | 100 | 25 | 43 | 99 | 22 | 3 | 2.7 | 3.2 | 3.7 | 1.5 | |
| Uganda | 1995 | 109 | 63 | 23 | 70 | 31 | 16 | 12.7 | 5.8 | 7.5 | 5.4 | |
| Uzbekistan | 1996 | 50 | 47 | 92 | 100 | 25 | 12 | 11.4 | 5.7 | 4.4 | 2.1 | |
| Vietnam | 1997 | 43 | 17 | 49 | 99 | | | | | 3.1 | 1.6 | |
| Yemen, Rep. | 1997 | 109 | 60 | 7 | 50 | 20 | 6 | 39.0 | 13.1 | 7.3 | 4.7 | |
| Zambia | 1996 | 124 | 70 | 19 | 91 | 32 | 13 | 10.2 | 7.9 | 7.4 | 4.4 | |
| Zimbabwe | 1994 | 52 | 42 | 55 | 93 | 19 | 9 | 5.7 | 1.2 | 6.2 | 2.8 | |

Social indicators of poverty | 2.7



About the data

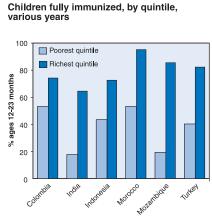
The data in the table describe the health status of individuals in different socioeconomic groups within countries. The data are from Demographic and Health Surveys conducted by Macro International with the support of the U.S. Agency for International Development. These large-scale household sample surveys, conducted periodically in about 50 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.

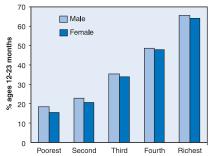
In the table socioeconomic status is defined in terms of household assets, including ownership of consumer items, characteristics of the household's dwelling, and other characteristics related to wealth. Each household asset for which information was collected was assigned a weight generated through principal component analysis. The resulting scores were standardized and then used to create break points defining wealth quintiles, expressed as quintiles of individuals.

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 household 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.

The analysis has been carried out for 45 countries, with the results issued in country reports. The table shows the estimates for the poorest and richest quintiles only; the full set of estimates for more than 20 indicators is available in the country reports (see *Data sources*).

Figure 2.7





Source: Demographic and Health Survey data

Governments in developing countries usually finance immunization against childhood diseases as part of the basic health package. The large discrepancies between poor and rich quintiles indicate the lack of access to basic health care among the poor. And while the differences in immunization rates for boys and girls across quintiles in India points to female disadvantage, the data underscore that poverty has a larger impact on access to health care than does gender.

Definitions

• Survey year is the year in which the underlying data were collected. • Infant mortality rate is the number of infants dying before reaching one year of age, per 1,000 live births. The estimates are based on births in the 10 years preceding the survey and may therefore differ from the estimates in table 2.20. • Delivery attendance by a medically trained person refers to births attended by a doctor, nurse, or nurse-midwife. • Prevalence of child malnutrition is the percentage of children whose weight is more than two standard deviations below the median reference standard for their age as established by the U.S. National Center for Health Statistics, the U.S. Centers for Disease Control and Prevention, and the World Health Organization. The data are based on a sample of children who survived to age three, four, or five years, depending on the country. • Low mother's body mass index refers to the percentage of women whose body mass index (BMI) is less than 18.5, a cutoff point indicating acute malnutrition. The BMI is the weight in kilograms divided by the square of the height in meters. • 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. The estimates are based on births during the three years preceding the survey and may therefore differ from those in table 2.17.

Data sources

Data are from an analysis of Demographic and Health Surveys by the World Bank and Macro International. Country reports are available at www.worldbank.org/poverty/health/data/index.htm.



2.8 | Distribution of income or consumption

| | Survey year | Gini Index | | | Percentage sha | are of income or | | | |
|---------------------------|----------------------|--------------|---------------|---------------|----------------|------------------|---------------|----------------|----------------|
| | | | | | | | | | |
| | | | Lowest 10% | Lowest 20% | Second 20% | Third 20% | Fourth 20% | Highest 20% | Highest 10% |
| Afghanistan | | | | | | | | | |
| Albania | | | | | | | | | |
| Algeria | 1995 ^{a,b} | 35.3 | 2.8 | 7.0 | 11.6 | 16.1 | 22.7 | 42.6 | 26.8 |
| Angola | | | | •• | | | | •• | |
| Argentina | 100C ah | | | | | | | | 2F.0 |
| Armenia | 1996 ^{a,b} | 44.4 | 2.3 | 5.5 | 9.4 | 13.9 | 20.6 | 50.6 | 35.2 |
| Australia Austria | 1994 ^{4,2} | 35.2 31.0 | 2.0 | 5.9 6.9 | 12.0 13.2 | 17.2 18.1 | 23.6 | 41.3 38.0 | 25.4 22.5 |
| Azerbaijan | 1995 ^{c,d} | 36.0 | 2.8 | 6.9 | 11.5 | 16.1 | 22.3 | 43.3 | 27.8 |
| Bangladesh | 1995-96 a,b | 33.6 | 3.9 | 8.7 | 12.0 | 15.7 | 20.8 | 42.8 | 28.6 |
| Belarus | 1998 ^{a,b} | 21.7 | 5.1 | 11.4 | 15.2 | 18.2 | 21.9 | 33.3 | 20.0 |
| Belgium | 1996 ^{c,d} | 28.7 | 3.2 | 8.3 | 13.9 | 18.0 | 22.6 | 37.3 | 23.0 |
| Benin | - | | | | | | | | |
| Bolivia | 1999 ^{a,b} | 44.7 | 1.3 | 4.0 | 9.2 | 14.8 | 22.9 | 49.1 | 32.0 |
| Bosnia and Herzegovina | | | •• | | | •• | ** | | |
| Botswana | | | | | | | | | |
| Brazil | 1998 ^{c,d} | 60.7 | 0.7 | 2.2 | 5.4 | 10.1 | 18.3 | 64.1 | 48.0 |
| Bulgaria | 1997 ^{c,d} | 26.4 | 4.5 | 10.1 | 13.9 | 17.4 | 21.9 | 36.8 | 22.8 |
| Burkina Faso | 1998 ^{a,b} | 55.1 | 2.0 | 4.6 | 7.2 | 10.8 | 17.1 | 60.4 | 46.8 |
| Burundi | 1998 ^{a,b} | 42.5 | 1.8 | 5.1 | 10.3 | 15.1 | 21.5 | 48.0 | 32.9 |
| Cambodia | 1997 ^{a,b} | 40.4 | 2.9 | 6.9 | 10.7 | 14.7 | 20.1 | 47.6 | 33.8 |
| Cameroon | 1996 ^{a,b} | 47.7 | 1.9 | 4.6 | 8.3 | 13.1 | 20.9 | 53.1 | 36.6 |
| Canada | 1994 ^{c,d} | 31.5 | 2.8 | 7.5 | 12.9 | 17.2 | 23.0 | 39.3 | 23.8 |
| Central African Republic | 1993 ^{a,b} | 61.3 | 0.7 | 2.0 | 4.9 | 9.6 | 18.5 | 65.0 | 47.7 |
| Chad | 1000 64 | | | | | | | | |
| China | 1998 ^{c,d} | 56.7 | 1.3 | 3.3 | 6.5 | 10.9 | 18.4 | 61.0 | 45.6 |
| China Hang Kang China | 1998 ^{c,d} | 40.3 52.2 | 2.4 1.8 | 5.9 4.4 | 10.2 8.0 | 15.1 12.2 | 22.2 18.3 | 46.6 57.1 | 30.4 43.5 |
| Hong Kong, China Colombia | 1996 °,d | 57.1 | 1.1 | 3.0 | 6.6 | 11.1 | 18.4 | 60.9 | 46.1 |
| Congo, Dem. Rep. | 1990 | | | | | | | | |
| Congo, Rep. | | | | | | | | | |
| Costa Rica | 1997 ^{c,d} | 45.9 | 1.7 | 4.5 | 8.9 | 14.1 | 21.6 | 51.0 | 34.6 |
| Côte d'Ivoire | 1995 a,b | 36.7 | 3.1 | 7.1 | 11.2 | 15.6 | 21.9 | 44.3 | 28.8 |
| Croatia | 1998 ^{c,d} | 29.0 | 3.7 | 8.8 | 13.3 | 17.4 | 22.6 | 38.0 | 23.3 |
| Cuba | | | | | | | | | |
| Czech Republic | 1996 ^{c,d} | 25.4 | 4.3 | 10.3 | 14.5 | 17.7 | 21.7 | 35.9 | 22.4 |
| Denmark | 1992 ^{c,d} | 24.7 | 3.6 | 9.6 | 14.9 | 18.3 | 22.7 | 34.5 | 20.5 |
| Dominican Republic | 1998 ^{c,d} | 47.4 | 2.1 | 5.1 | 8.6 | 13.0 | 20.0 | 53.3 | 37.9 |
| Ecuador | 1995 ^{a,b} | 43.7 | 2.2 | 5.4 | 9.4 | 14.2 | 21.3 | 49.7 | 33.8 |
| Egypt, Arab Rep. | 1995 ^{a,b} | 28.9 | 4.4 | 9.8 | 13.2 | 16.6 | 21.4 | 39.0 | 25.0 |
| El Salvador | 1998 ^{c,d} | 52.2 | 1.2 | 3.3 | 7.3 | 12.4 | 20.7 | 56.4 | 39.5 |
| Eritrea | | | | | | | | | |
| Estonia | 1998 ^{c,d} | 37.6 | 3.0 | 7.0 | 11.0 | 15.3 | 21.6 | 45.1 | 29.8 |
| Ethiopia | 1995 a,b | 40.0 | 3.0 | 7.1 | 10.9 | 14.5 | 19.8 | 47.7 | 33.7 |
| Finland | 1991 ^{c,d} | 25.6 | 4.2 | 10.0 | 14.2 | 17.6 | 22.3 | 35.8 | 21.6 |
| France | 1995 ^{c,d} | 32.7 | 2.8 | 7.2 | 12.6 | 17.2 | 22.8 | 40.2 | 25.1 |
| Gabon Tho | 1998 ^{a, b} | 50.2 | 1.6 | 4.0 | 7.6 | 12.4 | 20.9 | 55.2 | 20.0 |
| Georgia | 1998 ^{a, b} | 50.2 37.1 | 1.6 2.3 | 4.0 6.1 | 7.6 11.4 | 12.4 16.3 | 20.8 | 55.3 43.6 | 38.2 27.9 |
| Georgia Germany | 1996 ^{c,d} | 30.0 | 3.3 | 8.2 | 13.2 | 17.5 | 22.7 | 38.5 | 23.7 |
| Ghana | 1994 ^{a,b} | 40.7 | 2.2 | 5.6 | 10.0 | 15.1 | 22.7 | 46.7 | 30.1 |
| Greece | 1993 ^{c,d} | 32.7 | 3.0 | 7.5 | 12.4 | 16.9 | 22.8 | 40.7 | 25.3 |
| Guatemala | 1993 ^{c,d} | 55.8 | 1.6 | 3.8 | 6.8 | 10.9 | 17.9 | 60.6 | 46.0 |
| Guinea | 1994 a,b | 40.3 | 2.6 | 6.4 | 10.4 | 14.8 | 21.2 | 47.2 | 32.0 |
| Guinea-Bissau | 1991 ^{a,b} | 56.2 | 0.5 | 2.1 | 6.5 | 12.0 | 20.6 | 58.9 | 42.4 |
| Guyana | 1993 ^{a,b} | 40.2 | 2.4 | 6.3 | 10.7 | 15.0 | 21.2 | 46.9 | 32.0 |
| Haiti | | | | | | •• | | | |
| Honduras | 1998 ^{c,d} | 56.3 | 0.6 | 2.2 | 6.4 | 11.8 | 20.3 | 59.4 | 42.7 |
| | | | | | | | | | |

Distribution of income or consumption | 2.8



| | Survey year | Gini Index | | | Percentage sha | ire of income or | consumption | | |
|----------------------|------------------------|--------------|------------|------------|----------------|------------------|---------------|--------------|--------------|
| | | | Lowest | Lowest | Second 20% | Third 20% | Fourth 20% | Highest | Highest |
| Hungary | 1998 ^{a,b} | 24.4 | 10% 4.1 | 10.0 | 14.7 | 18.3 | 22.7 | 20% 34.4 | 10% 20.5 |
| India | 1997 a,b | 37.8 | 3.5 | 8.1 | 11.6 | 15.0 | 19.3 | 46.1 | 33.5 |
| Indonesia | 1999 a,b | 31.7 | 4.0 | 9.0 | 12.5 | 16.1 | 21.3 | 41.1 | 26.7 |
| Iran, Islamic Rep. | | | | | | •• | | | •• |
| Iraq | | | | | | | | | |
| Ireland | 1987 ^{c,d} | 35.9 | 2.5 | 6.7 | 11.6 | 16.4 | 22.4 | 42.9 | 27.4 |
| Israel | 1997 ^{c,d} | 38.1 | 2.4 | 6.1 | 10.7 | 15.9 | 23.0 | 44.2 | 28.3 |
| Italy | 1995 ^{c,d} | 27.3 | 3.5 | 8.7 | 14.0 | 18.1 | 22.9 | 36.3 | 21.8 |
| Jamaica | 2000 ^{a,b} | 37.9 | 2.7 | 6.7 | 10.7 | 15.0 | 21.8 | 46.0 | 30.3 |
| Japan | 1993 ^{c,d} | 24.9 | 4.8 | 10.6 | 14.2 | 17.6 | 22.0 | 35.7 | 21.7 |
| Jordan | 1997 ^{a,b} | 36.4 | 3.3 | 7.6 | 11.4 | 15.5 | 21.1 | 44.4 | 29.8 |
| Kazakhstan | 1996 ^{a,b} | 35.4 | 2.7 | 6.7 | 11.5 | 16.4 | 23.1 | 42.3 | 26.3 |
| Kenya | 1997 ^{a,b} | 44.9 | 2.4 | 5.6 | 9.3 | 13.6 | 20.3 | 51.2 | 36.1 |
| Korea, Dem. Rep. | | | | | | •• | | | •• |
| Korea, Rep. | 1993 ^{a,b} | 31.6 | 2.9 | 7.5 | 12.9 | 17.4 | 22.9 | 39.3 | 24.3 |
| Kuwait | 1000 - | | | | | | | | |
| Kyrgyz Republic | 1999 a,b | 34.6 | 3.2 | 7.6 | 11.7 | 16.1 | 22.1 | 42.5 | 27.2 |
| Lao PDR | 1997 a,b | 37.0 | 3.2 | 7.6 | 11.4 | 15.3 | 20.8 | 45.0 | 30.6 |
| Latvia | 1998 ^{c,d} | 32.4 | 2.9 | 7.6 | 12.9 | 17.1 | 22.1 | 40.3 | 25.9 |
| Lebanon | 1986-87 a,b | 56.0 | 0.9 | 2.8 | 6.5 | 11.2 | 19.4 | 60.1 | 43.4 |
| Lesotho Liberia | 1900-07 | | | | | | | | 43.4 |
| Libya | | • | •• | | •• | | •• | •• | •• |
| Lithuania | 1996 ^{a,b} | 32.4 | 3.1 | 7.8 | 12.6 | 16.8 | 22.4 | 40.3 | 25.6 |
| Luxembourg | 1994 ^{c,d} | 26.9 | 4.0 | 9.4 | 13.8 | 17.7 | 22.6 | 36.5 | 22.0 |
| Macedonia, FYR | | | | | | | | | |
| Madagascar | 1999 a,b | 38.1 | 2.6 | 6.4 | 10.7 | 15.6 | 22.5 | 44.9 | 28.6 |
| Malawi | | | | | | | | | |
| Malaysia | 1997 ^{c,d} | 49.2 | 1.7 | 4.4 | 8.1 | 12.9 | 20.3 | 54.3 | 38.4 |
| Mali | 1994 ^{a,b} | 50.5 | 1.8 | 4.6 | 8.0 | 11.9 | 19.3 | 56.2 | 40.4 |
| Mauritania | 1995 ^{a,b} | 37.3 | 2.5 | 6.4 | 11.2 | 16.0 | 22.4 | 44.1 | 28.4 |
| Mauritius | | | | | | | | | |
| Mexico | 1998 ^{c,d} | 53.1 | 1.3 | 3.5 | 7.3 | 12.1 | 19.7 | 57.4 | 41.7 |
| Moldova | 1997 ^{c,d} | 40.6 | 2.2 | 5.6 | 10.2 | 15.2 | 22.2 | 46.8 | 30.7 |
| Mongolia | 1995 ^{a,b} | 33.2 | 2.9 | 7.3 | 12.2 | 16.6 | 23.0 | 40.9 | 24.5 |
| Morocco | 1998-99 a,b | 39.5 | 2.6 | 6.5 | 10.6 | 14.8 | 21.3 | 46.6 | 30.9 |
| Mozambique | 1996-97 a,b | 39.6 | 2.5 | 6.5 | 10.8 | 15.1 | 21.1 | 46.5 | 31.7 |
| Myanmar | | | | | | | | | •• |
| Namibia | 400F 00 ah | | | | | | | | |
| Nepal Netherlands | 1995-96 ^{a,b} | 36.7 32.6 | 3.2 2.8 | 7.6 7.3 | 11.5 12.7 | 15.1 17.2 | 21.0 22.8 | 44.8 40.1 | 29.8 25.1 |
| New Zealand | 1994 | | | | | | | | |
| Nicaragua | 1998 ^{a,b} | 60.3 | 0.7 | 2.3 | 5.9 | 10.4 | 17.9 | 63.6 | 48.8 |
| Niger | 1995 a,b | 50.5 | 0.8 | 2.6 | 7.1 | 13.9 | 23.1 | 53.3 | 35.4 |
| Nigeria | 1996-97 a,b | 50.6 | 1.6 | 4.4 | 8.2 | 12.5 | 19.3 | 55.7 | 40.8 |
| Norway | 1995 ^{c,d} | 25.8 | 4.1 | 9.7 | 14.3 | 17.9 | 22.2 | 35.8 | 21.8 |
| Oman | 1000 | | | | | | | | |
| Pakistan | 1996-97 a,b | 31.2 | 4.1 | 9.5 | 12.9 | 16.0 | 20.5 | 41.1 | 27.6 |
| Panama | 1997 a,b | 48.5 | 1.2 | 3.6 | 8.1 | 13.6 | 21.9 | 52.8 | 35.7 |
| Papua New Guinea | 1996 ^{a,b} | 50.9 | 1.7 | 4.5 | 7.9 | 11.9 | 19.2 | 56.5 | 40.5 |
| Paraguay | 1998 ^{c,d} | 57.7 | 0.5 | 1.9 | 6.0 | 11.4 | 20.1 | 60.7 | 43.8 |
| Peru | 1996 ^{c,d} | 46.2 | 1.6 | 4.4 | 9.1 | 14.1 | 21.3 | 51.2 | 35.4 |
| Philippines | 1997 ^{a,b} | 46.2 | 2.3 | 5.4 | 8.8 | 13.2 | 20.3 | 52.3 | 36.6 |
| Poland | 1998 ^{a,b} | 31.6 | 3.2 | 7.8 | 12.8 | 17.1 | 22.6 | 39.7 | 24.7 |
| Portugal | 1994-95 ^{c,d} | 35.6 | 3.1 | 7.3 | 11.6 | 15.9 | 21.8 | 43.4 | 28.4 |
| Puerto Rico | | | | | | | | | |
| Romania | 1998 ^{a,b} | 31.1 | 3.2 | 8.0 | 13.1 | 17.2 | 22.3 | 39.5 | 25.0 |
| Russian Federation | 1998 ^{a,b} | 48.7 | 1.7 | 4.4 | 8.6 | 13.3 | 20.1 | 53.7 | 38.7 |
| | | | | | | | | | |



2.8 | Distribution of income or consumption

| | Survey year | Gini Index | | | Percentage sha | are of income or | consumption | | |
|-------------------------|------------------------|------------|---------------|---------------|----------------|------------------|---------------|----------------|----------------|
| | | | Lowest 10% | Lowest 20% | Second 20% | Third 20% | Fourth 20% | Highest 20% | Highest 10% |
| Rwanda | 1983-85 a,b | 28.9 | 4.2 | 9.7 | 13.2 | 16.5 | 21.6 | 39.1 | 24.2 |
| Saudi Arabia | | | | | | | | •• | |
| Senegal | 1995 ^{a,b} | 41.3 | 2.6 | 6.4 | 10.3 | 14.5 | 20.6 | 48.2 | 33.5 |
| Sierra Leone | 1989 a,b | 62.9 | 0.5 | 1.1 | 2.0 | 9.8 | 23.7 | 63.4 | 43.6 |
| Singapore | | | | | | | | | |
| Slovak Republic | 1992 ^{c,d} | 19.5 | 5.1 | 11.9 | 15.8 | 18.8 | 22.2 | 31.4 | 18.2 |
| Slovenia | 1998 ^{c,d} | 28.4 | 3.9 | 9.1 | 13.4 | 17.3 | 22.5 | 37.7 | 23.0 |
| Somalia | | | | | | | | | |
| South Africa | 1993-94 ^{a,b} | 59.3 | 1.1 | 2.9 | 5.5 | 9.2 | 17.7 | 64.8 | 45.9 |
| Spain | 1990 ^{c,d} | 32.5 | 2.8 | 7.5 | 12.6 | 17.0 | 22.6 | 40.3 | 25.2 |
| Sri Lanka | 1995 ^{a,b} | 34.4 | 3.5 | 8.0 | 11.8 | 15.8 | 21.5 | 42.8 | 28.0 |
| St. Lucia | 1995 ^{c,d} | 42.6 | 2.0 | 5.2 | 9.9 | 14.8 | 21.8 | 48.3 | 32.5 |
| Sudan | | | | | | | | | |
| Swaziland | 1994 ^{c,d} | 60.9 | 1.0 | 2.7 | 5.8 | 10.0 | 17.1 | 64.4 | 50.2 |
| Sweden | 1992 ^{c,d} | 25.0 | 3.7 | 9.6 | 14.5 | 18.1 | 23.2 | 34.5 | 20.1 |
| Switzerland | 1992 ^{c,d} | 33.1 | 2.6 | 6.9 | 12.7 | 17.3 | 22.9 | 40.3 | 25.2 |
| Syrian Arab Republic | | | | | | | | | •• |
| Tajikistan | 1998 ^{a,b} | 34.7 | 3.2 | 8.0 | 12.9 | 17.0 | 22.1 | 40.0 | 25.2 |
| Tanzania | 1993 ^{a,b} | 38.2 | 2.8 | 6.8 | 11.0 | 15.1 | 21.6 | 45.5 | 30.1 |
| Thailand | 1998 ^{a,b} | 41.4 | 2.8 | 6.4 | 9.8 | 14.2 | 21.2 | 48.4 | 32.4 |
| Togo | | | | | | | | | |
| Trinidad and Tobago | 1992 ^{c,d} | 40.3 | 2.1 | 5.5 | 10.3 | 15.5 | 22.7 | 45.9 | 29.9 |
| Tunisia | 1995 ^{a,b} | 41.7 | 2.3 | 5.7 | 9.9 | 14.7 | 21.8 | 47.9 | 31.8 |
| Turkey | 1994 ^{a,b} | 41.5 | 2.3 | 5.8 | 10.2 | 14.8 | 21.6 | 47.7 | 32.3 |
| Turkmenistan | 1998 ^{a,b} | 40.8 | 2.6 | 6.1 | 10.2 | 14.7 | 21.5 | 47.5 | 31.7 |
| Uganda | 1996 ^{a,b} | 37.4 | 3.0 | 7.1 | 11.1 | 15.4 | 21.5 | 44.9 | 29.8 |
| Ukraine | 1999 ^{a,b} | 29.0 | 3.7 | 8.8 | 13.3 | 17.4 | 22.7 | 37.8 | 23.2 |
| United Arab Emirates | | | | | | | | | |
| United Kingdom | 1995 ^{c,d} | 36.8 | 2.3 | 6.1 | 11.6 | 16.4 | 22.7 | 43.2 | 27.7 |
| United States | 1997 ^{c,d} | 40.8 | 1.8 | 5.2 | 10.5 | 15.6 | 22.4 | 46.4 | 30.5 |
| Uruguay | 1989 ^{c,d} | 42.3 | 2.1 | 5.4 | 10.0 | 14.8 | 21.5 | 48.3 | 32.7 |
| Uzbekistan | 1998 ^{a,b} | 44.7 | 1.2 | 4.0 | 9.5 | 15.0 | 22.4 | 49.1 | 32.8 |
| Venezuela, RB | 1998 ^{c,d} | 49.5 | 0.8 | 3.0 | 8.2 | 13.8 | 21.8 | 53.2 | 36.5 |
| Vietnam | 1998 ^{a,b} | 36.1 | 3.6 | 8.0 | 11.4 | 15.2 | 20.9 | 44.5 | 29.9 |
| West Bank and Gaza | | | | | | | | | |
| Yemen, Rep. | 1998 ^{a,b} | 33.4 | 3.0 | 7.4 | 12.2 | 16.7 | 22.5 | 41.2 | 25.9 |
| Yugoslavia, FR (Serb./M | lont.) | | | | | | | | |
| Zambia | 1998 ^{a,b} | 52.6 | 1.1 | 3.3 | 7.6 | 12.5 | 20.0 | 56.6 | 41.0 |
| Zimbabwe | 1995 ^{a,b} | 50.1 | 2.0 | 4.7 | 8.0 | 12.3 | 19.4 | 55.7 | 40.4 |

a. Refers to expenditure shares by percentiles of population. b. Ranked by per capita expenditure. c. Refers to income shares by percentiles of population. d. Ranked by per capita income.

Distribution of income or consumption | 2.8



About the data

Inequality in the distribution of income is reflected in the percentage shares of either income or consumption accruing to segments of the population ranked by income or consumption levels. The segments ranked lowest by personal income receive the smallest share of total income. The Gini index provides a convenient summary measure of the degree of inequality.

Data on personal or household income or consumption come from nationally representative household surveys. The data in the table refer to different years between 1985 and 2000. Footnotes to the survey year indicate whether the rankings are based on per capita income or consumption. Each distribution is based on percentiles of population—rather than of households—with households ranked by income or expenditure per person.

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.

The distribution indicators 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 lowand middle-income economies see Ravallion and Chen (1996).

Because the underlying household surveys differ in method and in the type of data collected, the distribution indicators 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. 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 usually differ 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. Whenever possible, consumption has been used rather than income. The income distribution and Gini indexes for high-income coun-

tries 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, in some cases, 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 or household. 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 zero represents perfect equality, while an index of 100 implies perfect inequality.
- Percentage share of income or consumption is the share that accrues to subgroups of population indicated by deciles or quintiles.
 Percentage shares by quintile may not sum to 100 because of rounding.

Data sources

The 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. The data for high-income economies are from the Luxembourg Income Study database.



2.9 | Assessing vulnerability

| Mighamistan Migham Migham Migham Mighamistan M | | | an informal se employment | | Children in the lai | 10-14 | Pe | nsion contribut | ors | Private health expenditure | |
|--|--------------------------|------|------------------------------|-------|------------------------|-------|------|-----------------|-------------|----------------------------------|---------------|
| Manamia | | Male | Female | Total | | | Year | | working age | Year | % of total |
| Algertia | Afghanistan | | | | 28 | 24 | | | | | |
| Angelina | Albania | | | | 4 | 0 | 1995 | 32.0 | 31.0 | 1999 | 25.9 |
| Agentinian | Algeria | | | | 7 | 0 | 1997 | 31.0 | 23.0 | 1998 | 27.8 |
| Americia | Angola | | | | | | | | | | |
| Australian | | 48 | 36 | 43 | | | | | | | 71.9 |
| Austria | | | | | | | 1995 | 66.6 | 49.4 | | 60.3 |
| Azerbagijan | | | | | | | | | | | 30.0 |
| Benglardseh | | | | | | | | | | | 27.9 |
| Belans | | | | | | | | | | | 32.5 |
| Belgium | | | | | | | | | | | 52.5 18.1 |
| Benlin | | | | | | | | | | | |
| Bolivia | | | | | | | | | | | 28.7 50.6 |
| Beania and Herzegovina 12 28 19 26 14 1996 36.0 31.0 1998 56 56 34 31 338 319 31.4 1996 36.0 31.0 1998 56 56 56 34 31.3 31. | | | | | | | | | | | 36.6 |
| Botswana 12 28 19 26 144 | | | | | | | 1000 | | | 1000 | |
| Brazili 43 31 38 19 14 1996 36.0 31.0 1998 55 10 10 1997 61.0 13.0 1998 55 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 10 1998 15 10 1999 15 10 10 1998 15 10 1999 15 10 10 1998 15 10 1999 15 10 1998 15 10 1999 15 10 10 1998 15 10 1999 15 10 10 1998 15 10 1999 15 10 10 1998 15 10 1999 15 10 10 1999 15 10 10 1998 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 10 1999 15 10 10 1999 15 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 1999 15 10 10 10 10 1999 15 10 10 10 10 1999 15 10 10 10 10 1999 15 10 10 10 10 1999 15 10 10 10 10 1999 15 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | | | | 1998 | 38.3 |
| Bugkriah Baso | | | | | | | 1996 | | | | 55.9 |
| Burkina Faso | | | | | | | | | | | 5.7 |
| Burundi | | | | | 71 | 43 | 1993 | | | | 68.1 |
| Cambodia | | | | | | | | | | | 5.7 |
| Candada | Cambodia | | | | 27 | 24 | | | | 1998 | 91.6 |
| Central African Republic <td>Cameroon</td> <td></td> <td></td> <td></td> <td>34</td> <td>23</td> <td>1993</td> <td>13.7</td> <td>11.5</td> <td>1997</td> <td>79.9</td> | Cameroon | | | | 34 | 23 | 1993 | 13.7 | 11.5 | 1997 | 79.9 |
| Chaid | Canada | | | | 0 | 0 | 1992 | 91.9 | 80.2 | 1998 | 29.9 |
| Chile 33 32 32 0 0 1995 70.0 43.0 1998 55.0 China 30 8 1994 17.6 17.4 1999 55.0 Colombia 49 44 47 12 6 1999 35.0 29.3 1998 55.0 Congo, Dem. Rep. | Central African Republic | | | | | | | | | 1998 | 33.0 |
| China 30 8 1994 17.6 17.4 1999 55 Hong Kong, China 6 0 1995 55 Colombia 49 44 47 12 6 1999 35.0 29.3 1998 44 Congo, Den. Rep. 27 25 1992 5.8 5.6 1998 66 Costa Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Costa Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Cota Rica 6 7 6 0 0 1997 66.0 57.0 1997 41 Cuba 0 0 1997 65.0 67.2 1999 | Chad | | | | 42 | 37 | 1990 | 1.1 | 1.0 | 1998 | 21.4 |
| Hong Kong, China 6 0 1995 55 Colombia 49 44 47 12 6 1999 35.0 29.3 1998 44 Congo, Dem. Rep. 27 25 1992 5.8 5.6 1998 66 Costa Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Cote d'Ivoire 37 73 53 28 19 1997 9.3 9.1 1998 66 Creatia 6 7 6 0 0 1997 66.0 57.0 1997 14 Cuba 0 0 1997 66.0 57.0 1997 14 Cuba 0 0 1997 66.0 67.2 | Chile | 33 | 32 | 32 | 0 | 0 | 1995 | 70.0 | 43.0 | 1998 | 53.5 |
| Colombia 49 44 47 12 6 1999 35.0 29.3 1998 44 Congo, Dem, Rep. 27 25 1992 5.8 5.6 1998 66 Costa Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Cotata Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Cotatal 6 7 6 0 0 1997 9.3 9.1 1998 66 Croatia 6 7 6 0 0 1997 66.0 57.0 1997 11 Cuba 0 0 1995 85.0 67.2 1999 14 Czech Republic 25 13 1999 14.4 12.4 1998 66 | China | | | | 30 | 8 | 1994 | 17.6 | 17.4 | 1999 | 59.2 |
| Congo, Dem. Rep. | Hong Kong, China | | | | 6 | 0 | | | | 1995 | 55.0 |
| Congo, Rep. | Colombia | 49 | 44 | 47 | 12 | 6 | 1999 | 35.0 | 29.3 | 1998 | 44.8 |
| Costa Rica 43 36 40 10 4 1998 50.6 38.5 1998 22 Côte d'Ivoire 37 73 53 28 19 1997 9.3 9.1 1998 66 Croatia 6 7 6 0 0 1997 66.0 57.0 1997 41 Cuba 0 0 1997 66.0 57.0 1997 41 Czech Republic 0 0 1993 89.6 88.0 1999 1 Denmark 0 0 1993 89.6 88.0 1999 1 Demmark 25 13 1999 14.4 12.4 1998 66 Ecuador 18 9 1994 50.0 34.2 1997 | Congo, Dem. Rep. | | | | 33 | 29 | | | | | |
| Côte d'Ivoire 37 73 53 28 19 1997 9.3 9.1 1998 6 Croatia 6 7 6 0 0 1997 66.0 57.0 1997 14 Cuba 0 0 1995 85.0 67.2 1999 19 Cuba 0 0 1995 85.0 67.2 1999 12 Denmark 0 0 1993 89.6 88.0 1999 1 Dominican Republic 25 13 1999 14.4 12.4 1998 66 Ecuador 54 55 53 9 4 1999 43.1 33.8 1998 55 Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 56 | Congo, Rep. | | | | 27 | 25 | 1992 | 5.8 | 5.6 | 1998 | 65.8 |
| Croatia 6 7 6 0 0 1997 66.0 57.0 1997 11 Cuba 0 0 1994 Czech Republic 0 0 1995 85.0 67.2 1999 18 Denmark 0 0 1993 89.6 88.0 1999 18 Dominican Republic 25 13 1999 14.4 12.4 1998 66 Eduador 54 55 53 9 4 1999 43.1 33.8 1998 65 Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 55 El Salvador 1998 66 Eritrea | Costa Rica | | | | | | | | | | 22.6 |
| Cuba <td></td> <td>67.6</td> | | | | | | | | | | | 67.6 |
| Czech Republic 0 0 1995 85.0 67.2 1999 8 Denmark 0 0 1993 89.6 88.0 1999 1 Dominican Republic 25 13 1999 14.4 12.4 1998 66 Ecuador 54 55 53 9 4 1999 43.1 33.8 1998 55 Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 52 Egypt, Arab Rep. 17 14 1996 26.2 25.0 1998 66 Eirly Arab Rep. 17 14 1996 26.2 25.0 1998 66 Eirly Arab Rep. 17 14 1999 <td></td> <td>6</td> <td>7</td> <td>6</td> <td></td> <td></td> <td>1997</td> <td>66.0</td> <td>57.0</td> <td></td> <td>16.4</td> | | 6 | 7 | 6 | | | 1997 | 66.0 | 57.0 | | 16.4 |
| Denmark 0 0 1993 89.6 88.0 1999 1 Dominican Republic 25 13 1999 14.4 12.4 1998 63 Ecuador 54 55 53 9 4 1999 43.1 33.8 1998 56 Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 55 El Salvador 17 14 1996 26.2 25.0 1998 66 Eritrea 1994 43 Estonia 1994 44 Estonia | | | | | | | | | | | 9.4 |
| Dominican Republic | · . | | | | | | | | | | 8.5 |
| Ecuador 54 55 53 9 4 1999 43.1 33.8 1998 56 Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 52 El Salvador 17 14 1996 26.2 25.0 1998 64 Eritrea 44 38 1994 44 Estonia 0 0 1995 76.0 67.0 1999 14 Ethiopia 19 53 33 46 41 1998 56 Finland 0 0 1993 90.3 83.6 1999 22 France 0 0 1993 88.4 74.6 1999 22 Gambia, The< | | | | | | | | | | | 17.8 |
| Egypt, Arab Rep. 18 9 1994 50.0 34.2 1997 55 El Salvador 17 14 1996 26.2 25.0 1998 66 Eritrea 44 38 1994 48 Estonia 0 0 1995 76.0 67.0 1999 10 Ethiopia 19 53 33 46 41 1998 58 Finland 0 0 1993 90.3 83.6 1999 22 France 0 0 1993 88.4 74.6 1999 22 Gabon 1998 33 Georgia <td>· .</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>61.3</td> | · . | | | | | | | | | | 61.3 |
| El Salvador | | | | | | | | | | | 54.1 |
| Eritrea | | | | | | | | | | | 52.6 |
| Estonia | | | | | | | 1990 | | | | 64.2 45.1 |
| Ethiopia 19 53 33 46 41 1998 56 Finland 0 0 1993 90.3 83.6 1999 22 France 0 0 1993 88.4 74.6 1999 22 Gabon 29 14 1991 7.3 7.0 1998 33 Gambia, The 44 34 1998 50 Georgia 0 0 1996 77.0 72.0 1999 73 Germany 0 0 1995 94.2 82.3 1999 24 Ghana .79 16 12 1993 7.2 9.0 1998 63 Greece 5 0 1996 88.0 73.0 1998 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1995</td><td></td><td></td><td></td><td>16.6</td></t<> | | | | | | | 1995 | | | | 16.6 |
| Finland 0 0 1993 90.3 83.6 1999 22 France 0 0 1993 88.4 74.6 1999 22 Gabon 29 14 1991 7.3 7.0 1998 33 Gambia, The 44 34 1998 50 Georgia 0 0 1996 77.0 72.0 1999 73 Germany 0 0 1995 94.2 82.3 1999 24 Ghana <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>TOOU</td><td></td><td></td><td></td><td>58.4</td></td<> | | | | | | | TOOU | | | | 58.4 |
| France 0 0 1993 88.4 74.6 1999 22 Gabon 29 14 1991 7.3 7.0 1998 33 Gambia, The 44 34 1998 50 Georgia 0 0 1996 77.0 72.0 1999 73 Germany 0 0 1995 94.2 82.3 1999 24 Ghana 0 0 1995 94.2 82.3 1999 24 Greece | | | | | | | 1993 | | | | 24.3 |
| Gabon 29 14 1991 7.3 7.0 1998 33 Gambia, The .44 34 1998 50 Georgia 0 0 1996 77.0 72.0 1999 73 Germany 0 0 1995 94.2 82.3 1999 24 Ghana 0 0 1995 94.2 82.3 1999 24 Greece <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>21.9</td></td<> | | | | | | | | | | | 21.9 |
| Gambia, The | | | | | | | | | | | 33.3 |
| Georgia 0 0 1996 77.0 72.0 1999 77.0 Germany 0 0 1995 94.2 82.3 1999 24.0 Ghana 79 16 12 1993 7.2 9.0 1998 65.0 Greece 5 0 1996 88.0 73.0 1998 45.0 Guatemala 19 14 1999 22.8 19.3 1998 55.0 Guinea 41 31 1993 1.5 1.8 1998 38.0 Guinea-Bissau 43 37 1998 66.0 Haiti <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>50.1</td></t<> | | | | | | | | | | | 50.1 |
| Germany 0 0 1995 94.2 82.3 1999 24 Ghana 79 16 12 1993 7.2 9.0 1998 63 Greece 5 0 1996 88.0 73.0 1998 43 Guatemala 19 14 1999 22.8 19.3 1998 53 Guinea 41 31 1993 1.5 1.8 1998 38 Guinea-Bissau | | | | | | | 1996 | | | | 73.0 |
| Ghana 79 16 12 1993 7.2 9.0 1998 66 Greece 5 0 1996 88.0 73.0 1998 43 Guatemala 19 14 1999 22.8 19.3 1998 52 Guinea 41 31 1993 1.5 1.8 1998 38 Guinea-Bissau 43 37 1998 66 Haiti 33 23 1998 66 | | | | | | | | | | | 24.7 |
| Greece | | | | | | | | | | | 61.4 |
| Guatemala 19 14 1999 22.8 19.3 1998 55 Guinea 41 31 1993 1.5 1.8 1998 39 Guinea-Bissau 43 37 Haiti 33 23 1998 66 | | | | | | | | | | | 43.7 |
| Guinea 41 31 1993 1.5 1.8 1998 39 Guinea-Bissau 43 37 Haiti 33 23 1998 66 | | | | | | 14 | | | | | 52.5 |
| Guinea-Bissau 43 37 Haiti 33 23 1998 66 | | | | | | | | | | | 39.6 |
| Haiti 33 23 1998 66 | | | | | | | | | | | |
| | | | | | | | | | | 1998 | 66.0 |
| | Honduras | 53 | 58 | 55 | 14 | 7 | 1999 | 20.6 | 17.7 | 1998 | 54.4 |

Assessing vulnerability | 2.9



| | Urb | an informal se employment | ector | Childrer in the lal | | Per | sion contribut | ors | Private health expenditure | | |
|--------------------|---------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------|------|------------------|-----------------------------------|----------------------------------|---------------|--|
| | % o Male 1995-99 ° | f urban employn Female 1995-99° | nent Total 1995-99 ° | % of age | e group 2000 | Year | % of labor force | % of working age population | Year | % of total | |
| Hungary | | | | 0 | 0 | 1996 | 77.0 | 65.0 | 1998 | 23.5 | |
| India | | | | 21 | 12 | 1992 | 10.6 | 7.9 | 1997 | 85.0 | |
| Indonesia | 19 | 23 | 21 | 13 | 8 | 1995 | 8.0 | 7.0 | 1998 | 53.7 | |
| Iran, Islamic Rep. | 3 | 90 | 18 | 14 | 3 | 1994 | 29.8 | | 1998 | 59.3 | |
| Iraq | | | | 11 | 2 | | | | 1998 | 32.1 | |
| Ireland | | | | 1 | 0 | 1992 | 79.3 | 64.7 | 1998 | 23.2 | |
| Israel | | | | 0 | 0 | 1992 | 82.0 | 63.0 | 1998 | 37.4 | |
| Italy | | | | 2 | 0 | 1997 | 87.0 | 68.0 | 1999 | 32.0 | |
| Jamaica | 26 | 21 | 24 | 0 | 0 | 1999 | 44.4 | 45.8 | 1998 | 44.6 | |
| Japan | | | | 0 | 0 | 1994 | 97.5 | 92.3 | 1998 | 21.5 | |
| Jordan | | | | 4 | 0 | 1995 | 40.0 | 25.0 | 1998 | 47.0 | |
| Kazakhstan | | | | 0 | 0 | 1997 | 51.0 | 44.0 | 1999 | 51.9 | |
| Kenya | | •• | 58 | 45 | 39 | 1995 | 18.0 | 24.0 | 1998 | 69.8 | |
| Korea, Dem. Rep. | | •• | •• | 3 | 0 | | | | | | |
| Korea, Rep. | | •• | •• | 0 | 0 | 1996 | 58.0 | 43.0 | 1999 | 56.1 | |
| Kuwait | | ** | | 0 | 0 | | •• | | 1998 | 12.1 | |
| Kyrgyz Republic | | | | 0 | 0 | 1997 | 44.0 | 42.0 | 1999 | 50.5 | |
| Lao PDR | | | •• | 31 | 25 | | | | 1998 | 51.6 | |
| Latvia | | | 17 | 0 | 0 | 1995 | 60.5 | 52.3 | 1998 | 38.3 | |
| Lebanon | | | | 5 | 0 | | | | 1998 | 80.1 | |
| Lesotho | | | | 28 | 21 | | | | | | |
| Liberia | | | | 26 | 15 | | | | | | |
| Libya | | | •• | 9 | 0 | | | | | | |
| Lithuania | 12 | 5 | 9 | 0 | 0 | | | | 1998 | 24.2 | |
| Macedonia, FYR | | | | 1 | 0 | 1995 | 49.0 | 47.0 | 1998 | 15.4 | |
| Madagascar | | | 58 | 40 | 34 | 1993 | 5.4 | 4.8 | 1998 | 46.7 | |
| Malawi | | | | 45 | 31 | | | | 1998 | 56.0 | |
| Malaysia | | | •• | 8 | 2 | 1993 | 48.7 | 37.8 | 1998 | 42.3 | |
| Mali | | | 71 | 61 | 51 | 1990 | 2.5 | 2.0 | 1998 | 51.4 | |
| Mauritania | •• | | •• | 30 | 22 | | •• | | 1998 | 71.1 | |
| Mauritius | | | | 5 | 2 | | | | 1998 | 46.4 | |
| Mexico | 38 | 30 | 35 | 9 | 5 | 1997 | 30.0 | 31.0 | 1998 | 52.0 | |
| Moldova | | | •• | 3 | 0 | | •• | | 1998 | 32.7 | |
| Mongolia | | | | 4 | 1 | 4004 | | | 1992 | 8.0 | |
| Morocco | | | | 21 | 1 | 1994 | 20.9 | 17.8 | 1998 | 72.7 | |
| Myanmar | | | | 39 | 32 | | | | 1998 | 19.0 | |
| Myanmar | 53 | 57 | 54 | 28 | 23 | | •• | •• | 1998 | 87.0 | |
| Namibia Nepal | | | •• | 34 56 | 17 42 | | •• | •• | 1998 1998 | 47.8 76.5 | |
| Netherlands | | | •• | 0 | 0 | 1993 | 91.7 | 75.4 | 1998 | 31.5 | |
| New Zealand | | •• | •• | 0 | 0 | Taao | | | 1999 | 22.5 | |
| Nicaragua | | •• | | 19 | 12 | 1999 | 14.3 | 13.3 | 1999 | 32.1 | |
| Niger | | | | 48 | 44 | 1999 | 1.3 | 1.5 | 1998 | 53.1 | |
| Nigeria | | | | 29 | 24 | 1993 | 1.3 | 1.3 | 1998 | 70.1 | |
| Norway | | | | 0 | 0 | 1993 | 94.0 | 85.8 | 1999 | 24.2 | |
| Oman | | | | 6 | 0 | 1000 | | | 1998 | 17.1 | |
| Pakistan | | | | 23 | 15 | 1993 | 3.5 | 2.1 | 1998 | 76.4 | |
| Panama | 36 | 28 | 32 | 6 | 3 | 1998 | 51.6 | 40.7 | 1998 | 32.3 | |
| Papua New Guinea | | | | 28 | 17 | 2000 | | | 1998 | 21.6 | |
| Paraguay | | | 58 | 15 | 6 | 1997 | 31.0 | 29.0 | 1998 | 68.0 | |
| Peru | 45 | 53 | 48 | 4 | 2 | 1997 | 20.0 | 16.0 | 1998 | 61.0 | |
| Philippines | 16 | 19 | 17 | 14 | 5 | 1996 | 28.3 | 13.6 | 1999 | 57.1 | |
| Poland | 14 | 11 | 13 | 0 | 0 | 1996 | 68.0 | 64.0 | 1999 | 24.9 | |
| Portugal | | | | 8 | 1 | 1996 | 84.3 | 80.0 | 1998 | 33.1 | |
| Puerto Rico | | | | 0 | 0 | | | | | | |
| Romania | | | | 0 | 0 | 1994 | 55.0 | 48.0 | 1998 | 32.6 | |
| Russian Federation | | | | 0 | 0 | | | | 1997 | 27.8 | |
| | · · | | | • | | | | • | | - | |



