2006 WORLD DEVELOPMENT INDICATORS

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2006 WORLD DEVELOPMENT INDICATORS



FOREWORD

The developing world has made remarkable progress. The number of people living in extreme poverty on less than \$1 a day has fallen by about 400 million in the last 25 years. Many more children, particularly girls, are completing primary school. Illiteracy rates have fallen by half in 30 years. And life expectancy is nearly 15 years longer, on average, than it was 40 years ago.

These often spectacular achievements have put many countries securely on track to meet the Millennium Development Goals by 2015. But many others are being left behind, and for them progress in eradicating poverty and improving living standards remains stubbornly slow. In Sub-Saharan Africa the number of people living on less than \$1 a day has nearly doubled since 1981. Every day thousands of people, many of them children, still die from preventable diseases. AIDS, malaria, and simple dehydration ravage the developing world.

Reaching the Millennium Development Goals is a challenge that depends on having access to the best information available. In designing policies and targeting resources, we need to know how many people are poor and where they live. We need vital information about them, such as their gender, age, and the nature of their work or, indeed, if they have work. We also need to know whether they have access to health care, schools, and safe water. And because economic growth is essential to poverty reduction, we need to know more about the economy, the business environment, the expected demographic trends, the scale of environmental degradation, and the infrastructure services available, among many other statistics.

Since 1978 World Development Indicators has compiled statistics to provide an annual snapshot of progress in the developing world and the challenges that remain. It is the product of intensive collaboration with numerous international organizations, government agencies, and private and nongovernmental organizations. Our collective efforts have greatly improved the coverage and reliability of statistics on poverty and development. But more is needed.

Better statistics are of value to us all. They allow us to assess the scope of the problems we face and measure progress in solving them. They make politicians and policymakers more accountable. They discourage arbitrariness, corruption, and reliance on anecdotal evidence. But they are costly to produce. Improving our knowledge base will require sustained investment, backed by a sustained commitment by national governments and international agencies. To achieve the ambitious targets we have set ourselves, we must scale up our efforts to produce reliable statistics that will inform public policy, guide debate, and strengthen the effectiveness of development efforts.

Paul D. Wolfowitz President

The World Bank Group

Face Workwit

ACKNOWLEDGMENTS

This book and its companion volumes, *Little Data Book* and *The Little Green Data Book*, are prepared by a team led by Eric Swanson and comprising Awatif Abuzeid, Mehdi Akhlaghi, David Cieslikowski, Mahyar Eshragh-Tabary, Richard Fix, Amy Heyman, Masako Hiraga, Raymond Muhula, M. H. Saeed Ordoubadi, Sulekha Patel, Juan Carlos Rodriguez, Changqing Sun, K. M. Vijayalakshmi, and Vivienne Wang, working closely with other teams in the Development Economics Vice Presidency's Development Data Group. The CD-ROM development team included Azita Amjadi, Ramgopal Erabelly, Saurabh Gupta, Reza Farivari, and William Prince. The work was carried out under the management of Shaida Badiee.

The choice of indicators and text content was shaped through close consultation with and substantial contributions from staff in five of the World Bank's thematic networks—Environmentally and Socially Sustainable Development, Human Development, Poverty Reduction and Economic Management, Private Sector Development, and Infrastructure—and staff of the International Finance Corporation and the Multilateral Investment Guarantee Agency. Most important, the team received substantial help, guidance, and data from external partners. For individual acknowledgments of contributions to the book's content, please see *Credits*. For a listing of our key partners, see *Partners*.

Communications Development Incorporated provided overall design direction, editing, and layout, led by Meta de Coquereaumont and Bruce Ross-Larson, with the assistance of Christopher Trott. The editing and production team consisted of Jodi Baxter, Brendon Boyle, Michael Diavolikis, Timothy Walker, and Elaine Wilson. Communications Development's London partner, Grundy & Northedge, provided art direction and design. Staff from External Affairs oversaw publication and dissemination of the book.

PREFACE

In the 10 years that we have been producing the *World Development Indicators*, the world of development statistics has grown larger and deeper. It has also become better integrated. The demand for statistics to measure progress and demonstrate the effectiveness of development programs has stimulated growing interest in the production and dissemination of statistics. And not just in the traditional domains of debt, demographics, and national accounts, but in new areas such as biodiversity, information, communications, technology, and measures of government and business performance. In response *World Development Indicators* has continued to grow and change.

In 1999 members of the statistical community, recognizing that the production of sound statistics for measuring progress is a global responsibility, established the Partnership in Statistics for Development in the Twenty-first Century (PARIS21) to strengthen statistical capacity at all levels. In 2000 the United Nations Millennium Summit called on all countries to work toward a quantified, time-bound set of development targets, which became the Millennium Development Goals.

In the five years since the Millennium Summit, the idea of working toward specific goals has evolved into a general strategy of managing for development results. Countries are reporting on progress toward the Millennium Development Goals and monitoring their own results using a variety of economic and social indicators. Bilateral and multilateral development agencies are incorporating results into their own management planning and evaluation systems and using new indicators to set targets for harmonizing their joint work programs. All of these efforts depend on statistics.