2.9 | Assessing vulnerability

| | Urban informal sector employment | | | Childrer in the lak | | Per | nsion contribut | ors | Private health expenditure | |
|-----------------------------|-------------------------------------|--|----------------------------------|------------------------|------------------------|------|------------------|-----------------------------------|----------------------------------|---------------|
| | % Male 1995-99 ª | of urban employm Female 1995-99* | ent Total 1995-99 ª | % of age | e group 2000 | Year | % of labor force | % of working age population | Year | % of total |
| Rwanda | | | | 43 | 41 | 1993 | 9.3 | 13.3 | 1998 | 51.8 |
| Saudi Arabia | | | | 5 | 0 | | | | 1997 | 20.0 |
| Senegal | | | | 43 | 27 | 1998 | 4.3 | 4.7 | 1998 | 41.6 |
| Sierra Leone | | | | 19 | 14 | | | | 1998 | 83.4 |
| Singapore | | | | 2 | 0 | 1995 | 73.0 | 56.0 | 1998 | 64.0 |
| Slovak Republic | 25 | 11 | 19 | 0 | 0 | 1996 | 73.0 | 72.0 | 1998 | 21.2 |
| Slovenia | | | | 0 | 0 | 1995 | 86.0 | 68.7 | 1998 | 12.0 |
| Somalia | | | | 38 | 31 | | | | | |
| South Africa | 11 | 26 | 17 | 1 | 0 | | | | 1998 | 53.4 |
| Spain | | | | 0 | 0 | 1994 | 85.3 | 61.4 | 1998 | 23.1 |
| Sri Lanka | | | | 4 | 2 | 1992 | 28.8 | 20.8 | 1999 | 51.0 |
| Sudan | | | | 33 | 27 | 1996 | 3.9 | | 1997 | 79.1 |
| Swaziland | | | | 17 | 12 | | | | 1998 | 28.0 |
| Sweden | | | | 0 | 0 | 1994 | 91.1 | 88.9 | 1998 | 16.2 |
| Switzerland | | | | 0 | 0 | 1994 | 98.1 | 96.8 | 1998 | 26.4 |
| Syrian Arab Republic | | | | 14 | 2 | | | | 1998 | 65.0 |
| Tajikistan | | | | 0 | 0 | | | | 1998 | 14.5 |
| Tanzania | 60 | 85 | 67 | 43 | 37 | 1996 | 2.0 | 2.0 | 1998 | 58.0 |
| Thailand | 75 | 79 | 77 | 25 | 12 | 1999 | 18.0 | 17.0 | 1998 | 68.7 |
| Togo | | | | 36 | 27 | 1997 | 6.0 | 3.0 | 1998 | 50.0 |
| Trinidad and Tobago | | | | 1 | 0 | | | | 1998 | 42.4 |
| Tunisia | | •• | | 6 | 0 | 1991 | 39.4 | 27.2 | 1998 | 56.5 |
| Turkey | | | | 21 | 8 | 1990 | 34.6 | | 1998 | 28.1 |
| Turkmenistan | | | | 0 | 0 | | | | 1998 | 20.8 |
| Uganda | | | | 49 | 44 | 1994 | 8.2 | | 1998 | 68.8 |
| Ukraine | 5 | 5 | 5 | 0 | 0 | 1995 | 69.8 | 66.1 | 1999 | 33.3 |
| United Arab Emirates | | | | 0 | 0 | | | | 1998 | 90.3 |
| United Kingdom | | •• | •• | 0 | 0 | 1994 | 89.7 | 84.5 | 1999 | 16.7 |
| United States | | •• | | 0 | 0 | 1993 | 94.0 | 91.9 | 1999 | 55.5 |
| Uruguay | 39 | 41 | 36 | 4 | 1 | 1995 | 82.0 | 78.0 | 1998 | 79.4 |
| Uzbekistan | | | | 0 | 0 | | | | 1998 | 15.6 |
| Venezuela, RB | 47 | 46 | 47 | 4 | 0 | 1999 | 23.6 | 18.2 | 1998 | 38.1 |
| Vietnam | | | | 22 | 5 | 1998 | 8.4 | 10.0 | 1998 | 83.5 |
| West Bank and Gaza | •• | •• | •• | | | | | | | |
| Yemen, Rep. | | | •• | 26 | 19 | | | | 1997 | 57.1 |
| Yugoslavia, FR (Serb./Mont. | | | | 0 | 0 | | | | | |
| Zambia | | | | 19 | 16 | 1994 | 10.2 | 7.9 | 1998 | 48.3 |
| Zimbabwe | | | | 37 | 27 | 2001 | | | 1999 | 50.1 |
| ZIIIDADWC | | | •• | 51 | ۷1 | | • | •• | TOOD | JU.1 |

| World | 20 w | 11 w | 57 | 7.3 w |
|-------------------------|------|------|----|-------|
| Low income | 25 | 18 | 71 | 1.4 |
| Middle income | 21 | 6 | 52 | 2.7 |
| Lower middle income | 24 | 6 | 54 | 4.6 |
| Upper middle income | 10 | 6 | 46 | 6.8 |
| Low & middle income | 23 | 12 | 61 | 1.3 |
| East Asia & Pacific | 26 | 8 | 60 | 0.3 |
| Europe & Central Asia | 3 | 1 | 28 | 8.1 |
| Latin America & Carib. | 13 | 8 | 54 | 4.2 |
| Middle East & N. Africa | 14 | 4 | 50 | 0.6 |
| South Asia | 23 | 15 | 80 | 0.2 |
| Sub-Saharan Africa | 35 | 29 | 60 | 0.6 |
| High income | 0 | 0 | 35 | 5.1 |
| Europe EMU | 1 | 0 | 26 | 6.3 |

a. Data are for the most recent year available.

Assessing vulnerability | 2.9



About the data

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. It is therefore primarily a function of a 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.

Poor households face many risks, and vulnerability is thus multidimensional. The indicators in the table focus on individual risks—informal sector employment, child labor, 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 through their children. Income security is a prime concern for the elderly. And affordable access to health care is a primary concern for all poor people, for whom illness and injury have both direct and opportunity costs.

For informal sector employment the most common sources of data are labor force and special informal sector surveys, based on a mixed household and enterprise survey approach or an economic or establishment census approach. Other sources include multipurpose household surveys, household income and expenditure surveys, surveys of household industries or economic activities, small and micro enterprise surveys, and official estimates. The international comparability of the data is affected by differences among countries in definitions and coverage and in the treatment of domestic workers and those who have a secondary job in the informal sector. The data in the table are based on national definitions of urban areas established by countries. For details on country definitions see the notes in the data source.

Reliable estimates of child labor are hard to obtain. In many countries child labor is officially presumed not to exist and so is not included in surveys or in official data. Underreporting also occurs because data exclude children engaged in agricultural or household activities with their families. Most child workers are in Asia. But the share of children working is highest in Africa, where, on average, one in three children ages 10-14 is engaged in some form of economic activity, mostly in agriculture (Fallon and Tzannatos 1998). Available statistics suggest that more boys than girls work. But the number of girls working is often underestimated because surveys exclude those working as unregistered domestic help or doing full-time household work to enable their parents to work outside the home.

Data on pension contributors come from national sources, the International Labour Organization, 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). Coverage may be overstated in countries that do not attempt to count informal sector workers as part of the labor force.

Total expenditure on health in a country can be divided into two main categories by source of funding: public and private. Public health expenditure consists of spending by central and local governments, including social health insurance funds. Private health expenditure includes private insurance, direct out-of-pocket payments by households, and spending by non-profit institutions serving households, and private corporations. In countries where the proportion of out-of-pocket private expenditure is large, lower-income households may be particularly vulnerable to the impoverishing effects of necessary health care.

Definitions

• Urban informal sector employment is broadly characterized as employment in units in urban areas that produce goods or services on a small scale with the primary objective of generating employment and income for those concerned. These units typically operate at a low level of organization, with little or no division between labor and capital as factors of production. Labor relations are based on casual employment, kinship, or social relationships rather than contractual arrangements. • Children 10-14 in the labor force refer to the share of that age group active in the labor force. • Pension contributors refer to the share of the labor force or working-age population (here defined as ages 20-59) covered by a pension scheme. • Private health expenditure includes direct household (out-of-pocket) spending, private insurance, spending by non-profit institutions serving households (other than social insurance), and direct service payments by private corporations.

Data sources

The data on urban informal sector employment are from the International Labour Organization (ILO) database Key Indicators of the Labour Market (2001-02 issue). The child labor force participation rates are from the ILO database Estimates and Projections of the Economically Active Population, 1950-2010. The data on pension contributors are drawn from Robert Palacios and Montserrat Pallares-Miralles's "International Patterns of Pension Provision" (2000). For updates and further notes and sources go to the World Bank's Web site on pensions (www.worldbank.org/pensions). The data on private health expenditure for developing countries are largely from the World Health Organization's World Health Report 2000 and World Health Report 2001, from household surveys and from World Bank poverty assessments and sector studies. The data on private health expenditure for member countries of the Organisation for Economic Co-operation and Development (OECD) are from the OECD.



2.10 | Enhancing security

| | | Public expenditure on pensions | | | | enditure alth | Public expenditure on education ^a | | |
|--------------------------|------|--------------------------------|------|---|------|------------------|--|--|--|
| | Year | % of GDP | Year | Average pension % of per capita income | Year | % of GDP | % of GDP 1998 | Per student % of GDP per capita 1998 | |
| Afghanistan | | | | | | | | | |
| Albania | 1995 | 5.1 | | | 1999 | 2.0 | | | |
| Algeria | 1997 | 2.1 | 1991 | 75.0 | 1998 | 2.6 | 6.0 | 22.2 | |
| Angola | | | | | | | 2.6 | 19.1 | |
| Argentina | 1994 | 6.2 | | | 1999 | 2.4 | | 14.7 | |
| Armenia | 1996 | 3.1 | 1996 | 18.7 | 1999 | 4.0 | 2.0 | | |
| Australia | 1997 | 5.9 | 1989 | 37.3 | 1998 | 6.0 | 4.8 | | |
| Austria | 1997 | 14.4 | 1993 | 69.3 | 1999 | 5.9 | 6.3 | 36.5 | |
| Azerbaijan | 1996 | 2.5 | 1996 | 51.4 | 1999 | 1.0 | 3.4 | 15.1 | |
| Bangladesh | 1992 | 0.0 | | | 1998 | 1.7 | | | |
| Belarus | 1997 | 7.7 | 1995 | 31.2 | 1998 | 4.6 | 5.6 | | |
| Belgium | 1997 | 12.9 | 1333 | | 1999 | 6.3 | | | |
| Benin | 1993 | 0.4 | 1993 | 189.7 | 1998 | 1.6 | 2.6 | 13.8 | |
| Bolivia | 1995 | 2.5 | 1930 | | 1998 | 4.1 | | | |
| Bosnia and Herzegovina | T990 | | | •• | 1998 | 8.0 | | | |
| Botswana | | •• | | •• | 1999 | 2.5 | 9.1 | 30.1 | |
| | 1996 | | | ** | | 2.5 | | | |
| Brazil | | 4.9 | 1005 | | 1999 | | 4.6 | 16.1 | |
| Bulgaria | 1996 | 7.3 | 1995 | 39.3 | 1999 | 3.9 | 3.4 | •• | |
| Burkina Faso | 1992 | 0.3 | 1992 | 207.3 | 1999 | 1.5 | 3.0 | | |
| Burundi | 1991 | 0.2 | 1991 | 57.4 | 1998 | 0.6 | 3.9 | 39.9 | |
| Cambodia | | | | | 1998 | 0.6 | 5.5 | 26.0 | |
| Cameroon | 1993 | 0.4 | | | 1998 | 1.0 | 2.6 | 13.7 | |
| Canada | 1997 | 5.4 | 1994 | 54.3 | 1999 | 6.6 | 5.6 | 27.6 | |
| Central African Republic | 1990 | 0.3 | | | 1998 | 2.0 | 1.9 | | |
| Chad | 1997 | 0.1 | | | 1998 | 2.3 | 1.7 | | |
| Chile | 1993 | 5.8 | 1993 | 56.1 | 1998 | 2.7 | 3.7 | 15.5 | |
| China | 1996 | 2.7 | | | 1999 | 2.1 | | | |
| Hong Kong, China | | | | | 1996 | 2.1 | | | |
| Colombia | 1994 | 1.1 | 1989 | 72.2 | 1998 | 5.2 | | | |
| Congo, Dem. Rep. | | | | | | | | | |
| Congo, Rep. | 1992 | 0.9 | | | 1998 | 2.0 | 4.7 | | |
| Costa Rica | 1996 | 3.8 | 1993 | 76.1 | 1998 | 5.2 | 6.0 | | |
| Côte d'Ivoire | 1997 | 0.3 | | | 1998 | 1.2 | 4.2 | 24.3 | |
| Croatia | 1997 | 11.6 | | | 1999 | 9.5 | | | |
| Cuba | 1992 | 12.6 | | | 1994 | 8.3 | | | |
| Czech Republic | 1999 | 9.8 | 1996 | 37.0 | 1999 | 6.6 | 4.2 | 23.8 | |
| Denmark | 1997 | 8.8 | 1994 | 46.7 | 1999 | 6.9 | 8.2 | 44.3 | |
| Dominican Republic | | | | | 1998 | 1.9 | | | |
| Ecuador | 1997 | 1.0 | | | 1998 | 1.7 | •• | | |
| Egypt, Arab Rep. | 1994 | 2.5 | 1994 | 45.0 | 1997 | 1.8 | | | |
| El Salvador | 1996 | 1.3 | | | 1998 | 2.6 | | | |
| Eritrea | | | | | 1997 | 2.9 | 5.0 | 51.3 | |
| Estonia | 1995 | 7.0 | 1995 | 56.7 | 1999 | 5.1 | 6.8 | 32.8 | |
| Ethiopia | 1993 | 0.9 | 1000 | | 1999 | 1.3 | 4.3 | 41.6 | |
| Finland | 1997 | 12.1 | 1994 | 57.4 | 1999 | 5.2 | | | |
| rance | 1997 | 13.4 | 1004 | | 1999 | 7.3 | 5.9 | 28.9 | |
| Gabon | 1331 | | | •• | 1999 | 2.1 | 3.3 | 10.8 | |
| ambia, The | | •• | | •• | 1998 | 2.1 | 4.8 | | |
| | 2000 | 2.7 | 1006 | 12.6 | | | | | |
| Georgia | 2000 | 2.7 | 1996 | 12.6 | 1999 | 0.8 | | | |
| Germany | 1997 | 12.1 | 1995 | 62.8 | 1999 | 7.9 | 4.6 | 27.2 | |
| Ghana | 1993 | 0.1 | | | 1999 | 1.7 | 4.0 | | |
| Greece | 1993 | 11.9 | 1990 | 85.6 | 1998 | 4.7 | | •• | |
| Guatemala | 1995 | 0.7 | 1995 | 27.6 | 1998 | 2.1 | 2.0 b | | |
| Guinea | | | | | 1998 | 2.3 | 1.8 | | |
| Guinea-Bissau | | | | | 1994 | 1.1 | | | |
| Haiti | | | | | 1998 | 1.4 | | | |
| Honduras | 1994 | 0.6 | | | 1998 | 3.9 | 4.0 | | |

Enhancing security | 2.10



| | | Public ex on per | | | Public exp on hea | | | kpenditure ucation ^a |
|--------------------|------|---------------------|------|--|----------------------|-------------|----------------------------|---|
| | Year | % of GDP | Year | Average pension % of per capita income | Year | % of GDP | % of GDP 1998 | Per student % of GDP per capita 1998 |
| Hungary | 1996 | 9.7 | 1996 | 33.6 | 1998 | 5.2 | 4.6 | 25.8 |
| India | 2000 | | 1000 | | 1997 | 0.8 | | |
| Indonesia | | | | ·· | 1999 | 0.8 | 1.4 | ••• |
| Iran, Islamic Rep. | 1994 | 1.5 | | | 1998 | 1.7 | 4.6 | |
| Iraq | 1004 | | | | 1998 | 3.8 | | |
| Ireland | 1997 | 4.6 | 1993 | 77.9 | 1998 | 5.2 | 4.5 | 17.4 |
| | | | | | | | 7.7 | |
| Israel | 1996 | 5.9 | 1992 | 48.1 | 1998 | 6.0 | | 29.7 |
| Italy | 1997 | 17.6 | | | 1999 | 5.6 | 4.7 | 29.8 |
| Jamaica | 1996 | 0.3 | 1989 | 25.9 | 1998 | 3.1 | 6.3 | 28.7 |
| Japan | 1997 | 6.9 | 1989 | 33.9 | 1998 | 5.7 | 3.5 | 21.3 |
| Jordan | 1995 | 4.2 | 1995 | 144.0 | 1998 | 3.6 | | |
| Kazakhstan | 1997 | 5.0 | 1996 | 18.8 | 1999 | 2.7 | | |
| Kenya | 1993 | 0.5 | | | 1998 | 2.4 | 6.6 | 28.2 |
| Korea, Dem. Rep. | | | | | | | | |
| Korea, Rep. | 1997 | 1.3 | | | 1999 | 2.4 | 4.1 | |
| Kuwait | 1990 | 3.5 | | | 1997 | 2.9 | 6.5 | 29.9 |
| Kyrgyz Republic | 1997 | 6.4 | 1994 | 35.0 | 1999 | 2.2 | 5.4 | 21.1 |
| Lao PDR | | | | •• | 1998 | 1.2 | 2.4 | 11.2 |
| Latvia | 1995 | 10.2 | 1994 | 47.6 | 1999 | 4.0 | 6.8 | 35.0 |
| Lebanon | | | | | 1998 | 2.2 | 2.1 | 9.8 |
| Lesotho | | | | | 1995 | 3.4 | 13.0 | 57.9 |
| Liberya | | | | | | | | |
| Libya | | | | | | | | |
| Lithuania | 1998 | 7.3 | 1995 | 21.3 | 1998 | 4.8 | 6.4 | 32.2 |
| Macedonia, FYR | 1998 | 8.7 | 1996 | 91.6 | 1998 | 5.3 | | |
| Madagascar | 1990 | 0.2 | 1000 | | 1998 | 1.1 | 1.9 | 11.4 |
| Malawi | 1330 | | | | 1998 | 2.8 | 4.6 | |
| Malaysia | 1999 | 6.5 | | | 1998 | 1.4 | | •• |
| Mali | 1991 | 0.4 | | | 1998 | 2.1 | 3.0 | 25.8 |
| Mauritania | 1991 | 0.4 | | •• | 1998 | 1.4 | 4.3 | 25.6 |
| Mauritius | 1992 | 4.4 | | •• | 1998 | 1.8 | 4.0 | 19.5 |
| | | | | •• | | | | |
| Mexico | 1997 | 4.6 | | •• | 1998 | 2.6 | •• | 15.9 |
| Moldova | 1996 | 7.5 | | •• | 1999 | 2.9 | •• | •• |
| Mongolia | | | | | 1995 | 4.7 | | |
| Morocco | 1994 | 1.8 | 1994 | 118.0 | 1998 | 1.2 | | |
| Mozambique | 1996 | 0.0 | | | 1998 | 2.8 | 2.9 | 22.6 |
| Myanmar | | | | | 1998 | 0.2 | | |
| Namibia | | | | | 1999 | 3.3 | 8.1 | 26.8 |
| Nepal | | | | | 1998 | 1.3 | 2.5 | 11.0 |
| Netherlands | 1997 | 11.1 | 1989 | 48.5 | 1999 | 6.0 | 4.9 | 24.8 |
| New Zealand | 1997 | 6.5 | | | 1999 | 6.3 | 7.2 | •• |
| Nicaragua | 1996 | 4.3 | | | 1998 | 8.5 | 4.2 | |
| Niger | 1992 | 0.1 | | | 1998 | 1.2 | 2.7 | |
| Nigeria | 1991 | 0.1 | 1991 | 40.5 | 1998 | 0.8 | | |
| Norway | 1997 | 8.2 | 1994 | 49.9 | 1999 | 7.0 | 7.7 | 34.8 |
| Oman | | | | | 1998 | 2.9 | 3.9 | |
| Pakistan | 1993 | 0.9 | | | 1999 | 0.7 | | |
| Panama | 1996 | 4.3 | | | 1998 | 4.9 | | |
| Papua New Guinea | | | | •• | 1998 | 2.5 | | •• |
| Paraguay | | | | | 1998 | 1.7 | 4.5 | |
| Peru | 1996 | 1.2 | | ·· | 1998 | 2.4 | 3.2 | 11.0 |
| Philippines | 1993 | 1.0 | | | 1999 | 1.6 | 3.2 | |
| Poland | 1997 | 15.5 | 1995 | 61.2 | 1999 | 4.7 | 5.4 | •• |
| Portugal | 1997 | 10.0 | 1995 | 44.6 | 1999 | 5.1 | 5.7 | 27.9 |
| Puerto Rico | 1991 | | 1909 | | T330 | | | |
| | 1006 | 5.1 | 1004 | 24.1 | 1000 | | | •• |
| Romania | 1996 | 5.1 | 1994 | 34.1 | 1999 | 3.8 | 4.4 | •• |
| Russian Federation | 1996 | 5.7 | 1995 | 18.3 | 1997 | 4.6 | •• | •• |



2.10 | Enhancing security

| | | Public exp on pens | | | Public exp on he | | | kpenditure ucation ^a |
|------------------------------|------|-----------------------|------|---|---------------------|-------------|----------------------------|--|
| | Year | % of GDP | Year | Average pension % of per capita income | Year | % of GDP | % of GDP 1998 | Per student % of GDP per capita 1998 |
| Rwanda | Teal | | Teal | · · | 1998 | 2.0 | | |
| Saudi Arabia | | | | •• | 1998 | 6.4 | •• | •• |
| Senegal | 1998 | 1.5 | | | 1998 | 2.6 | 3.5 | 24.1 |
| Sierra Leone | 1990 | | | •• | 1998 | 0.9 | 1.0 | |
| Singapore | 1996 | 1.4 | | •• | 1998 | 1.2 | | •• |
| | 1996 | 9.1 | 1994 | 44.5 | 1998 | 5.7 | 4.3 | 20.7 |
| Slovak Republic | | | | | | | | |
| Slovenia | 1996 | 13.6 | 1996 | 49.3 | 1998 | 6.7 | 5.8 | 29.3 |
| Somalia | | | | | 1000 | | | |
| South Africa | 4007 | | 1005 | | 1998 | 3.3 | 6.1 | 19.6 |
| Spain | 1997 | 10.9 | 1995 | 54.1 | 1998 | 5.4 | 4.5 | 23.3 |
| Sri Lanka | 1996 | 2.4 | | | 1999 | 1.7 | | |
| Sudan | | | | | 1997 | 0.7 | 3.7 | 30.1 |
| Swaziland | | •• | | | 1998 | 2.5 | 6.1 | 21.9 |
| Sweden | 1997 | 11.1 | 1994 | 78.0 | 1998 | 6.6 | 8.0 | 34.2 |
| Switzerland | 1997 | 13.4 | 1993 | 44.4 | 1998 | 7.6 | 5.5 | 31.7 |
| Syrian Arab Republic | 1991 | 0.5 | | | 1998 | 0.9 | | |
| Tajikistan | 1996 | 3.0 | | | 1998 | 5.2 | | |
| Tanzania | | | | | 1998 | 1.3 | 2.1 | |
| Thailand | | | | | 1998 | 1.9 | 4.7 | 20.0 |
| Togo | 1997 | 0.6 | 1993 | 178.8 | 1998 | 1.3 | 4.5 | 15.8 |
| Trinidad and Tobago | 1996 | 0.6 | | | 1998 | 2.5 | •• | |
| Tunisia | 1991 | 2.6 | 1991 | 89.5 | 1998 | 2.2 | 7.6 | 26.5 |
| Turkey | 1997 | 4.5 | 1993 | 112.7 | 1999 | 3.3 | •• | |
| Turkmenistan | 1996 | 2.3 | | | 1998 | 4.1 | •• | |
| Uganda | 1997 | 0.8 | | | 1998 | 1.9 | 1.6 | 4.6 |
| Ukraine | 1996 | 8.6 | 1995 | 30.9 | 1999 | 2.9 | 4.4 | 25.6 |
| United Arab Emirates | | | | | 1998 | 0.8 | 1.9 | 10.7 |
| United Kingdom | 1997 | 10.3 | | | 1999 | 5.8 | 4.7 | 18.8 |
| United States | 1997 | 7.5 | 1989 | 33.0 | 1999 | 5.7 | 5.0 | 22.5 |
| Uruguay | 1996 | 15.0 | 1996 | 64.1 | 1998 | 1.9 | 2.5 | 11.4 |
| Uzbekistan | 1995 | 5.3 | 1995 | 45.8 | 1998 | 3.4 | | |
| Venezuela, RB | 1990 | 0.5 | | | 1998 | 2.6 | | |
| Vietnam | 1998 | 1.6 | | | 1998 | 0.8 | | |
| West Bank and Gaza | | | | | 1996 | 4.9 | | |
| Yemen, Rep. | 1994 | 0.1 | | | 1997 | 2.4 | 6.7 | 31.5 |
| Yugoslavia, FR (Serb./Mont.) | | | | | | | 4.2 | 31.5 |
| Zambia | 1993 | 0.1 | | | 1998 | 3.6 | 2.3 | 12.0 |
| Zimbabwe | | | | | 1999 | 3.0 | 10.8 | |

| World | 5.3 w | 4.5 m | 24.3 m |
|-------------------------|-------|-------|--------|
| Low income | 0.9 | 3.4 | 24.1 |
| Middle income | 2.9 | 4.5 | |
| Lower middle income | 2.7 | | |
| Upper middle income | 3.2 | 4.2 | 17.8 |
| Low & middle income | 2.5 | 4.1 | 22.2 |
| East Asia & Pacific | 1.8 | | |
| Europe & Central Asia | 4.4 | 4.4 | 25.7 |
| Latin America & Carib. | 2.8 | | |
| Middle East & N. Africa | 2.9 | •• | |
| South Asia | 0.9 | •• | |
| Sub-Saharan Africa | 2.0 | 3.6 | 23.4 |
| High income | 6.0 | 5.6 | 28.4 |
| Europe EMU | 6.7 | 4.8 | 27.6 |

a. Break in series between 1997 and 1998 due to change from ISCED76 to ISCED97. b. Data refer to 1999.

Enhancing security | 2.10

About the data

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 basic health care and education.

Public interventions and institutions can provide services directly to poor people, although whether these 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 goods 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.

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.

The lack 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 health care financing and delivery because the data on public spending often are not aggregated. The data in the table are the product of an effort 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.

The data on education spending in the table refer solely 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, local authorities, and so on). The share of gross domestic product (GDP) devoted to education can be interpreted as reflecting a country's effort in education. It often bears a weak relationship to measures of output of the education system, as reflected in educational attainment. The pattern in this relationship suggests wide variations across countries in the efficiency with which the government's resources are translated into education outcomes.

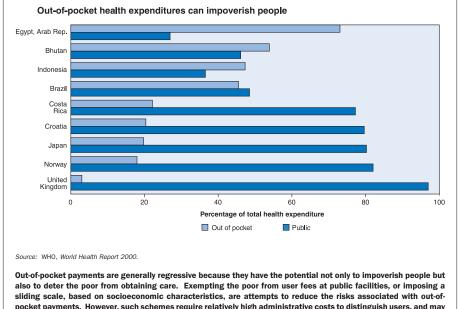
Definitions

- Public expenditure 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. • Public expenditure on health consists of recurrent and capital spending from government (central and local) budgets and social (or compulsory) health insurance funds.
- Public expenditure on education consists of public spending on public education plus subsidies to private education at the primary, secondary, and tertiary levels.

Data sources

The data on pension spending are drawn from Robert Palacios and Montserrat Pallares-Miralles's "International Patterns of Pension Provision" (2000). For updates and further notes and sources go to the World Bank's Web site on pensions (www.worldbank.org/ pensions). The estimates of health expenditure come from the World Health Organization's World Health Report 2000 and World Health Report 2001, from the Organisation for Economic Co-operation and Development for its member countries, from National Health Accounts of a country, from the web site The European Observatory on Health Care Systems (www.observatory.dk), supplemented by World Bank country and sector studies, including the Human Development Network's Sector Strategy: Health, Nutrition, and Population (World Bank 1997a). Data are also drawn from World Bank public expenditure reviews, the International Monetary Fund's Government Finance Statistics database, and other studies. The data on education expenditure are from the UNESCO Institute for Statistics.

Figure 2.10



pocket payments. However, such schemes require relatively high administrative costs to distinguish users, and may end up affecting only a small amount of total risk-related payments.

2.11 | Education inputs

| | | | Expenditure | per student | | | Expend on tead comper | chers' | Primary teachers with required academic qualifications | Primary pupil- teacher ratio ^b |
|--------------------------|-------------------------|------|-------------------------|-------------|---------|--------------------------|-----------------------------|-------------------|---|--|
| | Prima % o GDP per | f | Secon % o GDP per | of | % | tiary of er capita | % of to | ducation | % of total | pupils per teacher |
| | 1980 | 1997 | 1980 | 1997 | 1980 | 1997 | 1980 | 1997 | 1992-98ª | 1998 |
| Afghanistan | 10.8 | | 46.7 | | | | 46.8 | | 18 | |
| Albania | | | | | | | | | | |
| Algeria | 8.7 | | 23.2 | | | | 63.6 | 74.3 ° | 93 | 28 |
| Angola | | | | | | | | | | |
| Argentina | | 9.0 | 11.0 | 16.2 | 29.8 | | | 84.1 | | 21 |
| Armenia | | | | | | 26.3 | | | 89 | |
| Australia | | 14.0 | 42.5 | 15.8 | 48.8 | 27.9 | | 54.1 ^d | | |
| Austria | 15.4 | 21.4 | 19.6 | 24.4 | 36.7 | 34.8 | 53.1 | 61.7 | | 13 |
| Azerbaijan | | 21.6 | | | | 17.3 | | | 100 | 19 |
| Bangladesh | | | 9.3 | | 33.9 | | 33.5 | | 68 | 59 |
| Belarus | | 45.8 | | 28.6 | | 17.7 | | | 100 | |
| Belgium | | 8.5 | 32.4 | 13.5 | 50.3 | 17.6 | 73.0 | 73.6 e | | |
| Benin | | 11.6 | | | | 244.2 | | | 100 | 53 |
| Bolivia | | 10.9 | | | | 53.3 | | | 64 | |
| Bosnia and Herzegovina | | | | | | | | | 84 | |
| Botswana | | | | | | | 54.9 | | | 28 |
| Brazil | | 11.0 | | | | | | | 83 | 33 |
| Bulgaria | 17.2 | 29.6 | | | 50.5 | 16.7 | | | 99 | 18 |
| Burkina Faso | | | 102.9 | | 2,938.5 | | 61.0 | 67.8 | 100 | 49 |
| Burundi | | | | | | | 74.3 | | | 46 |
| Cambodia | | | | | | | | | 91 | 48 |
| Cameroon | | | | | | | 65.4 | | 90 | 52 |
| Canada | | | | | 37.7 | | 52.2 | | | 18 |
| Central African Republic | | | 23.9 | | 938.8 | | | | | 99 |
| Chad | | 6.3 | | 24.0 | | 234.5 | | 64.4 | | 68 |
| Chile | 9.2 | 10.5 | 15.7 | 11.4 | 107.8 | 19.9 | 76.8 | | 96 | 27 |
| China | 3.8 | 6.5 | 12.4 | 11.5 | 246.2 | 65.3 | | | 95 | 21 |
| Hong Kong, China | | 7.8 | 8.2 | 12.6 | | | 72.9 | | | |
| Colombia | 5.2 | | 7.7 | 10.3 | 43.6 | 30.1 | 93.4 | 82.0 f | 90 | 23 |
| Congo, Dem. Rep. | | | | | | | | | | 26 |
| Congo, Rep. | | 10.7 | 15.4 | 5.7 | 334.4 | | 70.8 | | 100 | 61 |
| Costa Rica | | | 24.5 | 17.9 | 72.4 | | 50.2 | | 86 | |
| Côte d'Ivoire | | | | | 357.4 | | | | | 43 |
| Croatia | | | | | | | | | 94 | |
| Cuba | | 16.3 | | 34.0 | | 98.2 | 38.8 | | 100 | 13 |
| Czech Republic | | 13.0 | | 20.8 | | 33.7 | | 44.4 | | 18 |
| Denmark | | 24.1 | 11.0 | 34.2 | 48.7 | 49.2 | 49.3 | 43.1 | | 10 |
| Dominican Republic | | | 5.8 | 4.7 | | 9.3 | 62.2 | | | 37 |
| Ecuador | | | 12.5 | 15.0 | 23.0 | 34.4 | 77.4 | | 83 | 27 |
| Egypt, Arab Rep. | | | | | 54.1 | | | | 100 | 23 |
| El Salvador | | 7.0 | 13.9 | 5.5 | 138.4 | 7.7 | | | | |
| Eritrea | | 11.1 | | 11.9 | | | | | | 47 |
| Estonia | | | | 45.2 | | 37.9 | | | | 16 |
| Ethiopia | | 26.5 | | 71.2 | | 862.6 | 68.4 | | | |
| Finland | | 21.9 | 21.2 | 26.2 | 35.9 | 43.5 | 50.5 | 47.7 | | 17 |
| France | 11.7 | 15.8 | 19.7 | 26.4 | 28.6 | 27.6 | 68.1 | | | 19 |
| Gabon | | | | | | | | | 56 | 44 |
| Gambia, The | 18.4 | 13.5 | 43.2 | 29.0 | | | | | 100 | 33 |
| Georgia | | | | | | | | | 94 | 17 |
| Germany | | | | | | 37.0 | | | | 17 |
| Ghana | | | 10.3 | | | | 60.0 | | | |
| Greece | | | | 15.0 | | 22.1 | 84.8 | | ··· | 14 |
| Guatemala | | 6.1 | | 5.1 | | 30.7 | | 62.8 | | 38 |
| Guinea | | | | 27.9 | | 421.9 | | | | 47 |
| | •• | •• | •• | | •• | | •• | •• | ~ | |
| | 19.0 | | 63.5 | | | | 73.5 | | | |
| Guinea-Bissau Haiti | 19.0 | | 63.5 12.8 | | 128.6 | | 73.5 66.9 | | 86 | 31 |

Education inputs | 2.11



| | | | Expenditure | per student | | Expend on tead compen | chers' | Primary teachers with required academic qualifications | Primary pupil- teacher ratio ^b | |
|--|------------------------|-----------------------|------------------------|-------------------------|----------------------|-----------------------------|-----------------------|---|--|-----------------|
| | Prima | arv | Secor | ndarv | Te | rtiary | % of t | otal | | |
| | % c | | % (| - | | % of | current ed | ducation | % of | pupils per |
| | GDP per 1980 | capita 1997 | GDP per 1980 | r capita 1997 | GDP p 1980 | er capita 1997 | expend 1980 | diture 1997 | total 1992-98* | teacher 1998 |
| —————————————————————————————————————— | 13.7 | 17.9 | 25.5 | 17.6 | 83.8 | 30.4 | 45.2 | | | 11 |
| India | | 8.4 | 15.1 | 16.4 | 83.3 | 92.5 | | •• | 88 | 72 |
| Indonesia | | | | | | 12.3 | | | 94 | |
| Iran, Islamic Rep. | 22.6 | 8.0 | 36.4 | 10.8 | | 7.4 | | 47.4 g | 38 | |
| Iraq | | | 6.5 | | 87.5 | | | | | 22 |
| Ireland | 10.7 | 11.6 | 22.5 | 18.2 | 55.6 | 30.1 | 67.6 | 73.6 h | 100 | 22 |
| Israel | 15.6 | | 41.7 | | 71.6 | | 51.2 | | | 13 |
| Italy | | 21.7 | | 27.7 | | 20.6 | | 67.3 h | | 11 |
| Jamaica | 12.7 | 11.8 | | | 185.5 | | 65.6 | 64.1 | 100 | 31 |
| Japan | 14.6 | | 16.4 | | 20.7 | | 49.8 | | | 21 |
| Jordan | | | | | 61.7 | 75.8 | 70.5 | 70.4 | 47 | |
| Kazakhstan | | | | | | 21.3 | | | 98 | |
| Kenya | | | 35.2 | | 899.2 | | | | | 28 |
| Korea, Dem. Rep. | | | | | | | | | 100 | |
| Korea, Rep. | | 17.4 | 9.1 | 11.9 | 15.7 | 5.5 | 69.2 | | 100 | |
| Kuwait | | 23.6 | | 6.6 | 43.8 | 102.6 | 46.5 | | 100 | |
| Kyrgyz Republic | | | | 39.7 | | 48.2 | | | 95 | 24 |
| Lao PDR | | 6.5 | | 13.9 | | 61.0 | | 67.1 | 87 | 31 |
| Latvia | | | 16.1 | 51.3 | 13.6 | 33.1 | | 40.5 | 80 | 15 |
| Lebanon | | | | | | 23.1 | | | | 14 |
| Lesotho | 12.7 | 18.1 | 107.3 | 70.4 | 1,500.8 | 1,022.3 | 60.9 | 57.6 | 79 | 25 |
| Liberia | | | | | | | | | 90 | 39 |
| Libya | | | | | | | | | | 8 |
| Lithuania | | | | 27.8 | | 41.9 | | | | 17 |
| Macedonia, FYR | | | | 24.2 | | 61.5 | | | 100 | 22 |
| Madagascar | | | | | 397.9 | | 81.8 | | | 47 |
| Malawi | 7.0 | 8.2 | 89.2 | 25.4 | 1,685.7 | 1,492.0 | 43.4 | | | |
| Malaysia | | 10.7 | 20.5 | 17.2 | 140.9 | 53.6 | 57.5 | 58.6 | | 22 |
| Mali | 29.6 | 13.3 | 87.3 | 28.5 | | 369.4 | 51.0 | | | 62 |
| Mauritania | 28.8 | 10.1 | 167.6 | 56.1 | | 191.2 | | | | 47 |
| Mauritius | | 9.7 | 20.2 | 15.3 | 337.1 | 140.6 | 31.4 | | 100 | 26 |
| Mexico | 4.2 | | 10.0 | | 25.5 | | | | 84 | 27 |
| Moldova | | | | | | 60.6 | | | | |
| Mongolia | | | | | 95.5 | 45.9 | | | 97 | 32 |
| Morocco | | | 53.6 | 43.1 | 150.3 | 67.5 | | 78.0 | | 28 |
| Mozambique | | | | | •• | •• | | | | 61 |
| Myanmar | | | | | | | | | | 31 |
| Namibia | | | | 34.7 | | 103.4 | | | 25 | 32 |
| Nepal | | 9.3 | | 12.1 | 274.9 | 110.7 | 59.2 | | 96 | 39 |
| Netherlands | 13.2 | 14.1 | 22.3 | 20.6 | 70.1 | 45.8 | 73.5 | | | |
| New Zealand | 14.7 | 16.6 | 13.4 | 22.1 | 58.5 | 42.4 | 82.7 | | | |
| Nicaragua | | 12.6 | | 6.4 | | | 66.7 | | 63 | |
| Niger | | | | 81.0 | | | | | | 41 |
| Nigeria | | | | | | | | | 90 | |
| Norway | | 27.6 | 14.5 | 18.7 | 37.1 | 45.1 | | | | |
| Oman | | 8.9 | | 16.4 | | 30.1 | | | | 25 |
| Pakistan | | | 17.1 | | | | | | 99 | 32 |
| Panama | | | 10.2 | 11.2 | 26.5 | 39.2 | 65.3 | | 100 | |
| Papua New Guinea | | | | | | | | | 100 | 36 |
| Paraguay | | 10.9 | | 12.0 | | 90.6 | | | 59 | 20 |
| Peru | 6.9 | 4.8 | 8.0 | 7.3 | 4.7 | 16.4 | 59.4 | 40.1 | 74 | 25 |
| Philippines | | 9.3 | 4.2 | 9.8 | 13.7 | 14.8 | | | 100 | |
| Poland | | 16.7 | | 15.9 | | 25.4 | | | | |
| Portugal | | 18.7 | 19.2 | 20.8 | 34.4 | 23.7 | | | 98 | |
| Puerto Rico | | | | | | | | | | |
| Romania | | 19.9 | | 8.7 | | 31.3 | | | 23 | 19 |
| Russian Federation | | | | | | | | | | |
| | | | | | | | | | | |



2.11 | Education inputs

| | | | Expenditure | per student | | | Expen on tea compe | chers' | Primary teachers with required academic qualifications | Primary pupil- teacher ratio ^b |
|-----------------------|------------------------|------|-----------------------|------------------|-----------------------|------------------|--------------------------|--------|---|--|
| | Prim | | Seco | ndary | | tiary | % of | total | | |
| | % 0 | | % | | | of | current e | | % of | pupils per |
| | GDP per 1980 | 1997 | GDP pe 1980 | r capita 1997 | GDP pe 1980 | r capita 1997 | expen 1980 | 1997 | total 1992-98ª | teacher 1998 |
| Rwanda | 11.1 | | 112.4 | | 902.7 | | 74.8 | | 47 | 54 |
| Saudi Arabia | | | | | 109.5 | 58.1 | | | 100 | 12 |
| Senegal | | | 68.5 | 63.8 | 432.5 | | | | 99 | 49 |
| Sierra Leone | | | | | | | | | •• | |
| Singapore | | | 12.4 | | 41.5 | 34.1 | 47.5 | | •• | 25 |
| Slovak Republic | | 21.8 | | 9.7 | | 29.3 | | 37.9 | 79 | 19 |
| Slovenia | | 20.6 | | 24.6 | | 37.9 | | 62.2 | | 14 |
| Somalia | | | | | | | | | | |
| South Africa | | | | | | | | 64.5 ° | | 37 |
| Spain | | 16.4 | | 21.1 | | 16.8 | | | | 15 |
| Sri Lanka | | | | | | 84.2 | | | 100 | |
| Sudan | | 45.6 | 601.0 | 38.0 | | | | | | 26 |
| Swaziland | | 8.6 | 35.3 | 23.0 | 139.5 | 229.8 | 86.3 | | 100 | 33 |
| Sweden | 41.7 | 26.2 | 14.0 | 31.4 | 33.9 | 66.6 | 46.4 | | | 12 |
| Switzerland | | 20.1 | 31.0 | 30.3 | 60.8 | 47.4 | 61.0 | 59.9 | | 13 |
| Syrian Arab Republic | | | 15.1 | 14.6 | 74.7 | | 57.8 | | | 23 |
| Tajikistan | | | | | | | | | | |
| Tanzania | | | | | | | | | | 38 |
| Thailand | 8.8 | 11.9 | 9.8 | 10.5 | 59.7 | 25.4 | 80.3 | 56.8 g | 84 | 21 |
| Togo | 7.7 | 8.8 | | 24.8 | 828.7 | 455.1 | 68.3 | 74.2 | | 41 |
| Trinidad and Tobago | | 4.8 | 12.4 | | 56.4 | | 73.2 | | 100 | 21 |
| Tunisia | | | 36.4 | 20.8 | 188.1 | 75.0 | 81.3 | 77.0 | | 24 |
| Turkey | | | 8.7 | | 96.3 | | | | 100 | |
| Turkmenistan | | | | | | | | | | |
| Uganda | | | | | | | | | | 60 |
| Ukraine | 2.1 | | 1.2 | | 2.0 | 22.4 | | | | |
| United Arab Emirates | | | | | | | | 30.2 | | 16 |
| United Kingdom | | 17.2 | 22.2 | 20.1 | 80.1 | 39.9 | 52.1 | 41.0 | | 19 |
| United States | | | 17.3 | | 47.8 | | | | | 15 |
| Uruguay | 8.9 | | 13.6 | 9.3 | 27.0 | 21.3 | 56.9 | 41.5 | 100 | 21 |
| Uzbekistan | | | | | | | | | | |
| Venezuela, RB | 5.8 | 2.1 | | 4.7 | 71.4 | | 68.8 | | | |
| Vietnam | | 7.3 | | | | 86.1 | | 66.0 | 77 | 30 |
| West Bank and Gaza | | | | | | | | | | |
| Yemen, Rep. | | | | | | | | | 74 | 30 |
| Yugoslavia, Fed. Rep. | | | | | | 71.1 | | | | 17 |
| Zambia | 9.8 | 4.7 | 56.4 | | | | 52.6 | | 71 | 45 |
| Zimbabwe | 19.5 | 19.3 | 103.8 | 34.6 | 326.8 | | 75.2 | 91.1 | 100 | |
| | | | | | | | | | | |

| W orld | m | m | m | m | m | m | 64.5 m | 62.0 m | 89 m | 25 w |
|-------------------------|---|------|------|------|------|------|--------|--------|------|------|
| Low income | | | | | | | 66.7 | 67.5 | 88 | 42 |
| Middle income | | | | | 66.5 | 40.8 | 65.3 | 58.6 | 91 | 22 |
| Lower middle income | | | | | | 38.1 | 65.6 | 64.1 | 91 | 22 |
| Upper middle income | | | | | 71.4 | | 61.4 | 47.8 | 87 | 28 |
| Low & middle income | | | | | | | 65.5 | 64.4 | 89 | 38 |
| East Asia & Pacific | | 8.3 | | | | 42.4 | 69.2 | 62.3 | 94 | 23 |
| Europe & Central Asia | | | | | | 31.3 | 45.2 | 40.5 | | |
| Latin America & Carib. | | | 12.4 | 8.4 | 56.4 | | 66.7 | 57.0 | 84 | 28 |
| Middle East & N. Africa | | | | | 87.5 | | 67.1 | 74.3 | 76 | 24 |
| South Asia | | | 16.1 | | 83.3 | 84.2 | 46.4 | | 87 | 66 |
| Sub-Saharan Africa | | | | | | | 65.4 | 67.8 | | |
| High income | | 18.7 | 19.6 | 20.4 | 45.8 | 36.9 | 52.6 | 57.3 | | 17 |
| Europe EMU | | | | | | | 67.9 | 67.4 | | 16 |

a. Data are for the most recent year available. b. Break in series between 1997 and 1998 due to change from ISCED76 to ISCED97. c. Not including tertiary education. d. Not including preprimary education. e. Flemish Community only. f. Ministry of Education only. g. Not including expenditure on universities. h. Data refer to expenditure on public institutions only. i. Not including expenditure on independent private institutions.

Education inputs | 2.11



About the data

Data on education are compiled by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) 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 have two to three years' time lag, but an effort is being made to shorten the delay. Coverage and data collection methods vary across countries and over time within countries and should be interpreted with caution. (For further discussion of the reliability of education data see Behrman and Rosenzweig 1994)

The data on education spending in the table refer solely 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 this criticism. 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.

Well-trained and motivated teachers are a critical input to education, but they come at a cost: teachers' compensation (gross salaries and other benefits) typically accounts for two-thirds of education spending. Teachers are defined here as including both full- and part-time teaching staff. Teachers assigned to nonteaching duties are excluded, but country reporting varies. Comparisons should thus be made with caution.

The share of teachers with required academic qualifications measures the quality of the teaching staff available in primary schools. 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, all of which may affect the quality of teaching. The qualifications are specified by the national authorities of each

country and may not relate specifically to teaching. Since the indicator is based on minimum national qualifications, which may vary greatly, care should be taken in comparing across countries.

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. 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 2.12). 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 (Behrman and Rosenzweig 1994).

The International Standard Classification of Education 1976 (ISCED76) was used for two decades as an instrument to assemble, compile and present education statistics. In 1998 ISCED97 was introduced and UNESCO's data collection program and country reporting of education statistics were adjusted to this new classification. The adjustments were made to facilitate the international compilation and comparison of educational statistics as well as to take into account new types of learning opportunities and activities available for both children and adults. Thus the time series data up to 1997 are not consistent with data for 1998 and after. Any time series analysis should therefore be made with extreme caution.

ISCED97 introduced a new level 4, "postsecondary nontertiary education". The students who fall into this category are not counted as either secondary or tertiary even though they are in the education system.

Definitions

- Expenditure per student is the public current spending on education divided by the total number of students by level, as a percentage of gross domestic product (GDP) per capita.
- Expenditure on teachers' compensation is the public expenditure on teachers' gross salaries and other benefits as a percentage of the total public current spending on education.
- Primary teachers with required academic qualifications refer to the percentage of primary school teachers with at least the minimum academic qualifications required by national public authorities for teaching in primary education. 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).

Data sources

International data on education are compiled by the UNESCO Institute for Statistics in cooperation with national commissions and national statistical services. Data on qualified teachers come from UNESCO's special data collection for the Education for All initiative.

Table 2.11a

Why the break in data? Comparing ISCED76 with ISCED97.

ISCED76

- O Education preceding the first level
- 1 Education at the first level
- 2 Education at the second level, first stage
- 3 Education at the second level, second stage
- 5 Education at the third level, first stage, of the type that leads to an award not equivalent to a first university degree
- 6 Education at the third level, first stage, of the type that leads to a first university degree or equivalent
- 7 Education at the third level, second stage of the type that leads to a post-graduate university degree or equivalent
- 9 Education not definable by level

1 Pi

0 Pre-primary education

ISCED97

- 1 Primary education or first stage of basic education
- 2 Lower secondary or second stage of basic education (2A, 2B and 2C)
- 3 Upper secondary education (3A, 3B, 3C)
- 4 Postsecondary non-tertiary education (4A, 4B)
- 5 First stage of tertiary education not leading directly to an advanced research qualification (5A, 5B)
- 6 Second stage of tertiary education leading to an advanced research qualification

ISCED97 provides an improved set of definitions and criteria aiming to ensure international comparability in the classification of educational programs by level and field of education. It includes seven levels of education while the earlier version had eight levels. Other differences are that a new level 4 'post-secondary non-tertiary education' has been introduced while level 9 has been deleted.



2.12 | Participation in education

Gross enrollment ratio^a

Net enrollment ratio^{a, b}

| | Preprimary % of relevant | Primary % of relevant age group | | Secor % of re | levant | Terti % of re | levant | Prin % of re | levant | % of re | ndary elevant |
|--------------------------|--------------------------|---------------------------------------|------------|----------------------|----------|----------------------|---------|-----------------|----------|---------|----------------------|
| | age group 1998 | 1980 | 1998 | age g 1980 | 1998 | age g 1980 | 1998 | age g | 1998 | 1980 | group 1998 |
| Afghanistan | | 34 | | 10 | | | | 29 | | | |
| Albania | | 113 | | 67 | | 5 | | | | | |
| Algeria | 2 | 94 | 109 | 33 | 66 | 6 | 15 | 81 | 94 | 31 | 58 |
| Angola | | 175 | 91 | 21 | 16 | 0 ° | 1 | | 57 | | |
| Argentina | 57 | 106 | 120 | 56 | 89 | 22 | 47 | | 107 | | 74 |
| Armenia | | | | | | | | | | | |
| Australia | | 112 | | 71 | | 25 | | 102 | | 70 | |
| Austria | 80 | 99 | 100 | 93 | 96 | 22 | 50 | 87 | 88 | | |
| Azerbaijan | 19 | 115 | 103 | 95 | 84 | 24 | 22 | | 96 | | 82 |
| Bangladesh | 31 | 61 | 122 | 18 | 47 | 3 | 5 | | 104 | | |
| Belarus | | 104 | | 98 | | 39 | | | | | |
| Belgium | | 104 | | 91 | | 26 | | 97 | | | |
| Benin | 5 | 67 | 84 | 16 | 21 | 1 | 3 | | | | 16 |
| Bolivia | | 87 | | 37 | | 15 | | 79 | 97 | 16 | |
| Bosnia and Herzegovina | | | | | | | | | | | |
| Botswana | | 91 | 105 | 19 | 77 | 1 | 4 | 76 | 81 | 14 | 57 |
| Brazil | 55 | 98 | 154 | 33 | 83 | 11 | 14 | 80 | 98 | 14 | |
| Bulgaria | 63 | 98 | 101 | 84 | 87 | 16 | 43 | 96 | 93 | 73 | 81 |
| Burkina Faso | 2 | 17 | 42 | 3 | 10 | 0 ° | | 15 | 34 | | 9 |
| Burundi | 1 | 26 | 51 | 3 | 7 | 0 ° | 1 | 20 | 38 | | |
| Cambodia | 6 | 139 | 119 | | 22 | 0 ° | 1 | | 104 | •• | 20 |
| Cameroon | 12 | 98 | 90 | 18 | 20 | 2 | 5 | | | 15 | |
| | 66 | 99 | 97 | | 105 | 57 | | | | | 94 |
| Canada | | | | 88 | | | 58 2 | | 96 | | |
| Central African Republic | | 71 | 57 | 14 | | 1 | | 56 | 53 | | |
| Chad | 7.4 | | 67 | | 11 | | | | 55 | •• | 7 |
| Chile | 74 39 | 109 | 106 107 | 53 46 | 85 62 | 12 | 34 6 | | 88 91 | | 70 50 |
| China Hang Kang China | | 113 | | 64 | | 10 | | 95 | | | |
| Hong Kong, China | 2F | | | | F2 | 9 | | | | 61 | •• |
| Colombia Congo Dom Dom | 35 | 112 | 112 | 39 | 53 | | | | 87 | | |
| Congo, Dem. Rep. | | 92 | 46 | 24 | 18 | 1 | 1 | | 32 | •• | 12 |
| Congo, Rep. | 2 | 141 | 57 | 74 | | 5 | •• | 96 | •• | | |
| Costa Rica | | 105 | | 47 | | 21 | | 89 | | 39 | •• |
| Côte d'Ivoire | 3 | 75 | 78 | 19 | 23 | 3 | 7 | •• | 59 | •• | •• |
| Croatia | | | | 77 | | 19 | | | | •• | |
| Cuba | 96 | 106 | 100 | 81 | 79 | 17 | 19 | 95 | 97 | •• | 75 |
| Czech Republic | 90 | 95 | 104 | 99 | 82 | 17 | 26 | | 90 | | 79 |
| Denmark | 93 | 95 | 103 | 105 | 126 | 28 | 55 | 95 | 101 | 88 | 89 |
| Dominican Republic | 34 | 118 | 133 | 42 | 66 | | | | 87 | | 53 |
| Ecuador | 63 | 117 | 113 | 53 | 56 | 35 | | | 97 | | 46 |
| Egypt, Arab Rep. | 10 | 73 | 100 | 50 | 81 | 16 | 39 | | 92 | | |
| El Salvador | 40 | 75 | 111 | 24 | 50 | 9 | 18 | | 81 | | 37 |
| Eritrea | 5 | | 53 | | 24 | | 1 | | 34 | | 19 |
| Estonia | 90 | 103 | 101 | 127 | 104 | 25 | 47 | | 96 | | 77 |
| Ethiopia | 2 | 37 | 63 | 9 | 17 | 0 ° | 1 | | 35 | | 16 |
| Finland | 48 | 96 | 99 | 100 | 121 | 32 | 83 | | 99 | | 95 |
| France | 83 | 111 | 105 | 85 | 111 | 25 | 51 | 100 | 100 | 79 | 94 |
| Gabon | | | 154 | | 55 | | 8 | | | | |
| Gambia, The | 26 | 53 | 81 | 11 | 31 | | | 50 | 61 | | 23 |
| Georgia | 28 | 93 | 95 | 109 | 79 | 30 | 34 | | | | 78 |
| Germany | 94 | | 105 | | 98 | | 46 | | 87 | | 88 |
| Ghana | | 79 | | 41 | | 2 | | | | | |
| Greece | 70 | 103 | 97 | 81 | 96 | 17 | 50 | 96 | 95 | | 86 |
| Guatemala | 47 | 71 | 102 | 19 | 33 | 8 | | 59 | 83 | 13 | |
| Guinea | | 36 | 59 | 17 | 15 | 5 | | | 46 | | 13 |
| | | 00 | | C | | | | 47 | | 3 | |
| Guinea-Bissau | | 68 | | 6 | •• | •• | •• | 47 | | 3 | •• |
| Guinea-Bissau Haiti | 63 | 77 | 152 | 14 | | 1 | | 38 | 80 | | |

Participation in education | 2.12



Gross enrollment ratio^a

Net enrollment ratio^{a, b}

| | Preprimary % of relevant | of relevant % of relevant age group | | Secor % of re age g | levant | Terti % of re age g | levant | Prim % of re age g | levant | Seco % of re age g | levant |
|--------------------|--------------------------|-------------------------------------|-------------|---------------------------|------------------|---------------------------|--------|--------------------------|--------|--------------------------|--------|
| | 1998 | 1980 | 1998 | 1980 | 1998 | 1980 | 1998 | 1980 | 1998 | 1980 | 1998 |
| Hungary | 106 | 96 | 103 | 70 | 98 | 14 | 34 | 95 | 82 | | 85 |
| India | 29 | 83 | 100 | 30 | 49 | 5 | | | | | 39 |
| Indonesia | •• | 107 | | 29 | | 4 | | 88 | | | |
| Iran, Islamic Rep. | •• | 87 | | 42 | | | | | | | |
| Iraq | 11 | 113 | 88 | 57 | 20 | 9 | 13 | 99 | 80 | 47 | 31 |
| Ireland | 3 | 100 | 141 | 90 | 109 | 18 | 45 | 90 | 104 | 78 | 77 |
| Israel | 77 | 95 | 107 | 73 | 89 | 29 | 49 | | 95 | | 85 |
| Italy | 95 | 100 | 102 | 72 | 95 | 27 | 47 | | 101 | | 88 |
| Jamaica | 83 | 103 | 98 | 67 | 90 | 7 | 9 | 96 | 92 | 64 | 79 |
| Japan | 83 | 101 | 102 | 93 | 102 | 31 | 44 | 101 | 102 | 93 | |
| Jordan | 20 | 82 | 69 | 59 | 66 | 13 | | 73 | 64 | 53 | 60 |
| Kazakhstan | 14 | 84 | 97 | 93 | 87 | 34 | 23 | | | | 74 |
| Kenya | 39 | 115 | 92 | 20 | 31 | 1 | 1 | 91 | | | |
| Korea, Dem. Rep. | | | | | | | | | | | |
| Korea, Rep. | | 110 | | 78 | | 15 | | 104 | | 70 | |
| Kuwait | | 102 | | 80 | | 11 | | 85 | | | |
| Kyrgyz Republic | 14 | 116 | 104 | 110 | 86 | 16 | 30 | | 85 | | |
| Lao PDR | 7 | 113 | 111 | 21 | 33 | 0 ° | 3 | | 76 | | 27 |
| Latvia | 54 | 102 | 103 | 99 | 87 | 24 | 51 | | 94 | | 83 |
| Lebanon | 64 | 111 | 110 | 59 | 89 | 30 | 38 | | 78 | | 76 |
| Lesotho | 20 | 103 | 102 | 18 | 32 | 1 | 2 | 67 | 60 | 13 | 14 |
| Liberia | 48 | 48 | 83 | 22 | 24 | | 7 | | 41 | | |
| Libya | 4 | 125 | 153 | 76 | 77 | 8 | 57 | | | 62 | 71 |
| Lithuania | 50 | 79 | 101 | 114 | 90 | 35 | 41 | | 94 | | 85 |
| Macedonia, FYR | 27 | 100 | 103 | 61 | 83 | 28 | 22 | | 96 | | 79 |
| Madagascar | | 130 | 93 | | 16 | 3 | 2 | | 63 | | 13 |
| Malawi | | 60 | | 5 | | 0 ° | 0 | 43 | | | 7 |
| Malaysia | 55 | 93 | 99 | 48 | 98 | 4 | | | 98 | | 93 |
| Mali | 2 | 26 | 53 | 8 | 14 | 1 | 2 | 20 | 42 | | |
| Mauritania | •• | 37 | 83 | 11 | 18 | | 6 | | 60 | | |
| Mauritius | 100 | 93 | 108 | 50 | 71 | 1 | 7 | 79 | 93 | | 63 |
| Mexico | 76 | 120 | 114 | 49 | 71 | 14 | 18 | | 102 | | 56 |
| Moldova | •• | 83 | | 78 | | 30 | | | | | |
| Mongolia | 24 | 107 | 94 | 92 | | 22 | 25 | | 85 | | 53 |
| Morocco | 69 | 83 | 97 | 26 | 40 | 6 | 9 | 62 | 79 | 20 | |
| Mozambique | | 99 | 71 | 5 | 9 | 0 ° | 1 | 36 | 41 | | 7 |
| Myanmar | 3 | 91 | 114 | 22 | 36 | 5 | | | | | |
| Namibia | | | 126 | | 59 | | 7 | | 86 | | 31 |
| Nepal | | 86 | 114 | 22 | 48 | 3 | 3 | | | | |
| Netherlands | 98 | 100 | 108 | 93 | 125 ^d | 29 | 49 | 93 | 100 | 81 | 93 |
| New Zealand | | 111 | | 83 | | 27 | | | | 81 | |
| Nicaragua | | 94 | | 41 | | 12 | | 70 | | 22 | |
| Niger | 1 | 25 | 31 | 5 | 7 | О с | | 21 | 26 | 4 | 6 |
| Nigeria | | 109 | | 18 | | 3 | | | | | |
| Norway | 77 | 99 | 102 | 94 | 121 | 25 | 65 | 98 | 102 | 84 | 96 |
| Oman | 10 | 51 | 75 | 12 | 67 | О с | | 43 | 66 | 10 | 58 |
| Pakistan | 8 | 40 | 86 | 14 | 37 | | | | | | |
| Panama | | 106 | | 61 | | 21 | | 89 | | 46 | |
| Papua New Guinea | 20 | 59 | 85 | 12 | 22 | 2 | 2 | | 85 | | 22 |
| Paraguay | 77 | 106 | 115 | 27 | 51 | 9 | | 89 | 92 | | 42 |
| Peru | 60 | 114 | 126 | 59 | 81 | 17 | 29 | 86 | 103 | | 61 |
| Philippines | | 112 | | 64 | | 24 | 28 | 94 | | 45 | |
| Poland | | 100 | | 77 | | 18 | | 98 | | 70 | |
| Portugal | 67 | 123 | 124 | 37 | 113 ^d | 11 | 45 | 98 | 108 | | 88 |
| Puerto Rico | | | | | | 42 | | | | | |
| Romania | 132 | 104 | 103 | 94 | 80 | 12 | | | 94 | | 76 |
| Russian Federation | ** | 102 | | 96 | | 46 | | | | | |
| | | | | | | | | | | | |





2.12 | Participation in education

Gross enrollment ratioa

Net enrollment ratio^{a, b}

| | Preprimary % of relevant age group | of relevant % of relevant | | Secor % of re age g | levant roup | Terti % of re age g | levant roup | % of reage g | | age g | elevant group |
|-----------------------|--|---------------------------|-----|---------------------------|------------------|---------------------------|----------------|--------------|------|-------|------------------|
| | 1998 | | | 1980 | 1998 | 1980 | 1998 | 1980 | 1998 | 1980 | 1998 |
| Rwanda | | 63 | 114 | 3 | 9 | O ° | 1 | 59 | 91 | | |
| Saudi Arabia | 5 | 61 | 71 | 29 | 66 | 7 | 19 | 49 | 59 | 21 | |
| Senegal | 3 | 46 | 70 | 11 | 20 | 3 | 4 | 37 | 59 | | |
| Sierra Leone | | 52 | | 14 | | 1 | | | | | |
| Singapore | | 108 | 92 | 60 | 67 | 8 | | 99 | | | |
| Slovak Republic | 80 | | 101 | | 86 | | 27 | | | | |
| Slovenia | 72 | 98 | 98 | | 99 | 20 | 53 | | 94 | | 89 |
| Somalia | | 21 | | 9 | | | | 16 | | 5 | |
| South Africa | 26 | 90 | 127 | | 104 | | 17 | | | | |
| Spain | 75 | 109 | 108 | 87 | 113 | 23 | 56 | 102 | 105 | 74 | 92 |
| Sri Lanka | | 103 | 111 | 55 | 71 | 3 | | | 102 | | |
| Sudan | 24 | 50 | 56 | 16 | 29 | 2 | 7 | | 46 | | |
| Swaziland | | 103 | 117 | 38 | 56 | 4 | 5 | 80 | 77 | | 35 |
| Sweden | 77 | 97 | 111 | 88 | 161 ^d | 31 | 63 | | 103 | | 100 |
| Switzerland | 89 | 84 | 102 | 94 | 94 | 18 | 35 | 79 | 94 | 78 | 83 |
| Syrian Arab Republic | 9 | 100 | 104 | 46 | 42 | 17 | 6 | 89 | 93 | 39 | 38 |
| Tajikistan | | | | | | 24 | | | | | |
| Tanzania | | 93 | 65 | 3 | | 0 ° | 1 | 68 | 48 | | 4 |
| Thailand | 92 | 99 | 94 | 29 | 88 | 15 | 30 | | 77 | | 55 |
| Togo | 3 | 118 | 124 | 33 | 33 | 2 | 4 | | 88 | | 23 |
| Trinidad and Tobago | 12 | 99 | 102 | 69 | 80 | 4 | 6 | 90 | 93 | | 72 |
| Tunisia | 14 | 102 | 119 | 27 | 73 | 5 | 17 | 82 | 98 | 23 | 55 |
| Turkey | 7 | 96 | | 35 | 70 | 5 | 14 | | 100 | | |
| Turkmenistan | | | | | | 22 | | | | | |
| Uganda | | 50 | 154 | 5 | 16 | 1 | 2 | | | | 9 |
| Ukraine | | 102 | | 94 | | 42 | | | | | |
| United Arab Emirates | 73 | 89 | 94 | 52 | 78 | 3 | 13 | 74 | 83 | | 70 |
| United Kingdom | 78 | 103 | 102 | 83 | 156 d | 19 | 58 | 97 | 102 | 79 | 94 |
| United States | 59 | 99 | 102 | 91 | 97 | 56 | 77 | | 95 | | 90 |
| Uruguay | 56 | 107 | 113 | 62 | 88 | 17 | 35 | | 92 | | 66 |
| Uzbekistan | | 81 | | 105 | | 28 | | | | | |
| Venezuela, RB | | 93 | | 21 | | 21 | | 82 | | 14 | |
| Vietnam | 39 | 109 | 110 | 42 | 61 | 2 | 11 | 95 | 97 | | 49 |
| West Bank and Gaza | | | | | | | | | | | |
| Yemen, Rep. | 1 | | 78 | | 45 | | 10 | | 61 | | 35 |
| Yugoslavia, Fed. Rep. | | | | | | | | | | | |
| Zambia | 3 | 90 | 86 | 16 | 27 | 1 | 3 | 77 | 73 | | 22 |
| Zimbabwe | | 85 | | 8 | | 1 | | | | | |

| World | 37 w | 97 w | 104 w | 49 w | 60 w | 13 w | W | w | w | w | w |
|-------------------------|------|------|--------------|------|------|------|----|---|----|---|----|
| Low income | 25 | 83 | 96 | 29 | 42 | 6 | | | | | |
| Middle income | 41 | 106 | 111 | 52 | 67 | 10 | 12 | | 92 | | |
| Lower middle income | 39 | 107 | 106 | 52 | 63 | 9 | 10 | | 91 | | 51 |
| Upper middle income | 48 | 102 | 129 | 50 | 81 | 13 | 19 | | 97 | | |
| Low & middle income | 34 | 96 | 104 | 41 | 56 | 8 | | | | | |
| East Asia & Pacific | 40 | 111 | 107 | 44 | 62 | 4 | 8 | | 91 | | 51 |
| Europe & Central Asia | | 99 | | 86 | | 31 | | | | | |
| Latin America & Carib. | 60 | 105 | 130 | 42 | 75 | 14 | 20 | | 97 | | |
| Middle East & N. Africa | 17 | 87 | 97 | 42 | 60 | 11 | 22 | | 83 | | |
| South Asia | 27 | 77 | 101 | 27 | 48 | 5 | | | | | 39 |
| Sub-Saharan Africa | | 80 | 78 | 15 | | 1 | 4 | | | | |
| High income | | 102 | | 87 | | 36 | | | | | |
| Europe EMU | | 106 | | 81 | | 24 | | | | | |

a. Break in series between 1997 and 1998 due to change from ISCED76 to ISCED97. b. Net enrollment ratios exceeding 100 percent indicate discrepancies between estimates of the school-age population and reported enrollment data. c. Less than 0.5. d. Includes training for the unemployed.

Participation in education | 2.12



About the data

School enrollment data are reported to the United Nations Educational, Scientific, and Cultural Organization (UNESCO) by national education authorities. Enrollment ratios help to monitor two important issues for universal primary education: an international development goal that implies achieving a net primary enrollment ratio of 100 percent; and gross enrollment ratios that help to assess whether an education system has sufficient capacity to meet the needs of universal primary education. Net enrollment ratios also show the proportion of children of primary school age who are enrolled in school and consequently also the proportion who are not in formal education.

Enrollment ratios, while a useful measure of participation in education, also have significant 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. Often the number of teachers paid by the government is related to the number of pupils enrolled. Behrman and Rosenzweig (1994), comparing official school enrollment data for Malaysia in 1988 with gross school attendance rates from a household survey, found that the official statistics systematically overstated enrollment.

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 their underage children in primary school may do so by overstating the age of the children. And in some education systems ages for children repeating a grade may be deliberately or inadvertently underreported.

As an international indicator, the gross primary enrollment ratio has been used to indicate broad levels of participation as well as school capacity. It has an inherent weakness: the length of primary education differs significantly across countries. A short duration tends to increase the ratio and a long duration to decrease it (in part because there are more dropouts among older children).

Other problems affecting cross-country comparisons of enrollment data stem from errors in estimates of school-age populations. Age-gender 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).

In using enrollment data, it is also important to consider repetition rates, which 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. A common error that may also distort enrollment ratios is the lack of distinction between new entrants and repeaters, which, other things equal, leads to underreporting of repeaters and overestimation of dropouts. Thus gross enrollment ratios provide an indication of the capacity of each level of the education system, but a high ratio does not necessarily indicate a successful education system. The net enrollment ratio excludes overage 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 1998, ISCED97 was introduced and UNESCO's data collection program and country reporting of education statistics were adjusted to this new classification. This was to facilitate the international compilation and comparison of educational statistics, as well as to take into account new types of learning opportunities and activities available for both children and adults. Thus the time series data up to 1997 are not consistent with data for 1998 and after. Any time series analysis should therefore be made with extreme caution.

ISCED97 introduced a new level 4 labeled "post-secondary non-tertiary education". The students who fall into this category are not counted as either secondary or tertiary although they are in the education system.

The year shown in the table usually indicates the beginning of the school year but in most of the countries school year ends the following year.

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. Net enrollment ratio is the ratio of the number of children of official school age (as defined by the national education system) who are enrolled in school to the population of the corresponding official school age. Based on the International Standard Classification of Education 1976 (ISCED76) and 1997 (ISCED97), 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, whether or not leading to an advanced research qualification, normally requires, as a minimum condition of admission, the successful completion of education at the secondary level.

Data sources

The data are from the UNESCO Institute for Statistics.



2.13 | Education efficiency

| | | Net intake rate in grade 1 | | Percentage reaching | e of cohort grade 5 | | | Primary completion ra | ite | Ave | earge years schooling | of |
|---------------------------------|---------------------|----------------------------|-------------------|------------------------|------------------------|--------------------|------------------|--|----------------------------------|----------------------|--------------------------|--------------------|
| | | hool-age lation | | % of grade o | h grade 5 | | | % of all childre who complete primary school | ; | | | |
| | Male 1998 | Female 1998 | Ma 1980 | 1997 | Fema 1980 | ale 1997 | Total 1992-2000° | Male 1992-2000 ^a | Female 1992-2000 ^a | Total 2000 | Male 2000 | Female 2000 |
| Afghanistan | | | 62 | | 61 | | 8 | 15 | 0 | 1.7 | 2.6 | 0.8 |
| Albania | 97 | 103 | | 81 | | 83 | 89 | 84 | 95 | | | |
| Algeria | 78 | 75 | 90 | 93 | 85 | 95 | 91 | 93 | 88 | 5.4 | 6.2 | 4.5 |
| Angola | 27 | 22 | | | | | | | | | | |
| Argentina | 107 | 105 | | 70 | | 70 | 96 | 97 | 98 | 8.8 | 8.8 | 8.9 |
| Armenia | | | | | | | 82 | | | | | |
| Australia | | | | | | | | | | 10.9 | 11.2 | 10.7 |
| Austria | | | | | | | | | | 8.4 | 9.2 | 7.6 |
| Azerbaijan | 12 | 13 | | | | | 101 | 103 | 100 | | | |
| Bangladesh | 95 | 91 | 18 | | 26 | | 70 | 68 | 72 | 2.6 | 3.3 | 1.8 |
| Belarus | | | | | | | 93 | 95 | 92 | | | |
| Belgium | | | 75 | | 77 | | | | | 9.3 | 9.6 | 9.1 |
| Benin | | | 59 | 64 | 62 | 57 | 39 | 52 | 25 | 2.3 | 3.3 | 1.4 |
| Bolivia | | | | | | | 77 | 80 | 75 | 5.6 | 6.1 | 5.1 |
| Bosnia and Herzegovina | | | | | | | 88 | | | | | |
| Botswana | 20 | 23 | 80 | 87 | 84 | 93 | 102 | 96 | 107 | 6.3 | 6.2 | 6.3 |
| Brazil | 73 | 65 | | •• | | | 71 | | | 4.9 | 5.4 | 4.4 |
| Bulgaria | | | | | 7.4 | | 92 | 92 | 92 | •• | | |
| Burkina Faso | 22 | 15 | 76 | 74 | 74 | 77 | 25 | 29 | 20 | | | |
| Burundi | 27 | 23 | 100 | | 96 | | 43 | 45 | 41 | | | |
| Cambodia | 80 | 77 | 70 | 51 | | 46 | 60 | 68 | 51 | 2.F | | |
| Cameroon | •• | •• | 70 | •• | 69 | | 43 | •• | •• | 3.5 | 4.2 | 2.9 |
| Canada Central African Republic | | •• | 63 | •• | 50 | •• | 19 | •• | •• | 11.6 2.5 | 11.7 3.4 | 11.6 |
| Chad | 27 | 19 | | 62 | | 53 | 19 | 26 | 10 | | | |
| Chile | 37 | 38 | | 100 | | 100 | 92 | 92 | 92 | 7.5 | 7.6 | 7.5 |
| China | | | •• | 93 | | 94 | 108 | 111 | 106 | 6.4 | 7.6 | 5.1 |
| Hong Kong, China | •• | | 98 | | 99 | | | | | 9.4 | 9.9 | 8.9 |
| Colombia | 56 | 55 | | 70 | | 76 | 85 | 84 | 87 | 5.3 | 4.9 | 5.7 |
| Congo, Dem. Rep. | 20 | 22 | 56 | | 59 | | 40 | | | 3.0 | 4.1 | 2.0 |
| Congo, Rep. | 11 | 10 | 81 | 40 | 83 | 78 | 44 | 45 | 43 | 5.1 | 5.8 | 4.6 |
| Costa Rica | 58 | 60 | 77 | 86 | 82 | 89 | 89 | 91 | 87 | 6.0 | 6.1 | 6.0 |
| Côte d'Ivoire | 34 | 27 | | 77 | | 71 | 40 | 50 | 31 | | | |
| Croatia | | | | | | | 79 | 80 | 79 | | | |
| Cuba | 90 | 90 | | | | | | | | | | |
| Czech Republic | | | | | | | 109 | 110 | 107 | | | |
| Denmark | | | 99 | 100 | 99 | 99 | | | | 9.7 | 9.8 | 9.5 |
| Dominican Republic | 59 | 60 | | | | | 82 | 78 | 86 | 4.9 | 4.9 | 5.0 |
| Ecuador | 82 | 83 | | 84 | | 86 | 96 | 96 | 96 | 6.4 | 6.4 | 6.4 |
| Egypt, Arab Rep. | | | 92 | | 88 | | 99 | 104 | 92 | 5.5 | 6.5 | 4.5 |
| El Salvador | 54 | 55 | 17 | 76 | 16 | 77 | 76 | 77 | 75 | 5.2 | 5.2 | 5.1 |
| Eritrea | 18 | 16 | | 73 | | 67 | 35 | 43 | 28 | | | |
| Estonia | | | | 96 | | 97 | 88 | 89 | 86 | | | |
| Ethiopia | 25 | 20 | 50 | 51 | 51 | 50 | 24 | 31 | 18 | | | |
| Finland | | | | 100 | | 100 | | | | 10.0 | 10.2 | 9.8 |
| France | | | | | | | | | | 7.9 | 8.1 | 7.6 |
| Gabon | 62 | 63 | 57 | 58 | 56 | 61 | 80 | 79 | 80 | | | |
| Gambia, The | 10 | 10 | 74 | 78 | 71 | 83 | 70 | 80 | 60 | 2.3 | 3.0 | 1.6 |
| Georgia | | | | | | | 90 | | | | | |
| Germany | | | | | | | | | | 10.2 | 10.5 | 9.9 |
| Ghana | | | | | | | 64 | | | 3.9 | 5.7 | 2.2 |
| Greece | | | 99 | | 98 | | | | | 8.7 | 9.8 | 7.6 |
| Guatemala | 59 | 56 | | 52 | | 47 | 56 | 63 | 50 | 3.5 | 3.8 | 3.1 |
| Guinea | 23 | 20 | | | | | 34 | 49 | 19 | | | |
| Guinea-Bissau | | | 25 | | 17 | | 31 | | | 0.8 | 0.9 | 0.7 |
| Haiti | 37 | 48 | 20 | | 21 | | | | | 2.8 | 3.5 | 2.1 |
| Honduras | 46 | 47 | | | | | 67 | 64 | 71 | 4.8 | 5.6 | 4.0 |

Education efficiency | 2.13



| | | ke rate in de 1 | e in Percentage of cohort reaching grade 5 | | | | | Primary completion ra | ite | | earge years schooling | of |
|--------------------|---------------------|---------------------|--|--------------------|---------------------|--------------------|-------------------------------------|---|----------------------------------|----------------------|--------------------------|----------------|
| | | hool-age llation | | % of grade o | | | | % of all childre who complete primary schoo | | | | |
| | Male 1998 | Female 1998 | Ma 1980 | ale 1997 | Fema 1980 | ale 1997 | Total 1992-2000 ^a | Male 1992-2000 ^a | Female 1992-2000 ^a | Total 2000 | Male 2000 | Female 2000 |
| Hungary | | | 96 | | 97 | | 102 | | | 9.1 | 9.6 | 8.7 |
| India | | | | | | | 76 | 88 | 63 | 5.1 | 6.3 | 3.7 |
| Indonesia | | | | 88 | | 89 | 91 | 90 | 92 | 5.0 | 5.5 | 4.5 |
| Iran, Islamic Rep. | | | | | | | 92 | 95 | 89 | 5.3 | 6.1 | 4.5 |
| Iraq | 76 | 71 | | | | | 55 | 59 | 51 | 4.0 | 4.6 | 3.3 |
| Ireland | | | | | | | | | | 9.4 | 9.3 | 9.4 |
| Israel | | | | | | | | | | 9.6 | 9.8 | 9.4 |
| Italy | | | 99 | 98 | 99 | 99 | | | | 7.2 | 7.6 | 6.8 |
| Jamaica | | | | | | | 89 | 85 | 93 | 5.3 | 4.9 | 5.6 |
| Japan | | | 100 | | 100 | | | | | 9.5 | 9.9 | 9.1 |
| Jordan | 46 | 47 | 100 | | 98 | | | | | 6.9 | 7.7 | 6.0 |
| Kazakhstan | | | | | | | 100 | 99 | 101 | | | |
| Kenya | | | 60 | | 62 | | 58 | 58 | 57 | 4.2 | 4.7 | 3.7 |
| Korea, Dem. Rep. | | | | | | | | | | | | |
| Korea, Rep. | | | 94 | 98 | 94 | 99 | 96 | 95 | 98 | 10.8 | 11.7 | 10.0 |
| Kuwait | | | | | | | 70 | 69 | 71 | 7.1 | 7.2 | 6.9 |
| Kyrgyz Republic | | | | | | | 100 | | | | | |
| Lao PDR | 52 | 50 | | 57 | | 54 | 64 | 70 | 59 | | | |
| Latvia | | | | | | | 86 | | | | | |
| Lebanon | 14 | 14 | | | | | 70 | | | | | |
| Lesotho | 16 | 15 | 50 | 55 | 68 | 71 | 69 | 55 | 83 | 4.2 | 3.6 | 4.8 |
| Liberia | 48 | 31 | | | | | | | | 2.5 | 3.3 | 1.5 |
| Libya | | | | | | | | | | | | |
| Lithuania | | | | | | | 95 | 97 | 94 | | | |
| Macedonia, FYR | | | | 95 | | 95 | 91 | 94 | 87 | | | |
| Madagascar | 56 | 46 | | 49 | | 33 | 26 | 26 | 27 | | | |
| Malawi | | | 48 | 36 | 40 | 32 | 50 | 61 | 40 | 3.2 | 3.6 | 2.8 |
| Malaysia | 95 | 94 | 97 | | 97 | •• | 90 | 89 | 90 | 6.8 | 7.4 | 6.2 |
| Mali | | | | 92 | | 70 | 23 | 33 | 14 | 0.9 | 1.2 | 0.6 |
| Mauritania | | | | 61 | | 68 | 46 | 52 | 39 | | | |
| Mauritius | 27 | 27 | | 98 | | 99 | 111 | | | 6.0 | 6.5 | 5.6 |
| Mexico | 92 | 93 | | 85 | | 86 | 89 | 87 | 86 | 7.2 | 7.6 | 6.9 |
| Moldova | | | | | | | 81 | 82 | 81 | | | |
| Mongolia | | | | | | | 82 | 77 | 88 | | | |
| Morocco | 59 | 55 | 79 | 76 | 78 | 74 | 55 | 63 | 47 | | | |
| Mozambique | 13 | 12 | | 52 | | 39 | 36 | 43 | 29 | 1.1 | 1.4 | 0.8 |
| Myanmar | | | •• | | | | | | | 2.8 | 3.0 | 2.5 |
| Namibia | 63 | 67 | | 76 | | 82 | 90 | 86 | 94 | | | |
| Nepal | | | | | | | 57 | 70 | 42 | 2.4 | 3.4 | 1.5 |
| Netherlands | •• | | 94 | | 98 | | •• | •• | | 9.4 | 9.6 | 9.1 |
| New Zealand | •• | | 93 | 97 | 94 | 97 | | 61 | 70 | 11.7 | 12.0 | 11.5 |
| Nicaragua | 32 | 21 | 74 | 43 72 | 72 | 52 73 | 65 20 | 61 25 | 70 15 | 4.6 1.0 | 4.5 1.4 | 4.6 0.7 |
| Niger Nigeria | | | | | | | 67 | 75 | 59 | | | |
| Norway | •• | | 100 | 100 | 100 | 100 | | | | 11.8 | 12.2 | 11.6 |
| Oman | 57 | 56 | | 96 | | 96 | 76 | 76 | 76 | | | |
| Pakistan | 1 | 4 | | | | | | | | 3.9 | 5.1 | 2.5 |
| Panama | 83 | 69 | 74 | | 79 | | | | | 8.6 | 8.6 | 8.5 |
| Papua New Guinea | 108 | 97 | | 59 | | 60 | 59 | 64 | 53 | 2.9 | 3.3 | 2.4 |
| Paraguay | 70 | 72 | 58 | 77 | 58 | 80 | 86 | 85 | 87 | 6.2 | 6.3 | 6.1 |
| Peru | 97 | 96 | 78 | | 74 | | 90 | 90 | 89 | 7.6 | 8.0 | 7.1 |
| Philippines | | | | | | | 92 | | | 8.2 | 8.2 | 8.2 |
| Poland | | | | | | | 96 | | | 9.8 | 10.0 | 9.7 |
| Portugal | | | | | | | | | | 5.9 | 6.1 | 5.7 |
| Puerto Rico | | | | | | | | | | | | |
| Romania | | | | | | | 98 | | | | | |
| Russian Federation | | | | | | | 90 | 91 | 90 | | | |
| | •• | •• | •• | •• | •• | | | | | | | •• |

2.13 | Education efficiency

| | | ke rate in de 1 | | Percentage reaching | | | | Primary completion ra | ite | | arge years schooling | of |
|-------------------------|------|------------------------------|------|------------------------------------|------|------|------------|---|------------|-----------------|-------------------------|--------|
| | | hool-age lation Female | N | % of grade or who reach lale | | ile | Total | % of all childre who complete primary schoo Male | | Total | Male | Female |
| | 1998 | 1998 | 1980 | 1997 | 1980 | 1997 | 1992-2000ª | 1992-2000° | 1992-2000° | 2000 | 2000 | 2000 |
| Rwanda | | | 69 | | 74 | | | | | 2.6 | 3.0 | 2.2 |
| Saudi Arabia | 49 | 33 | 82 | 87 | 86 | 92 | 69 | 68 | 69 | | | |
| Senegal | 78 | | 89 | 89 | 82 | 85 | 41 | 48 | 34 | 2.6 | 3.1 | 2.0 |
| Sierra Leone | | | | | | | | | | 2.4 | 3.1 | 1.7 |
| Singapore | | | | | | | | | | 7.0 | 7.5 | 6.6 |
| Slovak Republic | | | | | | | 97 | 96 | 97 | 9.3 | | |
| Slovenia | | | | | | | 92 | 90 | 94 | 7.1 | | |
| Somalia | | | | | | | | | | | | |
| South Africa | 36 | 34 | | | | | 98 | 95 | 100 | 6.1 | 5.7 | 6.6 |
| Spain | | | 95 | | 94 | | | | | 7.3 | 7.4 | 7.1 |
| Sri Lanka | | | | 83 | | 84 | 100 | 98 | 102 | 6.9 | 7.2 | 6.6 |
| Sudan | | | 68 | 75 | 71 | 73 | 35 | 38 | 33 | 2.1 | 2.7 | 1.6 |
| Swaziland | 41 | 43 | 77 | 73 | 81 | 79 | 81 | 78 | 85 | 6.0 | 5.8 | 6.2 |
| Sweden | | •• | 98 | 97 | 98 | 97 | | •• | | 11.4 | 11.4 | 11.4 |
| Switzerland | | | 75 | | 74 | | | | | 10.5 | 11.1 | 9.9 |
| Syrian Arab Republic | 62 | 60 | 93 | 93 | 88 | 94 | 90 | 95 | 86 | 5.8 | 6.8 | 4.8 |
| Tajikistan | | | | | | | 95 | | | | | |
| Tanzania | 11 | 13 | 89 | 78 | 90 | 84 | 59 | 58 | 60 | 2.7 | 3.1 | 2.3 |
| Thailand | | | | | | •• | 84 | | | 6.5 | 7.0 | 6.0 |
| Togo | 43 | 38 | 59 | 79 | 44 | 60 | 63 | 86 | 41 | 3.3 | 4.6 | 2.1 |
| Trinidad and Tobago | 86 | 94 | 85 | 98 | 87 | 97 | 81 | 79 | 84 | 7.8 | 7.5 | 8.0 |
| Tunisia | 79 | 80 | 89 | 90 | 84 | 92 | 91 | 93 | 90 | 5.0 | 5.8 | 4.2 |
| Turkey | | | | | | | 92 | 95 | 89 | 5.3 | 6.2 | 4.3 |
| Turkmenistan | | | | | | | | | | | | |
| Uganda | | | | | | | 61 | 74 | 49 | 3.5 | 4.3 | 2.7 |
| Ukraine | | | | | | | 55 | 55 | 55 | | | |
| United Arab Emirates | 53 | 53 | 100 | 83 | 100 | 84 | 80 | 76 | 86 | | | |
| United Kingdom | | | | | | •• | | | | 9.4 | 9.5 | 9.4 |
| United States | •• | | •• | •• | •• | | •• | | | 12.0 | 12.1 | 12.0 |
| Uruguay | 49 | 49 | | 96 | | 99 | 98 | 95 | 101 | 7.6 | 7.2 | 7.9 |
| Uzbekistan | | | | | | | 100 | | | | | |
| Venezuela, RB | | | | 86 | | 92 | 78 | 77 | 79 | 6.6 | 6.5 | 6.8 |
| Vietnam | 78 | 83 | | •• | | | | | | | | |
| West Bank and Gaza | •• | | | •• | | | | | | | | |
| Yemen, Rep. | 32 | 21 | | | | | | | | | | |
| Yugoslavia, Fed. Rep. | | | | | | | 96 | | | | | |
| Zambia | 40 | 42 | 88 | | 82 | | 80 | | | 5.5 | 6.0 | 5.0 |
| Zimbabwe | | •• | | 78 | | 79 | 113 | 116 | 111 | 5.4 | 6.0 | 4.7 |
| World | W | W | W | w | w | w | 84 w | 90 w | 80 w | 6.4 w | 7.2 w | 5.7 w |
| Low income | | | | | | | 69 | 77 | 61 | 4.4 | 5.4 | 3.3 |
| Middle income | | | | | | | | | | 6.4 | 7.3 | 5.5 |
| Lower middle income | | | | 91 | | 92 | 101 | 104 | 99 | 6.3 | 7.3 | 5.2 |
| Upper middle income | 74 | 70 | | | | | | | | 6.9 | 7.3 | 6.5 |
| Low & middle income | | | | | | | 84 | 90 | 80 | 5.6 | 6.5 | 4.6 |
| East Asia & Pacific | | | | 92 | | 93 | 103 | 107 | 102 | 6.3 | 7.3 | 5.2 |
| Europe & Central Asia | | | | | | | | | | | | |
| Latin America & Carib. | 77 | 74 | | | | | | | | 6.0 | 6.3 | 5.8 |
| Middle East & N. Africa | | | | | | | 84 | 88 | 80 | 5.3 | 6.1 | 4.4 |
| South Asia | | | | | | | 74 | 84 | 63 | 4.7 | 5.8 | 3.4 |
| Sub-Saharan Africa | | | | | | | 53 | 59 | 48 | | | |
| High income | | | | | ··· | | | | | 10.0 | 10.2 | 9.8 |
| Europe EMU | | | | | ··· | | | | | 8.4 | 8.8 | 8.1 |
| | | •• | | •• | •• | | •• | •• | •• | J. - | 0.0 | 0.1 |

a. Data are for the most recent year available.