So, what has been done to improve the quality and availability of statistics? A lot. Supported by five donors, the Trust Fund for Statistical Capacity Building has provided \$20 million in grants for 86 projects, many to create national statistical development strategies. Several countries, recognizing the need for large-scale investments in their statistical systems, have taken out loans or credits to finance them. PARIS21 has conducted advocacy and training workshops around the world to strengthen national statistical systems. The International Comparison Program has more than 100 countries participating in the largest ever global collection of price data. The Health Metrics Network, sponsored by the World Health Organization and the Bill & Melinda Gates Foundation, is now under way. The United Nations Children's Fund launched a new round of data collection through its Multiple Indicators Cluster Surveys. And the program of Demographic and Health Surveys, funded largely by the United States, continues to operate in many countries.

To accelerate global cooperation in statistical capacity building, the World Bank will provide \$7.5 million a year toward implementing the Marrakech Action Plan for Statistics (MAPS), a grant-funded program. In its first year MAPS will fund the International Household Survey Network to harmonize, document, and provide technical support to survey programs everywhere. It is also funding work by the United Nations Statistics Division to prepare for the 2010 round of censuses; work on education by the United Nations Educational, Scientific, and Cultural Organization's Institute for Statistics; a project on migration by the International Labour Organization; and work on measuring slums by the United Nations Human Settlements Programme. And through PARIS21 it is supporting a pilot program to accelerate the production of key development indicators in low-income countries.

National statistical offices and international and regional agencies now find themselves at the center of attention. The challenge is to maintain the momentum in producing more and better quality data. The fruits of today's efforts will be harvested in the years to come. When they are, you will see them here in the tables of *World Development Indicators*.

Shaida Badiee Director Development Data Group

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PARTNERS

Defining, gathering, and disseminating international statistics is a collective effort of many people and organizations. The indicators presented in World Development Indicators are the fruit of decades of work at many levels, from the field workers who administer censuses and household surveys to the committees and working parties of the national and international statistical agencies that develop the nomenclature, classifications, and standards fundamental to an international statistical system. Nongovernmental organizations and the private sector have also made important contributions, both in gathering primary data and in organizing and publishing their results. And academic researchers have played a crucial role in developing statistical methods and carrying on a continuing dialogue about the quality and interpretation of statistical indicators. All these contributors have a strong belief that available, accurate data will improve the quality of public and private decisionmaking.

The organizations listed here have made World Development Indicators possible by sharing their data and their expertise with us. More important, their collaboration contributes to the World Bank's efforts, and to those of many others, to improve the quality of life of the world's people. We acknowledge our debt and gratitude to all who have helped to build a base of comprehensive, quantitative information about the world and its people.

For easy reference, Web addresses are included for each listed organization. The addresses shown were active on March 1, 2006. Information about the World Bank is also provided.

International and government agencies

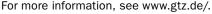
Carbon Dioxide Information Analysis Center

The Carbon Dioxide Information Analysis Center (CDIAC) is the primary global climate change data and information analysis center of the U.S. Department of Energy. The CDIAC's scope includes anything that would potentially be of value to those concerned with the greenhouse effect and global climate change, including concentrations of carbon dioxide and other radiatively active gases in the atmosphere; the role of the terrestrial biosphere and the oceans in the biogeochemical cycles of greenhouse gases; emissions of carbon dioxide to the atmosphere; long-term climate trends; the effects of elevated carbon dioxide on vegetation; and the vulnerability of coastal areas to rising sea levels.

For more information, see http://cdiac.esd.ornl.gov/.

Deutsche Gesellschaft für Technische Zusammenarbeit

The Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH is a German government-owned corporation for international cooperation with worldwide operations. GTZ's aim is to positively shape political, economic, ecological, and social development in partner countries, thereby improving people's living conditions and prospects.





Food and Agriculture Organization

The Food and Agriculture Organization, a specialized agency of the United Nations, was founded in October 1945 with a mandate to raise nutrition levels and living standards, to increase agricultural productivity, and to better the condition of rural populations. The organization provides direct development assistance; collects, analyzes, and disseminates information; offers policy and planning advice to governments; and serves as an international forum for debate on food and agricultural issues.



For more information, see www.fao.org/.

International Civil Aviation Organization

The International Civil Aviation Organization (ICAO), a specialized agency of the United Nations, is responsible for establishing international standards and recommended practices and procedures for the technical, economic, and legal aspects of international civil aviation operations. ICAO's strategic objectives include enhancing global aviation safety and security and the efficiency of aviation operations, minimizing the adverse effect of global civil aviation on the environment, maintaining the continuity of aviation operations, and strengthening laws governing international civil aviation.



For more information, see www.icao.int/.

International Labour Organization

The International Labour Organization (ILO), a specialized agency of the United Nations, seeks the promotion of social justice and internationally recognized human and labor rights. As part of its mandate, the ILO maintains an extensive statistical publication program.



For more information, see www.ilo.org/.

International Monetary Fund

The International Monetary Fund (IMF) was established to promote international monetary cooperation, facilitate the expansion and balanced growth of international trade, promote exchange rate stability, help establish a multilateral payments system, make the general resources of the IMF temporarily available to its members under adequate safeguards, and shorten the duration and lessen the degree of disequilibrium in the international balance of payments of members.