Education efficiency | 2.13



About the data

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

Low net intake rates in grade 1 reflect the fact that many children do not enter primary school at the official age, even though school attendance, at least through the primary level, is mandatory in all countries. Once enrolled, students drop out for a variety of reasons, including the low quality of schooling, 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 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.

UNESCO measures cohort survival to 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. However, it should be noted that the cohort survival rate does not guarantee these learning outcomes, and only indirectly reflects the quality of schooling. Measuring actual learning outcomes requires setting curriculum standards and measuring students' learning progress against those standards through standardized assessments, or tests.

The primary completion rate is being used increasingly by the World Bank as a core indicator of education system performance. Because it measures both education system coverage and student attainment, the primary completion rate is a more accurate indicator of human capital formation and school system quality and efficiency than are either gross or net enrollment

ratios. It is also the most direct measure of national progress toward the Millennium Development Goal of universal primary education.

The primary completion rate reflects the primary cycle as nationally defined, ranging from a very small number of countries with 3 or 4 years of primary education, to a majority of countries with 5 or 6 years, and a relatively small number of countries with 7 or 8 years. For any given country it is therefore consistent with the gross and net enrollment ratios. The numerator may include overage children who have repeated one or more grades of primary school but are now graduating successfully. For countries where the number of primary graduates is not reported, a proxy primary completion rate is calculated: the total number of students in the final year of primary school, minus the number of students who repeat the grade in a typical year, divided by the total number of children of official graduation age in the population.

Average years of schooling measure the educational attainment of the population ages 15 and over, which provides another indication of the human capital stock of the country. However, the data do not directly measure the human skills obtained in schools and, specifically, do not take account of differences in the quality of schooling across countries. Average years of schooling are computed using a perpetual inventory method. For further details, see Barro and Lee (2000).

Definitions

- Net intake rate in grade 1 is the number of new entrants in the first grade of primary education who are of official primary school entrance age, expressed as a percentage of the population of the corresponding age.
- Percentage of cohort reaching grade 5 is the share 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*). Primary completion rate is the total number of students successfully completing (or graduating from) the last year of primary school in a given year, divided by the total number of children of official graduation age in the population.
- Average years of schooling are the years of formal schooling received, on average, by adults ages 15 and over. Because of data limitations it is not possible to adjust this number for students who drop out during the final year of school. Thus, proxy rates should be taken as an upper-bound estimate of the likely actual primary completion rate.

Data sources

Data on the net intake rate come from UNESCO's special data collection for the Education for All initiative. The data on the cohort reaching grade 5 are from the UNESCO Institute for Statistics. The data on the primary completion rate are compiled by staff in the education group of the World Bank's Human Development Network. Data on average years of schooling are from Robert Barro and Jong-Wha Lee's International Data on Educational Attainment Updates and Implications, (2000).

2.14 | Education outcomes

| | | Adult illitera | acy rate | | | Youth illite | eracy rate | | Ех | pected year | rs of schooli | ng |
|--------------------------|-----------|----------------|-----------|------|-----------------------|--------------|-----------------------|-----|-------------------|--------------------|---------------------|---------------------|
| | Ma | ale | Fem | nale | Mai | le | Fem | ale | | | | |
| | % ages 15 | | % ages 15 | | % ages 1990 | | % ages 1990 | | Ma 1990 | les 1998 | Fema 1990 | ales 1998 |
| Afghanistan | | | | | | | | | | | | |
| Albania | 13 | 8 | 33 | 23 | 3 | 1 | 8 | 4 | | | | |
| Algeria | 36 | 24 | 59 | 43 | 14 | 6 | 32 | 16 | 11 | 11 | 9 | 11 |
| Angola | | | | | | | | | | 6 | | 5 |
| Argentina | 4 | 3 | 4 | 3 | 2 | 2 | 2 | 1 | | 14 | | 15 |
| Armenia | 1 | 1 | 4 | 2 | O a | 0 a | 1 | 0 a | | | | |
| Australia | | | | | | | | | 13 | | 13 | |
| Austria | | | | | | | | | 15 | | 14 | |
| Azerbaijan | | | | | | | | | | 11 | | 11 |
| Bangladesh | 54 | 48 | 77 | 70 | 45 | 39 | 68 | 60 | 6 | 8 | 4 | 8 |
| Belarus | 0 a | 0 a | 1 | 1 | 0 a | 0 a | 0 a | 0 a | | | •• | |
| Belgium | | | | | | | | | 14 | | 14 | |
| Benin | 62 | 48 | 85 | 76 | 43 | 29 | 75 | 64 | | 8 | | 5 |
| Bolivia | 13 | 8 | 30 | 21 | 4 | 2 | 11 | 6 | | 13 | | 12 |
| Bosnia and Herzegovina | | | | | | | | | | | | |
| Botswana | 34 | 25 | 30 | 20 | 21 | 15 | 13 | 8 | 10 | 12 | 11 | 12 |
| Brazil | 18 | 15 | 20 | 15 | 12 | 9 | 9 | 6 | | 13 | | 13 |
| Bulgaria | 2 | 1 | 4 | 2 | 0 a | 0 a | 1 | 0 a | 12 | | 12 | |
| Burkina Faso | 75 | 66 | 92 | 86 | 64 | 54 | 86 | 77 | 3 | 4 | 2 | 3 |
| Burundi | 51 | 44 | 73 | 60 | 42 | 34 | 55 | 38 | 6 | 4 | 4 | 3 |
| Cambodia | 22 | 20 | 52 | 43 | 19 | 17 | 34 | 25 | | 9 | | 7 |
| Cameroon | 28 | 18 | 47 | 31 | 10 | 6 | 16 | 7 | | 13 | | 11 |
| Canada | | | | | | •• | | | 17 | 15 | 17 | 15 |
| Central African Republic | 53 | 40 | 79 | 65 | 34 | 24 | 61 | 41 | | 6 | | 3 |
| Chad | 63 | 48 | 81 | 66 | 42 | 27 | 62 | 40 | | 7 | | 3 |
| Chile | 5 | 4 | 6 | 4 | 2 | 1 | 2 | 1 | | 13 | | 13 |
| China | 14 | 8 | 33 | 24 | 3 | 1 | 8 | 4 | | 9 | | 9 |
| Hong Kong, China | 5 | 3 | 16 | 10 | 2 | 1 | 1 | 0 a | | | | |
| Colombia | 11 | 8 | 12 | 8 | 6 | 4 | 4 | 2 | | 11 | | 11 |
| Congo, Dem. Rep. | 39 | 27 | 66 | 50 | 20 | 12 | 42 | 25 | | 5 | | 4 |
| Congo, Rep. | 23 | 13 | 42 | 26 | 5 | 2 | 10 | 3 | | 7 | | 5 |
| Costa Rica | 6 | 4 | 6 | 4 | 3 | 2 | 2 | 1 | | 11 | | 11 |
| Côte d'Ivoire | 57 | 46 | 77 | 61 | 40 | 30 | 59 | 40 | | 8 | | 5 |
| Croatia | 1 | 1 | 5 | 3 | 0 a | 0 a | 0 a | 0 a | | | | |
| Cuba | 5 | 3 | 5 | 3 | 1 | O a | 1 | 0 a | 12 | 11 | 13 | 12 |
| Czech Republic | | | | | | | | | | | | |
| Denmark | | | | | | | | | 14 | | 14 | |
| Dominican Republic | 20 | 16 | 21 | 16 | 13 | 10 | 12 | 8 | | 11 | | 12 |
| Ecuador | 10 | 7 | 15 | 10 | 4 | 2 | 5 | 3 | | 11 | | 11 |
| Egypt, Arab Rep. | 40 | 33 | 66 | 56 | 29 | 24 | 49 | 37 | | 12 | •• | 11 |
| El Salvador | 24 | 18 | 31 | 24 | 15 | 11 | 17 | 13 | •• | 11 | •• | 10 |
| Eritrea | 42 | 33 | 65 | 55 | 27 | 20 | 51 | 40 | | 5 | | 4 |
| Estonia | | | | | | | | | 12 | | 12 | |
| Ethiopia | 62 | 53 | 80 | 69 | 48 | 39 | 66 | 52 | •• | 5 | | 3 |
| Finland | | •• | | •• | | •• | | •• | 15 | | 16 | |
| France | | •• | | •• | | •• | | | 14 | | 15 | |
| Gabon | | •• | | •• | | •• | | | •• | 12 | | 11 |
| Gambia, The | 68 | 56 | 80 | 71 | 49 | 34 | 66 | 51 | •• | 8 | | 6 |
| Georgia | | •• | | •• | | •• | | | •• | 5 | | 5 |
| Germany | | | | | | | | | 15 | | 14 | |
| Ghana | 30 | 20 | 53 | 37 | 12 | 6 | 25 | 12 | | 3 | | 2 |
| Greece | 2 | 1 | 8 | 4 | 1 | 0 a | 0 a | 0 a | 13 | | 13 | |
| Guatemala | 31 | 24 | 47 | 39 | 20 | 14 | 34 | 27 | •• | 10 | | 8 |
| Guinea | | | | | | •• | | •• | | 6 | | 3 |
| Guinea-Bissau | 57 | 46 | 87 | 77 | 37 | 27 | 74 | 57 | | 8 | | 5 |
| Haiti | 57 | 48 | 63 | 52 | 44 | 36 | 46 | 35 | | 12 | •• | 12 |
| Honduras | 31 | 25 | 32 | 25 | 22 | 18 | 21 | 15 | | 8 | | 9 |

Education outcomes | 2.14



| | ı | acy rate | | | Youth illit | eracy rate | | E | xpected year | s of schooli | ng | |
|---------------------------|-----------------|----------|------------------|--------------------|--------------|------------|---------------|------|--------------|--------------|------|------|
| | Ma % ages 15 | | Fem % ages 15 | nale 5 and over | Ma % ages | | Fem % ages | | Mi | ales | Fema | ales |
| | 1990 | 2000 | 1990 | 2000 | 1990 | 2000 | 1990 | 2000 | 1990 | 1998 | 1990 | 1998 |
| Hungary | 1 | 1 | 1 | 1 | 0 a | 0 a | 0 a | 0 a | 11 | | 11 | |
| India | 38 | 32 | 64 | 55 | 27 | 20 | 46 | 35 | | 9 | | 8 |
| Indonesia | 13 | 8 | 27 | 18 | 3 | 2 | 7 | 3 | 10 | | 9 | |
| Iran, Islamic Rep. | 28 | 17 | 46 | 31 | 8 | 4 | 19 | 8 | | | | |
| Iraq | 43 | 34 | 67 | 54 | 29 | 22 | 48 | 33 | | 9 | | 7 |
| Ireland | | | | | | | | | 12 | | 13 | |
| Israel | 5 | 3 | 13 | 8 | 1 | 0 a | 2 | 1 a | •• | 14 | •• | 15 |
| Italy | 2 | 1 | 3 | 2 | 0 a | 0 a | 0 a | 0 a | | | | |
| Jamaica | 22 | 17 | 14 | 9 | 13 | 9 | 5 | 3 | 11 | 11 | 11 | 11 |
| Japan | | | | | | | | | | 14 | | 14 |
| Jordan | 10 | 5 | 29 | 16 | 2 | 1 | 4 | 1 a | 9 | 9 | 9 | 9 |
| Kazakhstan | 19 | | 39 | 24 | 7 | 4 | | 6 | •• | 10 8 | •• | 10 |
| Kenya Korea, Dem. Rep. | | 11 | | | | | 13 | | •• | | •• | |
| Korea, Rep. | 2 | 1 | 7 | 4 | O a | O a | O a | 0 a | 14 | •• | 13 | •• |
| Kuwait | 21 | 16 | 27 | 20 | 12 | 8 | 13 | 7 | 7 | 9 | 7 | 10 |
| Kyrgyz Republic | | | | | | | | | | 11 | | 10 |
| Lao PDR | 47 | 36 | 80 | 67 | 28 | 17 | 62 | 42 | 9 | 9 | 6 | 7 |
| Latvia | 0 a | 0 a | 0 a | 0 a | 0 a | 0 a | 02 0 a | 0 a | | | | |
| Lebanon | 12 | 8 | 27 | 20 | 5 | 3 | 11 | 7 | •• | 13 | •• | 14 |
| Lesotho | 35 | 28 | 11 | 6 | 23 | 17 | 3 | 1 | 9 | 9 | 11 | 10 |
| Liberia | 45 | 30 | 77 | 62 | 25 | 15 | 60 | 46 | | 6 | | 4 |
| Libya | 17 | 9 | 49 | 32 | 1 | 0 a | 17 | 7 | | 13 | | 13 |
| Lithuania | 0 a | 0 a | 1 | 1 | 0 a | 0 a | 0 a | 0 a | | | | |
| Macedonia, FYR | | | | | | | | | | | | |
| Madagascar | 34 | 26 | 50 | 40 | 22 | 16 | 33 | 23 | | 6 | | 6 |
| Malawi | 31 | 26 | 64 | 53 | 24 | 19 | 49 | 39 | | 10 | | 10 |
| Malaysia | 13 | 9 | 26 | 17 | 5 | 3 | 6 | 2 | | 10 | | 11 |
| Mali | 67 | 51 | 81 | 66 | 46 | 28 | 63 | 40 | 3 | 5 | 1 | 3 |
| Mauritania | 54 | 49 | 76 | 70 | 44 | 43 | 64 | 59 | | 7 | | 6 |
| Mauritius | 15 | 12 | 25 | 19 | 9 | 7 | 9 | 6 | | 12 | | 12 |
| Mexico | 9 | 7 | 15 | 10 | 4 | 3 | 6 | 3 | | 12 | | 11 |
| Moldova | 1 | 0 a | 4 | 2 | O a | 0 a | 0 a | 0 a | | | | |
| Mongolia | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 0 a | | 7 | | 9 |
| Morocco | 47 | 38 | 75 | 64 | 32 | 24 | 58 | 42 | | 10 | | 8 |
| Mozambique | 51 | 40 | 82 | 71 | 34 | 25 | 68 | 54 | 4 | 5 | 3 | 4 |
| Myanmar | 13 | 11 | 26 | 19 | 10 | 9 | 14 | 9 | | 7 | | 8 |
| Namibia | 23 | 17 | 28 | 19 | 14 | 10 | 11 | 7 | | 13 | | 13 |
| Nepal | 52 | 40 | 86 | 76 | 33 | 23 | 73 | 57 | | 10 | | 7 |
| Netherlands | | | | | | | | | 15 | | 15 | |
| New Zealand | | | | | | | | | 14 | 10 | 15 | 11 |
| Nicaragua | 37 | 34 | 37 | 33 | 32 | 29 | 31 | 28 | | 10 | | 10 |
| Niger | 82 | 76 | 95 | 92 | 75 | 68 | 91 | 86 | | 3 | | 2 |
| Nigeria | 40 | 28 | 62 | 44 | 19 | 10 | 34 | 16 | | 7 | | 5 |
| Norway | | | | | | | | | 14 | | 14 | |
| Oman | 33 | 20 | 62 | 38 | 5 | 0 a | 25 | 4 | 10 | 9 | 9 | 8 |
| Pakistan | 51 | 43 | 80 | 72 | 37 | 29 | 69 | 58 | | 5 | | 3 |
| Panama | 10 | 7 | 12 | 9 | 4 | 3 | 5 | 4 | | 12 | | 12 |
| Papua New Guinea | 36 | 29 | 52 | 43 | 26 | 20 | 38 | 29 | | 9 | | 8 |
| Paraguay | 8 | 6 | 12 | 8 | 4 | 3 | 5 | 3 | 9 | 10 | 8 | 11 |
| Peru | 8 | 5 | 21 | 15 | 3 | 2 | 8 | 5 | | 13 | •• | 11 |
| Philippines | 7 | 5 | 8 | 5 | 3 | 2 | 3 | 1 | | 1 | | 2 |
| Poland | 0 a | 0 a | 0 a | 0 a | 0 a | 0 a | 0 a | 0 a | 12 | | 12 | |
| Portugal | 9 | 5 | 16 | 10 | 1 | 0 a | 0 a | 0 a | 13 | | 14 | |
| Puerto Rico | 8 | 6 | 9 | 6 | 5 | 3 | 3 | 2 | | | | |
| Romania | 1 | 1 | 4 | 3 | 1 | 0 a | 1 | 0 a | 11 | | 11 | |
| Russian Federation | 0 a | 0 a | 1 | 1 | 0 a | 0 a | 0 a | 0 a | •• | | | •• |

2.14 | Education outcomes

| | | Adult illiter | acy rate | | | Youth illit | eracy rate | | Ехі | oected year | s of schooli | ng |
|-------------------------|--------------------------------|-------------------|-------------------|----------------|-------------------|-------------------|-------------------|----------------|--------------------|------------------|--------------|------------------|
| | Ma % ages 15 1990 | | Fem % ages 15 | and over | Ma % ages | 15-24 | Fem % ages | 15-24 | Mal 1990 | | Fema | |
| Rwanda | 37 | 2000 26 | 1990 56 | 2000 40 | 1990 22 | 2000 15 | 1990 33 | 2000 19 | | 1998 8 | 1990 | 1998 8 |
| Saudi Arabia | 24 | 17 | 50 | 33 | 9 | 5 | 21 | 10 | 9 | 9 | 7 | 9 |
| Senegal | 62 | 53 | 81 | 72 | 50 | 40 | 70 | 58 | | 6 | | 5 |
| Sierra Leone | | | | | | | | | •• | | | |
| Singapore | 6 | 4 | 17 | 12 | 1 | 0 a | 1 | O a | •• | •• | | •• |
| Slovak Republic | | | | | | | | | •• | •• | | •• |
| Slovenia | O a | 0 a | O a | O a | O a | 0 a | O a | 0 a | •• | •• | | •• |
| Somalia | | | | | | | - | | | •• | | •• |
| | 10 | 14 | 20 | 15 | 11 | 9 | 12 | 9 | 13 | 14 | | 14 |
| South Africa | 18 | | | | 0 a | 0 a | 0 a | 0 a | | | 13 | 14 |
| Spain | 2 | 1 | 5 | 3 | | | | | | | | |
| Sri Lanka | 7 | 6 | 15 | 11 | 4 | 3 | 6 | 3 | | 11 | | |
| Sudan | 40 | 31 | 68 | 54 | 24 | 17 | 46 | 29 | | 5 | | 5 |
| Swaziland | 26 | 19 | 30 | 21 | 15 | 10 | 15 | 9 | 11 | 11 | 10 | 10 |
| Sweden | | | | | | | | | 13 | | 13 | |
| Switzerland | | | | | | | •• | | 14 | | 13 | |
| Syrian Arab Republic | 18 | 12 | 52 | 40 | 8 | 5 | 33 | 21 | 11 | 9 | 9 | 9 |
| Tajikistan | 1 | 0 a | 3 | 1 | 0 a | 0 a | 0 a | 0 a | | | | |
| Tanzania | 24 | 16 | 49 | 33 | 11 | 7 | 23 | 12 | | 5 | | 5 |
| Thailand | 5 | 3 | 11 | 6 | 1 | 1 | 2 | 2 | | 10 | | 11 |
| Togo | 39 | 28 | 71 | 58 | 21 | 13 | 52 | 36 | 11 | 12 | 6 | 8 |
| Trinidad and Tobago | 6 | 4 | 11 | 8 | 3 | 2 | 4 | 3 | 11 | 12 | 11 | 12 |
| Tunisia | 28 | 19 | 53 | 39 | 7 | 3 | 25 | 11 | 11 | 13 | 10 | 12 |
| Turkey | 11 | 7 | 33 | 23 | 3 | 1 | 12 | 6 | | 10 | | 9 |
| Turkmenistan | | | | | | | | | | | | |
| Uganda | 31 | 22 | 57 | 43 | 20 | 14 | 40 | 28 | | 11 | | 10 |
| Ukraine | O a | 0 a | 1 | 1 | O a | O a | 0 a | 0 a | | | | |
| United Arab Emirates | 29 | 25 | 29 | 21 | 18 | 13 | 11 | 6 | 10 | 11 | 11 | 11 |
| United Kingdom | | | | | | | | | 14 | | 14 | |
| United States | | | | | | | | | 15 | 16 | 16 | 15 |
| Uruguay | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 0 a | | 11 | | 14 |
| Uzbekistan | 1 | O a | 2 | 1 | 0 a | O a | 0 a | 0 a | | | | |
| Venezuela, RB | 10 | 7 | 12 | 8 | 5 | 3 | 3 | 1 | | 10 | | 11 |
| Vietnam | 6 | 4 | 13 | 9 | 5 | 3 | 5 | 3 | | 10 | | 10 |
| West Bank and Gaza | | | | | | | | | | | | |
| Yemen, Rep. | 45 | 32 | 87 | 75 | 26 | 17 | 75 | 54 | | 11 | | 5 |
| Yugoslavia, Fed. Rep. | | | | | | | | | | | | |
| Zambia | 21 | 15 | 41 | 29 | 14 | 9 | 24 | 15 | | 8 | | 7 |
| Zimbabwe | 13 | 7 | 25 | 15 | 3 | 1 | 9 | 4 | | | | |
| World | W | w | w | w | w | w | w | w | w | W | w | W |
| Low income | 35 | 28 | 56 | 47 | 24 | 18 | 40 | 31 | | | | |
| Middle income | 13 | 9 | 26 | 19 | 5 | 4 | 10 | 6 | •• | •• | •• | •• |
| | | | | | | | | 7 | | •• | | •• |
| Lower middle income | 14 | 9 | 29 | 21 | 5 | 3 | 10 | | | •• | | |
| Upper middle income | 11 | 8 | 16 | 12 | 6 | 4 | 7 | 4 | | •• | | |
| Low & middle income | 22 | 18 | 39 | 31 | 13 | 11 | 23 | 19 | • | •• | | |
| East Asia & Pacific | 13 | 8 | 29 | 21 | 3 | 2 | 8 | 4 | •• | •• | | •• |
| Europe & Central Asia | 2 | 2 | 6 | 5 | 1 | 1 | 3 | 2 | •• | •• | | •• |
| Latin America & Carib. | 14 | 11 | 17 | 13 | 8 | 6 | 8 | 6 | | | | |
| Middle East & N. Africa | 34 | 25 | 59 | 46 | 18 | 12 | 37 | 24 | | | | |
| South Asia | 40 | 34 | 66 | 57 | 29 | 23 | 50 | 40 | | | | |
| Sub-Saharan Africa | 40 | 20 | 60 | 17 | 25 | 17 | 40 | 27 | | | | |

High income

Sub-Saharan Africa

Education outcomes | 2.14



About the data

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 pupil-teacher ratios, repetition rates, and cohort progression through school. But until recently, despite an obvious interest in what education achieves, few systems in high-income or developing countries had systematically collected information on outcomes of education.

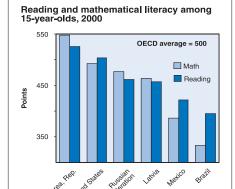
Basic student outcomes include achievements in reading and mathematics judged against established standards. In many countries national learning assessments are enabling ministries of education to monitor progress in these outcomes. Internationally, the United Nations Educational, Scientific, and Cultural Organization (UNESCO) has established literacy as an outcome indicator based on an internationally agreed definition. The rate of illiteracy is defined as the percentage of people who cannot, with understanding, read and write a short, simple statement about their everyday life. In practice, illiteracy is difficult to measure. To estimate illiteracy using such a definition requires census or survey measurements under controlled conditions. Many countries estimate the number of illiterate people from self-reported data, or by taking people with no schooling as illiterate.

Literacy statistics for most countries cover the population ages 15 and above, by five-year age groups, but some include younger ages or are confined to age ranges that tend to inflate literacy rates. As an alternative, UNESCO has proposed the narrower age range of 15-24, which better captures the ability of participants in the formal education system. The youth illiteracy 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 (or never entered it) without acquiring basic literacy and numeracy skills. Reasons for this may include difficulties in attending school or dropping out before reaching grade 5 (see About the data for table 2.13) and thereby failing to achieve basic learning competencies.

The indicator expected years of schooling is an estimate of the total years of schooling that an average child at the age of school entry will receive, including years spent on repetition, given the current patterns of enrollment across cycles of education. It may also be interpreted as an indicator of the total education resources, measured in school years, that a child will acquire over his or her "lifetime" in school—or as an indicator of an education system's overall level of development.

Because the calculation of this indicator assumes that the probability of a child's being enrolled in school at any future age is equal to the current enrollment ratio for that age, it does not account for changes and trends in future enrollment ratios. The expected number of years and the expected number of grades completed are not necessarily consistent, because the first includes years spent in repetition. Comparability across countries and over time may be affected by differences in the length of the school year or changes in policies on automatic promotions and grade repetition.

Figure 2.14



Source: Programme for International Student Assessment survey.

The absence of regular and reliable measures of education outcomes across countries, especially measures of skills, remains the most signifiant gap in education indicators. The Programme for International Student Assessment (PISA) was carried out by OECD and participating countries to measure skills for life—reading literacy, mathematical literacy, and scientific literacy—among 15-year-old students. Thirty two countries, including eight developing countries, conducted the first PISA survey in 2000. The PISA scale for each literacy area was devised so that across OECD countries the average score is 500 points.

Definitions

• Adult illiteracy rate is the percentage of people ages 15 and over who cannot, with understanding, read and write a short, simple statement about their everyday life. • Youth illiteracy rate is the illiteracy rate among people ages 15–24. • Expected years of schooling are the average number of years of formal schooling that children are expected to receive, including university education and years spent in repetition. They are the sum of the underlying age-specific enrollment ratios for primary, secondary, and tertiary education.

Data sources

The data on illiteracy are based on the UNESCO Institute for Statistics estimates and projections assessed in 2000 and 2002. The data on expected years of schooling are from the UNESCO Institute for Statistics.

2.15 | Health expenditure, services, and use

| Agbinistan 0.1 0.2 Agerie 2.5 1.0 3.3 3.6 1.3 3.2 1.3 Agerie 2.5 1.0 3.6 1.0 0.1 1.3 Ageritina 2.4 6.1 8.4 684 3.2 2.7 3.3 3.2 1.0 1.0 Ageritina 4.0 4.2 7.8 694 3.2 8.4 0.7 3.8 1.5 Assista 6.0 2.0 8.8 1.7 1.3 3.8 3.2 8.7 2.9 9 9 Austria 1.0 1.0 1.0 2.0 0.3 1.6 1.8 3.8 3.0 1.1 1.6 1.8 1.8 4.8 4.4 4.2 1.0 1.0 2.0 0.3 1.0 1.0 1.0 2.0 0.3 1.0 | | Не | alth expendit | ure | Health expenditure per capita | Physic | cians | Hospita | al beds | Inpatient admission rate | Average length of stay | Outpatient visits per capita |
|--|------------------|----------|---------------|----------|-------------------------------|--------|-------|---------|---------|--------------------------|------------------------------|------------------------------------|
| Agbanistan 0.1 0.2 Agenie 2.5 1.0 3.5 68 1.3 1.3 Agenie 2.5 1.0 3.5 68 1.0 2.1 Agentina 2.4 6.1 8.4 654 2.7 3.5 3.2 8.4 0.7 1.5 Agentina 0.0 2.0 8.6 1.71 1.8 2.5 1.0 8.5 1.0 1.0 Ascrida 1.0 0.6 1.8 9 3.4 3.0 1.1 8.7 2.9 9 Austria 1.0 0.6 1.8 9 3.4 3.0 0.7 7 1.6 1.8 Bangladean 1.7 1.9 3.8 1.2 0.1 0.2 0.2 0.3 1.1 0.2 0.2 1.1 0.2 0.2 1.1 0.0 | | % of GDP | % of GDP | % of GDP | | peo | ple | peo | ple | population | | 1990-99° |
| Abania | Afghanistan | | | | | | | | | | | |
| Algeria | | | | | | | | | | | | 2 |
| Magerian | | | | | | | | | | | | |
| Amenenie 4.0 4.2 7.8 27 3.5 3.2 8.4 0.7 8 15 Austrila 5.9 2.3 8.2 2.121 3.0 11.2 8.7 2.9 Austrila 5.9 2.3 8.2 2.121 3.0 11.2 8.7 2.9 Austrila 1.0 0.6 1.8 9 3.4 3.8 0.7 9.7 6 18 Berlanus 4.6 1.0 5.6 85 3.4 4.4 12.5 12.2 26 18 Berlanu 4.6 1.6 3.3 12 0.1 0.1 1.5 0.2 2.0 11 Berlaim 4.1 2.4 4.8 2.4 4.0 1.7 0.1 1.4 1.5 0.2 1.1 0.0 Boshian 4.1 2.4 0.1 1.4 2.1 1.0 1.0 1.0 | Angola | | | | | | 0.1 | | 1.3 | | | |
| Asstralia 6.0 2.6 8.6 1.714 1.8 2.5 8.5 16 19 Anstralia 5.9 2.3 8.2 2.121 30 11.2 8.7 29 9 Archajajan 1.0 0.6 1.8 9 3.4 3.6 9.7 9.7 6.6 18 Bengladosh 1.7 1.9 3.6 12 0.1 0.2 0.2 0.3 0.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | Argentina | 2.4 | 6.1 | 8.4 | 654 | | 2.7 | | 3.3 | | | |
| Austrain So 9 23 82 2.121 3.0 11.2 8.7 29 9 1.5 29 9 1.5 20 1.5 20 1.5 20 1.5 20 1.5 20 1.5 20 1.5 20 1.5 20 1.5 20 20 20 3.0 3.0 3.0 2.5 20 3.5 2 | Armenia | 4.0 | 4.2 | 7.8 | 27 | 3.5 | 3.2 | 8.4 | 0.7 | 8 | 15 | 2 |
| Nembel 1.0 | Australia | 6.0 | 2.6 | 8.6 | | 1.8 | 2.5 | | 8.5 | 16 | 16 | 6 |
| Berlandsesh 1,7 | Austria | 5.9 | 2.3 | 8.2 | 2,121 | | 3.0 | | | | | 7 |
| Belgium | Azerbaijan | | | | | | | | | 6 | 18 | 1 |
| Begipur Regipur Regi | | | | | | | | | | | | |
| Benin | | | | | | | | 12.5 | | | | 11 |
| Bolish | | | | | | | | | | 20 | 11 | 8 |
| Boshia and Herzegowina 8.0 1.4 1.8 1.5 Botswana 2.5 3.5 4.0 127 0.1 0.2 2.4 1.6 Botswana 2.9 3.6 6.5 3.08 1.3 3.1 0.° Bulgana 3.9 0.2 4.1 62 2.5 3.5 11.1 8.6 18 12 Bulgana 6.6 3.0 3.7 5 0.1 0.7 0.1 Bulgana 0.6 3.0 3.7 5 0.1 0.7 0.1 Bulgana 0.6 6.3 6.9 17 0.3 2.1 0.1 Cambodia 0.6 6.3 6.9 17 0.3 2.1 0.1 Cameroon 1.0 4.0 5.0 31 0.1 2.6 0.1 Camedoa 6.6 2.7 9.3 1.939 2.1 4.1 10 8 Central African Republic 2.0 10 3.0 9 0.0 ° 1.6 0.9 0.1 Chada 2.3 0.6 2.9 7 0.0 ° 1.6 0.9 0.1 Chada 2.3 0.6 2.9 7 0.0 ° 1.0 0.9 0.1 Chilea 2.7 3.1 5.9 289 1.1 3.4 2.7 1.0 Folinia 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Foling 3.0 3.8 5.8 40 0.0 0.3 3.1 4 0.1 Foling 5.2 1.5 6.7 2.57 0.9 3.3 1.7 0.9 1.7 Foling 5.2 1.5 6.7 2.57 0.9 3.3 1.7 0.9 1.7 Foling 5.2 1.5 6.7 2.57 0.9 3.3 1.7 0.9 1.7 Foling 6.6 0.8 7.2 380 3.0 3.0 3.1 3.4 0.1 Foling 6.6 0.8 7.2 380 3.0 3.0 3.1 3.4 0.1 Foling 7.1 1.0 3.0 3.8 4.8 2.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 Foling 7.1 1.0 3.0 3.8 4.8 2.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.1 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | | | | | | 0.1 | | 1.5 | | | •• | •• |
| Botswane | | | | | 69 | | | | | | | |
| Brazell 2.9 3.6 6.5 308 1.3 3.1 0.6 Buggaria 3.9 0.2 4.1 62 2.5 3.5 11.1 8.6 18 12 Burdina Faso 1.5 2.8 4.1 9 0.0 ° 0.0 ° 0. 1.4 2 3 Burundi 0.6 3.0 3.7 5 0.1 0.7 0.7 Cambodia 0.6 6.3 6.9 17 0.3 2.6 Cameroon 1.0 4.0 5.0 31 0.1 2.6 Camedad 6.6 2.7 9.3 1.939 2.1 4.1 10 8 Camtadia 6.6 2.7 9.3 1.939 2.1 4.1 10 8 Cattad African Republic 2.0 1.0 3.0 9 0.0 ° 0.0 ° 1.6 0.9 Charda African Republic 2.7 3.1 5.9 289 1.1 3.4 2.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 Hong Rong, China 2.1 2.8 5.0 1.134 0.8 1.3 4.0 2.2 Hong Rong, China 5.2 4.2 9.4 227 1.2 1.6 1.5 Congo, Dem. Rep. 2.0 3.8 5.8 40 0.1 1.4 Congo, Rep. 2.0 3.8 5.8 40 0.3 3. 3.4 Cota Gridia 9.5 2.2 5.5 3.7 28 0.1 3.0 5.9 12 Cota Gridia 9.5 2.2 5.5 3.7 28 0.1 3.0 5.9 12 Cota Gridia 9.5 2.2 5.5 3.7 28 0.1 3.0 8.7 20 11 Demmark 6.6 0.6 7.2 380 3.0 3.0 8.7 20 11 Demmark 6.9 1.5 8.4 2.785 3.4 4.5 20 7 Deminican Republic 1.9 3.0 4.8 95 2.2 1.5 Eutador 1.7 2.0 3.8 48 11 1.6 2.0 2.1 3 6 Elshoia 1.3 2.4 4.1 4 0.0 ° 0.0 ° 0.3 0.2 3.7 3 Euthoria 1.3 2.4 4.1 4 0.0 ° 0.0 ° 0.3 0.2 3.7 3 Euthoria 1.3 2.4 4.1 4 0.0 ° 0.0 ° 0.3 0.2 3.2 Euthoria 1.3 2.9 3.7 1.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | | | | | | | | | | | | •• |
| Bulgarie Bulgarie Bulgarie S. 9.0 9. | | | | | | | | | | | | |
| Burkina Faso | | | | | | | | | | | | 2 |
| Burundi | | | | | | | | | | | | 5 0 ° |
| Cambodia 0.6 6.3 6.9 17 0.3 2.1 Cameron 1.0 4.0 5.0 31 0.1 2.6 Candad 6.6 2.7 9.3 1,939 2.1 4.1 10 8 Central African Republic 2.0 1.0 3.0 9 0.0% 0.0% 1.6 0.9 Child 2.3 0.6 2.9 7 0.0% 1.6 0.9 </td <td></td> | | | | | | | | | | | | |
| Cameron 1.0 4.0 5.0 31 0.1 2.6 Canada 6.6 2.7 9.3 1.939 2.1 4.1 10 8 Central African Republic 2.0 1.0 3.0 9 0.0° 1.6 0.9 Chad 2.3 0.6 2.9 7 0.0° 0.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 Chile 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 42 1.2 1.6 1.5 | | | | | | | | | | | | •• |
| Canada 6.6 2.7 9.3 1,939 2.1 4.1 10 8 Central Affician Republic 2.0 1.0 3.0 9 0.0° 0.0° 1.6 0.9 Chile 2.3 0.6 2.9 7 0.0° 0.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 Chile 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Ching 2.1 2.8 5.0 1.134 0.8 1.3 4.0 | | | | | | | | | | | | •• |
| Central African Republic 2.0 1.0 3.0 9 0.0 ° 0.0 ° 1.6 0.9 Chald 2.3 0.6 2.9 7 0.0 ° 1. 0.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 China 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Hong Kong, China 2.1 2.8 5.0 1.134 0.8 1.3 4.0 < | | | | | | | | | | | | 7 |
| Chad 2.3 0.6 2.9 7 0.0 ° 0.7 Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 Chine 2.1 2.8 5.0 1,134 0.8 1.3 4.0 2 Colombia 5.2 4.2 9.4 227 1.2 1.6 1.5 Congo, Dem. Rep. | | | | | | | | | | | | |
| Chile 2.7 3.1 5.9 289 1.1 3.4 2.7 China 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Hong Kong, China 2.1 2.8 5.0 1,134 0.8 1.3 4.0 2 Colombia 5.2 4.2 9.4 227 1.2 1.6 1.5 Congo, Dem. Rep. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | | | | | |
| China 2.1 3.0 5.1 40 0.9 1.7 2.0 2.4 4 12 Hong Kong, China 2.1 2.8 5.0 1.134 0.8 1.3 4.0 2 Colombia 5.2 4.2 9.4 227 1.6 1.5 Congo, Den. Rep. 0.1 1.4 Congo, Rep. 2.0 3.8 5.8 40 0.3 3.4 Costa Rica 5.2 1.5 6.7 257 0.9 3.3 1.7 9 6 Coted Hovire 1.2 2.5 3.7 28 0.1 | | | | | | | | | | | | |
| Colombia 5.2 4.2 9.4 227 1.2 1.6 1.5 Congo, Dem. Rep. 0.1 1.4 Congo, Rep. 2.0 3.8 5.8 40 0.1 3.4 Costa Rica 5.2 1.5 6.7 257 0.9 3.3 1.7 9 6 Côted d'Ivoire 1.2 2.5 3.7 28 0.1 0.8 Croatia 9.5 2.0 9.6 440 2.3 5.9 12 Cuba 5.3 5.1 Croatia 9.5 2.0 9.6 440 2.3 | China | | | | | | | | | | | |
| Congo, Dem. Rep. 0.1 1.4 Congo, Rep. 2.0 3.8 5.8 40 0.3 3.4 Costa Glaviore 5.2 1.5 6.7 257 0.9 3.3 1.7 9 6 Côte d'Ivoire 1.2 2.5 3.7 28 0.1 0.8 Croatia 9.5 2.0 9.6 440 2.3 5.9 12 Cuba 5.3 5.1 Demark 6.6 0.6 7.2 380 3.0 8.7 20 11 Denmark 6.9 1.5 8.4 2.785 2.2 1.5 Ecuador <td>Hong Kong, China</td> <td>2.1</td> <td>2.8</td> <td>5.0</td> <td>1,134</td> <td>0.8</td> <td>1.3</td> <td>4.0</td> <td></td> <td>2</td> <td></td> <td>1</td> | Hong Kong, China | 2.1 | 2.8 | 5.0 | 1,134 | 0.8 | 1.3 | 4.0 | | 2 | | 1 |
| Congo, Rep. 2.0 3.8 5.8 40 0.3 3.4 Costa Rica 5.2 1.5 6.7 257 0.9 3.3 1.7 9 6 Côte d'Ivoire 1.2 2.5 3.7 28 0.1 0.8 Crotatia 9.5 2.0 9.6 440 2.3 5.9 12 Cuba 5.3 5.1 Cych Republic 6.6 0.6 7.2 380 3.0 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Equation Republic 1.9 3.0 4.8 95 2.7 1.5 1.6 </td <td>Colombia</td> <td>5.2</td> <td>4.2</td> <td>9.4</td> <td>227</td> <td></td> <td>1.2</td> <td>1.6</td> <td>1.5</td> <td></td> <td></td> <td></td> | Colombia | 5.2 | 4.2 | 9.4 | 227 | | 1.2 | 1.6 | 1.5 | | | |
| Costa Rica 5.2 1.5 6.7 257 0.9 3.3 1.7 9 6 Côte d'Ivoire 1.2 2.5 3.7 28 0.1 0.8 Croatia 9.5 2.0 9.6 440 2.3 5.9 12 Cuba 5.3 5.1 Czech Republic 6.6 0.6 0.6 7.2 380 3.0 8.7 20 11 Denmark 6.9 1.5 8.4 2,785 3.4 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Eyothador 1.7 2.0 3.6 59 1.7 1.9 1.6 | Congo, Dem. Rep. | | | | | | 0.1 | | 1.4 | | | |
| Côte d'Ivoire 1,2 2,5 3,7 28 0,1 0,8 Croatia 9,5 2,0 9,6 440 2,3 5,9 12 Cuba 5,3 5,1 Czech Republic 6,6 0,6 7,2 380 3,0 8,7 20 11 Denmark 6,9 1,5 8.4 2,785 3,4 4,5 20 7 Dominican Republic 1,9 3,0 4,8 95 2,2 1,5 Ecuador 1,7 2,0 3,6 59 1,7 1,9 1,6 Egypt, Arab Rep. 1,8 2,0 3,8 48 1,1 1,6 2,0 2,1 3 | Congo, Rep. | 2.0 | 3.8 | 5.8 | 40 | | 0.3 | | 3.4 | | | |
| Croatia 9.5 2.0 9.6 440 2.3 5.9 12 Cuba 5.3 5.1 Czech Republic 6.6 0.6 7.2 380 3.0 8.7 20 11 Denmark 6.9 1.5 8.4 2,785 3.4 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egyt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 </td <td>Costa Rica</td> <td>5.2</td> <td>1.5</td> <td>6.7</td> <td>257</td> <td></td> <td>0.9</td> <td>3.3</td> <td>1.7</td> <td>9</td> <td>6</td> <td>1</td> | Costa Rica | 5.2 | 1.5 | 6.7 | 257 | | 0.9 | 3.3 | 1.7 | 9 | 6 | 1 |
| Cuba 5.3 5.1 Czech Republic 6.6 0.6 7.2 380 3.0 8.7 20 11 Denmark 6.9 1.5 8.4 2,785 3.4 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eirtrea 2.9 0.0 0.0 | Côte d'Ivoire | 1.2 | 2.5 | 3.7 | 28 | | 0.1 | | 0.8 | | | |
| Czech Republic 6.6 0.6 7.2 380 3.0 8.7 20 11 Denmark 6.9 1.5 8.4 2,785 3.4 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eirtrea 2.9 0.0 d Estonia 5.1 1.3 6.6 e 243 4.2 3.0 12.4 7.4 18 9 | Croatia | 9.5 | 2.0 | 9.6 | 440 | | 2.3 | | 5.9 | 12 | | |
| Denmark 6.9 1.5 8.4 2,785 3.4 4.5 20 7 Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eitricea 2.9 0.0° | Cuba | | | | | | 5.3 | | 5.1 | | | |
| Dominican Republic 1.9 3.0 4.8 95 2.2 1.5 Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eritrea 2.9 0.0 d Estonia 5.1 1.3 6.6 ° 243 4.2 3.0 12.4 7.4 18 9 Ettonia 5.1 1.3 6.6 ° 243 4.2 3.0 12.4 7.4 18 9 Ettonia 5.1 1.3 6.6 ° 243 4.2 3.0 12.4 7.4 18 9 | Czech Republic | 6.6 | 0.6 | 7.2 | 380 | | 3.0 | | 8.7 | 20 | 11 | 12 |
| Ecuador 1.7 2.0 3.6 59 1.7 1.9 1.6 Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eritrea 2.9 0.0 ° Estonia 5.1 1.3 6.6 ° 243 4.2 3.0 12.4 7.4 18 9 Ethiopia 1.3 2.4 4.1 4 0.0 ° 0.0 ° 0.3 0.2 Finland 5.2 1.7 6.8 1,704 1.9 3.1 15.5 7.5 27 11 France 7.3 2.0 9.3 2,288 3.0 8.5 23 11 < | | 6.9 | | 8.4 | 2,785 | | | | | 20 | 7 | 6 |
| Egypt, Arab Rep. 1.8 2.0 3.8 48 1.1 1.6 2.0 2.1 3 6 El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eritrea 2.9 0.0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | | | | | | | | | | | | |
| El Salvador 2.6 4.6 7.2 143 0.3 1.1 1.6 Eritrea 2.9 | | | | | | | | | | | | |
| Eritrea 2.9 0.0 d | | | | | | | | | | | 6 | 4 |
| Estonia 5.1 1.3 6.6 ° 243 4.2 3.0 12.4 7.4 18 9 Ethiopia 1.3 2.4 4.1 4 0.0 ° 0.0 ° 0.3 0.2 Finland 5.2 1.7 6.8 1,704 1.9 3.1 15.5 7.5 27 11 France 7.3 2.0 9.3 2,288 3.0 8.5 23 11 Gabon 2.1 1.0 3.1 122 0.2 3.2 Gambia, The 2.3 1.9 3.7 13 0.0 ° 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 | | | | | | | | | | | •• | •• |
| Ethiopia 1.3 2.4 4.1 4 0.0 ° 0.3 0.2 Finland 5.2 1.7 6.8 1,704 1.9 3.1 15.5 7.5 27 11 France 7.3 2.0 9.3 2,288 3.0 8.5 23 11 Gabon 2.1 1.0 3.1 122 0.2 3.2 Gambia, The 2.3 1.9 3.7 13 0.0 ° 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece | | | | | | | | | | | | |
| Finland 5.2 1.7 6.8 1,704 1.9 3.1 15.5 7.5 27 11 France 7.3 2.0 9.3 2,288 3.0 8.5 23 11 Gabon 2.1 1.0 3.1 122 0.2 3.2 Gambia, The 2.3 1.9 3.7 13 0.0 d 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 | | | | | | | | | | | | 5 |
| France 7.3 2.0 9.3 2,288 3.0 8.5 23 11 Gabon 2.1 1.0 3.1 122 0.2 3.2 Gambia, The 2.3 1.9 3.7 13 0.0 d 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 < | | | | | | | | | | | | |
| Gabon 2.1 1.0 3.1 122 0.2 3.2 Gambia, The 2.3 1.9 3.7 13 0.0 d 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti | | | | | | | | | | | | 4 |
| Gambia, The 2.3 1.9 3.7 13 0.0 d 0.6 Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 | | | | | | | | | | | | 7 |
| Georgia 0.8 2.0 2.8 16 4.8 4.4 10.7 4.8 5 11 Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | •• |
| Germany 7.9 2.6 10.5 2,697 2.2 3.5 9.3 21 12 Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | 1 |
| Ghana 1.7 2.9 4.7 19 0.1 1.5 Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | 7 |
| Greece 4.7 3.6 8.4 965 2.4 4.1 6.2 5.0 15 8 Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | |
| Guatemala 2.1 2.3 4.3 78 0.9 1.0 Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | |
| Guinea 2.3 1.5 3.8 19 0.1 0.6 Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | |
| Guinea-Bissau 0.1 0.2 1.9 1.5 Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | |
| Haiti 1.4 2.8 4.2 21 0.2 0.7 0.7 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| nonauras 5.5 4.7 5.0 14 0.0 1.5 1.1 | Honduras | 3.9 | 4.7 | 8.6 | 74 | | 0.8 | 1.3 | 1.1 | | | |