For more information, see www.imf.org/.

International Telecommunication Union

The International Telecommunication Union (ITU), a specialized agency of the United Nations, covers all aspects of telecommunication, from setting standards that facilitate seamless interworking of equipment and systems on a global basis to adopting operational procedures for the vast and growing array of wireless services and designing programs to improve telecommunication infrastructure in the developing world. The ITU is also a catalyst for forging development partnerships between government and private industry.



For more information, see www.itu.int/.

National Science Foundation

The National Science Foundation (NSF) is an independent U.S. government agency whose mission is to promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense. It is responsible for promoting science and engineering through almost 20,000 research and education projects. In addition, the NSF fosters the exchange of scientific information among scientists and engineers in the United States and other countries, supports programs to strengthen scientific and engineering research potential, and evaluates the impact of research on industrial development and general welfare.



For more information, see www.nsf.gov/.

Organisation for Economic Co-operation and Development

The Organisation for Economic Co-operation and Development (OECD) includes 30 member countries sharing a commitment to democratic government and the market economy. With active relationships with some 70 other countries, nongovernmental organizations, and civil society, it has a global reach. It is best known for its publications and statistics, which cover economic and social issues from macroeconomics to trade, education, development, and science and innovation.



The Development Assistance Committee (DAC, www.oecd.org/dac/) is one of the principal bodies through which the OECD deals with issues related to cooperation with developing countries. The DAC is a key forum of major bilateral donors, who work together to increase the effectiveness of their common efforts to support sustainable development. The DAC concentrates on two key areas: the contribution of international development to the capacity of developing countries to participate in the global economy and the capacity of people to overcome poverty and participate fully in their societies.

For more information, see www.new.oecd.org/.

Stockholm International Peace Research Institute

The Stockholm International Peace Research Institute (SIPRI) conducts research on questions of conflict and cooperation of importance for international peace and security, with the aim of contributing to an understanding of the conditions for peaceful solutions to international conflicts and for a stable peace. SIPRI's main publication, SIPRI Yearbook, is an authoritive and independent source on armaments and arms control and other conflict and security issues.



For more information, see www.sipri.org/.

Understanding Children's Work

As part of broader efforts to develop effective and long-term solutions to child labor, the International Labor Organization, the United Nations Children's Fund (UNICEF), and the World Bank initiated the joint interagency research program "Understanding Children's Work and Its Impact" in December 2000. The Understanding Children's Work (UCW) project was located at UNICEF's Innocenti Research Centre in Florence, Italy, until June 2004, when it moved to the Centre for International Studies on Economic Growth in Rome.

The UCW project addresses the crucial need for more and better data on child labor. UCW's online database contains data by country on child labor and the status of children.

For more information, see www.ucw-project.org/.

United Nations

The United Nations currently has 191 member states. The purposes of the United Nations, as set forth in the Charter, are to maintain international peace and security; to develop friendly relations among nations; to cooperate in solving international economic, social, cultural, and humanitarian problems and in promoting respect for human rights and fundamental freedoms; and to be a center for harmonizing the actions of nations in attaining these ends.



For more information, see www.un.org/.

United Nations Centre for Human Settlements, Global Urban Observatory

The Urban Indicators Programme of the United Nations Human Settlements Programme was established to address the urgent global need to improve the urban knowledge base by helping countries and cities design, collect, and apply policy-oriented indicators related to development at the city level.

With the Urban Indicators and Best Practices programs, the Global Urban Observatory is establishing a worldwide information, assessment, and capacity building network to help governments, local authorities, the private sector, and nongovernmental and other civil society organizations.

For more information, see www.unhabitat.org/.

United Nations Children's Fund

The United Nations Children's Fund works with other UN bodies and with governments and nongovernmental organizations to improve children's lives in more than 140 developing countries through community-based services in primary health care, basic education, and safe water and sanitation.



For more information, see www.unicef.org/.

United Nations Conference on Trade and Development

The United Nations Conference on Trade and Development (UNCTAD) is the principal organ of the United Nations General Assembly in the field of trade and development. Its mandate is to accelerate economic growth and development, particularly in developing countries. UNCTAD discharges its mandate through policy analysis; intergovernmental deliberations, consensus building, and negotiation; monitoring, implementation, and follow-up; and technical cooperation.



For more information, see www.unctad.org/.

United Nations Educational, Scientific, and Cultural Organization, Institute for Statistics

The United Nations Educational, Scientific, and Cultural Organization is a specialized agency of the United Nations that promotes "collaboration among nations through education, science, and culture in order to further universal respect for justice, for the rule of law, and for the human rights and fundamental freedoms . . . for the peoples of the world, without distinction of race, sex, language, or religion."



For more information, see www.uis.unesco.org/.

United Nations Environment Programme

The mandate of the United Nations Environment Programme is to provide leadership and encourage partnership in caring for the environment by inspiring, informing, and enabling nations and people to improve their quality of life without compromising that of future generations.



For more information, see www.unep.org/.

United Nations Industrial Development Organization

The United Nations Industrial Development Organization was established to act as the central coordinating body for industrial activities and to promote industrial development and cooperation at the global, regional,



national, and sectoral levels. Its mandate is to help develop scientific and technological plans and programs for industrialization in the public, cooperative, and private sectors.

For more information, see www.unido.org/.

World Bank Group

The World Bank Group is the world's largest source of development assistance. Its mission is to fight poverty and improve the living standards of people in the developing world. It is a development bank, providing loans, policy advice, technical assistance, and knowledge sharing services to low- and middle-income countries to reduce poverty. The Bank promotes growth to create jobs and to empower poor people to take advantage of these opportunities. It uses its financial resources, trained staff, and extensive knowledge base to help each developing country onto a path of stable, sustainable, and equitable growth in the fight against poverty. The World Bank Group has 184 member countries.



For more information, see www.worldbank.org/data/.

World Health Organization

The objective of the World Health Organization (WHO), a specialized agency of the United Nations, is the attainment by all people of the highest possible level of health. The WHO carries out a wide range of functions, including coordinating international health work; helping governments strengthen health services; providing technical assistance and emergency aid; working for the prevention and control of disease; promoting improved nutrition, housing, sanitation, recreation, and economic and working conditions; promoting and coordinating biomedical and health services research; promoting improved standards of teaching and training in health and medical professions; establishing international standards for biological, pharmaceutical, and similar products; and standardizing diagnostic procedures.



For more information, see www.who.int/.

World Intellectual Property Organization

The World Intellectual Property Organization (WIPO) is an international organization dedicated to helping to ensure that the rights of creators and owners of intellectual property are protected worldwide and that inventors and authors are thus recognized and rewarded for their ingenuity. WIPO's main tasks include harmonizing national intellectual property legislation and procedures, providing services for international applications for industrial property rights, exchanging intellectual property information, providing legal and technical assistance to developing and other countries facilitating the resolution of private intellectual property disputes, and marshalling information technology as a tool for storing, accessing, and using valuable intellectual property information. A substantial part of its activities and resources is devoted to development cooperation with developing countries.



For more information, see www.wipo.int/.

World Tourism Organization

The World Tourism Organization is an intergovernmental body entrusted by the United Nations with promoting and developing tourism. It serves as a global forum for tourism policy issues and a source of tourism know-how. For more information, see www.world-tourism.org/.

World Trade Organization

The World Trade Organization (WTO) is the only international organization dealing with the global rules of trade between nations. Its main function is to ensure that trade flows as smoothly, predictably, and freely as possible. It does this by administering trade agreements, acting as a forum for trade negotiations, settling trade disputes, reviewing national trade policies, assisting developing countries in trade policy issues—through technical assistance and training programs—and cooperating with other international organizations. At the heart of the system—known as the multilateral trading system—are the WTO's agreements, negotiated and signed by a large majority of the world's trading nations and ratified by their parliaments.



For more information, see www.wto.org/.

Private and nongovernmental organizations

Containerisation International

Containerisation International Yearbook is one of the most authoritative reference books on the container industry. The information can be accessed on the Containerisation International Web site, which also provides a comprehensive online daily business news and information service for the container industry.



For more information, see www.ci-online.co.uk/.

International Institute for Strategic Studies

The International Institute for Strategic Studies (IISS) provides information and analysis on strategic trends and facilitates contacts between government leaders, business people, and analysts that could lead to better public policy in international security and international relations. The IISS is a primary source of accurate, objective information on international strategic issues.



For more information, see www.iiss.org/.

International Road Federation

The International Road Federation (IRF) is a nongovernmental, not-for-profit organization with a mission to encourage and promote development and maintenance of better and safer roads and road networks. It helps put in place technological solutions and management practices that provide maximum economic and social returns from national road investments.



The IRF has a major role to play in all aspects of road policy and development worldwide. For governments and financial institutions, the IRF provides a wide base of expertise for planning road development strategy and policy. For its members, the IRF is a business network, a link to external institutions and agencies and a business card of introduction to government officials and decisionmakers. For the community of road professionals, the IRF is a source of support and information for national road associations, advocacy groups, companies, and institutions dedicated to the development of road infrastructure.

For more information, see www.irfnet.org/.

Netcraft

Netcraft's work includes the provision of network security services and research data and analysis of the Internet. It is an authority on the market share of Web servers, operating systems, hosting providers, Internet service providers, encrypted transactions, electronic commerce, scripting languages, and content technologies on the Internet.

For more information, see www.netcraft.com/.

PricewaterhouseCoopers

PricewaterhouseCoopers provides industry-focused assurance, tax, and advisory services for public and private clients in corporate accountability, risk management, structuring and mergers and acquisitions, and performance and process improvement.

For more information, see www.pwcglobal.com/.

Standard & Poor's Emerging Markets Data Base

Standard & Poor's Emerging Markets Data Base (EMDB) is the world's leading source for information and indices on stock markets in developing countries. It currently covers 53 markets and more than 2,600 stocks. Drawing a sample of stocks in each EMDB market, Standard & Poor's calculates indices to serve as benchmarks that are consistent across national boundaries. Standard & Poor's calculates one index, the S&P/IFCG (Global) index, that reflects the perspective of local investors and those interested in broad trends in emerging markets and another, the S&P/IFCI (Investable) index, that provides a broad, neutral, and historically consistent benchmark for the growing emerging market investment community.