Health expenditure, services, and use | 2.15



| | | ricart | | periar | .arc, | SCIVI | 1003, | aria | usc | ۷. ۲ | |
|-------------------------|--|---|--|-------------------------------|------------------|-----------------------------------|-------------|-----------------------------------|--------------------------------|------------------------------|------------------------------------|
| | He | alth expendit | ure | Health expenditure per capita | Phys | icians | Hospit | tal beds | Inpatient admission rate | Average length of stay | Outpatient visits per capita |
| | Public % of GDP 1995-99 ª | Private % of GDP 1995-99 ª | Total % of GDP 1995-99 ^{a,b} | \$ 1995-99ª | | 1,000 ople 1990-99 ª | | 1,000 ople 1990-99 ª | % of population | days 1990-99 ° | 1990-99° |
| Hungary | 5.2 | 1.6 | 6.8 | 318 | 2.5 | 3.2 | 9.1 | 8.3 | 24 | 10 | 15 |
| India | 0.8 | 4.2 | 5.4 | 20 | 0.4 | 0.4 | 0.8 | 0.8 | •• | | •• |
| Indonesia | 0.8 | 0.9 | 1.6 | 8 | | 0.2 | | 0.7 | | | |
| Iran, Islamic Rep. | 1.7 | 2.5 | 4.2 | 128 | | 0.9 | 1.5 | 1.6 | | | |
| Iraq | 3.8 | 1.8 | 5.6 | | 0.6 | 0.5 | 1.9 | 1.4 | | | |
| Ireland | 5.2 | 1.6 | 6.8 | 1,569 | 1.3 | 2.3 | 9.7 | 3.7 | 14 | 8 | |
| Israel | 6.0 | 3.6 | 9.5 | 1,607 | | 3.9 | 5.1 | 6.0 | | | |
| Italy | 5.6 | 2.6 | 8.2 | 1,676 | | 5.9 | | 5.5 | 18 | 8 | 5 |
| Jamaica | 3.0 | 2.5 | 5.5 | 157 | | 1.4 | | 2.1 | | | |
| Japan | 5.7 | 1.6 | 7.2 | 2,243 | | 1.9 | 11.3 | 16.4 | 10 | 40 | 16 |
| Jordan | 3.6 | 3.8 | 8.0 ° | 139 | 0.8 | 1.7 | 1.3 | 1.8 | 11 | 4 | 3 |
| Kazakhstan | 2.7 | 2.9 | 5.5 | 62 | 3.2 | 3.5 | 13.2 | 8.5 | 15 | 16 | O e |
| Kenya | 2.4 | 5.5 | 7.8 | 31 | | 0.1 | •• | 1.6 | | •• | |
| Korea, Dem. Rep. | | | | | | 3.0 | | | | | |
| Korea, Rep. | 2.4 | 3.0 | 5.4 | 470 | 0.6 | 1.3 | 1.7 | 5.5 | 6 | 12 | 10 |
| Kuwait | 2.9 | 0.4 2.2 | 3.3 4.4 | 551 11 | 1.7 2.9 | 1.9 3.0 | 4.1 12.0 | 2.8 9.5 | 21 | 15 | 1 |
| Kyrgyz Republic Lao PDR | 1.2 | 1.3 | 2.5 | 6 | | 0.2 | | 2.6 | | | |
| Latvia | 4.0 | 2.6 | 6.7 | 166 | 4.1 | 2.8 | 13.7 | 10.3 | 21 | 14 | 4 |
| Lebanon | 2.2 | 9.7 | 12.1 ° | 469 | | 2.1 | | 2.7 | 17 | 4 | |
| Lesotho | 3.4 | 2.2 | | | | 0.1 | •• | | | | •• |
| Liberia | | | | | | 0.0 d | •• | •• | | •• | •• |
| Libya | •• | | •• | •• | 1.3 | 1.3 | •• | 4.3 | •• | •• | •• |
| Lithuania | 4.7 | 1.5 | 6.3 | 183 | 3.9 | 4.0 | 12.1 | 9.2 | 24 | 11 | 7 |
| Macedonia, FYR | 5.3 | 1.0 | 4.9 | 90 | | 2.2 | | 4.7 | 9 | 13 | 3 |
| Madagascar | 1.1 | 1.0 | 2.1 | 5 | | 0.1 | | 0.9 | | | |
| Malawi | 2.8 | 3.5 | 6.3 | 11 | | 0.0 d | | 1.3 | | | 2 |
| Malaysia | 1.4 | 1.0 | 2.5 | 81 | 0.3 | 0.7 | | 2.0 | | | |
| Mali | 2.1 | 2.2 | 4.3 | 11 | 0.0 d | 0.1 | | 0.2 | 1 | 7 | O e |
| Mauritania | 1.4 | 3.4 | 4.8 | 19 | | 0.1 | | 0.7 | | | |
| Mauritius | 1.8 | 1.6 | 3.4 | 120 | 0.5 | 0.9 | 3.1 | 3.1 | 0 e | | 4 |
| Mexico | 2.6 | 2.8 | 5.3 | 236 | | 1.7 | | 1.1 | 6 | 4 | 2 |
| Moldova | 2.9 | 2.1 | 6.4 | 25 | 3.1 | 3.5 | 12.0 | 12.1 | 19 | 18 | 8 |
| Mongolia | 4.7 | | | | | 2.4 | 11.2 | 11.5 | | | |
| Morocco | 1.2 | 3.2 | 4.4 | 49 | | 0.5 | | 1.0 | 3 | 7 | |
| Mozambique | 2.8 | 0.7 | 3.5 | 8 | 0.0 d | | 1.1 | 0.9 | | | |
| Myanmar | 0.2 | 1.6 | 1.8 | 97 | | 0.3 | 0.9 | 0.6 | | | |
| Namibia | 3.3 | 3.3 | 7.0 | 142 | | 0.3 | | | | | |
| Nepal | 1.3 | 4.2 | 5.4 | 11 | 0.0 ^d | 0.0 ^d | 0.2 | 0.2 | | | |
| Netherlands | 6.0 | 2.8 | 8.7 | 2,173 | | 3.1 | 12.5 | 11.3 | 11 | 34 | 6 |
| New Zealand | 6.3 | 1.8 | 8.1 | 1,163 | 1.6 | 2.3 | | 6.2 | 13 | 9 | |
| Nicaragua | 8.5 | 4.0 | 12.5 | 54 | 0.4 | 0.9 | | 1.5 | | | |
| Niger | 1.2 | 1.4 | 2.6 | 5 | | 0.0 ^d | | 0.1 | 28 | 5 | O e |
| Nigeria | 0.8 | 2.0 | 2.8 | 30 | 0.1 | 0.2 | 0.9 | 1.7 | | | |
| Norway | 7.0 | 2.2 | 9.2 | 3,182 | 1.9 | 2.8 | 15.0 | 14.4 | 16 | 9 | 4 |
| Oman | 2.9 | 0.6 | 3.5 | | 0.5 | 1.3 | 1.6 | 2.2 | 9 | 4 | 4 |
| Pakistan | 0.7 | 3.1 | 4.0 | 18 | 0.3 | 0.6 | 0.6 | 0.7 | | | 3 |
| Panama | 4.9 | 2.3 | 7.3 | 246 | | 1.7 | | 2.2 | | | |
| Papua New Guinea | 2.5 | 0.7 | 3.2 | 25 | 0.1 | 0.1 | 5.5 | 4.0 | | | |
| Paraguay | 1.7 | 3.6 | 5.2 | 86 | | 1.1 | •• | 1.3 | | | |
| Peru | 2.4 | 3.8 | 6.2 | 141 | 0.7 | 0.9 | | 1.5 | 1 | 6 | 2 |
| Philippines | 1.6 | 2.1 | 3.6 | 37 | 0.1 | 1.2 | 1.7 | 1.1 | | | |
| Poland | 4.7 | 1.5 | 6.2 | 248 | 1.8 | 2.3 | 5.6 | 5.1 | 15 | 9 | 5 |
| Portugal | 5.1 | 2.5 | 7.7 | 859 | | 3.2 | | 4.0 | 12 | 9 | 3 |
| Puerto Rico | | 1.5 | | | 1.5 | 1.7 | | 3.3 | | | |
| Romania | 3.8 | 1.5 | 4.6 | 86 | 1.5 | 1.8 | 8.8 | 7.6 | 18 | 10 | 4 |
| Russian Federation | 4.6 | 1.2 | 4.6 | 133 | 4.0 | 4.2 | 13.0 | 12.1 | 22 | 17 | 8 |

104

2.15 | Health expenditure, services, and use

| | He | alth expendit | ure | Health expenditure per capita | Physi | cians | Hospit | al beds | Inpatient admission rate | Average length of stay | Outpatient visits per capita |
|-----------------------|--------------------------------|---|---------------------------------------|-------------------------------|-----------------------------|-------|--------|-----------------------------------|--------------------------------|------------------------------|------------------------------------|
| | Public % of GDP 1995-99° | Private % of GDP 1995-99 * | Total % of GDP 1995-99 % | \$ 1995-99* | per 1 pec 1980 | | | 1,000 ople 1990-99 ° | % of population | days 1990-99 ª | 1990-99ª |
| Rwanda | 2.0 | 2.1 | 4.1 | 10 | 0.0 d | 0.0 d | 1.5 | 1.7 | | 1990-99 | |
| Saudi Arabia | 6.4 | 1.6 | 8.0 | 611 | | 1.7 | 1.5 | 2.3 | 11 | 4 | 1 |
| Senegal | 2.6 | 1.9 | 4.5 | 23 | | 0.1 | | 0.4 | 22 | 10 | 1 |
| Sierra Leone | 0.9 | 4.4 | 5.3 | 8 | 0.1 | 0.1 | 1.2 | | | | |
| Singapore | 1.1 | 2.1 | 3.2 | 678 | 0.9 | 1.6 | 4.0 | 3.6 | 12 | | |
| Slovak Republic | 5.7 | 1.5 | 6.5 | 285 | | 3.5 | | 7.1 | 20 | 9 | 4 |
| Slovenia | 6.7 | 0.9 | 7.6 | 746 | | 2.3 | 7.0 | 5.7 | 16 | 11 | |
| Somalia | | | | | 0.0 d | 0.0 d | | 0.8 | | | •• |
| South Africa | 3.3 | 3.8 | 7.2 | 230 | | 0.6 | | | | •• | |
| Spain | 5.4 | 1.6 | 7.2 | 1,043 | | 3.1 | | 3.9 | 11 | 10 | •• |
| Sri Lanka | 1.7 | 1.8 | 3.5 | 29 | 0.1 | 0.4 | 2.9 | 2.7 | | | |
| Sudan | 0.7 | 2.6 | 3.3 | 119 | 0.1 | 0.4 | 0.9 | 1.1 | | | •• |
| Swaziland | 2.5 | 1.0 | 3.5 | 46 | | 0.1 | | | •• | •• | •• |
| Sweden | 6.6 | 1.3 | 7.9 | 2,145 | 2.2 | 3.1 | 14.8 | 3.7 | 17 | 7 | 3 |
| Switzerland | 7.6 | 2.8 | 10.4 | 3,857 | | 3.4 | | 18.1 | 17 | 14 | 11 |
| | 0.9 | 1.6 | 2.5 | 116 | 0.4 | 1.3 | 1.1 | 1.4 | | | |
| Syrian Arab Republic | 5.2 | 0.9 | 6.1 | | 2.4 | 2.0 | 10.0 | 8.8 | | 15 | |
| Tajikistan | | | | 13 | | | | | 16 | | |
| Tanzania | 1.3 | 1.8 | 3.0 | 8 | | 0.0 d | 1.4 | 0.9 | | | |
| Thailand | 1.9 | 4.1 | 6.0 | 112 | 0.1 | 0.4 | 1.5 | 2.0 | | •• | 1 |
| Togo | 1.3 | 1.3 | 2.6 | 9 | 0.1 | 0.1 | •• | 1.5 | | •• | |
| Trinidad and Tobago | 2.5 | 1.8 | 4.3 | 204 | 0.7 | 0.8 | | 5.1 | | | |
| Tunisia | 2.2 | 2.9 | 5.1 | 108 | 0.3 | 0.7 | 2.1 | 1.7 | 8 | | |
| Turkey | 3.3 | 1.4 | 4.8 | 153 | 0.6 | 1.2 | 2.2 | 2.6 | 7 | 6 | 2 |
| Turkmenistan | 4.1 | 1.1 | 5.2 | 30 | 2.9 | 3.0 | 10.6 | 11.5 | 17 | 15 | |
| Uganda | 1.9 | 4.1 | 5.9 | 18 | | 0.0 d | | 0.9 | | | |
| Ukraine | 2.9 | 1.5 | 4.4 | 28 | 3.7 | 3.0 | 12.5 | 11.8 | 20 | 17 | 10 |
| United Arab Emirates | 0.8 | 7.6 | 8.4 | 1,428 | 1.1 | 1.8 | 2.8 | 2.6 | 11 | 5 | |
| United Kingdom | 5.8 | 1.2 | 6.9 | 1,675 | | 1.8 | 9.3 | 4.1 | 15 | 10 | 6 |
| United States | 5.7 | 7.1 | 12.9 | 4,271 | 1.8 | 2.7 | 5.9 | 3.6 | 13 | 7 | 6 |
| Uruguay | 1.9 | 7.3 | 9.1 | 621 | | 3.7 | | 4.4 | | | |
| Uzbekistan | 3.4 | 0.6 | 4.1 | 25 | 2.9 | 3.1 | 11.5 | 8.3 | 19 | 14 | |
| Venezuela, RB | 2.6 | 1.6 | 4.2 | 171 | 0.8 | 2.4 | 0.3 | 1.5 | | | |
| Vietnam | 0.8 | 4.0 | 4.8 | 17 | 0.2 | 0.5 | 3.5 | 1.7 | 8 | 7 | 3 |
| West Bank and Gaza | 4.9 | 3.7 | 8.6 | 82 | | 0.5 | | 1.2 | 9 | 3 | 4 |
| Yemen, Rep. | 2.4 | 3.2 | 5.6 | 18 | | 0.2 | | 0.6 | | | |
| Yugoslavia, Fed. Rep. | | | | | | 2.0 | | 5.3 | 8 | 12 | 2 |
| Zambia | 3.6 | 3.4 | 6.9 | 23 | 0.1 | 0.1 | | | | | |
| Zimbabwe | 3.0 | 4.0 | 8.1 ° | 36 | 0.2 | 0.1 | 3.0 | 0.5 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| World | 5.3 w | 3.8 w | 9.0 w | 483 w | 1.0 w | 1.4 w | 3.4 w | 3.2 w | 9 w | 13 w | 6 w |
|-------------------------|-------|-------|-------|-------|--------------|-------|-------|-------|-----|------|-----|
| Low income | 0.9 | 2.7 | 3.8 | 21 | 0.5 | 0.5 | 1.7 | 1.3 | 13 | 11 | 4 |
| Middle income | 2.9 | 2.9 | 5.7 | 119 | 1.2 | 1.7 | 3.4 | 3.4 | 6 | 12 | 4 |
| Lower middle income | 2.7 | 2.6 | 5.0 | 62 | 1.2 | 1.7 | 3.4 | 3.5 | 6 | 13 | 5 |
| Upper middle income | 3.2 | 3.1 | 6.2 | 303 | | 1.6 | | 3.2 | 6 | 7 | 4 |
| Low & middle income | 2.5 | 2.9 | 5.3 | 74 | 0.9 | 1.1 | 2.7 | 2.5 | 7 | 12 | 4 |
| East Asia & Pacific | 1.8 | 2.7 | 4.5 | 51 | 0.8 | 1.3 | 2.0 | 2.5 | 4 | 13 | 4 |
| Europe & Central Asia | 4.4 | 1.4 | 5.2 | 126 | 3.0 | 3.1 | 10.4 | 8.8 | 17 | 14 | 6 |
| Latin America & Carib. | 2.8 | 3.7 | 6.5 | 264 | | 1.6 | | 2.2 | 2 | 5 | 2 |
| Middle East & N. Africa | 2.9 | 2.2 | 5.1 | 125 | | 1.0 | | 1.7 | 5 | 6 | 3 |
| South Asia | 0.9 | 3.8 | 5.1 | 19 | 0.3 | 0.4 | 0.7 | 0.7 | | | 3 |
| Sub-Saharan Africa | 2.0 | 2.8 | 4.9 | 41 | | 0.1 | | 1.1 | 12 | 6 | 1 |
| High income | 6.0 | 4.0 | 10.1 | 2,733 | | 2.9 | | 7.2 | 15 | 14 | 8 |
| Europe EMU | 6.7 | 2.4 | 9.1 | 2,029 | | 3.8 | | 7.4 | 19 | 12 | 6 |

a. Data are for the most recent year available. b. Data may not sum to total because of rounding and because of differences in the year for which the most recent data are available. c. A country has one more category, external resources, in addition to public and private. d. Less than 0.05.

Health expenditure, services, and use | 2.15



About the data

National health accounts track financial flows in the health sector, including both public and private expenditures by sources of funding. In contrast with high-income 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 a taxonomy of health care delivery institutions. The accounting system should be comprehensive and standardized, providing not only accurate measurements 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. Records of private outof-pocket expenditures are often lacking. And compiling estimates of public health expenditures is complicated in countries where state or provincial and local governments are involved in health care financing and delivery because the data on public spending often are not aggregated. The data in the table are the product of an effort by the World Health 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.

Health service indicators (physicians and hospital beds per 1,000 people) and health care utilization indicators (inpatient admission rates,

average length of stay, and outpatient visits) 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 are made only periodically) or those 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 average length of stay in hospitals is an indicator of the efficiency of resource use. Longer stays may reflect a waste of resources if patients are kept in hospitals beyond the time medically required, inflating demand for hospital beds and increasing hospital costs. Aside from differences in cases and financing methods, cross-country variations in average length of stay may result from differences in the role of hospitals. Many developing countries do not have separate extended care facilities, so hospitals become the source of both long-term and acute care. Other factors may also explain the variations. Data for some countries may not include all public and private hospitals. Admission rates may be overstated in some countries if outpatient surgeries are counted as hospital admissions. And in many countries outpatient visits, especially emergency visits, may result in double counting if a patient receives treatment in more than one department.

DefinitionsPublic health

- Public health expenditure consists of recurrent and capital spending from government (central and local) budgets and social (or compulsory) health insurance funds.
- · Private health expenditure includes direct household (out-of-pocket) spending, private insurance, spending by non-profit institutions serving households (other than social insurance) and direct service payments by private corporations. • Total health expenditure is the sum of public and private health expenditure, plus, for some countries, external sources (mainly foreign assistance). 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. • Physicians are defined as graduates of any faculty or school of medicine who are working in the country in any medical field (practice, teaching, research). • 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.
- Inpatient admission rate is the percentage of the population admitted to hospitals during a year. Average length of stay is the average duration of inpatient hospital admissions.
- Outpatient visits per capita are the number of visits to health care facilities per capita, including repeat visits.

Data sources

The estimates of health expenditure come from the WHO's World Health Report 2000 and World Health Report 2001, from the OECD for its member countries, from national health accounts of a country, from the Web site The European Observatory on Health Care Systems (www.observatory.dk), supplemented by World Bank country and sector studies, and poverty assessments, including the Human Development Network's Sector Strategy: Health, Nutrition, and Population (World Bank 1997). Data are also drawn from World Bank public expenditure reviews, the International Monetary Fund's Government Finance Statistics database, and other studies. The data on private expenditure in developing countries are largely drawn from household surveys conducted by a government, or statistical or international organizations. The data on physicians, hospital beds, and utilization of health services are from the WHO and OECD, supplemented by country data.

Table 2.15a

How important are the different elements of client responsiveness?

Respect for persons
Respect for dignity
Confidentiality
Autonomy

Client orientation
Prompt attention
Quality of amenities
Access to social support networks
Choice of providers

Source: WHO, World Health Report 2000.

Use of health services depends not only on easy access, but on responsiveness to clients by health providers. In a survey of 35 countries the poor were identified as the main disadvantaged group. They were considered to be treated with less respect for their dignity, to have less choice of providers, and to be offered poorer quality amenities than the nonpoor. Rural populations were regarded as being treated worse than urban dwellers, suffering especially from less prompt attention. In several countries women, children or adolescents, and indigenous or tribal groups received worse treatment than the rest of the population.



2.16 | Disease prevention: coverage and quality

| | Access impro water s | to an oved | Acces impro sanitation | s to ved | Tetanus vaccinations | Child imm rat | | Tuberculosis treatment success rate | DOTS detection rate |
|--------------------------|------------------------------|---------------|------------------------------|-------------|--------------------------------|--|--|--|-----------------------------------|
| | % c popula 1990 | | % o popula 1990 | | % of pregnant women 1996-2000° | % of cl under 12 measles 1995-99 ° | hildren 2 months DPT 1995-99 ° | % of cases 1995-99 ª | % of cases 1995-99 ª |
| Afghanistan | | 13 | | 12 | | 40 | 35 | 33 | 5 |
| Albania | | | | | 65 | 85 | 97 | | |
| Algeria | | 94 | | 73 | 52 | 83 | 83 | | |
| Angola | | 38 | | 44 | 24 | 46 | 22 | 68 | 62 |
| Argentina | •• | 79 | •• | 85 | | 99 | | 55 | 18 |
| Armenia | | | •• | | •• | 91 | 91 | 81 | 42 |
| Australia | 100 | 100 | 100 | 100 | | 89 | 88 | 75 | 23 |
| Austria | 100 | 100 | 100 | 100 | | 90 | 90 | | |
| Azerbaijan | | | •• | | | 99 | 99 | 86 | 9 |
| Bangladesh | 91 | 97 | 37 | 53 | 64 | 71 | 72 | 80 | 25 |
| Belarus | | 100 | •• | | | 98 | 99 | | |
| Belgium | | | •• | | | 83 | 96 | | |
| Benin | | 63 | 20 | 23 | 50 | 79 | 79 | 77 | 31 |
| Bolivia | 74 | 79 | 55 | 66 | 27 | 79 | 78 | 62 | 77 |
| Bosnia and Herzegovina | | | | | | 83 | 90 | 88 | 52 |
| Botswana | 95 | | 61 | | 54 | 86 | 90 | 47 | 65 |
| Brazil | 82 | 87 | 72 | 77 | 45 | 99 | 90 | 91 | 4 |
| Bulgaria | | | | | | 96 | 96 | | |
| Burkina Faso | 53 | | 24 | 29 | 33 | 53 | 42 | 59 | 9 |
| Burundi | 65 | | 89 | | 9 | 75 | 74 | 74 | 28 |
| Cambodia | | 30 | | 18 | 31 | 55 | 49 | 95 | 57 |
| Cameroon | 52 | 62 | 87 | 92 | 49 | 62 | 48 | 75 | 10 |
| Canada | 100 | 100 | 100 | 100 | | 96 | 97 | | |
| Central African Republic | 59 | 60 | 30 | 31 | 6 | 39 | 33 | | |
| Chad | | 27 | 18 | 29 | 24 | 30 | 21 | 64 | 33 |
| Chile | 90 | 94 | 97 | 97 | | 96 | 94 | 83 | 85 |
| China | 71 | 75 | 29 | 38 | 13 | 90 | 90 | 97 | 32 |
| Hong Kong, China | | | | | | | | 85 | 56 |
| Colombia | 87 | 91 | 82 | 85 | | 75 | 74 | 74 | 30 |
| Congo, Dem. Rep. | | 45 | | 20 | 10 | | | 70 | 53 |
| Congo, Rep. | | 51 | | | 30 | 23 | 29 | | |
| Costa Rica | | 98 | | 96 | | 88 | 86 | | 30 |
| Côte d'Ivoire | 65 | 77 | 49 | | 49 | 62 | 62 | 62 | 44 |
| Croatia | | 95 | | 100 | | 92 | 93 | | |
| Cuba | | 95 | ••• | 95 | •• | 96 | 94 | 94 | 95 |
| Czech Republic | | | •• | | •• | 95 | 98 | 65 | 51 |
| Denmark | | 100 | •• | | •• | 92 | 99 | | |
| Dominican Republic | 78 | 79 | 60 | 71 | 86 | 96 | 73 | | 7 |
| Ecuador | | 71 | | 59 | | 99 | 80 | | 26 |
| Egypt, Arab Rep. | 94 | 95 | 87 | 94 | 36 | 95 | 94 | 87 | 25 |
| El Salvador | | 74 | | 83 | | 86 | 86 | 77 | 55 |
| Eritrea | | 46 | •• | 13 | 34 | 88 | 93 | 73 | 12 |
| Estonia | | | | | | 92 | 95 | | |
| Ethiopia | 22 | 24 | 13 | 15 | 17 | 27 | 21 | 74 | 22 |
| Finland | 100 | 100 | 100 | 100 | | 96 | 99 | | |
| France | | | | | •• | 84 | 98 | | |
| Gabon | | 70 | | 21 | 54 | 55 | 37 | | |
| Gambia, The | | 62 | | 37 | 96 | | | | |
| Georgia | | 76 | •• | 99 | | 80 | 90 | 78 | 46 |
| Germany | | | | | •• | 75 | 85 | | |
| Ghana | 56 | 64 | 60 | 63 | | 73 | 72 | 59 | 23 |
| Greece | | | | | | 88 | 88 | | |
| Guatemala | 78 | 92 | 77 | 85 | 39 | 83 | 78 | 79 | 54 |
| Guinea | 45 | 48 | 55 | 58 | 61 | 52 | 46 | 73 | 43 |
| Guinea-Bissau | | 49 | | 47 | 46 | 70 | 38 | | |
| Haiti | 46 | 46 | 25 | 28 | 52 | 85 | 43 | 79 | 24 |
| Honduras | 84 | 90 | | 77 | | 98 | 95 | 93 | 15 |
| | U-1 | | •• | 1.1 | •• | ~ | ~ | ~ | 10 |

Disease prevention: coverage and quality | 2.16

| | | | 0101011 | | , o v o i ago | o arra | quant | 2.1 | |
|--------------------|----------------------------|-------|------------------------------|-------|-------------------------|---------------------|--------------|--|---------------------------|
| | Access impro water s | ved | Acces impro sanitation | ved | Tetanus vaccinations | Child imme rat | | Tuberculosis treatment success rate | DOTS detection rate |
| | | | | | 0/ -5 | 0/ 25 21 | all aluma in | | |
| | % c | of | % o | of | % of pregnant | % of ch under 12 | | % of | % of |
| | popula | ation | popula | ation | women | measles | DPT | cases | cases |
| | 1990 | 2000 | 1990 | 2000 | 1996-2000° | 1995-99° | 1995-99ª | 1995-99° | 1995-99ª |
| Hungary | 99 | 99 | 99 | 99 | •• | 99 | 99 | 80 | 36 |
| India | 78 | 88 | 21 | 31 | 67 | 50 | 55 | 84 | 6 |
| Indonesia | 69 | 76 | 54 | 66 | 54 | 71 | 72 | 58 | 19 |
| Iran, Islamic Rep. | 86 | 95 | 81 | 81 | 75 | | | 83 | 31 |
| Iraq | | 85 | •• | 79 | 56 | 63 | 76 | 83 | 5 |
| Ireland | | | | | | 77 | 86 | | |
| Israel | | | | | | 94 | 96 | | 83 |
| Italy | •• | | •• | | | 70 | 95 | 72 | 54 |
| Jamaica | •• | 71 | •• | 84 | •• | 96 | 84 | 89 | 105 |
| Japan | | | | | | 94 | 71 | | |
| Jordan | 97 | 96 | 98 | 99 | 15 | 94 | 97 | 92 | 33 |
| Kazakhstan | | 91 | | 99 | •• | 99 | 98 | 79 | 73 |
| Kenya | 40 | 49 | 84 | 86 | 51 | 79 | 79 | 77 | 53 |
| Korea, Dem. Rep. | | | | | 5 | 34 | 37 | 91 | 2 |
| Korea, Rep. | •• | 92 | | ස | | 85 | 74 | | |
| Kuwait | | | | | 8 | 96 | 94 | | |
| Kyrgyz Republic | | 77 | •• | 100 | | 97 | 98 | 82 | 60 |
| Lao PDR | | 90 | •• | 46 | 32 | 71 | 56 | | |
| Latvia | | | | | | 97 | 95 | 71 | 52 |
| Lebanon | | 100 | | 99 | | 88 | 94 | 73 | 72 |
| Lesotho | | 91 | | 92 | 17 | 77 | 85 | | |
| Liberia | | | •• | | | | | | |
| Libya | 71 | 72 | 97 | 97 | •• | | | 68 | 134 |
| Lithuania | | | | | | 97 | 93 | 79 | 2 |
| Macedonia, FYR | | 99 | •• | 99 | •• | | | | |
| Madagascar | 44 | 47 | 36 | 42 | 35 | 55 | 55 | | |
| Malawi | 49 | 57 | 73 | 77 | 81 | 83 | 84 | 69 | 42 |
| Malaysia | | | | | 71 | 88 | 93 | | |
| Mali | 55 | 65 | 70 | 69 | 32 | 57 | 52 | 70 | 19 |
| Mauritania | 37 | 37 | 30 | 33 | 63 | 62 | 40 | | 50 |
| Mauritius | 100 | 100 | 100 | 99 | 78 | 79 | 85 | 91 | 34 |
| Mexico | 83 | 86 | 69 | 73 | | 95 | 96 | 78 | 38 |
| Moldova | | 100 | | | | | | | |
| Mongolia | •• | 60 | •• | 30 | •• | 93 | 94 | 84 | 63 |
| Morocco | 75 | 82 | 62 | 75 | 33 | 90 | 91 | 82 | 90 |
| Mozambique | | 60 | | 43 | 29 | 90 57 | 61 | | |
| <u> </u> | | | | 43 | 78 | | | en | |
| Myanmar | 64 | 68 | 45 | | | 85 | 83 | 82 | 33 |
| Namibia | 72 | 77 | 33 | 41 | 70 | 66 | 72 | 60 | 105 |
| Nepal | 66 | 81 | 21 | 27 | 33 | 73 | 76 | 89 | 44 |
| Netherlands | 100 | 100 | 100 | 100 | •• | 96 | 97 | 65 | 40 |
| New Zealand | | | | | | 83 | 88 | | |
| Nicaragua | 70 | 79 | 76 | 84 | 42 | 99 | 83 | 82 | 80 |
| Niger | 53 | 59 | 15 | 20 | 41 | 36 | 28 | | |
| Nigeria | 49 | 57 | 60 | 63 | 44 | 41 | 26 | 73 | 11 |
| Norway | 100 | 100 | | | | 93 | 95 | 69 | 20 |
| Oman | 37 | 39 | 84 | 92 | 96 | 99 | 99 | 86 | 106 |
| Pakistan | 84 | 88 | 34 | 61 | 58 | 54 | 56 | 66 | 2 |
| Panama | | 87 | | 94 | | 90 | 92 | 51 | 9 |
| Papua New Guinea | 42 | 42 | 82 | 82 | 11 | 58 | 56 | 72 | 5 |
| Paraguay | 63 | 79 | 89 | 95 | | 92 | 66 | | |
| Peru | 72 | 77 | 64 | 76 | 59 | 93 | 93 | 92 | 95 |
| Philippines | 87 | 87 | 74 | 83 | 35 | 79 | 79 | 84 | 20 |
| Poland | | | | | | 97 | 98 | 75 | 3 |
| Portugal | | | | | | 96 | 97 | 74 | 77 |
| Puerto Rico | | | | | | | | | |
| Romania | | 58 | •• | 53 | | 98 | 97 | 85 | 4 |
| Russian Federation | | 99 | | | | 97 | 95 | 68 | 2 |
| | | | | | | | | | |



2.16 | Disease prevention: coverage and quality

| | Access impro water s | oved | Acces impro sanitation | ved | Tetanus vaccinations | Child immu rate | | Tuberculosis treatment success rate | DOTS detection rate |
|-----------------------|----------------------------|----------------------|------------------------------|------|---------------------------------|---------------------|-------------------------|--|---------------------------|
| | | | | | % of | % of ch | nildren | | |
| | % (| | % (| | pregnant | under 12 | | % of | % of |
| | popula 1990 | ation 2000 | popula 1990 | 2000 | women 1996-2000 ^a | measles 1995-99° | DPT 1995-99 ° | cases 1995-99° | cases 1995-99* |
| Rwanda | | 41 | | 8 | 43 | 87 | 85 | 72 | 37 |
| Saudi Arabia | | 95 | | 100 | 66 | 94 | 96 | 57 | 22 |
| Senegal | 72 | 78 | 57 | 70 | 64 | 60 | 60 | 48 | 48 |
| Sierra Leone | | 28 | | 28 | 42 | 62 | 46 | | |
| Singapore | 100 | 100 | 100 | 100 | •• | 93 | 94 | | |
| Slovak Republic | | 100 | | 100 | | 99 | 99 | 85 | 36 |
| Slovenia | 100 | 100 | | | | 98 | 92 | 78 | 68 |
| Somalia | | | | | | 26 | 18 | 88 | 22 |
| South Africa | | 86 | | 86 | 26 | 82 | 76 | 74 | 68 |
| Spain | | | | | | 93 | 94 | | |
| Sri Lanka | 66 | 83 | 82 | 83 | 78 | 95 | 99 | 76 | 76 |
| Sudan | 67 | 75 | 58 | 62 | 55 | 53 | 50 | 65 | 32 |
| Swaziland | | | | | | 82 | 99 | | |
| Sweden | 100 | 100 | 100 | 100 | | 96 | 99 | | |
| Switzerland | 100 | 100 | 100 | 100 | 79 | 81 | 94 | | |
| Syrian Arab Republic | | 80 | •• | 90 | 53 | 97 | 94 | 88 | 17 |
| Tajikistan | | | •• | | •• | 79 | 81 | | |
| Tanzania | 50 | 54 | 88 | 90 | 61 | | | 76 | 51 |
| Thailand | 71 | 80 | 86 | 96 | 81 | 96 | 97 | 68 | 40 |
| Togo | 51 | 54 | 37 | 34 | 41 | 43 | 41 | | |
| Trinidad and Tobago | | 86 | | 88 | •• | 91 | 90 | 65 | 123 |
| Tunisia | 80 | | 76 | | 50 | 84 | 96 | 91 | 79 |
| Turkey | 80 | 83 | 87 | 91 | 30 | 80 | 79 | | |
| Turkmenistan | | 58 | | 100 | | 97 | 98 | | |
| Uganda | 44 | 50 | 84 | 75 | 38 | 53 | 55 | 62 | 59 |
| Ukraine | | | | | 87 | 99 | 99 | | |
| United Arab Emirates | | | | | | 95 | 94 | | |
| United Kingdom | 100 | 100 | 100 | 100 | •• | 91 | 93 | | |
| United States | 100 | 100 | 100 | 100 | •• | 92 | 96 | 72 | 90 |
| Uruguay | | 98 | | 95 | •• | 93 | 93 | 84 | 91 |
| Uzbekistan | | 85 | •• | 100 | •• | 96 | 99 | 78 | 2 |
| Venezuela, RB | | 84 | •• | 74 | •• | 82 | 77 | 81 | 82 |
| Vietnam | 48 | 56 | 73 | 73 | 55 | 93 | 93 | 93 | 80 |
| West Bank and Gaza | | | | | 31 | | | | |
| Yemen, Rep. | 66 | 69 | 39 | 45 | 9 | 74 | 72 | | |
| Yugoslavia, Fed. Rep. | | | | | | | | | |
| Zambia | 52 | 64 | 63 | 78 | 35 | 90 | 84 | | |
| Zimbabwe | 77 | 85 | 64 | 68 | 58 | 79 | 81 | 70 | 55 |

| Low income 70 76 36 45 Middle income 75 81 47 59 Lower middle income 74 80 41 52 Upper middle income 87 81 Low & middle income 73 79 42 52 East Asia & Pacific 70 75 38 47 Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 South Asia 80 87 25 37 | 57 90 89 92 71 85 | 57 89 89 88 70 |
|--|----------------------------------|----------------------------|
| Lower middle income 74 80 41 52 Upper middle income 87 81 Low & middle income 73 79 42 52 East Asia & Pacific 70 75 38 47 Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | 89 92 71 | 89 88 70 |
| Upper middle income 87 81 Low & middle income 73 79 42 52 East Asia & Pacific 70 75 38 47 Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | 92 71 | 88 70 |
| Low & middle income 73 79 42 52 East Asia & Pacific 70 75 38 47 Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | 71 | 70 |
| East Asia & Pacific 70 75 38 47 Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | | |
| Europe & Central Asia 90 Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | 85 | 85 |
| Latin America & Carib. 81 85 72 78 Middle East & N. Africa 84 89 78 83 | | |
| Middle East & N. Africa 84 89 78 83 | 93 | 93 |
| | 93 | 87 |
| South Asia 80 87 25 37 | 86 | 88 |
| | 53 | 57 |
| Sub-Saharan Africa 49 55 55 55 | 53 | 46 |
| High income | 89 | 92 |
| Europe EMU | 82 | 93 |

a. Data are for the most recent year available.

Disease prevention: coverage and quality | 2.16



About the data

The indicators in the table are based on data provided to the World Health Organization (WHO) by member states as part of their efforts to monitor and evaluate progress in implementing national health strategies. Because reliable, observation-based statistical data for these indicators do not exist in some developing countries, the data are at times estimated.

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. Drinking water contaminated by feces deposited near homes and an inadequate water supply cause diseases accounting for 10 percent of the disease burden in developing countries (World Bank 1993c). The data on access to an improved water source measure the share of the population with ready access to water for domestic purposes. The data are based on surveys and estimates provided by governments to the WHO-UNICEF Joint Monitoring Programme. 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. Access to drinking water from an improved source does not ensure that the water is adequate or safe, as these characteristics are not tested at the time of the surveys.

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 toxoid.

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. According to the World Bank's World Development Report 1993: Investing in Health, these diseases accounted for about 10 percent of the disease burden among children under five in 1990, compared with an expected 23 percent at 1970 levels of vaccination. In many developing countries, however, lack of precise in-

formation on the size of the cohort of children under one year of age makes immunization coverage difficult to estimate. The data shown here are based on an assessment of national immunization coverage rates carried out in 2000-01 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.

Data on the success rate of tuberculosis treatment are provided for countries that have implemented the recommended control strategy: directly observed treatment, short course (DOTS). 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 a household connection, public standpipe, borehole, protected well or spring, and rainwater collection. Unimproved sources include vendors, tanker trucks, and unprotected wells and springs. Reasonable access is defined as the availability of at least 20 liters a person a day from a source within one kilometer of the dwelling. • Access to improved sanitation facilities refers to the percentage of the population with at least adequate excreta disposal facilities (private or shared, but not public) 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. • 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. • Child immunization rate is the percentage of children under one year of age receiving vaccination coverage for four diseasesmeasles and diphtheria, pertussis (whooping cough), and tetanus (DPT). A child is considered adequately immunized against measles after receiving one dose of vaccine, and against after receiving three • Tuberculosis treatment success rate refers to the percentage of new, registered smearpositive (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 (DOTS) case detection

Data sources

and treatment strategy.