For more information, see www.standardandpoors.com/.

World Conservation Monitoring Centre

The World Conservation Monitoring Centre provides information on the conservation and sustainable use of the world's living resources and helps others to develop information systems of their own. It works in close collaboration with a wide range of people and organizations to increase access to the information needed for wise management of the world's living resources.

For more information, see www.unep-wcmc.org/.

World Information Technology and Services Alliance

The World Information Technology and Services Alliance (WITSA) is the global voice of the information technology industry. It is dedicated to advocating policies that advance the industry's growth and development; facilitating international trade and investment in information technology products and services; strengthening WITSA's national industry associations; and providing members with a broad network of contacts. WITSA also hosts the World Congress on Information Technology and other worldwide events.

For more information, see www.witsa.org/.







World Resources Institute

The World Resources Institute is an independent center for policy research and technical assistance on global environmental and development issues. The institute provides—and helps other institutions provide—objective information and practical proposals for policy and institutional change that will foster environmentally sound, socially equitable development. The institute's current areas of work include trade, forests, energy, economics, technology, biodiversity, human health, climate change, sustainable agriculture, resource and environmental information, and national strategies for environmental and resource management.



For more information, see www.wri.org/.

USERS GUIDE

Tables

The tables are numbered by section and display the identifying icon of the section. Tables 1.1, 1.2, 1.3, and 1.5 are presented by World Bank region, with the economies for each region listed alphabetically within the region. For other tables countries and economies are listed alphabetically (except for Hong Kong, China, which appears after China). Data are shown for 152 economies with populations of more than 1 million, as well as for Taiwan, China, in selected tables. Table 1.6 presents selected indicators for 56 other economies—small economies with populations between 30,000 and 1 million and smaller economies if they are members of the International Bank for Reconstruction and Development (IBRD) or, as it is commonly known, the World Bank. The term country, used interchangeably with economy, does not imply political independence, but refers to any territory for which authorities report separate social or economic statistics. When available, aggregate measures for income and regional groups appear at the end of each table.

Indicators are shown for the most recent year or period for which data are available and, in most tables, for an earlier year or period (usually 1990 in this edition). Time-series data are available on the World Development Indicators CD-ROM and in WDI Online.

Known deviations from standard definitions or breaks in comparability over time or across countries are either footnoted in the tables or noted in *About the data*. When available data are deemed to be too weak to provide reliable measures of levels and trends or do not adequately adhere to international standards, the data are not shown.

Aggregate measures for income groups

The aggregate measures for income groups include 208 economies (the economies listed in the main tables plus those in table 1.6) wherever data are available. To maintain consistency in the aggregate measures over time and between tables, missing data are imputed where possible. The aggregates

are totals (designated by a *t* if the aggregates include gap-filled estimates for missing data and by an *s*, for simple totals, where they do not), median values (*m*), weighted averages (*w*), or simple averages (*u*). Gap filling of amounts not allocated to countries may result in discrepancies between subgroup aggregates and overall totals. For further discussion of aggregation methods, see *Statistical methods*.

Aggregate measures for regions

The aggregate measures for regions include only low- and middle-income economies (note that these measures include developing economies with populations of less than 1 million, including those listed in table 1.6).

The country composition of regions is based on the World Bank's analytical regions and may differ from common geographic usage. For regional classifications, see the map on the inside back cover and the list on the back cover flap. For further discussion of aggregation methods, see *Statistical methods*.

Statistics

Data are shown for economies as they were constituted in 2004, and historical data are revised to reflect current political arrangements. Exceptions are noted throughout the tables.

Additional information about the data is provided in *Primary data documentation*. That section summarizes national and international efforts to improve basic data collection and gives information on primary sources, census years, fiscal years, and other background. *Statistical methods* provides technical information on some of the general calculations and formulas used throughout the book.

Data consistency and reliability

Considerable effort has been made to standardize the data, but full comparability cannot be assured, and care must be taken in interpreting the indicators. Many factors affect data availability, comparability, and reliability. Statistical systems in many developing economies are still weak; statistical methods, coverage, practices, and definitions differ widely; and cross-country and intertemporal comparisons involve complex technical and conceptual problems that cannot be unequivocally resolved. Data coverage may not be complete because of special circumstances or for economies experiencing problems (such as those stemming from conflicts) affecting the collection and reporting of data. For these reasons, although data are drawn from the sources thought to be most authoritative, they should be construed only as indicating trends and characterizing major differences among economies rather than offering precise quantitative measures of those differences.

Discrepancies in data presented in different editions of *World Development Indicators* reflect updates by countries as well as revisions to historical series and changes in methodology. Thus readers are advised not to compare data series between editions of *World Development Indicators* or between different World Bank publications. Consistent time-series data for 1960–2004 are available on the *World Development Indicators* CD-ROM and in *WDI Online*

Except where otherwise noted, growth rates are in real terms. (See *Statistical methods* for information on the methods used to calculate growth rates.) Data for some economic indicators for some economies are presented in fiscal years rather than calendar years; see *Primary data documentation*. All dollar figures are current U.S. dollars unless otherwise stated. The methods used for converting national currencies are described in *Statistical methods*.