The table was produced using information provided to the WHO by countries, the WHO's EPI Information System, and its *Global Tuberculosis Control Report 2001;* the United Nations Children's Fund's (UNICEF) *State of the World's Children 2001;* and the WHO and UNICEF's *Global Water Supply and Sanitation Assessment 2000 Report.*

2.17 | Reproductive health

| | Total fertil rate | lity | Adolescent fertility rate | Women at risk of unintended pregnancy | Contraceptive prevalence rate | 1 | ths attended by skilled ealth staff | | mortality tio |
|--------------------------|-----------------------------------|------------------|--|--|---|------|---|---|--|
| | births per woma 1980 | n 2000 | births per 1,000 women ages 15-19 2000 | % of married women ages 15-49 1990-2000° | % of women ages 15-49 1990-2000 ° | 1982 | % of total 1996-99* | per 100,00 National estimates 1990-98° | 0 live births Modelled estimates 1995 |
| Afghanistan | 7.0 | 6.7 | 153 | | | | | | |
| Albania | 3.6 | 2.1 | 16 | | | 99 | ·· | | 31 |
| Algeria | 6.7 | 3.2 | 24 | | 51 | 15 | | 220 | 150 |
| Angola | 6.9 | 6.6 | 219 | •• | | 34 | | | 1,300 |
| Argentina | 3.3 | 2.5 | 61 | •• | •• | | •• | 38 | 85 |
| Armenia | 2.3 | 1.3 | 44 | •• | •• | •• | 96 | 35 | 29 |
| Australia | 1.9 | 1.8 | 18 | •• | •• | 99 | | | 6 |
| Austria | 1.6 | 1.3 | 21 | •• | •• | | •• | •• | 11 |
| | | | | •• | •• | | | | |
| Azerbaijan | 3.2 | 2.0 | 32 | | | | 99 | 43 | 37 |
| Bangladesh | 6.1 | 3.1 | 142 | 15 | 54 | 2 | 14 | 440 | 600 |
| Belarus | 2.0 | 1.3 | 28 | •• | •• | | | 28 | 33 |
| Belgium | 1.7 | 1.6 | 11 | •• | | | | | 8 |
| Benin | 7.0 | 5.5 | 123 | 21 | 16 | | 60 | 500 | 880 |
| Bolivia | 5.5 | 3.9 | 80 | 26 | 49 | | 59 | 390 | 550 |
| Bosnia and Herzegovina | 2.1 | 1.6 | 23 | | | | | 10 | 15 |
| Botswana | 6.1 | 4.0 | 78 | •• | | 61 | •• | 330 | 480 |
| Brazil | 3.9 | 2.2 | 70 | 7 | 77 | 98 | 88 | 160 | 260 |
| Bulgaria | 2.0 | 1.3 | 49 | | | | 99 | 15 | 23 |
| Burkina Faso | 7.5 | 6.5 | 144 | 26 | 12 | 12 | 27 | | 1,400 |
| Burundi | 6.8 | 6.0 | 55 | •• | | 12 | ** | | 1,900 |
| Cambodia | 5.7 | 4.0 | 60 | | 24 | | 31 | 470 | 590 |
| Cameroon | 6.4 | 4.8 | 142 | 13 | 19 | 10 | 55 | 430 | 720 |
| Canada | 1.7 | 1.5 | 20 | | | | | | 6 |
| Central African Republic | 5.8 | 4.7 | 140 | 16 | 15 | | | 1,100 | 1,200 |
| Chad | 6.9 | 6.4 | 194 | 9 | 4 | 24 | 11 | 830 | 1,500 |
| Chile | 2.8 | 2.2 | 49 | | | 95 | 100 | 20 | 33 |
| China | 2.5 | 1.9 | 17 | | 83 | | | 55 | 60 |
| Hong Kong, China | 2.0 | 1.0 | 7 | | | 100 | | | |
| Colombia | 3.9 | 2.6 | 80 | 8 | 77 | | | 80 | 120 |
| Congo, Dem. Rep. | 6.6 | 6.1 | 215 | | | | | | 940 |
| Congo, Rep. | 6.3 | 6.0 | 141 | | | | | | 1,100 |
| Costa Rica | 3.6 | 2.5 | 85 | •• | | | | 29 | 35 |
| Côte d'Ivoire | 7.4 | 4.8 | 130 | 43 | 15 | 13 | 47 | 600 | 1,200 |
| | | | | | | | | | |
| Croatia | 1.9 | 1.4 | 19 | | 69 | •• | •• | 6 | 18 |
| Cuba | 2.0 | 1.6 | 65 | | | •• | | 27 | 24 |
| Czech Republic | 2.1 | 1.2 | 23 | •• | 69 | | | 9 | 14 |
| Denmark | 1.5 | 1.7 | 9 | | | | | 10 | 15 |
| Dominican Republic | 4.2 | 2.7 | 90 | 13 | 64 | | 96 | 230 | 110 |
| Ecuador | 5.0 | 3.0 | 72 | | 66 | 62 | | 160 | 210 |
| Egypt, Arab Rep. | 5.1 | 3.3 | 53 | 11 | 56 | | 56 | 170 | 170 |
| El Salvador | 4.9 | 3.1 | 10 | 8 | 60 | 35 | 90 | 120 | 180 |
| Eritrea | 7.5 | 5.4 | 119 | 28 | 8 | | | 1,000 | 1,100 |
| Estonia | 2.0 | 1.2 | 25 | •• | | | | 50 | 80 |
| Ethiopia | 6.6 | 5.6 | 152 | 36 | 8 | 58 | | 870 | 1,800 |
| Finland | 1.6 | 1.7 | 11 | | | | | 6 | 6 |
| France | 1.9 | 1.9 | 9 | | 71 | | | 10 | 20 |
| Gabon | 4.5 | 4.2 | 172 | 28 | 33 | | | 520 | 620 |
| Gambia, The | 6.5 | 5.0 | 139 | | | 41 | | | 1,100 |
| Georgia | 2.3 | 1.1 | 47 | 21 | 41 | | | 70 | 22 |
| Germany | 1.4 | 1.4 | 13 | | | | | 8 | 12 |
| Ghana | 6.5 | 4.2 | 90 | 23 | 22 | 47 | 44 | 210 | 590 |
| Greece | 2.2 | 1.3 | 18 | | | 99 | | 1 | 2 |
| Guatemala | 6.3 | 4.6 | 117 | 23 | 38 | 40 | | 190 | 270 |
| Guinea | 6.1 | 5.2 | 168 | 24 | 6 | | 35 | 670 | 1,200 |
| Guinea-Bissau | 6.0 | 5.8 | 190 | | | | | 910 | 910 |
| Haiti | 5.9 | 4.3 | 80 | 40 | 28 | 34 | | 525 | 1,100 |
| Honduras | 6.5 | 3.9 | 102 | 11 | 50 | 50 | 55 | 110 | 220 |
| i ioi iuui as | 0.0 | ა.ყ | 102 | тТ | 50 | 50 | 55 | TTO | 220 |

Reproductive health | 2.17



| | Total fo rat | | Adolescent fertility rate | Women at risk of unintended pregnancy | Contraceptive prevalence rate | by: | attended skilled lth staff | | mortality tio |
|--------------------|-------------------------------|-----|--|--|---|-------------|----------------------------------|---|---|
| | birt per wi 1980 | | births per 1,000 women ages 15-19 2000 | % of married women ages 15-49 1990-2000° | % of women ages 15-49 1990-2000 ° | % · 1982 | of total 1996-99 ° | per 100,00 National estimates 1990-98° | 0 live births Modelled estimates 1995 |
| Hungary | 1.9 | 1.3 | 28 | | 73 | | | 15 | 23 |
| India | 5.0 | 3.1 | 104 | 16 | 52 | 23 | | 410 | 440 |
| Indonesia | 4.3 | 2.5 | 60 | 11 | 57 | 31 | 43 | 450 | 470 |
| Iran, Islamic Rep. | 6.7 | 2.6 | 45 | | 73 | | | 37 | 130 |
| Iraq | 6.4 | 4.3 | 38 | | | | | | 370 |
| Ireland | 3.2 | 1.9 | 14 | | 60 | | | 6 | 9 |
| Israel | 3.2 | 2.8 | 19 | | | 99 | | 5 | 8 |
| Italy | 1.6 | 1.2 | 8 | | | 100 | | 7 | 11 |
| Jamaica | 3.7 | 2.5 | 84 | 15 | 65 | 89 | 95 | 120 | 120 |
| Japan | 1.8 | 1.4 | 4 | | | 100 | | 8 | 12 |
| Jordan | 6.8 | 3.7 | 33 | 14 | 50 | 75 | 97 | 41 | 41 |
| Kazakhstan | 2.9 | 2.0 | 40 | 11 | 66 | | 98 | 70 | 80 |
| Kenya | 7.8 | 4.4 | 111 | 24 | 39 | | 44 | 590 | 1,300 |
| Korea, Dem. Rep. | 2.8 | 2.1 | 2 | | | 100 | | 110 | 35 |
| Korea, Rep. | 2.6 | 1.4 | 4 | •• | •• | 70 | •• | 20 | 20 |
| Kuwait | 5.3 | 2.7 | 34 | •• | •• | | 98 | 5 | 25 |
| | | | | | | • | | | |
| Kyrgyz Republic | 4.1 | 2.6 | 40 | 12 | 60 | | 98 | 65 | 80 |
| Lao PDR | 6.7 | 5.0 | 91 | •• | 25 | •• | •• | 650 | 650 |
| Latvia | 1.9 | 1.2 | 32 | | | | | 45 | 70 |
| Lebanon | 4.0 | 2.3 | 30 | | 61 | | 95 | 100 | 130 |
| Lesotho | 5.5 | 4.4 | 86 | | 23 | 28 | | •• | 530 |
| Liberia | 6.8 | 6.0 | 230 | | | 89 | | •• | |
| Libya | 7.3 | 3.5 | 35 | | 45 | 76 | 94 | 75 | 120 |
| Lithuania | 2.0 | 1.3 | 36 | | | | | 18 | 27 |
| Macedonia, FYR | 2.5 | 1.8 | 26 | | | | | 3 | 17 |
| Madagascar | 6.6 | 5.4 | 180 | 26 | 19 | 62 | 47 | 490 | 580 |
| Malawi | 7.6 | 6.3 | 136 | 30 | 31 | 59 | | 1,120 | 580 |
| Malaysia | 4.2 | 3.0 | 25 | | | 82 | | 39 | 39 |
| Mali | 7.1 | 6.3 | 180 | 26 | 7 | 14 | 24 | 580 | 630 |
| Mauritania | 6.4 | 5.7 | 147 | | | 23 | 58 | 550 | 870 |
| Mauritius | 2.7 | 2.0 | 37 | | 75 | 84 | | 50 | 45 |
| Mexico | 4.7 | 2.6 | 64 | •• | 65 | | •• | 55 | 65 |
| Moldova | 2.4 | 1.4 | 57 | •• | 74 | | •• | 42 | 65 |
| Mongolia | 5.3 | 2.6 | 58 | 10 | 60 | 100 | | 150 | 65 |
| Morocco | 5.4 | 2.9 | 50 | 16 | 59 | 24 | | 230 | 390 |
| Mozambique | 6.5 | 5.1 | 172 | 7 | 6 | 28 | 44 | 1,100 | 980 |
| Myanmar | 4.9 | 3.0 | 29 | | | 97 | 57 | 230 | 170 |
| Namibia | 5.9 | 5.0 | 105 | 22 | 29 | | | 230 | 370 |
| Nepal | 6.1 | 4.3 | 120 | 28 | 29 | 10 | 10 | | 830 |
| Netherlands | 1.6 | 1.7 | 4 | | 75 | 100 | | 7 | 10 |
| New Zealand | 2.0 | 2.0 | 30 | | | 99 | | 15 | 15 |
| Nicaragua | 6.3 | 3.5 | 135 | 15 | 60 | | 65 | 150 | 250 |
| Niger | 8.0 | 7.2 | 215 | 17 | 8 | 20 | 18 | 590 | 920 |
| Nigeria | 6.9 | 5.3 | 128 | 22 | 15 | | | 700 | 1,100 |
| Norway | 1.7 | 1.9 | 12 | | | 100 | | 6 | 9 |
| Oman | 9.9 | 4.3 | 80 | | 24 | 60 | | 19 | 120 |
| Pakistan | 7.0 | 4.7 | 64 | 32 | 28 | | | | 200 |
| Panama | 3.7 | 2.5 | 75 | | | 83 | | 70 | 100 |
| Papua New Guinea | 5.8 | 4.4 | 77 | 29 | 26 | 34 | 53 | 370 | 390 |
| Paraguay | 5.2 | 4.0 | 75 | 17 | 57 | 22 | 71 | 190 | 170 |
| Peru | 4.5 | 2.8 | 66 | 10 | 69 | 44 | 56 | 265 | 240 |
| Philippines | 4.8 | 3.4 | 33 | 26 | 47 | 57 | 56 | 170 | 240 |
| Poland | 2.3 | 1.4 | 21 | •• | | | | 8 | 12 |
| Portugal | 2.2 | 1.5 | 22 | •• | •• | | 100 | 8 | 12 |
| Puerto Rico | 2.6 | 1.9 | 73 | | 78 | | | | 30 |
| Romania | 2.4 | 1.3 | 36 | •• | 48 | 99 | | 41 | 60 |
| | | | | - | - | | | | |

2.17 | Reproductive health

| | Total fe rat | | Adolescent fertility rate | Women at risk of unintended pregnancy | Contraceptive prevalence rate | by s | attended killed h staff | | mortality tio |
|-----------------------|-------------------------------|-----|---|---|---|--------------------|-------------------------------|---|--|
| | birt per wo 1980 | | births per 1,000 women ages 15-19 2000 | % of married women ages 15-49 1990-2000 ^a | % of women ages 15-49 1990-2000 ° | % o 1982 | f total 1996-99 ª | per 100,00 National estimates 1990-98 ª | 00 live births Modelled estimates 1995 |
| Rwanda | 8.3 | 5.9 | 56 | 37 | 21 | 20 | | | 2,300 |
| Saudi Arabia | 7.3 | 5.5 | 105 | | 21 | 74 | 91 | | 23 |
| Senegal | 6.8 | 5.1 | 103 | 33 | 11 | | 47 | 560 | 1,200 |
| Sierra Leone | 6.5 | 5.8 | 212 | | | 25 | | | 2,100 |
| Singapore | 1.7 | 1.5 | 9 | | | 100 | 100 | 6 | 9 |
| Slovak Republic | 2.3 | 1.3 | 26 | | | | | 9 | 14 |
| Slovenia | 2.1 | 1.2 | 10 | | | | | 11 | 17 |
| Somalia | 7.3 | 7.1 | 210 | | | 2 | | | |
| South Africa | 4.6 | 2.9 | 70 | | 62 | | 84 | | 340 |
| Spain | 2.2 | 1.2 | 9 | | | 96 | | 6 | 8 |
| Sri Lanka | 3.5 | 2.1 | 20 | | | 87 | 95 | 60 | 60 |
| Sudan | 6.1 | 4.6 | 62 | 25 | 10 | 20 | | 500 | 1,500 |
| Swaziland | 6.2 | 4.4 | 121 | | | 50 | | | |
| Sweden | 1.7 | 1.6 | 11 | | | | | 5 | 8 |
| Switzerland | 1.5 | 1.5 | 5 | | | | | 5 | 8 |
| Syrian Arab Republic | 7.4 | 3.6 | 44 | | 45 | 43 | | 110 | 200 |
| Tajikistan | 5.6 | 3.1 | 35 | | | | | 65 | 120 |
| Tanzania | 6.7 | 5.3 | 125 | 13 | 25 | 74 | 35 | 530 | 1,100 |
| Thailand | 3.5 | 1.9 | 65 | | 72 | 52 | | 44 | 44 |
| Togo | 6.8 | 5.0 | 89 | | 24 | | 51 | 480 | 980 |
| Trinidad and Tobago | 3.3 | 1.8 | 40 | | | 90 | 99 | | 65 |
| Tunisia | 5.2 | 2.1 | 13 | | 60 | 50 | 82 | 70 | 70 |
| Turkey | 4.3 | 2.4 | 60 | 11 | 64 | 76 | 81 | 130 | 55 |
| Turkmenistan | 4.9 | 2.3 | 20 | | | | | 65 | 65 |
| Uganda | 7.2 | 6.2 | 204 | 29 | 15 | | | 510 | 1,100 |
| Ukraine | 2.0 | 1.2 | 43 | | 68 | | | 27 | 45 |
| United Arab Emirates | 5.4 | 3.2 | 73 | | | 96 | | 3 | 30 |
| United Kingdom | 1.9 | 1.7 | 28 | | | 98 | | 7 | 10 |
| United States | 1.8 | 2.1 | 48 | | 64 | 99 | 99 | 8 | 12 |
| Uruguay | 2.7 | 2.2 | 70 | | | | | 26 | 50 |
| Uzbekistan | 4.8 | 2.6 | 56 | 14 | 56 | | 98 | 21 | 60 |
| Venezuela, RB | 4.2 | 2.8 | 98 | | | 82 | | 60 | 43 |
| Vietnam | 5.0 | 2.2 | 31 | | 75 | 100 | 77 | 160 | 95 |
| West Bank and Gaza | | 5.7 | 90 | | 42 | | | •• | |
| Yemen, Rep. | 7.9 | 6.2 | 105 | 39 | 21 | | 22 | 350 | 850 |
| Yugoslavia, Fed. Rep. | 2.3 | 1.7 | 32 | | | | 93 | 10 | 15 |
| Zambia | 7.0 | 5.3 | 156 | 27 | 26 | | 47 | 650 | 870 |
| Zimbabwe | 6.4 | 3.8 | 112 | 15 | 54 | 69 | 84 | 695 | 610 |

| World | 3.7 w | 2.7 w | 69 w | w |
|-------------------------|-------|-------|------|----|
| Low income | 5.3 | 3.6 | 104 | |
| Middle income | 3.2 | 2.2 | 39 | |
| Lower middle income | 3.0 | 2.1 | 32 | 80 |
| Upper middle income | 3.7 | 2.3 | 59 | |
| Low & middle income | 4.1 | 2.8 | 74 | |
| East Asia & Pacific | 3.0 | 2.1 | 28 | 83 |
| Europe & Central Asia | 2.5 | 1.6 | 43 | |
| Latin America & Carib. | 4.1 | 2.6 | 72 | |
| Middle East & N. Africa | 6.2 | 3.4 | 51 | |
| South Asia | 5.3 | 3.3 | 105 | 52 |
| Sub-Saharan Africa | 6.6 | 5.2 | 138 | |
| High income | 1.8 | 1.7 | 25 | |
| Europe EMU | 1.8 | 1.5 | 11 | |

a. Data are for most recent year available.

Reproductive health | 2.17



About the data

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. Health conditions related to sex and reproduction have been estimated to account for 25 percent of the global disease burden in women (Murray and Lopez 1998). 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 more than 300 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. In cases 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 for 2000 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 face the risk of unintended pregnancy, 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 pregnancy because of postpartum anovulation, menopause, or infertility. Common reasons for not using contraception are lack of knowledge about contraceptive methods and concerns about their possible health sideeffects.

Contraceptive prevalence reflects all methods—ineffective traditional methods as well as highly effective modern methods. Contraceptive prevalence rates are obtained mainly from Demographic and Health 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.

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 improves maternal health and reduces 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 causespecific 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 highincome 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 reported are estimates based on national surveys, vital registration, or surveillance or are derived from community and hospital records. Those shown as modeled are based on an exercise carried out by the World Health Organization (WHO) and United Nations Children's Fund (UNICEF). In this exercise maternal mortality was estimated with a regression model using information on fertility, birth attendants, and HIV prevalence. Neither set of ratios can be assumed to provide an accurate estimate of maternal mortality in 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 agespecific fertility rates. • Adolescent fertility rate is the number of births per 1,000 women ages 15-19. • Women at risk of unintended pregnancy are 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 who are practicing, or whose sexual partners are practicing, any form of contraception. It is usually measured for married women ages 15-49 only. • 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 during pregnancy and childbirth, per 100,000 live births.

Data sources

The data on reproductive health come from Demographic and Health Surveys, the WHO's Coverage of Maternity Care (1997) and other WHO sources, UNICEF, and national statistical offices. Modelled estimates for maternal mortality ratios are from Kenneth Hill, Carla AbouZhar and Tessa Wordlaw's "Estimates of Maternal Mortality for 1995," (2001).

2.18 | Nutrition

| | Preval of undernou | f | Preva of c malnu | hild | Prevaler of overwei | | Prevalence of anemia | Low- birthweight babies | Bre feed | | Consump- tion of iodized | Vitamin A supplemen- |
|--------------------------|---------------------------------|----------|---|---|---------------------------------|-----|---|-------------------------------|-----------------|---------|--------------------------------------|---|
| | | | Weight % of | for age % of | Height for % of | age | % of | Susico | exclu | | salt | tation % of |
| | % (popula 1990-92 | | children under 5 1993-2000 ^a | children under 5 1993-2000 ^a | childre under Year | | pregnant women 1985-99 ^a | % of births | less then | _ | % of households 1992-98 ^a | children 6-59 months 1998-2000 |
| Afghanistan | 63 | 70 | 49 | 48 | 1997 | 4 | | | | | | 78 |
| Afghanistan | 63 | 70 | 49 | 48 | 1997 | 4 | | | | | | 78 |
| Albania | 14 | 3 | 8 | 15 | | | | 8 | | | | |
| Algeria | 5 | 5 | 13 | 18 | 1995 | 9 | 42 | | | | 92 | |
| Angola | 51 | 43 | 41 | 53 | | | 29 | | | | 10 | 94 |
| Argentina | | | 5 | 12 | 1994 | 7 | 26 | 7 | | | 90 | |
| Armenia | | 21 | 3 | 12 | 1998 | 6 | | | | | 70 | |
| Australia | | | 0 | 0 | 1995-96 | 5 | | 7 | | | | |
| Austria | | | | | | | | 6 | | | | |
| Azerbaijan | | 32 | 17 | 20 | 1996 | 4 | | 6 | | | | |
| Bangladesh | 35 | 38 | 61 | 55 | 1996-97 | 1 | 53 | 50 | 1996-97 | 26 | 55 | 79 |
| Belarus | | | | | | | | 6 | | | 37 | |
| Belgium | | | | | | | | | | | | |
| Benin | 21 | 14 | 29 | 25 | 1996 | 1 | 41 | 9 | 1996 | 2 | 79 | 100 |
| Bolivia | 25 | 23 | 8 | 27 | 1998 | 7 | 54 | 9 | 1998 | 32 | 91 | 85 |
| Bosnia and Herzegovina | | 10 | | | | | •• | •• | | | | •• |
| Botswana | 20 | 27 | 17 | 29 | | | | | 1988 | 8 | 27 | |
| Brazil | 13 | 10 | 6 | 11 | 1996 | 5 | 33 | 8 | 1996 | 20 | 95 | 20 |
| Bulgaria | | 13 | | | | | | 7 | | | | |
| Burkina Faso | 32 44 | 32 68 | 34 | 37 | 1992-93 1987 | 1 | 24 68 | 16 | 1998-99 1987 | 6 47 | 23 80 | 99 |
| Burundi Cambodia | 41 | 33 | 47 | 53 | | | | 18 | | | 7 | 79 |
| Cameroon | 29 | 19 | 22 | 29 | 1991 | 3 | 44 | | 1998 | 5 | 83 | 100 |
| Canada | | | | | 1970-72 | 5 | | 6 | | | | |
| Central African Republic | 46 | 41 | 23 | 28 | 1995 | 1 | 67 | | 1994-95 | 0 | 87 | 100 |
| Chad | 58 | 38 | 39 | 40 | | | 37 | | 1996-97 | 1 | 55 | 92 |
| Chile | 8 | 4 | 1 | 2 | 1996 | 7 | 13 | 5 | | | 100 | |
| China | 17 | 11 | 10 | 14 | 1992 | 4 | 52 | | | | 91 | ··· |
| Hong Kong, China | | | | | | | | 5 | | | | |
| Colombia | 17 | 13 | 8 | 15 | 1995 | 3 | 24 | 17 | 1995 | 4 | 92 | |
| Congo, Dem. Rep. | 37 | 61 | 34 | 45 | | | | 20 | | | 90 | 78 |
| Congo, Rep. | 34 | 32 | | | | | | | | | | 74 |
| Costa Rica | 6 | 6 | 5 | 6 | 1996 | 6 | 27 | 6 | | | 97 | |
| Côte d'Ivoire | 15 | 14 | 24 | 24 | 1994 | 2 | 34 | | 1994 | 2 | | |
| Croatia | | 12 | 1 | 1 | 1995-96 | 6 | | | | | 90 | |
| Cuba | 4 | 19 | | | | | 47 | 8 | | | 45 | |
| Czech Republic | | | | | 1991 | 4 | 23 | 6 | | | | |
| Denmark | | | | | | | | | | | | |
| Dominican Republic | 29 | 28 | 6 | 11 | 1996 | 3 | | 14 | 1996 | 8 | 13 | 53 |
| Ecuador | 8 | 5 | | | | | 17 | 17 | 1987 | 20 | 99 | 42 |
| Egypt, Arab Rep. | 5 | 4 | 4 | 19 | 1995-96 | 9 | 24 | | 1995 | 25 | 84 | |
| El Salvador | 12 | 11 | 12 | 23 | 1993 | 2 | 14 | 11 | | | 91 | |
| Eritrea | | 65 | 44 | 38 | | | | | 1995 | 41 | 80 | 94 |
| Estonia | | 6 | | | | | | | | | | |
| Ethiopia | | 49 | 47 | 51 | •• | | 42 | 9 | | | 0 | 86 |
| Finland | •• | | •• | •• | | | •• | | | •• | •• | •• |
| France | | | | | | | | 6 | | | | |
| Gabon Tho | 11 | 16 | | | •• | | | | | •• | | •• |
| Gambia, The | 18 | 16 23 | 26 3 | 30 12 | | | 80 | •• | •• | | 9 | •• |
| Georgia Germany | •• | | | | •• | | •• | •• | •• | •• | •• | •• |
| Ghana | 29 | 10 | 25 | 26 | 1993-94 | 2 | 64 | 8 | 1998 | 18 | 28 | 91 |
| Greece | | | | | 1995-94 | 4 | | | | | | |
| Guatemala | 14 | 24 | 24 | 46 | | | 45 | 8 | 1998-99 | 27 | 49 | •• |
| Guinea | 37 | 29 | 23 | 26 | | | | 13 | 1999 | 10 | 37 | 100 |
| Guinea-Bissau | | | | | ··· | | 74 | | | | | 77 |
| Haiti | 64 | 62 | 28 | 32 | 1994-95 | 3 | 64 | 15 | 1994-95 | 1 | 10 | |
| Honduras | 23 | 22 | 25 | 39 | 1996 | 1 | 14 | 9 | | | 80 | 53 |
| | | | | | | | | | | | | |

Nutrition | 2.18



| | Preval o undernou | f | Preva of c malnu | hild | Prevalen of overweig | | Prevalence of anemia | Low- birthweight babies | Bre feed | | Consump- tion of iodized salt | Vitamin A supplemen- tation |
|--------------------|--------------------------|---------|------------------------|---------------------|----------------------------|-----|-------------------------------|-------------------------------|-----------------------|------------------|--|--------------------------------------|
| | | | Weight | for age | Height for | age | | | | | | |
| | | | % of | % of | % of | | % of | | exclu | | | % of |
| | % (| | children under 5 | children under 5 | childre under § | | pregnant | % of births | breastfe less then | _ | % of households | children 6-59 months |
| | popul: 1990-92 | 1996-98 | 1993-2000ª | 1993-2000ª | Year | % | women 1985-99 ^a | 1993-99ª | Year | 4 IIIOIIUIS % | 1992-98ª | 1998-2000 |
| Hungary | | | | | 1980-88 | 2 | | 8 | | | | |
| India | 26 | 21 | 47 | 46 | 1992-93 | 2 | 88 | 34 | 1999 | 28 | 70 | 15 |
| Indonesia | 10 | 6 | 34 | 42 | 1995 | 4 | 64 | 15 | 1997 | 20 | 64 | 64 |
| Iran, Islamic Rep. | 6 | 6 | 11 | 15 | 1995 | 3 | 17 | 10 | | | 94 | |
| Iraq | 9 | 17 | | | | | 18 | 24 | | | 10 | |
| Ireland | | | | | | | | | | | | |
| Israel | | | | | | | | 8 | | | | |
| Italy | | | | | 1975-77 | 4 | | | | | | |
| Jamaica | 12 | 10 | 4 | 7 | 2000 | 5 | 40 | 11 | | | 100 | |
| Japan | | | | | 1978-81 | 2 | | 8 | | | | |
| Jordan | 4 | 5 | 5 | 8 | 1990 | 6 | 50 | 2 | 1997 | 4 | 95 | |
| Kazakhstan | | 5 | 4 | 10 | 1995 | 4 | 27 | 9 | 1995 | 4 | 53 | |
| Kenya | 47 | 43 | 22 | 33 | 1993 | 4 | 35 | | 1998 | 3 | 100 | 80 |
| Korea, Dem. Rep. | 19 | 57 | 32 | 15 | | | 71 | | | | 5 | 100 |
| Korea, Rep. | | | | | | | | | | | | |
| Kuwait | 22 | 4 | 2 | 3 | 1996-97 | 6 | 40 | 7 | | | | ··· |
| Kyrgyz Republic | | 17 | 11 | 25 | | | | 6 | 1997 | 8 | 27 | |
| Lao PDR | 31 | 29 | 40 | 47 | | | 62 | 60 | | | 95 | 80 |
| Latvia | | 4 | | | | | | 4 | | | | |
| Lebanon | | · · | 3 | 12 | | | 49 | 19 | | | 92 | ··· |
| Lesotho | 31 | 29 | 16 | 44 | | | 7 | | | | 73 | |
| Liberia | 49 | 46 | | | ··· | | 78 | | 1986 | 7 | | 93 |
| Libya | | | 5 | 15 | | | | | | | 90 | |
| Lithuania | | | | | | | | 4 | | | | ··· |
| Macedonia, FYR | | 7 | 6 | 7 | | | | 8 | | | | ··· |
| Madagascar | 33 | 40 | 40 | 48 | 1992 | 1 | | 15 | 1997 | 17 | 73 | 94 |
| Malawi | 47 | 32 | 30 | 48 | 1992 | 7 | 55 | | 1992 | 5 | 58 | |
| Malaysia | 3 | | 20 | | | | 56 | 8 | | | | |
| Mali | 24 | 32 | 27 | 49 | 1995-96 | 1 | 58 | | 1996 | 3 | 9 | 100 |
| Mauritania | 15 | 13 | 23 | 44 | | | 24 | 9 | | | 3 | 83 |
| Mauritius | 6 | 6 | 15 | 10 | 1995 | 4 | 29 | | | | 0 | |
| Mexico | 5 | 5 | 8 | 18 | 1988 | 4 | 41 | 9 | 1987 | 22 | 97 | |
| Moldova | | 11 | | | | | 20 | 5 | | | | |
| Mongolia | 34 | 45 | 13 | 25 | 1997 | 4 | 45 | 11 | | | 68 | 87 |
| Morocco | 5 | 5 | | | 1992 | 7 | 45 | 4 | 1992 | 30 | | 0 |
| Mozambique | 67 | 58 | 26 | 36 | | | 58 | | 1997 | 13 | 62 | 100 |
| Myanmar | 10 | 7 | 28 | 42 | | | 58 | | | | 65 | 42 |
| Namibia | 27 | 31 | | | 1992 | 3 | 16 | | 1992 | 4 | 59 | 83 |
| Nepal | 21 | 28 | 47 | 54 | 1996 | 1 | 65 | 23 | 1996 | 52 | 55 | 85 |
| Netherlands | | | | | | | | | | | | |
| New Zealand | | | | | | | | 6 | | | | |
| Nicaragua | 29 | 31 | 12 | 25 | 1993 | 3 | 36 | 8 | 1997-98 | 8 | 86 | 63 |
| Niger | 42 | 46 | 40 | 40 | 1992 | 1 | 41 | | 1998 | 0 | 64 | 100 |
| Nigeria | 16 | 8 | 27 | 46 | 1993 | 3 | 55 | | 1990 | 2 | 98 | 23 |
| Norway | | | | | | | | 5 | | | | |
| Oman | | | 23 | 23 | 1994-95 | 1 | 54 | 8 | | | 61 | |
| Pakistan | 26 | 20 | 38 | 36 | 1990-91 | 3 | 37 | 25 | 1990-91 | 20 | 19 | 88 |
| Panama | 19 | 16 | 8 | 18 | 1980 | 4 | | 8 | | | 95 | |
| Papua New Guinea | 26 | 29 | | | 1982-83 | 2 | 16 | 16 | | | | |
| Paraguay | 18 | 13 | | | 1990 | 4 | 44 | 9 | 1990 | 4 | 83 | |
| Peru | 40 | 18 | 8 | 26 | 1996 | 7 | 53 | 6 | 1996 | 34 | 93 | 5 |
| Philippines | 24 | 21 | 32 | 32 | 1993 | 1 | 48 | 11 | 1998 | 22 | 15 | 78 |
| Poland | | | | | | | | 8 | | | | |
| Portugal | | | | | | | | 7 | | | | ··· |
| Puerto Rico | | | | | 1991 | 2 | | 14 | | | | ··· |
| Romania | 3 | | | | | | 31 | 10 | | | | |
| Russian Federation | | 6 | 3 | 13 | | | 30 | | | | 30 | ··· |
| | •• | - | - | | •• | | | | •• | | | |

2.18 | Nutrition

| | Preval of undernou | f | Preva of c malnu | hild | Prevaler of overwei | | Prevalence of anemia | Low- birthweight babies | Brea feed | | Consump- tion of iodized salt | Vitamin A supplemen- tation |
|-----------------------|--------------------------|---------|------------------------|---------------------|---------------------------|----|----------------------|-------------------------------|-------------------------|----|--|--------------------------------------|
| | | | Weight | - | Height for | | | | | | | |
| | 0/ | | % of | % of | % of | | % of | | exclus | | 0/ - 6 | % of |
| | % o | | children under 5 | children under 5 | childre under | | pregnant women | % of births | breastfe less then 4 | _ | % of households | children 6-59 months |
| | 1990-92 | 1996-98 | 1993-2000ª | 1993-2000ª | Year | % | 1985-99ª | 1993-99ª | Year | % | 1992-98ª | 1998-2000 |
| Rwanda | 37 | 39 | 27 | 42 | 1992 | 2 | | | 1992 | 76 | 95 | 93 |
| Saudi Arabia | 3 | 3 | | | | | | 5 | | | | |
| Senegal | 21 | 23 | 13 | 23 | 1992-93 | 3 | 26 | | 1997 | 3 | 9 | 87 |
| Sierra Leone | 45 | 43 | | | | | 31 | | | | 75 | 80 |
| Singapore | | | | | 1970-77 | 1 | | 7 | | | | |
| Slovak Republic | | 4 | | | | | | | | | | |
| Slovenia | | 3 | | | | | | 5 | | | | |
| Somalia | 67 | 75 | 26 | 23 | | | 78 | | | | | 63 |
| South Africa | | | 9 | 23 | 1994-95 | 7 | 37 | | | | 62 | |
| Spain | | | | | | | | | | | | |
| Sri Lanka | 28 | 25 | 33 | 20 | 1987 | 0 | 39 | 18 | 1987 | 4 | 47 | |
| Sudan | 30 | 18 | 34 | 34 | | | 36 | 15 | 1990 | 10 | 0 | 79 |
| Swaziland | 9 | 14 | | | | | | | | | | |
| Sweden | | | | | | | | | | | | |
| Switzerland | | | | | | | | 5 | | | | |
| Syrian Arab Republic | | | 13 | 21 | | | | 7 | | | 40 | |
| Tajikistan | | 32 | | | | | 50 | | | | 20 | |
| Tanzania | 31 | 41 | 29 | 44 | 1996 | 3 | 59 | | 1996 | 7 | 74 | 21 |
| Thailand | 31 | 21 | 18 | 13 | 1987 | 1 | 57 | 7 | 1987 | 4 | 50 | |
| Togo | 29 | 18 | 25 | 22 | 1988 | 3 | 48 | | 1998 | 2 | 73 | 100 |
| Trinidad and Tobago | 12 | 13 | | | 1987 | 3 | 53 | 14 | 1987 | 7 | | |
| Tunisia | | | 4 | 8 | 1988 | 4 | 38 | 16 | 1988 | 13 | 98 | |
| Turkey | | | 8 | 16 | 1993 | 3 | 74 | | 1998 | 2 | 18 | |
| Turkmenistan | | 10 | | | | | | | | | 0 | |
| Uganda | 23 | 30 | 26 | 38 | 1995 | 3 | 30 | | 1995 | 35 | 69 | 79 |
| Ukraine | | 5 | | | | | | 8 | | | 4 | |
| United Arab Emirates | | | 7 | | | | | | | | | |
| United Kingdom | | | | | 1973-79 | 3 | | 6 | | | | |
| United States | | | 1 | 2 | 1988-94 | 5 | | 7 | | | | |
| Uruguay | 7 | 4 | 4 | 10 | 1992-93 | 6 | 20 | 8 | | | | |
| Uzbekistan | | 11 | 19 | 31 | 1996 | 14 | | | 1996 | 0 | 17 | |
| Venezuela, RB | 11 | 16 | 4 | 13 | 1997 | 3 | 29 | 12 | | | 90 | |
| Vietnam | 28 | 22 | 37 | 39 | 1998 | 1 | | 11 | 1997 | 1 | 89 | 55 |
| West Bank and Gaza | | | 15 | | | | | 6 | | | | |
| Yemen, Rep. | 37 | 35 | 46 | 52 | 1996 | 4 | | 26 | 1997 | 7 | 39 | 100 |
| Yugoslavia, Fed. Rep. | | 3 | 2 | 7 | 1996 | 5 | | | | | 63 | ••• |
| Zambia | 40 | 45 | 24 | 42 | 1996-97 | 3 | 34 | 10 | 1996 | 4 | 90 | 75 |
| Zimbabwe | 41 | 37 | 13 | 27 | 1994 | 4 | | 11 | 1994 | 1 | 80 | |

| World | 21w | 18 w | W | W | 55 | iw . | .w 67 | 'ww |
|-------------------------|-----|-------------|----|----|----|------|-------|------|
| Low income | 27 | 24 | | | 69 | | . 61 | . 50 |
| Middle income | 15 | 11 | 13 | | 44 | | . 69 | |
| Lower middle income | 17 | 11 | 11 | 17 | 46 | | . 87 | |
| Upper middle income | 9 | 8 | | | 40 | | . 67 | |
| Low & middle income | 21 | 18 | | | 55 | · . | . 74 | |
| East Asia & Pacific | 17 | 12 | 13 | 18 | 54 | ٠. | . 25 | i |
| Europe & Central Asia | | 8 | | | 40 | | . 89 |) |
| Latin America & Carib. | 14 | 12 | 9 | 19 | 34 | 10 |) 53 | 3 |
| Middle East & N. Africa | 7 | 8 | 15 | | 28 | 3 . | . 66 | · |
| South Asia | 27 | 24 | 49 | 47 | 78 | 34 | ļ 60 | 34 |
| Sub-Saharan Africa | 32 | 33 | | | 46 | · . | | . 69 |
| High income | | | | | | | | |
| Europe EMU | | | | | | | | |

a. Data are for the most recent year available.

Nutrition | 2.18



About the data

Data on undernourishment are produced by the Food and Agriculture Organization (FAO) 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, 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 both weight for age (underweight) and height for age (stunting), are from national survey data. The proportion of children 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.

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

Adequate quantities of micronutrients (vitamins and minerals) are essential for healthy growth and development. Studies indicate that more people are deficient in iron (anemic) than any other micronutrient, and most are women of reproductive age. Anemia during pregnancy can harm both the mother and the fetus, causing loss of the baby, premature birth, or low birthweight. Estimates of the prevalence of anemia among pregnant women are generally drawn from clinical data, which suffer from two weaknesses: the sample is based on those who seek care and is therefore not random, and private clinics or hospitals may not be part of the reporting network.

Low birthweight, which is associated with maternal malnutrition, raises the risk of infant mortality and stunts growth in infancy and childhood. Estimates of low-birthweight infants are drawn mostly from hospital records. But 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 breastfeeding can save some 1.5 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 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, *The 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 25 percent greater risk of dying from a range of childhood ailments such as measles, malaria, or diarrhea. Improving the vitamin A status of pregnant women may reduce their risk of dying during pregnancy and childbirth, improves their resistance to infection, and helps reduce anemia. 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 also being introduced in many developing countries.

Definitions

• Prevalence of undernourishment refers to the percentage of the population that is undernourished. • Prevalence of child malnutrition is the percentage of children under five whose weight for age and height for age are less than minus two standard deviations from the median for the international reference population ages 0-59 months. For children up to two years of age, height is measured by recumbent length. For older children, height is measured by stature while standing. The reference population, adopted by the WHO in 1983, is based on children from the United States, who are assumed to be well nourished. • Prevalence of overweight is the percentage of children under five whose weight for height is greater than two standard deviations from the National Center for Health Statistics and WHO international reference median value, as recommended by a WHO Expert Committee. • Prevalence of anemia, or iron deficiency, refers to the percentage of pregnant women with hemoglobin levels less than 11 grams per deciliter. • Low-birthweight babies are 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 is the proportion of children less than 4-6 months old who are fed breast milk alone (no other liguids). • Consumption of iodized salt refers to the percentage of households that use edible salt fortified with iodine. • Vitamin A supplementation is the percentage of children ages 6-59 months who received at least one high dose vitamin A capsule in the previous six months.

Data sources

Data are drawn from a variety of sources, including FAO's *The State of Food Insecurity in the World 2000*; the United Nations Administrative Committee on Coordination, Subcommittee on Nutrition's *Update on the Nutrition Situation*; the WHO's *World Health Report 2000*; and UNICEF's *State of the World's Children 2001*.

118



2.19 | Health: risk factors and future challenges

| Afghanistan Albania Algeria Angola Argentina Armenia Australia Austria Azerbaijan Bangladesh Belarus | Year 1996 1998 2000 1995 1997 | % of : Males 44 44 47 | edults Females 6 7 | per 100,000 people 1999 325 | % of adults 1999 | Young male % age 15-24 1999 ° | g people female % age 15-24 |
|--|----------------------------------|-----------------------|--------------------|--------------------------------------|------------------|--|--------------------------------------|
| ulbania ulgeria ungola urgentina urmenia uustria uustria uzerbaijan äangladesh | 1996 1998 2000 | 44 44 | Females 6 7 | people 1999 325 | adults 1999 | % age 15-24 | 15-24 |
| ulbania ulgeria ungola urgentina urmenia uustria uustria uzerbaijan äangladesh | 1996 1998 2000 | 44 44 | 6 7 | 1999 325 | 1999 | | |
| ulbania ulgeria ungola urgentina urmenia uustria uustria uzerbaijan äangladesh | 1998 2000 1995 | 44 44 | 6 7 | 325 | | 1999° | |
| ulbania ulgeria ungola urgentina urmenia uustria uustria uzerbaijan äangladesh | 1998 2000 1995 | 44 44 | 6 7 | | -0.01 | | 1999ª |
| olgeria ungola urgentina urmenia uustralia uustria uzerbaijan Bangladesh | 1998 2000 1995 | | 7 | 20 | < 0.01 | | |
| ingola irgentina irmenia iustralia iustria izerbaijan iangladesh | 2000 | | | 23 | <0.01 | | |
| ingola irgentina irmenia iustralia iustria izerbaijan iangladesh | 1995 | | | 45 | 0.07 | | |
| rgentina rmenia ustralia ustria zerbaijan iangladesh | 1995 | | | 271 | 2.78 | 1.25 | 2.72 |
| rmenia ustralia ustria ustria zerbaijan iangladesh | 1995 | 41 | 34 | 55 | 0.69 | 0.86 | 0.29 |
| ustralia ustria zerbaijan iangladesh | | | | | | | |
| ustria vzerbaijan Bangladesh | | | | 58 | 0.01 | | |
| zerbaijan Bangladesh | 1007 | 27 | 23 | 8 | 0.15 | 0.14 | 0.02 |
| Bangladesh | TOOI | 30 | 19 | 16 | 0.23 | 0.19 | 0.10 |
| | 1999 | 30 | 1 | 62 | < 0.01 | | |
| elarus | 1998 | 40 | 10 | 241 | 0.02 | 0.01 | 0.01 |
| | 1999 | 55 | 5 | 80 | 0.28 | 0.40 | 0.19 |
| elgium | 1999 | 31 | 26 | 15 | 0.15 | 0.11 | 0.11 |
| | 1000 | | | 266 | | | |
| Senin | 4000 | | | | 2.45 | 0.89 | 2.24 |
| Solivia | 1998 | 43 | 18 | 238 | 0.10 | 0.13 | 0.03 |
| Bosnia and Herzegovina | | •• | | 87 | 0.04 | | |
| Botswana | | | | 702 | 35.80 | 15.84 | 34.31 |
| Brazil | 1995 | 38 | 29 | 70 | 0.57 | 0.70 | 0.28 |
| Bulgaria | 1996 | 49 | 24 | 46 | 0.01 | | |
| Burkina Faso | | | | 319 | 6.44 | 2.31 | 5.79 |
| Burundi | | | | 382 | 11.32 | 5.69 | 11.60 |
| | 1004 | | •• | | | | |
| ambodia | 1994 | 65 | •• | 560 | 4.04 | 2.36 | 3.51 |
| ameroon | | | •• | 335 | 7.73 | 3.82 | 7.78 |
| anada | 1999 | 27 | 23 | 7 | 0.30 | 0.29 | 0.07 |
| entral African Republic | | | | 415 | 13.84 | 6.91 | 14.07 |
| chad | | | | 270 | 2.69 | 1.92 | 3.03 |
| Chile | 1997 | 26 | 18 | 26 | 0.19 | 0.29 | 0.08 |
| China | 1996 | 63 | 4 | 103 | 0.07 | 0.12 | 0.02 |
| | 1550 | | | 91 | | | |
| Hong Kong, China | | | | | 0.06 | 0.10 | 0.05 |
| Colombia | 1997 | 24 | 21 | 51 | 0.31 | 0.44 | 0.10 |
| Congo, Dem. Rep. | | •• | | 301 | 5.07 | 2.49 | 5.07 |
| Congo, Rep. | | | | 318 | 6.43 | 3.17 | 6.46 |
| Costa Rica | 1995 | 29 | 7 | 17 | 0.54 | 0.65 | 0.28 |
| ôte d'Ivoire | | | | 375 | 10.76 | 3.78 | 9.51 |
| Croatia | | | | 61 | 0.02 | 0.02 | 0.01 |
| tuba | 1995 | 48 | 26 | 15 | 0.03 | 0.06 | 0.02 |
| | | | | | | | |
| Zzech Republic | 1998 | 28 | 12 | 19 | 0.04 | 0.06 | 0.03 |
| Denmark | 1998 | 32 | 30 | 12 | 0.17 | 0.16 | 0.08 |
| Oominican Republic | 1993 | 24 | 17 | 135 | 2.80 | 2.58 | 2.78 |
| cuador | 1991 | 46 | 17 | 172 | 0.29 | 0.37 | 0.08 |
| gypt, Arab Rep. | 1997 | 43 | 5 | 39 | 0.02 | | |
| I Salvador | 1989 | 38 | 12 | 67 | 0.60 | 0.68 | 0.27 |
| ritrea | | | | 272 | 2.87 | | |
| stonia | 1996 | 48 | 22 | 61 | 0.04 | | |
| | TAA0 | | | | | 7.50 | |
| thiopia | | •• | •• | 373 | 10.63 | 7.50 | 11.86 |
| inland | 1999 | 27 | 20 | 12 | 0.05 | 0.03 | 0.02 |
| rance | 1997 | 39 | 27 | 16 | 0.44 | 0.33 | 0.23 |
| abon | | | | 289 | 4.16 | 2.32 | 4.72 |
| ambia, The | | | | 260 | 1.95 | 0.86 | 2.17 |
| ieorgia | 1999 | 60 | 15 | 72 | <0.01 | •• | |
| ermany | 1997 | 43 | 30 | 13 | 0.10 | 0.09 | 0.04 |
| | TOOI | | | | | | |
| ihana | | | | 281 | 3.60 | 1.36 | 3.42 |
| areece | 1994 | 46 | 28 | 22 | 0.16 | 0.12 | 0.05 |
| uatemala | 1989 | 38 | 18 | 85 | 1.38 | 1.16 | 0.92 |
| Guinea | 1998 | 60 | 44 | 255 | 1.54 | 0.57 | 1.43 |
| Guinea-Bissau | | | | 267 | 2.50 | 0.99 | 2.48 |
| laiti | 1990 | 11 | 9 | 361 | 5.17 | 4.88 | 2.91 |
| londuras | 1988 | 36 | 11 | 92 | 1.92 | 1.40 | 1.66 |

Health: risk factors and future challenges | 2.19



| | | Prevalence Incidence o of smoking tuberculosis | | | | Prevalence of HIV | | | |
|-------------------|------|--|-------------------|--------------------------------------|-------------------------------|---------------------------------|---------------------------------|--|--|
| | | | | | | Young male | g people female | | |
| | Year | % of a | adults Females | per 100,000 people 1999 | % of adults 1999 | % age 15-24 1999 ª | % age 15-24 1999 * | | |
| lungary | 1999 | 44 | 27 | 40 | 0.05 | 0.08 | 0.02 | | |
| ndia | 1999 | | | 185 | 0.70 | 0.36 | 0.61 | | |
| ndonesia | 1995 | 69 | 3 | 282 | 0.05 | 0.03 | 0.01 | | |
| | 1998 | | 5 | | <0.01 | | | | |
| ran, Islamic Rep. | | 25 | | 54 | | •• | | | |
| aq | 1990 | 40 | 5 | 156 | <0.01 | | | | |
| reland | 1998 | 32 | 31. | 15 | 0.10 | 0.06 | 0.05 | | |
| srael | 1999 | 33 | 25 | 8 | 0.08 | 0.06 | 0.06 | | |
| aly | 1998 | 32 | 17 | 9 | 0.35 | 0.29 | 0.24 | | |
| amaica | | •• | | 8 | 0.71 | 0.59 | 0.40 | | |
| apan | 1998 | 53 | 13 | 29 | 0.02 | 0.03 | 0.01 | | |
| ordan | 1996 | 44 | 5 | 11 | 0.02 | | | | |
| azakhstan | | | | 130 | 0.04 | 0.07 | | | |
| enya | 1995 | 67 | 32 | 417 | 13.95 | 6.39 | 13.02 | | |
| orea, Dem. Rep. | | •• | | 176 | <0.01 | •• | | | |
| orea, Rep. | | •• | | 69 | 0.01 | 0.02 | 0.00 | | |
| uwait | 1996 | 34 | 2 | 31. | 0.12 | | | | |
| | 1998 | | 16 | 130 | | •• | •• | | |
| yrgyz Republic | TAAQ | 60 | | | <0.01 | | 0.05 | | |
| ao PDR | | | | 171 | 0.05 | 0.04 | 0.05 | | |
| atvia | 1998 | 53 | 18 | 105 | 0.11 | 0.18 | 0.06 | | |
| ebanon | | •• | | 24 | 0.09 | | | | |
| esotho | 1992 | 39 | 1 | 542 | 23.57 | 12.05 | 26.40 | | |
| beria | | | | 271 | 2.80 | | | | |
| ibya | | | | 24 | 0.05 | | | | |
| thuania | 1997 | 41 | 9 | 99 | 0.02 | | | | |
| lacedonia, FYR | | | | 50 | <0.01 | | | | |
| ladagascar | | | | 236 | 0.14 | 0.04 | 0.13 | | |
| lalawi | 1996 | 20 | 9 | 443 | 15.96 | 7.04 | 15.26 | | |
| lalaysia | 1996 | 49 | 4 | 111 | 0.42 | 0.57 | 0.09 | | |
| Mali | 1330 | | | 261 | 2.03 | | 2.07 | | |
| | | •• | •• | | | 1.31 | | | |
| lauritania | 4000 | | | 241 | 0.52 | 0.37 | 0.59 | | |
| lauritius | 1998 | 42 | 3 | 68 | 0.08 | 0.04 | 0.04 | | |
| 1exico | 1998 | 51 | 18 | 39 | 0.29 | 0.40 | 0.06 | | |
| loldova | 1998 | 44 | 3 | 130 | 0.20 | 0.28 | 0.11 | | |
| longolia | 1999 | 55 | 19 | 205 | <0.01 | | | | |
| lorocco | 1999 | 30 | 10 | 119 | 0.03 | | | | |
| lozambique | | | | 407 | 13.22 | 6.73 | 14.74 | | |
| lyanmar | 1993 | 74 | 46 | 169 | 1.99 | 1.04 | 1.72 | | |
| amibia | 1994 | 65 | 35 | 490 | 19.54 | 9.14 | 19.80 | | |
| epal | 1998 | 20 | 15 | 209 | 0.29 | 0.14 | 0.20 | | |
| etherlands | 1998 | 37 | 30 | 10 | 0.19 | 0.14 | 0.20 | | |
| | | | | | | | 0.08 | | |
| ew Zealand | 1998 | 26 | 24 | 6 | 0.06 | 0.05 | | | |
| icaragua | | •• | | 88 | 0.20 | 0.22 | 0.06 | | |
| iger | | | •• | 252 | 1.35 | 0.95 | 1.50 | | |
| igeria | | | | 301 | 5.06 | 2.52 | 5.12 | | |
| orway | 1998 | 34 | 32 | 5 | 0.07 | 0.06 | 0.03 | | |
| man | 1995 | 13 | 0 | 10 | 0.11 | | | | |
| akistan | 1994 | 36 | 9 | 177 | 0.10 | 0.06 | 0.04 | | |
| anama | 1993 | 56 | 20 | 54 | 1.54 | 1.65 | 1.36 | | |
| apua New Guinea | | | | 250 | 0.22 | 0.08 | 0.25 | | |
| araguay | 1990 | 24 | 6 | 68 | 0.11 | 0.13 | 0.04 | | |
| eru | 1998 | 42 | 16 | 228 | 0.35 | 0.39 | 0.17 | | |
| | 1999 | | | | 0.07 | | 0.06 | | |
| hilippines | | 75 | 18 | 314 | | 0.03 | | | |
| oland | 1998 | 39 | 19 | 39 | 0.06 | | | | |
| ortugal | 1996 | 30 | 7 | 53 | 0.74 | 0.57 | 0.25 | | |
| uerto Rico | | | | 9 | | | | | |
| omania | 1994 | 43 | 15 | 130 | 0.02 | 0.02 | 0.02 | | |
| ussian Federation | 1996 | 63 | 14 | 123 | 0.18 | 0.25 | 0.12 | | |



2.19 | Health: risk factors and future challenges

| | | | valence smoking | Incidence of tuberculosis | | Prevalence of HIV | , |
|------------------------------|------|--------|--------------------|---------------------------|-----------------------|------------------------------------|-----------------------------|
| | | % of a | adults | per 100,000 | % of | Youn _t male % age | g people female % age |
| | Year | Males | Females | people 1999 | adults 1999 | 15-24 1999 * | 15-24 1999 ª |
| Rwanda | 1994 | 7 | 4 | 381 | 11.21 | 5.22 | 10.63 |
| Saudi Arabia | 1994 | 40 | 8 | 45 | 0.01 | | |
| Senegal | | | | 258 | 1.77 | 0.71 | 1.60 |
| Sierra Leone | | | | 274 | 2.99 | 1.16 | 2.92 |
| Singapore | 1998 | 27 | 3 | 48 | 0.19 | 0.22 | 0.16 |
| Slovak Republic | 1996 | 55 | 30 | 28 | <0.01 | 0.02 | 0.01 |
| Slovenia | 1999 | 30 | 20 | 27 | 0.02 | 0.03 | 0.01 |
| Somalia | | •• | | 365 | | | |
| South Africa | 1998 | 42 | 11 | 495 | 19.94 | 11.34 | 24.82 |
| Spain | 1997 | 42 | 25 | 59 | 0.58 | 0.48 | 0.22 |
| Sri Lanka | 1998 | 41 | | 59 | 0.07 | 0.04 | 0.05 |
| Sudan | 1999 | 24 | 2 | 195 | 0.99 | | |
| Swaziland | 1994 | 25 | 2 | 564 | 25.25 | | |
| Sweden | 1998 | 17 | 22 | 4 | 0.08 | 0.06 | 0.04 |
| Switzerland | 1997 | 38 | 27 | 9 | 0.46 | 0.37 | 0.33 |
| Syrian Arab Republic | 2000 | 53 | 9 | 85 | 0.01 | | |
| ajikistan | | | | 105 | <0.01 | | |
| l'anzania | 1995 | 50 | 12 | 340 | 8.10 | 3.96 | 8.06 |
| hailand hailand | 1999 | 39 | 2 | 141 | 2.15 | 1.18 | 2.32 |
| ogo | | | | 313 | 5.98 | 2.20 | 5.53 |
| Frinidad and Tobago | | | | 12 | 1.05 | 0.84 | 0.59 |
| Tunisia | 1996 | 61 | 4 | 37 | 0.04 | | |
| Turkey | 1997 | 51 | 49 | 38 | 0.01 | | |
| Turkmenistan | 1990 | 27 | 1 | 90 | <0.01 | | |
| Jganda | 1995 | 52 | 17 | 343 | 8.30 | 3.84 | 7.82 |
| Jkraine | 2000 | 58 | 14 | 73 | 0.96 | 1.29 | 0.79 |
| United Arab Emirates | 1995 | 24 | 1 | 21 | 0.18 | •• | |
| Jnited Kingdom | 1997 | 29 | 28 | 12 | 0.11 | 0.09 | 0.05 |
| Jnited States | 1997 | 28 | 22 | 6 | 0.61 | 0.50 | 0.23 |
| Jruguay | 1995 | 32 | 14 | 29 | 0.33 | 0.41 | 0.21 |
| Jzbekistan | 1991 | 40 | 1 | 97 | <0.01 | •• | |
| /enezuela, RB | 1992 | 42 | 39 | 42 | 0.49 | 0.65 | 0.15 |
| /ietnam | 1995 | 73 | 4 | 189 | 0.24 | 0.27 | 0.09 |
| Vest Bank and Gaza | - | | | 28 | | | |
| /emen, Rep. | 1997 | 60 | 29 | 108 | 0.01 | | |
| /ugoslavia, FR (Serb./Mont.) | | | | 47 | 0.10 | | |
| Zambia | 1996 | 35 | 10 | 495 | 19.95 | 8.20 | 17.77 |
| Zimbabwe | 1993 | 34 | 1 | 562 | 25.06 | 11.31 | 24.50 |

| World | 47 w | 12 w | 142 w | 1.05 w | 0.70 w | 1.07 w |
|-------------------------|------|------|-------|--------|--------|--------|
| Low income | 43 | 9 | 229 | 2.01 | 1.13 | 2.00 |
| Middle income | 55 | 11 | 104 | 0.53 | 0.49 | 0.59 |
| Lower middle income | 58 | 7 | 110 | 0.18 | 0.21 | 0.16 |
| Upper middle income | 44 | 26 | 84 | 1.84 | 1.47 | 2.23 |
| Low & middle income | 50 | 10 | 163 | 1.19 | 0.79 | 1.25 |
| East Asia & Pacific | 64 | 6 | 142 | 0.22 | 0.19 | 0.16 |
| Europe & Central Asia | 51 | 20 | 85 | 0.18 | 0.39 | |
| Latin America & Carib. | 37 | 25 | 75 | 0.58 | 0.67 | 0.30 |
| Middle East & N. Africa | 40 | 7 | 66 | 0.03 | | |
| South Asia | 40 | 8 | 191 | 0.56 | 0.29 | 0.48 |
| Sub-Saharan Africa | | | 339 | 8.38 | 4.54 | 9.20 |
| High income | 35 | 22 | 16 | 0.33 | 0.28 | 0.14 |
| Europe EMU | 38 | 25 | 20 | 0.31 | 0.25 | 0.15 |

a. Average of high and low estimates.

Health: risk factors and future challenges | 2.19



About the data

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 a number of 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 high-income countries, it has been increasing in many low- and middleincome 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 intensity of smoking or duration, they should be interpreted with caution. The data in the table are based on surveys and other studies compiled in Tobacco Control Country Profiles (Corrao and others 2000), issued for the 2000 World Conference on Tobacco or Health.

Tuberculosis is the main cause 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.

Adult HIV prevalence rates reflect the rate of HIV infection in each country's population. Low national prevalence rates, however, can be very misleading. They often disguise serious epidemics that are initially concentrated in certain localities or among specific population groups and that threaten to spill over into the wider population. In many parts of the developing world the majority of new infections occur in young adults, with young women especially vulnerable. About one-third of those currently living with HIV/AIDS are in the age group 15-24. The estimates of HIV prevalence are based on extrapolations from data collected through surveys and surveillance of small, nonrepresentative groups.

Table 2.19a

Bednets save lives

Percentage of children under five who sleep under a treated bednet

| São Tomé and Principe | 53 |
|-----------------------|----|
| Malawi | 38 |
| Niger | 35 |
| Gambia, The | 35 |
| Vietnam | 32 |
| Tajikistan | 32 |
| Cameroon | 12 |
| Senegal | 11 |
| Guyana | 11 |
| Azerbaijan | 11 |
| Sierra Leone | 10 |
| Tanzania | 10 |
| Chad | 2 |
| Madagascar | 1 |
| Lao, PDR | 0 |
| | |

Source: UNICEF Multiple Indicator Cluster Surveys, (www.childinfo.org).

Malaria is endemic in the poorest countries in the world, causing 300-500 million clinical cases and more than one million deaths per year. More than 90 percent of malaria deaths occur in Sub-Saharan Africa, and almost all deaths are in children under five. Over the last two decades, morbidity and mortality from malaria have been increasing as a result of growing drug and insecticide resistance, deteriorating health systems, changes in weather patterns, and population displacement.

Roll Back Malaria is a partnership, founded by the WHO, UNICEF, the United Nations Development Programme, and the World Bank in 1998 with the objective of halving the malaria burden world-wide by the year 2010. This goal can be achieved only if a number of strategies that have proven effective, sustainable, and cost-effective are implemented. Among the core strategies is the widespread use of insecticide-treated bednets to limit human-mosquito contact. In areas of Sub-Saharan Africa with high levels of malaria transmission, regular use of an insecticide-treated bednet can reduce mortality in children under five by as much as 30 percent.

Definitions

- **Prevalence of smoking** is the percentage of men and women who smoke cigarettes. The age range varies among countries, but in most is 18 and above or 15 and above.
- Incidence of tuberculosis is the estimated number of new tuberculosis cases (pulmonary, smear positive, extrapulmonary).
 Prevalence of HIV refers to the percentage of people who are infected with HIV.

Data sources

The data are drawn from a variety of sources, including the WHO's World Health Report 2000 and Global Tuberculosis Control Report 1999; the NATIONS database (http://apps.nccd.cdc.gov/nations/) and UNAIDS and the WHO's AIDS Epidemic Update (2000).

2.20 | Mortality

| 2.20 | IVIO | Italli | Ly | | | | | | | | | |
|--------------------------|-----------------------------|--------------------|------------|--------------------------------|------------------------------|----------------------|-------------------|--|----------------------------------|------------------------------|-----------------------|--------------------------------|
| | Life expectancy at birth | | 1 | mortality ate | ty Under-five mortality rate | | | ortality te | | nortality ate | Survival to age 65 | |
| | yea 1980 | ars 2000 | | 1,000 births 2000 | per : | 1,000 2000 | Male per 1,000 | Female per 1,000 1988-2000 ^a | Male per 1,000 2000 | Female per 1,000 2000 | % of co | ohort Female 2000 |
| Afghanistan | 40 | 43 | 177 | 163 | 280 | 279 | | | 394 | 353 | 31 | 31 |
| Albania | 69 | 74 | 47 | 20 | 57 | | 15 | 15 | 171 | 86 | 76 | 84 |
| Algeria | 59 | 71 | 98 | 33 | 139 | 39 | | | 149 | 127 | 73 | 79 |
| Angola | 41 | 47 | 154 | 128 | 261 | 208 | | | 442 | 391 | 34 | 38 |
| Argentina | 70 | 74 | 35 | 17 | 38 | 22 | | | 178 | 89 | 74 | 86 |
| Armenia | 73 | 74 | 26 | 15 | | 17 | | | 171 | 76 | 74 | 86 |
| Australia | 74 | 79 | 11 | 5 | 13 | 7 | | | 102 | 54 | 83 | 91 |
| Austria | 73 | 78 | 14 | 5 | 17 | 6 | | | 126 | 60 | 81 | 90 |
| Azerbaijan | 69 | 72 | 30 | 13 | | 21 | | | 207 | 103 | 68 | 83 |
| Bangladesh | 49 | 61 | 132 | 60 | 211 | 83 | 28 | 38 | 278 | 272 | 57 | 59 |
| Belarus | 71 | 68 | 16 | 11 | | 14 | | | 361 | 128 | 53 | 80 |
| Belgium | 73 | 78 | 12 | 5 | 15 | 7 | | | 129 | 66 | 81 | 90 |
| Benin | 48 | 53 | 116 | 87 | 214 | 143 | 89 | 90 | 373 | 322 | 42 | 48 |
| Bolivia | 52 | 63 | 118 | 57 | 170 | 79 | 26 | 26 | 258 | 214 | 58 | 66 |
| Bosnia and Herzegovina | 70 | 73 | 31 | 13 | | 18 | | | 165 | 90 | 73 | 84 |
| Botswana | 58 | 39 | 71 | 58 | 94 | 99 | 18 | 16 | 792 | 747 | 13 | 17 |
| Brazil | 63 | 68 | 71 | 32 | OF | 39 | 8 | 9 | 252 | 137 | 61 | 78 |
| Bulgaria | 71 | 72 | 20 | 13 | 25 | 16 | 121 | 120 | 227 | 106 | 67 | 82 |
| Burkina Faso Burundi | 44 | 44 | 134 122 | 104 102 | 193 | 206 176 | 131 101 | 128 114 | 557 620 | 524 582 | 27 25 | 31 28 |
| Cambodia | 39 | 54 | 183 | 88 | 330 | 120 | 34 | 30 | 381 | 322 | 41 | 47 |
| Cameroon | 50 | 50 | 103 | 76 | 173 | 155 | 69 | 75 | 490 | 433 | 34 | 39 |
| Canada | 75 | 79 | 10 | 5 | 13 | 7 | | | 105 | 60 | 83 | 91 |
| Central African Republic | 46 | 43 | 117 | 96 | | 152 | 63 | 64 | 612 | 561 | 24 | 28 |
| Chad | 42 | 48 | 123 | 101 | 235 | 188 | 106 | 99 | 433 | 383 | 37 | 42 |
| Chile | 69 | 76 | 32 | 10 | 35 | 12 | 3 | 2 | 153 | 83 | 77 | 87 |
| China | 67 | 70 | 42 | 32 | 65 | 39 | 10 | 11 | 161 | 115 | 71 | 77 |
| Hong Kong, China | 74 | 80 | 11 | 3 | | | | | 102 | 52 | 84 | 91 |
| Colombia | 66 | 72 | 41 | 20 | 58 | 23 | 4 | 3 | 203 | 114 | 70 | 82 |
| Congo, Dem. Rep. | 49 | 46 | 112 | 85 | 210 | 163 | | | 514 | 481 | 30 | 33 |
| Congo, Rep. | 50 | 51 | 88 | 68 | 125 | 106 | | | 476 | 403 | 35 | 42 |
| Costa Rica | 73 | 77 | 19 | 10 | 29 | 13 | | | 120 | 72 | 81 | 89 |
| Côte d'Ivoire | 49 | 46 | 108 | 111 | 170 | 180 | 71 | 58 | 535 | 506 | 30 | 33 |
| Croatia | 70 | 73 | 21 | 8 | 23 | 9 | | | 154 | 117 | 69 | 86 |
| Cuba | 74 | 76 | 20 | 6 | 22 | 9 | | | 121 | 76 | 80 | 87 |
| Czech Republic | 70 | 75 | 16 | 4 | 19 | 7 | | | 168 | 78 | 74 | 86 |
| Denmark | 74 | 76 | 8 | 4 | 10 | 6 | | | 132 | 83 | 79 | 87 |
| Dominican Republic | 63 | 67 | 76 | 39 | 92 | 47 | 13 | 13 | 233 | 148 | 61 | 73 |
| Ecuador | 63 | 70 | 74 | 28 | 101 | 34 | 12 | 9 | 185 | 123 | 70 | 75 |
| Egypt, Arab Rep. | 56 | 67 | 121 | 42 | 175 | 52 | 15 | 16 | 189 | 153 | 67 | 73 |
| El Salvador | 57 | 70 | 84 | 29 | 120 | 35 | 17 | 20 | 243 | 141 | 67 | 80 |
| Eritrea | 44 | 52 | | 60 | | 103 | 89 | 78 | 466 | 417 | 37 | 41 |
| Estonia | 69 | 71 | 17 | 8 | 25 | 11 | | | 294 | 104 | 58 | 83 |
| Ethiopia | 42 73 | 42 | 155 8 | 98 | 213 9 | 179 5 | 83 | 86 | 575 | 530 60 | 25 79 | 29 90 |
| France | 74 | 77 79 | 10 | 4 | 14 | 6 | •• | | 137 138 | 59 | 81 | 90 |
| Gabon | 48 | 53 | 104 | 58 | | 89 | 32 | 33 | 391 | 348 | 44 | 49 |
| Gambia, The | 40 | 53 | 159 | 73 | 216 | | 83 | 79 | 436 | 388 | 40 | 46 |
| Georgia | 71 | 73 | 25 | 17 | | 21 | | | 211 | 82 | 70 | 85 |
| Germany | 73 | 77 | 12 | 4 | 16 | 6 | | | 127 | 61 | 79 | 89 |
| Ghana | 53 | 57 | 94 | 58 | 157 | 112 | 53 | 51 | 334 | 294 | 46 | 49 |
| Greece | 74 | 78 | 18 | 5 | 23 | 8 | | | 114 | 51 | 81 | 89 |
| Guatemala | 57 | 65 | 84 | 39 | | 49 | 15 | 18 | 288 | 185 | 58 | 70 |
| Guinea | 40 | 46 | 151 | 95 | | 161 | 101 | 98 | 448 | 443 | 31 | 32 |
| Guinea-Bissau | 39 | 45 | 169 | 126 | 290 | 211 | | | 473 | 420 | 33 | 37 |
| Haiti | 51 | 53 | 124 | 73 | 200 | 111 | 52 | 54 | 459 | 355 | 38 | 46 |
| Honduras | 60 | 66 | 70 | 35 | 103 | 44 | | | 245 | 152 | 58 | 70 |
| | | | | | | | | | | | | |

Mortality | 2.20



| | | | | | | | | 1 7 1 | ortan | | 2.20 | | |
|--------------------|-----------------------------|----------------------|--------------------------------|-----|----------------------|----------------------|---|--|----------------------------------|------------------------------|-------------------------------|----------------|--|
| | Life expectancy at birth | | | | | r-five ity rate | Child m | - 1 | | ortality te | Survival to age 65 | | |
| | | | | 000 | | | Maria | Family | Mala | Family | 0/ -5 - | and the seal | |
| | 1980 | years 2000 | per 1 live b 1980 | | per 1 1980 | .,000 2000 | Male per 1,000 1988-2000 ^a | Female per 1,000 1988-2000 ^a | Male per 1,000 2000 | Female per 1,000 2000 | % of c Male 2000 | Female 2000 | |
| Hungary | 70 | 71 | 23 | 9 | 26 | 11 | | | 272 | 116 | 65 | 83 | |
| India | 54 | 63 | 115 | 69 | 177 | 88 | 25 | 37 | 222 | 209 | 60 | 63 | |
| Indonesia | 55 | 66 | 90 | 41 | 125 | 51 | 19 | 20 | 232 | 180 | 62 | 70 | |
| Iran, Islamic Rep. | 58 | 69 | 98 | 33 | 126 | 41 | | | 166 | 148 | 71 | 74 | |
| Iraq | 62 | 61 | 80 | 93 | 95 | 121 | | | 225 | 185 | 62 | 66 | |
| Ireland | 73 | 76 | 11 | 6 | 14 | 7 | | | 112 | 67 | 78 | 87 | |
| Israel | 73 | 78 | 16 | 6 | 19 | 7 | | | 104 | 62 | 83 | 89 | |
| Italy | 74 | 79 | 15 | 5 | 17 | 7 | | | 113 | 52 | 80 | 91 | |
| Jamaica | 71 | 75 | 33 | 20 | 39 | 24 | | | 127 | 85 | 79 | 86 | |
| Japan | 76 | 81 | 8 | 4 | 10 | 5 | | | 96 | 44 | 85 | 93 | |
| Jordan | | 72 | 41 | 25 | | 30 | 7 | 5 | 153 | 116 | 73 | 79 | |
| Kazakhstan | 67 | 65 | 33 | 21 | | 28 | 11 | 6 | 378 | 166 | 49 | 73 | |
| Kenya | 55 | 47 | 75 | 78 | 115 | 120 | 36 | 38 | 600 | 558 | 28 | 32 | |
| Korea, Dem. Rep. | 67 | 61 | 32 | 54 | 43 | 90 | | | 315 | 233 | 53 | 60 | |
| Korea, Rep. | 67 | 73 | 26 | 8 | 27 | 10 | | | 186 | 81 | 71 | 85 | |
| Kuwait | 71 | 77 | 27 | 9 | 35 | 13 | | | 117 | 70 | 81 | 87 | |
| Kyrgyz Republic | 65 | 67 | 43 | 23 | | 35 | 10 | 11 | 297 | 136 | 57 | 77 | |
| Lao PDR | 45 | 54 | 127 | 92 | 200 | | | | 374 | 313 | 43 | 48 | |
| Latvia | 69 | 70 | 20 | 10 | 26 | 17 | | | 296 | 121 | 59 | 83 | |
| Lebanon | 65 | 70 | 48 | 26 | | 30 | | | 171 | 127 | 70 | 77 | |
| Lesotho | 53 | 44 | 119 | 91 | 168 | 143 | | | 557 | 523 | 25 | 28 | |
| Liberia | 51 | 47 | 153 | 111 | 235 | 185 | | | 431 | 395 | 34 | 38 | |
| Libya | 60 | 71 | 53 | 26 | 80 | 32 | 6 | 5 | 181 | 135 | 71 | 80 | |
| Lithuania | 71 | 73 | 20 | 9 | 24 | 11 | | | 248 | 86 | 65 | 86 | |
| Macedonia, FYR | | 73 | 54 | 14 | 69 | 17 | | •• | 159 | 100 | 74 | 83 | |
| Madagascar | 51 | 55 | 119 | 88 | 216 | 144 | 75 | 68 | 324 | 283 | 48 | 53 | |
| Malawi | 44 | 39 | 169 | 103 | 265 | 193 | 101 | 102 | 593 | 574 | 19 | 22 | |
| Malaysia | 67 | 73 | 30 | 8 | 42 | 11 | 4 | 4 | 186 | 110 | 71 | 81 | |
| Mali | 42 | 42 | 184 | 120 | | 218 | 136 | 138 | 496 | 441 | 25 | 28 | |
| Mauritania | 47 | 52 | 120 | 101 | 188 | 164 | | | 360 | 307 | 44 | 49 | |
| Mauritius | 66 | 72 | 32 | 16 | 40 | 20 | •• | •• | 199 | 102 | 69 | 83 | |
| Mexico | 67 | 73 | 51 | 29 | 74 | 36 | 15 | 17 | 155 | 94 | 74 | 84 | |
| Moldova | 66 | 68 | 35 | 18 | | 22 | | | 306 | 172 | 58 | 74 | |
| Mongolia | 58 | 67 | 82 | 56 | •• | 71 | 27 | 22 | 196 | 168 | 68 | 73 | |
| Morocco | 58 | 67 | 99 | 47 | 152 | 60 | 21 | 19 | 195 | 142 | 66 | 74 | |
| | 44 | 42 | 145 | 129 | | 200 | 84 | 82 | 591 | 527 | 24 | 29 | |
| Mozambique | | | | | | | | | | | | | |
| Myanmar | 51 | 56 | 113 | 89 | 134 | 126 | | | 357 | 262 | 44 | 55 | |
| Namibia | 53 | 47 | 90 | 62 | 114 | 112 | 30 | 34 | 588 | 542 | 21 | 24 | |
| Nepal | 48 | 59 | 132 | 74 | 180 | 105 | | | 260 | 265 | 57 | 54 | |
| Netherlands | 76 | 78 | 9 | 5 | 11 | 7 | | | 100 | 65 | 81 | 89 | |
| New Zealand | 73 | 78 | 13 | 6 | 16 | 7 | | | 119 | 69 | 82 | 89 | |
| Nicaragua | 59 | 69 | 84 | 33 | 143 | 41 | 12 | 11 | 200 | 136 | 67 | 76 | |
| Niger | 42 | 46 | 135 | 114 | 317 | 248 | 184 | 202 | 476 | 389 | 30 | 36 | |
| Nigeria | 46 | 47 | 99 | 84 | 196 | 153 | 66 | 69 | 468 | 418 | 32 | 35 | |
| Norway | 76 | 79 | 8 | 4 | 11 | 5 | | | 107 | 61 | 82 | 90 | |
| Oman | 60 | 74 | 41 | 17 | 95 | 22 | | | 136 | 101 | 77 | 82 | |
| Pakistan | 55 | 63 | 127 | 83 | 157 | 110 | 22 | 37 | 194 | 164 | 63 | 68 | |
| Panama | 70 | 75 | 32 | 20 | 36 | 24 | | | 133 | 81 | 77 | 85 | |
| Papua New Guinea | 51 | 59 | 78 | 56 | | 75 | 28 | 21 | 360 | 329 | 49 | 52 | |
| Paraguay | 67 | 70 | 50 | 23 | 61 | 28 | 10 | 12 | 184 | 119 | 68 | 79 | |
| Peru | 60 | 69 | 81 | 32 | 126 | 41 | 19 | 20 | 193 | 132 | 68 | 77 | |
| Philippines | 61 | 69 | 65 | 31 | 81 | 39 | 21 | 19 | 190 | 142 | 68 | 76 | |
| Poland | 70 | 73 | 26 | 9 | | 11 | | | 221 | 86 | 70 | 86 | |
| Portugal | 71 | 76 | 24 | 6 | 31 | 8 | | | 153 | 69 | 76 | 88 | |
| Puerto Rico | 74 | 76 | 19 | 10 | | | | | 151 | 57 | 75 | 90 | |
| Romania | 69 | 70 | 29 | 19 | 36 | 23 | 7 | 5 | 250 | 117 | 63 | 79 | |
| Russian Federation | 67 | 65 | 22 | 16 | | 19 | 3 | 2 | 416 | 148 | 47 | 75 | |

2.20 | Mortality

| | Life expectancy at birth | | ncy Infant mortality rate | | Under-five mortality rate | | | Child mortality rate | | Adult mortality rate | | Survival to age 65 | |
|-------------------------|-----------------------------|-------|---------------------------|--------------------------|------------------------------|------|----------------|-------------------------|-------------------|-------------------------|----------------------------|-----------------------|--|
| | vea | years | | per 1,000 live births | | ,000 | Male per 1,000 | Female per 1,000 | Male per 1,000 | Female per 1,000 | % of cohort Male Female | | |
| | 1980 | 2000 | 1980 | 2000 | 1980 | 2000 | 1988-2000ª | 1988-2000° | 2000 | 2000 | 2000 | 2000 | |
| Rwanda | 46 | 40 | 128 | 123 | | 203 | 87 | 73 | 614 | 581 | 22 | 24 | |
| Saudi Arabia | 61 | 73 | 65 | 18 | 85 | 23 | | | 155 | 120 | 75 | 81 | |
| Senegal | 45 | 52 | 117 | 60 | | 129 | 76 | 74 | 401 | 303 | 32 | 40 | |
| Sierra Leone | 35 | 39 | 190 | 154 | 336 | 267 | | | 527 | 477 | 26 | 30 | |
| Singapore | 71 | 78 | 12 | 3 | 13 | 6 | | | 122 | 68 | 82 | 88 | |
| Slovak Republic | 70 | 73 | 21 | 8 | 23 | 10 | | | 212 | 85 | 69 | 85 | |
| Slovenia | 70 | 75 | 15 | 5 | 18 | 7 | | | 165 | 73 | 75 | 88 | |
| Somalia | 43 | 48 | 145 | 117 | 246 | 195 | | | 397 | 340 | 38 | 44 | |
| South Africa | 57 | 48 | 67 | 63 | 91 | 79 | | | 549 | 487 | 26 | 32 | |
| Spain | 76 | 78 | 12 | 4 | 16 | 6 | | | 125 | 52 | 80 | 91 | |
| Sri Lanka | 68 | 73 | 34 | 15 | 48 | 18 | 10 | 9 | 161 | 92 | 76 | 83 | |
| Sudan | 48 | 56 | 117 | 81 | 145 | | 62 | 63 | 330 | 289 | 51 | 55 | |
| Swaziland | 52 | 46 | 100 | 89 | 151 | 119 | | | 567 | 526 | 25 | 29 | |
| Sweden | 76 | 80 | 7 | 3 | 8 | 4 | | | 91 | 56 | 84 | 91 | |
| Switzerland | 76 | 80 | 9 | 4 | 11 | 6 | | | 105 | 58 | 84 | 92 | |
| Syrian Arab Republic | 62 | 70 | 56 | 24 | 73 | 29 | | | 180 | 134 | 68 | 77 | |
| Tajikistan | 66 | 69 | 58 | 21 | | 30 | | | 236 | 142 | 63 | 75 | |
| Tanzania | 50 | 44 | 108 | 93 | 176 | 149 | 61 | 58 | 562 | 521 | 26 | 30 | |
| Thailand | 64 | 69 | 49 | 28 | 58 | 33 | 11 | 11 | 229 | 144 | 66 | 75 | |
| Togo | 49 | 49 | 100 | 75 | 188 | 142 | 75 | 90 | 473 | 431 | 37 | 41 | |
| Trinidad and Tobago | 68 | 73 | 35 | 16 | 40 | 19 | 4 | 3 | 181 | 133 | 72 | 80 | |
| Tunisia | 62 | 72 | 69 | 26 | 100 | 30 | 19 | 19 | 166 | 121 | 74 | 81 | |
| Turkey | 61 | 70 | 109 | 34 | 133 | 43 | 12 | 14 | 188 | 125 | 68 | 78 | |
| Turkmenistan | 64 | 66 | 54 | 27 | | 43 | | | 282 | 157 | 58 | 73 | |
| Uganda | 48 | 42 | 116 | 83 | 180 | 161 | 82 | 72 | 604 | 590 | 24 | 27 | |
| Ukraine | 69 | 68 | 17 | 13 | | 16 | | | 335 | 132 | 55 | 79 | |
| United Arab Emirates | 68 | 75 | 55 | 7 | | 10 | | | 127 | 91 | 79 | 84 | |
| United Kingdom | 74 | 77 | 12 | 6 | 14 | 7 | | | 113 | 66 | 80 | 88 | |
| United States | 74 | 77 | 13 | 7 | 15 | 9 | | | 138 | 81 | 80 | 90 | |
| Uruguay | 70 | 74 | 37 | 14 | 42 | 17 | | | 166 | 74 | 73 | 87 | |
| Uzbekistan | 67 | 70 | 47 | 22 | | 27 | 15 | 9 | 226 | 127 | 65 | 78 | |
| Venezuela, RB | 68 | 73 | 36 | 19 | 42 | 24 | | | 176 | 100 | 74 | 84 | |
| Vietnam | 60 | 69 | 57 | 27 | 105 | 34 | | | 206 | 141 | 66 | 76 | |
| West Bank and Gaza | | 72 | | 22 | | 26 | 10 | 7 | 160 | 103 | 73 | 82 | |
| Yemen, Rep. | 49 | 56 | 141 | 76 | 198 | 95 | 33 | 36 | 311 | 288 | 49 | 51 | |
| Yugoslavia, Fed. Rep. | 70 | 72 | 33 | 13 | | 15 | | | 174 | 105 | 72 | 81 | |
| Zambia | 50 | 38 | 90 | 115 | 149 | 186 | 96 | 93 | 655 | 634 | 16 | 20 | |
| Zimbabwe | 55 | 40 | 80 | 69 | 108 | 116 | 35 | 31 | 630 | 594 | 18 | 19 | |
| World | 63 w | 66 w | 80 w | 54 w | 124 w | 78 w | / w | w | 224 w | 168 w | 69 w | 78 w | |
| Low income | 53 | 59 | 112 | 76 | 176 | 115 | | | 294 | 261 | 64 | 69 | |
| Middle income | 66 | 70 | 55 | 31 | 79 | 39 | | | 199 | 127 | 63 | 80 | |
| Lower middle income | 66 | 69 | 54 | 33 | 81 | 41 | 10 | 11 | 192 | 125 | 61 | 78 | |
| Upper middle income | 65 | 70 | 57 | 28 | | 35 | | | 224 | 136 | 68 | 82 | |
| Low & middle income | 60 | 64 | 87 | 58 | 136 | 84 | | | 242 | 187 | 64 | 73 | |
| East Asia & Pacific | 64 | 69 | 56 | 35 | 82 | 45 | 10 | 11 | 183 | 132 | 69 | 76 | |
| Europe & Central Asia | 68 | 69 | 41 | 20 | | 25 | | | 298 | 127 | 59 | 80 | |
| Latin America & Carib. | 65 | 70 | 61 | 29 | •• | 37 | | | 208 | 121 | 67 | 81 | |
| Middle East & N. Africa | 58 | 68 | 98 | 43 | 136 | 54 | | | 183 | 151 | 68 | 73 | |
| South Asia | 54 | 62 | 119 | 73 | 179 | 96 | 25 | 37 | 227 | 212 | 62 | 65 | |
| Sub-Saharan Africa | 48 | 47 | 119 | 91 | 187 | 162 | | | 504 | 459 | 40 | 46 | |
| | | | | 6 | | 7 | | | | | | 90 | |
| High income | 74 | 78 | 12 | О | 15 | 1 | | •• | 122 | 64 | 81 | 90 | |

a. Data are for the most recent year available.

Europe EMU

Mortality | 2.20



About the data

Mortality rates for different age groups—infants, children, or 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) frequently are 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 preselected 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 for 2000 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.

Specific problems arise in calculating infant mortality rates in developing countries, where routine data collection in the health system often omits many infant deaths. In countries where civil registration of deaths is incomplete, many infants dying during the first weeks of life may not even have been registered as having been born. Rates based on civil registration in these countries, or on hospital data covering mainly urban areas, are therefore biased because they reflect the more privileged population. Infant and child mortality rates are higher for boys than for girls in countries in which parental gender preferences are absent. 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, it is likely that girls 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 current age-specific mortality rates and used in the construction of life tables. It shows that even in countries where mortality is high, a certain share of the current birth cohort will live well beyond the life expectancy at birth, while in low-mortality countries close to 90 percent will reach at least age 65.

Table 2.20a

Differences in life expectancy shrink at older ages

Additional years of life expectancy at age 60, selected countries

| | 2000 (estimate) | 2020 (projection) |
|--------------------|--------------------|--------------------------|
| Brazil | 17.1 | 18.6 |
| China | 17.9 | 19.5 |
| India | 15.6 | 16.8 |
| Nigeria | 15.1 | 15.8 |
| Russian Federation | 15.7 | 17 |
| Turkey | 17.8 | 19.4 |

Source: World Bank staff estimates

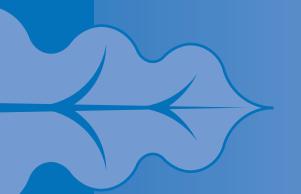
Changes in life expectancy at birth are strongly influenced by trends in infant and child mortality. The rapid improvements in life expectancy in the second half of the 20th century were the result of decilining childhood mortality. Improvements in mortality at the oldest ages add fewer years of life to overall life expectancy, and differences among countries in life expectancy at older ages are therefore considerably smaller than at birth. Nevertheless, mortality at older ages has also declined, and is expected to continue to do so in the next decades. This trend, together with the increasing number of people who are entering the older ages, will result in a rapidly growing elderly population.

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 the age of one year, per 1,000 live births in a given year. 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.
- **Child mortality rate** is the probability of dying between the ages of one and five, if subject to current age-specific mortality rates.
- Adult mortality rate is the probability of dying between the ages of 15 and 60—that is, the probability of a 15-year-old dying before reaching age 60, if subject to current agespecific mortality rates between ages 15 and 60. 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.

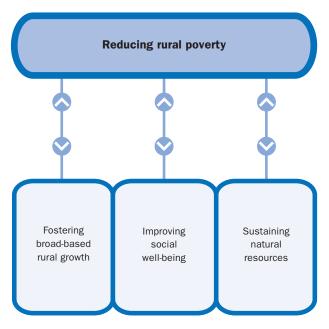
Data sources

The data are from the United Nations Statistics Division's *Population and Vital Statistics Report;* publications and other releases from country statistical offices; Demographic and Health Surveys from national sources and Macro International; and the United Nations Children's Fund's (UNICEF) *State of the World's Children 2000.*



ENVIRONMENT





To reduce rural poverty . . .