Country notes

- Unless otherwise noted, data for China do not include data for Hong Kong, China; Macao, China; or Taiwan, China.
- Data for Indonesia include Timor-Leste through 1999 unless otherwise noted.
- External debt data presented for the Russian Federation prior to 1992 are for the former Soviet Union.
 See About the data for table 4.16 for details.

Changes in the System of National Accounts

World Development Indicators uses terminology in line with the 1993 United Nations System of National Accounts (SNA). For example, in the 1993 SNA gross national income (GNI) replaces gross national product (GNP). See About the data for tables 1.1 and 4.8.

Most economies continue to compile their national accounts according to the 1968 SNA, but more and more are adopting the 1993 SNA. Economies that use the 1993 SNA are identified in *Primary data documentation*. A few low-income economies still use concepts from older SNA guidelines, including valuations such as factor cost, in describing major economic aggregates.

Classification of economies

For operational and analytical purposes the World Bank's main criterion for classifying economies is GNI per capita. Each economy is classified as low income, middle income (subdivided into lower middle and upper middle), or high income. For income classifications see the map on the inside front cover and the list on the front cover flap. Low- and middle-income economies are sometimes referred to as developing economies. The use of the term is convenient; it is not intended to imply that all economies in the group are experiencing similar development or that other economies have reached a preferred or final stage of development. Note that classification by income does not necessarily reflect development status.

Because GNI per capita changes over time, the country composition of income groups may change from one edition of *World Development Indicators* to the next. Once the classification is fixed for an edition, based on GNI per capita in the most recent year for which data are available (2004 in this edition), all historical data presented are based on the same country grouping.

Low-income economies are those with a GNI per capita of \$825 or less in 2004. Middle-income economies are those with a GNI per capita of more than \$825 but less than \$10,066. Lower-middle-income and upper-middle-income economies are separated

at a GNI per capita of \$3,255. High-income economies are those with a GNI per capita of \$10,066 or more. The 12 participating member countries of the European Monetary Union (EMU) are presented as a subgroup under high-income economies.

Symbols

...

means that data are not available or that aggregates cannot be calculated because of missing data in the vears shown.

0 or 0.0

means zero or less than half the unit shown.

/

in dates, as in 2003/04, means that the period of time, usually 12 months, straddles two calendar years and refers to a crop year, a survey year, an academic year, or a fiscal year.

\$

means current U.S. dollars unless otherwise noted.

>

means more than.

<

means less than.

Data presentation conventions

- A blank means not applicable or, for an aggregate, not analytically meaningful.
- A billion is 1,000 million.
- A trillion is 1,000 billion.
- Figures in italics refer to years or periods other than those specified or to growth rates calculated for less than the full period specified.
- Data for years that are more than three years from the range shown are footnoted.

The cutoff date for data is February 1, 2006.



he Millennium Development Goals have become the principal global scorecard for development. In September 2005 the United Nations World Summit reaffirmed the principles in the 2000 Millennium Declaration and recognized the need for ambitious national development strategies backed by increased international support.

Financing the needed investments. Financing the investments needed to achieve the Goals remains a challenge for the domestic resources of developing countries and the aid budgets of developed countries. Developing countries need to pursue good governance and sound macroeconomic policies, and rich countries need to increase their support for developing countries able to absorb more aid. Some developed countries have adopted timetables to increase official development assistance to 0.7 percent of gross national income by 2015 and to reach at least 0.5 percent by 2010, while ensuring that at least 0.2 percent goes to the least developed countries. The World Summit also called for increased debt relief or restructuring for countries with unsustainable debt burdens that are not part of the Heavily Indebted Poor Countries Initiative.

The challenge of measurement. Many of these strengthened goals and targets are not easily measured. Reliable, direct measures of the incidence or prevalence of many diseases are unavailable. And because models and data sources are still evolving, estimates may not be comparable over time or across countries. Gaps remain even for the well established measures of poverty, education, mortality, and health care, and major investments in statistical systems will be needed to fill them, by developing countries themselves and international agencies.

Expanding targets to support the goals. The World Summit resolution draws attention to four issues that should receive greater prominence over the next five years:

- Reproductive health, integrating reproductive health into strategies for achieving the goals of improving maternal health, reducing child mortality, promoting gender equality, combating HIV/AIDS, and eradicating poverty.
- *Combating disease*, intensifying the fight against HIV/AIDS by "providing sufficient health workers, infrastructure, management systems, and supplies to achieve the health-related [goals] by 2015" and calling for renewed efforts to come "as close as possible to the goal of universal access to HIV treatment by 2010."
- *Employment*, strengthening the focus of the goals on employment by making it "a central objective of our relevant national and international policies as well as our national development strategies. . . ."
- *Environment*, extending the areas of concern in at least three dimensions: biodiversity, development of indigenous people, and protection from natural and human-caused hazards. The resolution calls on all states to "significantly reduce the loss of biodiversity by 2010."