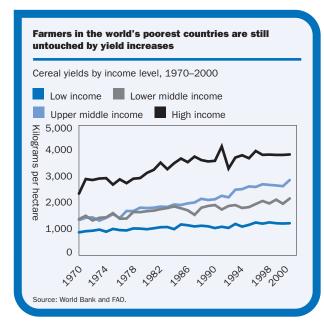
Poverty is overwhelmingly rural, with some 70 percent of the poorest people in developing countries living in rural areas. Although the number and proportion of poor people in cities are expected to grow rapidly in the next decades, the majority of the poor will continue to live in the countryside. So reducing poverty and ending hunger require more attention to the rural economy and to rural development.

But there's a problem: most countries—in their development strategies and in their allocations of resources—favor cities. Rural people, especially women and ethnic minorities, have little political clout, so they cannot influence public policy to attract more public investment to rural areas. Reducing rural poverty requires dealing with the entire rural space—with all of rural society and with both farm and nonfarm aspects of the economy.

What will contribute most to faster growth in rural economies and to more poverty reduction? Three things: fostering broad-based rural growth, improving social well-being (in part by managing risk and reducing vulnerability), and sustaining natural resources. Each country's priorities will depend on its level of development—and its success on a policy and institutional environment conducive to rural development.

Agricultural yields growing, but lowincome countries lagging

It took more than 1,000 years for the United Kingdom to increase wheat yields from 0.5 to 2 tons a hectare (in the 1950s) but only 40 years to triple yields to 6 tons a hectare. What made such a dramatic breakthrough possible? Massive public investment in agricultural research—research that has allowed most industrial and many developing countries to sustain food surpluses.



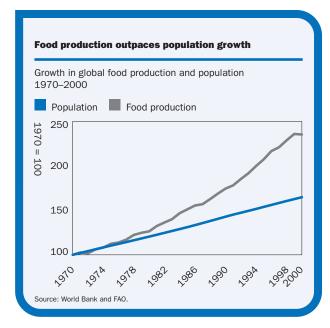
About 900 million of the world's poor people live in rural areas, most of them farmers, many of them untouched by the yield advances in industrial countries. Yet for many poorer developing countries agriculture is the main source of economic growth, and agricultural growth is the cornerstone of poverty reduction.

Increasing the productivity of agriculture is thus essential for these countries. A 10 percent increase in crop yields can reduce the proportion of people living on less than \$1 a day by between 6 and 12 percent (Thirtle and others 2000). Imagine what a tripling of yields might do.

Increase agricultural productivity.

Food production outpaces population, but malnourishment persists

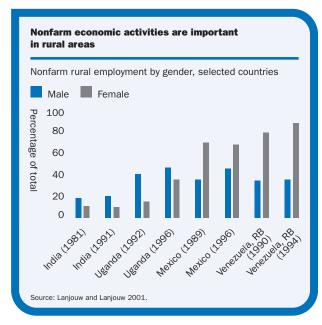
The rise in food production has outpaced population growth in all regions except Africa. And this has been achieved with only small increases in cropland. For example, Asia doubled cereal production after 1970 with only 4 percent more cropland (Hazell 2001).



Because of such productivity gains (and the food aid from industrial countries that subsidize agriculture), food prices have been falling. Even so, more than 150 million children under five are malnourished—because of low incomes and poor food distribution.

Agriculture is not enough

As economies develop, activities off the farm become much more important, providing jobs and reducing poverty. Workers follow a diverse array of opportunities, often sending much of their income back home. The new activities, generally linked to agriculture and infrastructure, contribute 30–50 percent of total income in rural areas.

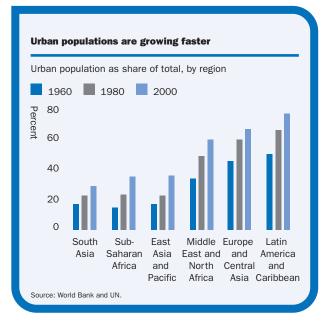


The new activities off the farm provide work in the slack periods of the agricultural cycle. Studies of African farm households suggest that 15-65 percent of farmers also work off the farm and that 15-40 percent of family labor hours go to such income-generating activities. And these are underestimates. Much nonfarm activity in developing countries, especially that of women, is not taken into account. Activities such as clothing production, food processing, and education for the household are not included in figures on income generation.

Boost the nonfarm economy.

Rapid urban growth affects the rural space

In the next 30 years almost all population growth will be concentrated in urban areas. The pace will be fastest in developing countries, where the urban population is forecast to increase from 1.94 billion to 3.88 billion. The number of people in African cities will jump from 297 million to 766 million, or more than the total population today. In Asia the urban population will almost double from 1.35 billion to 2.61 billion.

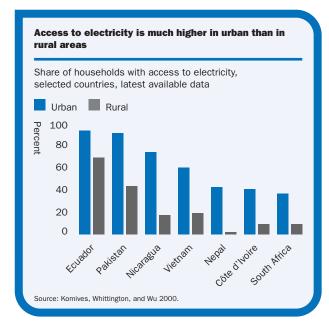


Rapid urbanization has strengthened the links between rural and urban economies, blurring the distinction between them, in part because rural workers now take advantage of the new opportunities in small towns and cities.

But it has also increased air and water pollution and traffic congestion. Such environmental problems stretch beyond urban boundaries, affecting rural people as well. Industrial effluents in rivers can poison agriculture downstream. And in some parts of the world urban sprawl is encroaching on prime agricultural land.

Rural infrastructure is lagging

Rural residents are often more deprived of health and education than they are of income, since their access to those services is often limited and the services available are lower in quality than those in urban areas. They are also deprived of physical infrastructure, again of low quality if it is available. This "urban bias" imposes substantial costs on almost all rural economic activity.

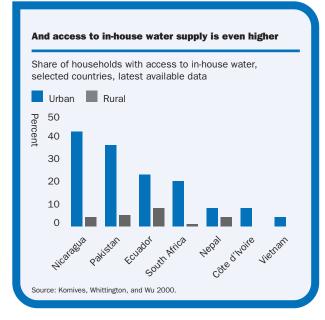


Dependence on the weather makes the rural poor more vulnerable to economic shocks. Nor are they spared a country's financial shocks, which often hurt them as much as urban dwellers, sometimes even more. Better social and physical infrastructure can do much to help reduce their vulnerability, to manage their risks, and to improve their well-being.

Improve physical and social infrastructure.

Limited infrastructure hurts rural well-being

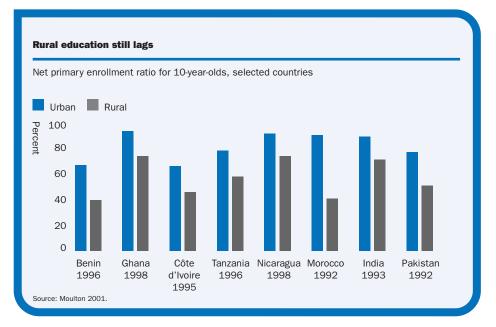
The availability of transport, energy, water supply, sanitation, and communication services in rural areas remains limited. Access to electricity, in-house water supply, and telephones is on average two to five times higher in urban areas than in rural (Komives, Whittington, and Wu 2000). That is bad for markets, which thrive on good transport and information. It is also bad for households. The lack of safe water is a major contributor to diarrhea,



a frequent cause of death among children in rural areas. Also contributing to illness for the rural poor is their lack of access to appropriate sanitation. Globally, the number of people with access to improved sanitation increased from 2.9 billion in 1990 to 3.7 billion in 2000. But 2.4 billion people still lack access. Most—2 billion of them—live in rural areas.

Schooling helps

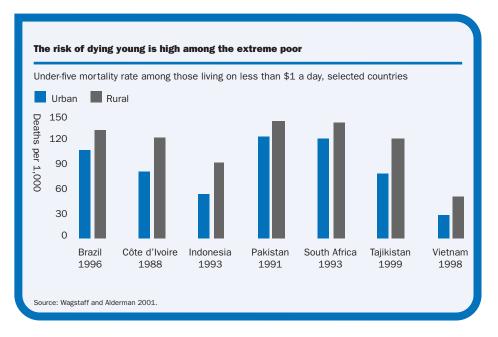
Education—by enabling individuals and households to harness knowledge, increase and diversify incomes, manage risks, and increase social mobility—offers the prospect of breaking out of the cycle of poverty. In the rural space it also improves agricultural productivity and efficiency. And it is good for taking advantage of opportunities off the farm. But investments in education can bring even more benefits for development, as improved women's education is associated with lower fertility and slower population growth.



Narrow the urban and rural access gap,

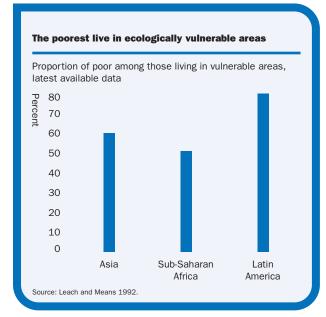
So do better health and nutrition

Poverty exposes people to illness and disease. And illness and disease push families into poverty—a vicious cycle. Rural communities routinely report that poor health afflicts their poorest members. Disease and illness also reduce labor productivity and economic growth, by keeping adults out of the labor force and reducing the intensity of their work effort. And child malnutrition even affects future work, since it increases the risks of illness and death in adulthood. Another vicious cycle.



Degrading natural resources affects the poor most

Whether the world will continue to feed itself depends in large part on the future of the world's natural resource base. That depends, in turn, on whether poverty is reduced, for poverty and environmental degradation are often closely linked. Natural resources provide fundamental support to life and economic processes in the rural space. Soils are the food of agriculture. Forests protect water sources and provide income for more than 1.6 billion people. Biodiversity, the basis for protecting and



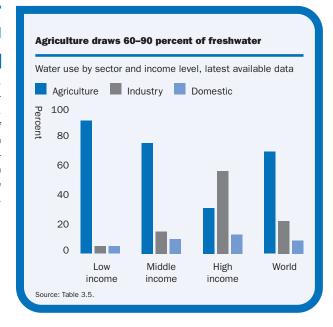
improving domestic plant and animal varieties, safeguards food security.

Degradation of those resources affects the rural poor more than others because they tend to rely on fragile natural resources for their livelihoods. At the margin of subsistence, living in ecologically vulnerable areas, the rural poor do have some assets, among them their social ties and their understanding of local conditions. What they lack is support from national institutions to nurture those assets—because the assets are often invisible to decision-makers.

while protecting natural resources for the long-term

Water in higher demand

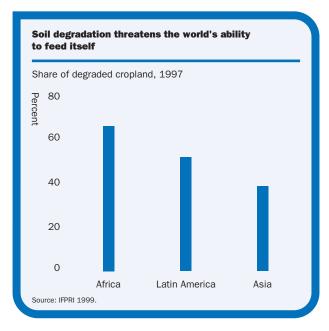
Some countries have abundant, untapped stores of water to support growth well into the future. Others are already using most of their water, and major increases in supplies will be expensive. The situation is getting more serious: each year 80 million additional people will tap the earth's water.



In the past century global water withdrawals have increased almost tenfold. Agriculture now accounts for 60-90 percent of the withdrawals of freshwater in developing economies, but the growing amounts for industrial and domestic uses produce much more value per cubic meter (Shiklovanov 1993). Far from plentiful, rural water has to be shared by the growing cities, the burgeoning rural areas, and a thirsty environment. Needed are greater efficiency in the use of water and fair allocations to balance the limited supply with rising demand.

Demand for land, increasing

Land degradation reduces agricultural productivity and is thus a major factor affecting food security and poverty reduction in rural areas. Soil fertility declined about 13 percent between 1945 and 1990, a global average disguising far worse figures for Central America (37 percent) and Africa (25 percent). Although the global food supply is not seriously threatened in the short term, trends in Africa are of great concern.



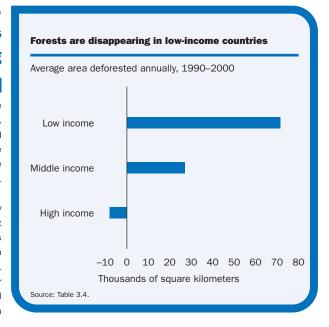
Doubling food production by 2050 to meet the needs of a growing population will create more pressure, with heavy environmental costs: pesticide pollution, water table depletion, biodiversity loss, and soil degradation, all the result of inappropriate land-use systems. To manage such assaults will require institutions that allow diverse stakeholders to come together to diagnose problems, balance conflicting interests, and agree on courses of action.

sustainability of food supply and rural livelihoods.

Forests shrinking, species disappearing

Of the world's 1.2 billion extreme poor living on less than \$1 a day, 90 percent depend on forests and their products. But the forests are shrinking, as is the diversity of the plants and animals they support.

At the beginning of the 20th century the earth's forested area was about 5 billion hectares. Since then it has shrunk to 3.9 billion hectares—an area roughly twice that of cropland. Caused by the growing demand for forest products and for agricultural land, the loss is concentrated in



developing countries. Low-income countries lost about 8 percent of their forest in the 1990s alone. The industrial world is actually gaining about 3.6 million hectares of forestland each year, mainly from abandoned cropland that is returning to forest on its own, as in Russia, and from the spread of commercial plantations.

But loss of biologically diverse areas may not be reversed, despite increases in protected areas. About 12 percent of the world's nearly 10,000 bird species are vulnerable or in immediate danger of extinction, as are 24 percent of the world's 4,800 mammal species and an estimated 30 percent of all fish species.



3.1 | Rural environment and land use

| | Rural population | | | Rural population density | Land area | Land use | | | | | |
|--------------------------|------------------|---------------------------|---|---|-----------------------------------|------------------------------------|--------------|---|-------------|----------------------------------|--------------|
| | 1980 | % of total 2000 | average annual % growth 1980-2000 | people per sq. km of arable land 1999 | thousand sq. km 1999 | Arable % of land 1980 | | Perma cropl % of lan 1980 | and | Othe % of land 1980 | |
| Afghanistan | 84 | 78 ª | 2.2 | 257 | 652 | 12.1 | 12.1 | 0.2 | 0.2 | 87.7 | 87.6 |
| Albania | 66 | 61 | 0.8 | 359 | 27 | 21.4 | 21.1 | 4.3 | 4.5 | 74.4 | 74.5 |
| Algeria | 57 | 40 | 0.7 | 157 | 2,382 | 2.9 | 3.2 | 0.3 | 0.2 | 96.8 | 96.6 |
| Angola | 79 | 66 | 2.2 | 283 | 1,247 | 2.3 | 2.4 | 0.4 | 0.4 | 97.3 | 97.2 |
| Argentina | 17 | 11 | -1.0 | 16 | 2,737 | 9.1 | 9.1 | 0.8 | 0.8 | 90.1 | 90.1 |
| Armenia | 34 | 30 | 0.4 | 233 | 28 | | 17.6 | | 2.3 | | 80.1 |
| Australia | 14 | 15 | 1.7 | 6 | 7,682 | 5.7 | 6.2 | 0.0 | 0.0 | 94.2 | 93.7 |
| Austria | 35 | 35 | 0.4 | 205 | 83 | 18.6 | 16.9 | 1.2 | 1.0 | 80.2 | 82.1 |
| Azerbaijan | 47 | 43 | 0.8 | 200 | 87 | | 19.9 | | 3.0 | | 77.1 |
| Bangladesh | 86 | 76 | 1.5 | 1,209 | 130 | 68.3 | 62.2 | 2.0 | 2.6 | 29.6 | 35.2 |
| Belarus | 44 | 30 | -1.7 | 49 | 207 | | 29.8 | | 0.6 | | 69.6 |
| Belgium | 5 | 3 | -2.5 | 35 | 33 b | 23.2 b | 24.8 b | 0.4 b | 0.6 b | 76.4 b | 74.6 b |
| Benin | 73 | 58 | 1.8 | 210 | 111 | 13.6 | 15.4 | 0.8 | 1.4 | 85.7 | 83.3 |
| Bolivia | 55 | 35 | 0.0 | 150 | 1,084 | 1.7 | 1.8 | 0.2 | 0.2 | 98.1 | 98.0 |
| Bosnia and Herzegovina | 65 | 57 | -0.8 | 445 | 51 | | 9.8 | | 2.9 | | 87.3 |
| Botswana | 85 | 50 | 0.2 | 233 | 567 | 0.7 | 0.6 | 0.0 | 0.0 | 99.3 | 99.4 |
| Brazil | 34 | 19 | -1.3 | 61 | 8,457 | 4.6 | 6.3 | 1.2 | 1.4 | 94.2 | 92.3 |
| Bulgaria | 39 | 30 | -1.6 | 59 | 111 | 34.6 | 38.9 | 3.2 | 1.9 | 62.2 | 59.2 |
| Burkina Faso | 92 | 82 | 1.8 | 265 | 274 | 10.0 | 12.4 | 0.1 | 0.2 | 89.8 | 87.4 |
| Burundi Cambodia | 96 88 | 91 84 | 2.2 | 792 268 | 26 177 | 35.8 11.3 | 30.0 21.0 | 0.4 | 12.9 0.6 | 54.0 88.3 | 57.2 78.4 |
| Cameroon | 69 | 51 | 1.2 | 127 | 465 | 12.7 | 12.8 | 2.2 | 2.6 | 85.1 | 84.6 |
| Canada | 24 | 23 | 0.8 | 15 | 9,221 | 4.9 | 4.9 | 0.0 | 0.0 | 95.0 | 95.0 |
| Central African Republic | 65 | 59 | 1.9 | 112 | 623 | 3.0 | 3.1 | 0.1 | 0.1 | 96.9 | 96.8 |
| Chad | 81 | 76 | 2.4 | 163 | 1,259 | 2.5 | 2.8 | 0.0 | 0.0 | 97.5 | 97.2 |
| Chile | 19 | 15 | 0.5 | 118 | 749 | 5.1 | 2.6 | 0.3 | 0.4 | 94.6 | 96.9 |
| Chinac | 80 | 68 | 0.4 | 691 | 9,327 | 10.4 | 13.3 | 0.4 | 1.2 | 89.3 | 85.5 |
| Hong Kong, China | 9 | 0 | | 0 | 1 | 7.0 | 5.1 | 1.0 | 1.0 | 92.0 | 93.9 |
| Colombia | 36 | 25 | 0.2 | 508 | 1,039 | 3.6 | 2.0 | 1.4 | 2.2 | 95.0 | 95.8 |
| Congo, Dem. Rep. | 71 | 70 | 3.1 | 518 | 2,267 | 2.9 | 3.0 | 0.4 | 0.5 | 96.6 | 96.5 |
| Congo, Rep. | 59 | 38 | 0.7 | 642 | 342 | 0.4 | 0.5 | 0.1 | 0.1 | 99.5 | 99.4 |
| Costa Rica | 57 | 48 | 1.7 | 806 | 51 | 5.5 | 4.4 | 4.4 | 5.5 | 90.1 | 90.1 |
| Côte d'Ivoire | 65 | 54 | 2.4 | 286 | 318 | 6.1 | 9.3 | 7.2 | 13.8 | 86.6 | 76.9 |
| Croatia | 50 | 42 | -1.1 | 128 | 56 | | 26.1 | | 2.3 | | 71.6 |
| Cuba | 32 | 25 | -0.6 | 76 | 110 | 23.9 | 33.1 | 6.4 | 7.6 | 69.7 | 59.3 |
| Czech Republic | 25 | 25 | 0.0 | 84 | 77 | | 40.1 | | 3.1 | | 56.9 |
| Denmark | 16 | 15 | -0.2 | 35 | 42 | 62.3 | 54.1 | 0.3 | 0.2 | 37.4 | 45.7 |
| Dominican Republic | 50 | 35 | 0.2 | 274 | 48 | 22.1 | 22.1 | 7.2 | 10.3 | 70.6 | 67.5 |
| Ecuador | 53 | 38 | 0.6 | 302 | 277 | 5.6 | 5.7 | 3.3 | 5.2 | 91.1 | 89.2 |
| Egypt, Arab Rep. | 56 | 55 | 2.1 | 1,217 | 995 | 2.3 | 2.8 | 0.2 | 0.5 | 97.5 | 96.7 |
| El Salvador | 58 | 53 | 1.1 | 590 | 21 | 26.9 | 27.0 | 11.7 | 12.1 | 61.4 | 60.9 |
| Eritrea | 87 | 81 | 2.4 | 654 | 101 | | 4.9 | | 0.0 | | 95.0 |
| Estonia | 30 | 31 | -0.2 | 39 | 42 | | 26.5 | | 0.4 | | 73.1 |
| Ethiopia | 90 | 82 | 2.3 | 520 | 1,000 | | 10.0 | | 0.7 | | 89.3 |
| Finland | 40 | 33 | -0.6 | 79 | 305 | 7.8 | 7.1 | 0.0 | 0.0 | 92.2 | 92.9 |
| France | 27 | 24 | 0.0 | 78 | 550 | 31.8 | 33.4 | 2.5 | 2.1 | 65.7 | 64.5 |
| Gabon | 50 | 19 | -2.1 | 73 | 258 | 1.1 | 1.3 | 0.6 | 0.7 | 98.2 | 98.1 |
| Gambia, The | 80 | 68 | 2.7 | 442 | 10 | 15.5 | 19.5 | 0.4 | 0.5 | 84.1 | 80.0 |
| Georgia | 48 | 39 | -1.1 | 251 | 70 | | 11.4 | | 3.8 | | 84.7 |
| Germany | 17 | 13 | -1.4 | 88 | 357 | 33.7 | 33.1 | 1.4 | 0.6 | 64.9 | 66.2 |
| Ghana | 69 | 62 | 2.4 | 325 | 228 | 8.4 | 15.8 | 7.5 | 7.5 | 84.2 | 76.7 |
| Greece | 42 | 40 | 0.2 | 153 | 129 | 22.5 | 21.4 | 7.9 | 8.6 | 69.6 | 70.0 |
| Guinea | 63 81 | 60 67 | 2.3 | 488 | 108 | 11.7 2.9 | 12.5 3.6 | 4.4 | 5.0 2.4 | 83.9 95.4 | 82.4 |
| Guinea Guinea-Bissau | 81 | 76 | 1.6 1.8 | 556 300 | 246 28 | 9.1 | 10.7 | 1.8 | 1.8 | 89.9 | 94.0 87.6 |
| Haiti | 76 | 64 | 1.1 | 905 | 28 | 19.8 | 20.3 | 12.5 | 12.7 | 67.7 | 67.0 |
| Honduras | 65 | 53 | 1.9 | 229 | 112 | 13.9 | 13.1 | 1.8 | 3.2 | 84.3 | 83.7 |
| Horidatas | 0.5 | 33 | 1.0 | 223 | 114 | 10.0 | 10.1 | 1.0 | ٥.۷ | 04.0 | 00.1 |

Rural environment and land use | 3.1



| | Ru | Rural population | | | Land area | Land use | | | | | |
|----------------------|---------------------|------------------------|---|---|-----------------------------------|-----------------------------------|--------------|--|------|--------------------------------|--------------|
| | % oʻ 1980 | f total 2000 | average annual % growth 1980-2000 | people per sq. km of arable land 1999 | thousand sq. km 1999 | Arable % of lar 1980 | | Perma crop % of lar 1980 | land | Oth % of lan 1980 | |
| Hungary | 43 | 36 | -1.2 | 76 | 92 | 54.4 | 52.1 | 3.3 | 2.4 | 42.2 | 45.4 |
| India | 77 | 72 | 1.6 | 444 | 2,973 | 54.8 | 54.4 | 1.8 | 2.7 | 43.4 | 42.9 |
| Indonesia | 78 | 59 | 0.4 | 694 | 1,812 | 9.9 | 9.9 | 4.4 | 7.2 | 85.6 | 82.9 |
| Iran, Islamic Rep. | 50 | 38 | 1.1 | 141 | 1,622 | 8.0 | 10.7 | 0.5 | 1.2 | 91.5 | 88.1 |
| Iraq | 35 | 23 | 0.9 | 104 | 437 | 12.0 | 11.9 | 0.4 | 0.8 | 87.6 | 87.3 |
| Ireland | 45 | 41 | 0.1 | 144 | 69 | 16.1 | 15.6 | 0.0 | 0.0 | 83.9 | 84.3 |
| Israel | 11 | 9 | 1.1 | 155 | 21 | 15.8 | 17.0 | 4.3 | 4.3 | 80.0 | 78.7 |
| Italy | 33 | 33 | 0.0 | 223 | 294 | 32.2 | 29.1 | 10.0 | 9.8 | 57.7 | 61.2 |
| Jamaica | 53 | 44 | 0.1 | 661 | 11 | 12.5 | 16.1 | 9.7 | 9.2 | 77.8 | 74.7 |
| Japan | 24 | 21 | -0.2 | 600 | 365 | 13.3 | 12.4 | 1.6 | 1.0 | 85.1 | 86.7 |
| Jordan | 40 | 26 | 1.8 | 512 | 89 | 3.4 | 2.7 | 0.4 | 1.6 | 96.2 | 95.6 |
| Kazakhstan | 46 | 44 | -0.3 | 22 | 2,700 | | 11.1 | | 0.1 | | 88.8 |
| Kenya | 84 | 67 | 1.8 | 499 | 569 | 6.7 | 7.0 | 0.8 | 0.9 | 92.5 | 92.1 |
| Korea, Dem. Rep. | 43 | 40 | 0.9 | 522 | 120 | 13.4 | 14.1 | 2.4 | 2.5 | 84.2 | 83.4 |
| Korea, Rep. | 43 | 18 | -3.3 | 520 | 99 | 20.9 | 17.2 | 1.4 | 2.0 | 77.8 | 80.8 |
| Kuwait | 10 | 2 | -5.2 | 808 | 18 | 0.1 | 0.3 | 0.0 | 0.1 | 99.9 | 99.6 |
| Kyrgyz Republic | 62 | 67 | 1.9 | 236 | 192 | | 7.1 | | 0.3 | 00.0 | 92.5 |
| Lao PDR | 87 | 77 | 1.9 | 454 | 231 | 3.4 | 3.8 | 0.1 | 0.3 | 96.5 | 95.9 |
| Latvia | 32 | 31 | -0.5 | 40 | 62 | | 29.8 | | 0.5 | | 69.7 |
| Lebanon | 26 | 10 | -2.9 | 255 | 10 | 20.5 | 17.6 | 8.9 | 12.5 | 70.6 | 69.9 |
| Lesotho | 87 | 72 | 1.1 | 450 | 30 | 9.6 | 10.7 | | | | |
| Liberia | 65 | 55 | 1.7 | 892 | 96 | 1.3 | 2.0 | 2.5 | 2.1 | 96.1 | 96.0 |
| Libya | 31 | 12 | -1.8 | 37 | 1,760 | 1.0 | 1.0 | 0.2 | 0.2 | 98.8 | 98.8 |
| Lithuania | 39 | 32 | -0.6 | 40 | 65 | | 45.3 | | 0.2 | | 53.8 |
| Macedonia, FYR | 47 | 38 | -0.6 | 132 | 25 | | 23.1 | •• | 1.9 | | 75.0 |
| Madagascar | 82 | 71 | 2.1 | 417 | 582 | 4.3 | 4.4 | 0.9 | 0.9 | 94.8 | 94.7 |
| Malawi | 91 | 85 | 2.2 | 458 | 94 | 16.1 | 19.9 | 0.9 | 1.3 | 83.0 | 78.7 |
| Malaysia | 58 | 43 | 1.1 | 541 | 329 | 3.0 | 5.5 | 11.6 | 17.6 | 85.4 | 76.9 |
| Mali | 82 | 70 | 1.7 | 162 | 1,220 | 1.6 | 3.8 | 0.0 | 0.0 | 98.3 | 96.2 |
| Mauritania | 73 | 42 | 0.0 | 230 | 1,025 | 0.2 | 0.5 | 0.0 | 0.0 | 99.8 | 99.5 |
| Mauritius | 58 | 59 | 1.1 | 691 | 2 | 49.3 | 49.3 | 3.4 | 3.0 | 47.3 | 47.8 |
| Mexico | 34 | 26 | 0.5 | 100 | 1,909 | 12.1 | 13.0 | 0.8 | 1.3 | 87.1 | 85.7 |
| Moldova | 60 | 54 | -0.2 | 128 | 33 | 12.1 | 55.0 | | 11.3 | | 33.7 |
| Mongolia | | | | | | | | 0.0 | 0.0 | 99.2 | |
| Morocco | 48 59 | 41 | 0.5 | 75 148 | 1,567 446 | 0.8 16.9 | 0.8 19.0 | 1.1 | 2.1 | 82.0 | 99.2 78.8 |
| | 87 | 60 | 0.0 | 339 | 784 | 3.7 | 4.0 | 0.3 | 0.3 | 96.0 | 95.7 |
| Mozambique | 76 | 72 | 1.5 | 359 | | 14.6 | 14.5 | 0.3 | | 84.8 | 84.6 |
| Myanmar Namibia | 77 | 69 | 2.3 | | 658 | 0.8 | 1.0 | 0.0 | 0.9 | 99.2 | 99.0 |
| | | | | 146 | 823 | | | | 0.0 | | |
| Nepal Netherlands | 94 | 88 | 2.0 0.1 | 686 185 | 143 34 | 16.0 23.3 | 20.3 27.0 | 0.2 | 0.5 | 83.8 75.7 | 79.2 72.0 |
| | 17 | 11 | -0.1 | 33 | 268 | 9.3 | 5.8 | 3.7 | 1.0 | 86.9 | 87.8 |
| New Zealand | 47 | | | 72 | | | | | 6.4 | | |
| Nicaragua Niger | 87 | 35 79 | 1.4 2.8 | 168 | 121 1,267 | 9.5 2.8 | 20.2 3.9 | 1.5 0.0 | 0.0 | 89.1 97.2 | 77.4 96.1 |
| Nigeria | 73 | 56 | 1.6 | 250 | 911 | 30.6 | 31.0 | 2.8 | 2.8 | 66.6 | 66.3 |
| Norway | 30 | 25 | -0.5 | 126 | 307 | 2.7 | 2.9 | | | | 00.3 |
| | 69 | 16 | -3.4 | 2,595 | 212 | | 0.1 | 0.1 | 0.3 | | 99.6 |
| Oman | 72 | | | | | 0.1 | | | | 99.8 | |
| Pakistan Panama | | 63 | 1.9 | 403 | 771 | 25.9 | 27.5 | 0.4 | 0.8 | 73.7 | 71.6 |
| | 50 | 42 | 1.1 | 240 | 74 | 5.8 | 6.7 | 1.6 | 2.1 | 92.5 | 91.2 |
| Papua New Guinea | 87 | 83 | 2.3 | 100 | 453 | 0.0 | 0.1 | 1.1 | 1.3 | 98.9 | 98.5 |
| Paraguay | 58 | 44 | 1.4 | 109 | 397 | 4.1 | 5.5 | 0.3 | 0.2 | 95.6 | 94.2 |
| Peru | 35 | 27 | 0.6 | 188 | 1,280 | 2.5 | 2.9 | 0.3 | 0.4 | 97.2 | 96.7 |
| Philippines | 63 | 41 | 0.2 | 566 | 298 | 17.5 | 18.6 | 14.8 | 15.1 | 67.7 | 66.3 |
| Poland | 42 | 34 | -0.6 | 96 | 304 | 48.0 | 46.2 | 1.1 | 1.1 | 50.9 | 52.7 |
| Portugal | 71 | 36 | -3.3 | 189 | 92 | 26.5 | 21.5 | 7.8 | 8.1 | 65.7 | 70.4 |
| Puerto Rico | 33 | 25 | -0.4 | 2,798 | 9 | 8.3 | 3.9 | 7.3 | 5.2 | 84.3 | 90.9 |
| Romania | 51 | 44 | -0.7 | 106 | 230 | 42.7 | 40.5 | 2.9 | 2.2 | 54.4 | 57.3 |
| Russian Federation | 30 | 27 | -0.3 | 31 | 16,889 | | 7.4 | | 0.1 | | 92.5 |

136

3.1 | Rural environment and land use

| | Ru | ıral populat | tion | Rural population density | Land area | Land use | | | | | |
|-------------------------|----------|-----------------|----------------------------|--------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|------------------------|--------------------------|-----------------------|
| | | | average annual % | people per | thousand | Arable | | Perma | land | Oth | |
| | 1980 % o | f total 2000 | growth 1980-2000 | of arable land | sq. km 1999 | % of lan 1980 | d area 1999 | % of lar 1980 | nd area 1999 | % of land 1980 | d area 1999 |
| Rwanda | 95 | 94 | 2.4 | 901 | 25 | 30.8 | 35.1 | 10.3 | 10.1 | 58.9 | 54.8 |
| Saudi Arabia | 34 | 14 | -0.4 | 84 | 2,150 | 0.9 | 1.7 | 0.0 | 0.1 | 99.1 | 98.2 |
| Senegal | 64 | 53 | 1.7 | 222 | 193 | 12.2 | 11.6 | 0.0 | 0.2 | 87.8 | 88.2 |
| Sierra Leone | 76 | 63 | 1.3 | 653 | 72 | 6.3 | 6.8 | 0.7 | 0.8 | 93.0 | 92.5 |
| Singapore | 0 | 0 | | 0 | 1 | 3.3 | 1.6 | 9.8 | 0.0 | 86.9 | 98.4 |
| Slovak Republic | 48 | 43 | -0.2 | 158 | 48 | | 30.4 | | 2.8 | | 66.8 |
| Slovenia | 52 | 50 | 0.0 | 577 | 20 | | 8.5 | | 1.5 | | 90.0 |
| Somalia | 78 | 73 | 1.2 | 592 | 627 | 1.6 | 1.7 | 0.0 | 0.0 | 98.4 | 98.3 |
| South Africa | 52 | 45 | 1.5 | 129 | 1,221 | 10.2 | 12.1 | 0.7 | 0.8 | 89.1 | 87.1 |
| Spain | 27 | 22 | -0.7 | 65 | 499 | 31.1 | 27.4 | 9.9 | 9.7 | 59.0 | 62.9 |
| Sri Lanka | 78 | 76 | 1.2 | 1,660 | 65 | 13.2 | 13.6 | 15.9 | 15.8 | 70.9 | 70.6 |
| Sudan | 80 | 64 | 1.3 | 119 | 2,376 | 5.2 | 7.0 | 0.0 | 0.1 | 94.8 | 92.9 |
| Swaziland | 82 | 74 | 2.5 | 448 | 17 | 10.8 | 9.8 | 0.2 | 0.7 | 89.0 | 89.5 |
| Sweden | 17 | 17 | 0.3 | 54 | 412 | 7.2 | 6.7 | | | | |
| Switzerland | 43 | 32 | -0.8 | 556 | 40 | 9.9 | 10.5 | 0.5 | 0.6 | 89.6 | 88.9 |
| Syrian Arab Republic | 53 | 46 | 2.3 | 154 | 184 | 28.5 | 25.6 | 2.5 | 4.4 | 69.1 | 70.1 |
| Tajikistan | 66 | 73 | 2.7 | 611 | 141 | | 5.2 | | 0.9 | | 93.9 |
| Tanzania | 85 | 72 | 2.1 | 640 | 884 | 3.5 | 4.2 | 1.0 | 1.0 | 95.5 | 94.7 |
| Thailand | 83 | 78 | 1.0 | 323 | 511 | 32.3 | 28.8 | 3.5 | 6.5 | 64.2 | 64.8 |
| Togo | 77 | 67 | 2.2 | 134 | 54 | 35.9 | 40.4 | 1.6 | 1.8 | 62.6 | 57.7 |
| Trinidad and Tobago | 37 | 26 | -0.8 | 455 | 5 | 13.6 | 14.6 | 9.0 | 9.2 | 77.4 | 76.2 |
| Tunisia | 49 | 35 | 0.3 | 117 | 155 | 20.5 | 18.3 | 9.7 | 14.5 | 69.7 | 67.2 |
| Turkey | 56 | 25 | -2.2 | 69 | 770 | 32.9 | 31.4 | 4.1 | 3.3 | 63.0 | 65.3 |
| Turkmenistan | 53 | 55 | 3.2 | 173 | 470 | | 3.5 | | 0.1 | | 96.4 |
| Uganda | 91 | 86 | 2.4 | 368 | 197 | 20.7 | 25.7 | 8.1 | 8.9 | 71.2 | 65.4 |
| Ukraine | 38 | 32 | -1.0 | 49 | 579 | | 56.4 | | 1.6 | | 42.0 |
| United Arab Emirates | 29 | 14 | 1.6 | 498 | 84 | 0.2 | 1.0 | 0.1 | 0.6 | 99.7 | 98.4 |
| United Kingdom | 11 | 11 | 0.0 | 106 | 241 | 28.7 | 24.6 | 0.3 | 0.2 | 71.0 | 75.2 |
| United States | 26 | 23 | 0.4 | 36 | 9,159 | 20.6 | 19.3 | 0.2 | 0.2 | 79.2 | 80.5 |
| Uruguay | 15 | 9 | -2.0 | 23 | 175 | 8.0 | 7.2 | 0.3 | 0.3 | 91.7 | 92.5 |
| Uzbekistan | 59 | 63 | 2.5 | 342 | 414 | | 10.8 | | 0.9 | | 88.3 |
| Venezuela, RB | 21 | 13 | -0.1 | 116 | 882 | 3.2 | 3.0 | 0.9 | 1.0 | 95.9 | 96.0 |
| Vietnam | 81 | 76 | 1.6 | 1,031 | 325 | 18.2 | 17.7 | 1.9 | 4.9 | 79.8 | 77.4 |
| West Bank and Gaza | | | | | | | | | | | |
| Yemen, Rep. | 81 | 75 | 3.2 | 833 | 528 | 2.6 | 2.9 | 0.2 | 0.2 | 97.2 | 96.8 |
| Yugoslavia, Fed. Rep. | 54 | 48 | -0.2 | | | 28.0 | | 2.9 | | 69.1 | |
| Zambia | 60 | 56 | 2.4 | 105 | 743 | 6.9 | 7.1 | 0.0 | 0.0 | 93.1 | 92.9 |
| Zimbabwe | 78 | 65 | 1.9 | 252 | 387 | 6.5 | 8.3 | 0.3 | 0.3 | 93.3 | 91.3 |
| World | 60 w | 53 w | 0.9 w | 524 w | 130,100 s | 10.2 w | 10.5 w | 0.9 w | 1.0 w | 88.9 w | 88.5 w |
| Low income | 76 | 68 | 1.6 | 510 | 32,536 | 11.8 | 13.2 | 1.0 | 1.4 | 87.1 | 85.4 |
| Middle income | 62 | 50 | 0.3 | 589 | 66,644 | 7.9 | 8.8 | 1.0 | 1.0 | 91.0 | 90.2 |
| Lower middle income | 69 | 58 | 0.5 | 642 | 43,596 | 8.8 | 9.2 | 1.0 | 0.9 | 90.2 | 89.9 |
| Upper middle income | 38 | 24 | -0.6 | 184 | 23,048 | 7.0 | 8.0 | 1.1 | 1.3 | 91.9 | 90.7 |
| Low & middle income | 68 | 59 | 1.0 | 545 | 99,180 | 9.5 | 10.2 | 1.0 | 1.2 | 89.5 | 88.6 |
| East Asia & Pacific | 78 | 65 | 0.5 | 694 | 15,969 | 10.1 | 11.8 | 1.5 | 2.6 | 88.4 | 85.5 |
| Europe & Central Asia | 41 | 35 | -0.4 | 125 | 23,771 | 37.1 | 11.7 | 3.1 | 0.4 | 59.8 | 87.9 |
| Latin America & Carib. | 35 | 25 | 0.0 | 252 | 20,062 | 5.8 | 6.6 | 1.1 | 1.3 | 93.1 | 92.1 |
| Middle East & N. Africa | 52 | 41 | 1.4 | 543 | 10,995 | 4.5 | 5.1 | 0.4 | 0.8 | 95.1 | 94.1 |
| South Asia | 78 | 72 | 1.6 | 542 | 4,781 | 42.5 | 42.4 | 1.5 | 2.1 | 56.1 | 55.4 |
| Sub-Saharan Africa | 77 | 66 | 1.9 | 377 | 23,603 | 5.5 | 6.5 | 0.7 | 0.9 | 93.8 | 92.6 |
| High income | 25 | 21 | -0.1 | 180 | 30,920 | 12.0 | 11.6 | 0.5 | 0.5 | 87.5 | 87.9 |
| Europe EMU | 27 | 23 | -0.5 | 140 | 2,537 | 26.2 | 25.1 | 4.6 | 4.4 | 69.2 | 70.5 |
| Larope Livio | ۷. | 20 | 0.0 | T-40 | 2,001 | 20.2 | 20.1 | 7.0 | 7.7 | 00.2 | 10.0 |

Rural environment and land use | 3.1



About the data

Indicators of rural development are sparse, as few indicators are disaggregated between rural and urban areas (for some that are, see tables 2.6, 3.5, and 3.10). This table shows indicators of rural population and land use. Rural population is approximated as the midyear nonurban population.

The data in the table show that land use patterns are changing. They also indicate major differences in resource endowments and uses among countries. True comparability of the data is limited, however, by variations in definitions, statistical methods, and the quality of data collection. Countries use different definitions of rural population and land use, for example. The Food and Agriculture Organization (FAO), the primary compiler of these data, occasionally adjusts its definitions of land use categories and sometimes revises earlier data. (In 1985, for example, the FAO began to exclude from cropland, land used for shifting cultivation but currently lying fallow.) And following FAO practice,

this year's edition of the *World Development Indicators*, like the previous three, breaks down the category *cropland*, used in earlier editions, into *arable land* and *permanent cropland*. Because the data reflect changes in data reporting procedures as well as actual changes in land use, apparent trends should be interpreted with caution.

Satellite images show land use that differs from that given by ground-based measures in both area under cultivation and type of land use. Furthermore, land use data in countries such as India are based on reporting systems that were geared to the collection of tax revenue. Because taxes on land are no longer a major source of government revenue, the quality and coverage of land use data (except for cropland) have declined. Data on forest area, aggregated in the category *other*, may be particularly unreliable because of differences in definitions and irregular surveys (see *About the data* for table 3.4).

Table 3.1a

| The 10 economies with the highest rural population density in $1999 - $ and the | ne 10 with the |
|---|----------------|
| lowest | |

People per sq. km of arable land

| | Rural population density | | Rural population density |
|--------------------|--------------------------|--------------------|--------------------------|
| Puerto Rico | 2,798 | United States | 36 |
| Oman | 2,595 | Belgium | 35 |
| Sri Lanka | 1,660 | Denmark | 35 |
| Egypt, Arab Rep. | 1,217 | New Zealand | 33 |
| Bangladesh | 1,209 | Russian Federation | 31 |
| Vietnam | 1,031 | Uruguay | 23 |
| Haiti | 905 | Kazakhstan | 22 |
| Rwanda | 901 | Argentina | 16 |
| Liberia | 892 | Canada | 15 |
| Yemen, Rep. | 833 | Australia | 6 |
| Source: Table 3.1. | | | |

Definitions

• Rural population is calculated as the difference between the total population and the urban population (see *Definitions* for tables 2.1 and 3.10). • Rural population density is the rural population divided by the arable land area.

• Land area is a country's total area, excluding area under inland water bodies, national claims to continental shelf, and exclusive economic zones. In most cases the definition of inland water bodies includes major rivers and lakes. (See table 1.1 for the total surface area of countries.) • Land use is broken into three categories. • Arable land includes land defined by the FAO as land under temporary crops (double-cropped areas are counted once), temporary meadows for mowing or for pasture, land under market or kitchen gardens, and land temporarily fallow. Land abandoned as a result of shifting cultivation is excluded. • Permanent cropland is land cultivated with crops that occupy the land for long periods and need not be replanted after each harvest, such as cocoa, coffee, and rubber. This category includes land under flowering shrubs, fruit trees, nut trees, and vines, but excludes land under trees grown for wood or timber. • Other land includes forest and woodland as well as logged-over areas to be forested in the near future. Also included are uncultivated land, grassland not used for pasture, wetlands, wastelands, and built-up areas-residential, recreational, and industrial lands and areas covered by roads and other fabricated infrastructure.

Data sources

The data on urban population shares used to estimate rural population come from the United Nations Population Division's *World Urbanization Prospects: The 1999 Revision.* The total population figures are World Bank estimates. The data on land area and land use are from the FAO's electronic files and are published in its *Production Yearbook.* The FAO gathers these data from national agencies through annual questionnaires and by analyzing the results of national agricultural censuses.