The next five years. When the Millennium Development Goals were promulgated in 2000, the international community reached back a decade to establish a baseline. Nothing could be done to alter the course of those preceding 10 years. In the succeeding five years the world took stock of its commitments and took the first steps to accelerate progress toward the goals. But without measures that accelerate change, many countries may fall short of the targets set for 2015. That is why the next five years are so important. By 2010 we will know whether the goals can be achieved. If by then we have not committed the necessary resources, adopted reforms, and implemented effective new programs, it will be difficult to make further course corrections.



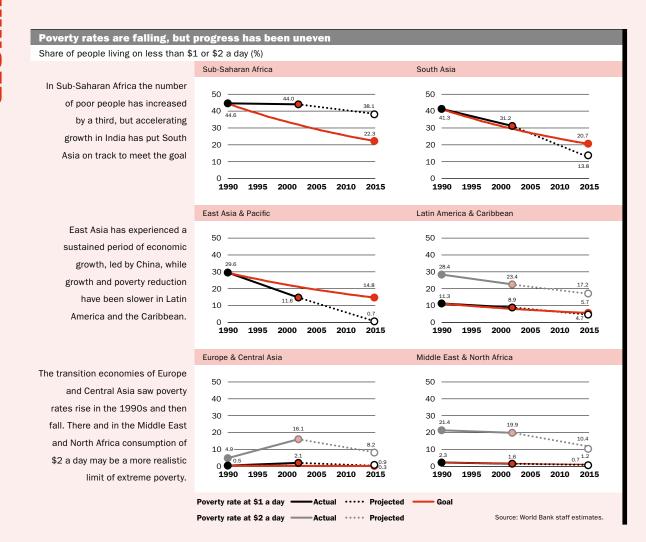
Reducing poverty and hunger

Poverty exists everywhere, but there has been progress.

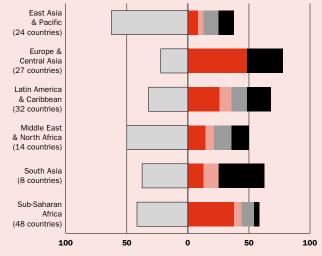
Extreme poverty in developing countries fell from 28 percent in 1990 to 19 percent in 2002. Over the same period the number of people in developing countries grew 20 percent, to more than 5 billion, leaving 1 billion people in extreme poverty. If economic growth rates in developing countries are sustained, global poverty will fall to 10 percent by 2015—a striking success.

But more than 600 million people will still be trapped in poverty in 2015, most of them in Sub-Saharan Africa and South Asia and wherever poor health and lack of education deprive people of productive employment; environmental resources have been depleted or spoiled; and corruption, conflict, and misgovernance waste public resources and discourage private investment.

Even as the first target of the Millennium Development Goals appears in sight, the efforts to eliminate poverty must be renewed.



Country by country progress on poverty Share of countries on track to achieve the poverty reduction target (%) ☐ Insufficient data ■ Seriously off track ■ Off track ■ On track ■ Reached target East Asia & Pacific (24 countries) Europe & Central Asia



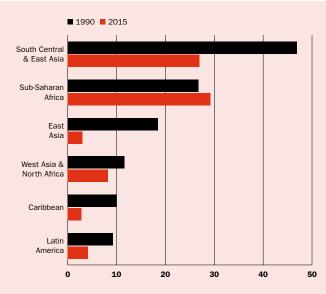
Source: World Bank staff estimates.

The Millennium Development Goals are intended to be met by all countries. This figure shows the share of countries in each region that are on track to achieve the poverty reduction target, based on available survey estimates. Some countries have already achieved the target.

Those shown as on track could reach the 2015 target if they maintain their current progress. But those shown as off track or seriously off track are reducing poverty too slowly-or have even seen it increase-to achieve the first of the Millennium Development Goals.

Malnutrition rates are predicted to fall everywhere except in Sub-Saharan Africa

Prevalence of moderate to severe malnutrition (% of children under age 5)



Note: Regions differ from the World Bank's operational classification. Source: de Onis and others 2004.

Malnutrition in children often begins at birth. Malnourished children develop more slowly, enter school later, and perform less well. The proportion of severely underweight children is falling, but fewer than 40 percent of the 77 countries with adequate data to monitor trends are on track to reach the Millennium Development Goal target. Faster progress is possible. Programs to continue breastfeeding and to improve the diets of pregnant and lactating mothers help. So do appropriate care and feeding of sick children, oral rehydration therapy, control of parasitic diseases, and vitamin A supplementation.

Malnutrition—a persistent problem Moderately and severely malnourished children (millions under age 5) 100 In 2020 the number **1997** 2020 of malnourished മറ children will have fallen everywhere, except in Sub-Saharan Africa, 40 where there are likely to 20 be more than in 1997. Sub-West Asia Asia Saharan Asia & North America Africa Africa Source: Tarmann 2002 Sub-Saharan Africa Share of children under age 5 (%) Malnutrition rates will 40 **1990** fall too slowly in most 2015 of Africa to meet the 30 Millennium Development 20 Goal target, and they may rise in eastern Africa. 10 0 Eastern Western Central Africa Africa Africa Africa Source: de Onis and others 2004 Share of children under age 5, by wealth quintile (%) Child malnutrition 30 **1992** remained unchanged in 2000 Malawi during the 1990s, with improvements in some groups offset by increases in others. 10 quintile auintile auintile auintile Source: Demographic and Health Surveys Mali Share of children under age 5, by wealth quintile (%) In Mali average child 1995 2001 malnutrition rates fell, but most of the improvement was among the wealthier part of the population.

Highest

quintile

Fourth

quintile

Source: Demographic and Health Surveys

quintile

quintile

10

0

Educating all children

Since 1990 the world has called for all children to be able to complete primary school. But more than 100 million primary school age children remain out of school.

To reach the target of universal primary education by 2015, school systems with low completion rates will need to start now to train teachers, build classrooms, and improve the quality of education. Most important, they will have to remove such barriers to attendance as fees and lack of transportation, and

address parents' concern for the safety of their children.

Education is the foundation of all societies and globally competitive economies. It is the basis for reducing poverty and inequality, improving health, enabling the use of new technologies, and creating and spreading knowledge. In an increasingly complex, knowledge-dependent world, primary education, as the gateway to higher levels of education, must be the first priority.



Country by country progress toward universal primary education

Share of countries on track to achieve the primary education target (%)

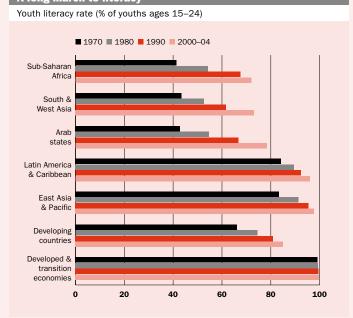


Source: World Bank staff estimates.

In many developing countries children are already able to complete a full course of primary education, but in all regions at least a few countries remain off track and unlikely to reach the target of education for all by 2015. Countries that are off track typically need to raise their

completion rates by about 10 percentage points to achieve the target. But those that are seriously off track have much farther to go. Unless they accelerate progress, they will not reach the target before 2040, depriving several more generations of the benefits of education.

A long march to literacy



Source: UNESCO 2005.

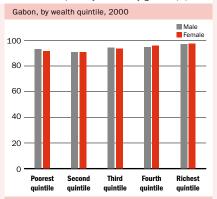
Literacy rates among young people ages 15–24 are the only widely reported measure of educational outcomes. As more children have entered school and stayed in school longer, the global youth literacy rate has risen from 75 percent in 1970 to 88 percent in 2000–04.

Throughout the developing world literacy rates are higher among youth than among adults, a sign of progress. Efforts are under way to develop better measures of literacy and more direct measures of the quality of educational outcomes.

Patterns of school attendance

Share of children ages 6-11 enrolled in primary school, by gender (%)

Gabon has high levels of primary school attendance across all income groups, although completion rates are still low.

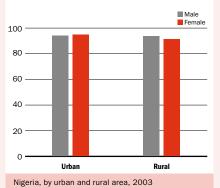


In Nigeria only the wealthiest families are able to provide primary education for all their children.

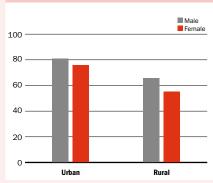


Gabon, by urban and rural area, 2000

In Gabon attendance rates are equally high for boys and girls and in urban and rural settings.



But in Nigeria rural children have fewer opportunities to attend and complete primary school.



Source: World Bank staff estimates based on Demographic and Helth Surveys. Eliminate gender disparity in primary and secondary education, preferably by 2005, and at all levels by 2015.



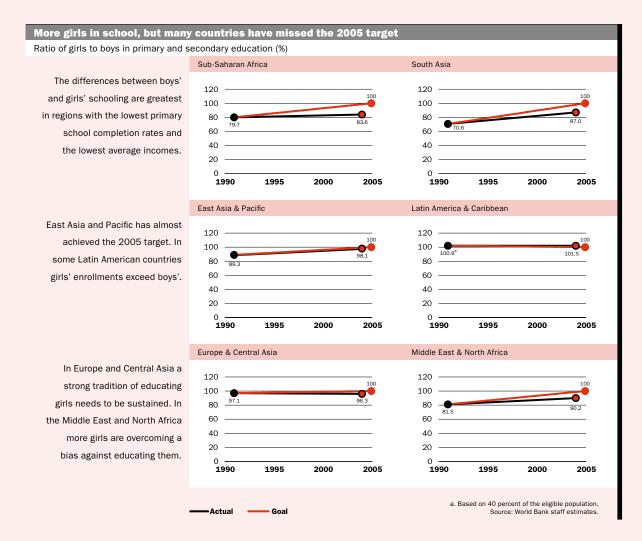
Empowering women

When a country educates its girls, its mortality rates usually fall, fertility rates decline, and the health and education prospects of the next generation improve.

Unequal treatment of women—by the state, in the market, and by their community and family—puts them at a disadvantage throughout their lives and stifles the development prospects of their societies. Illiterate and poorly educated mothers are less able to care for their children. Low education levels and

responsibilities for household work prevent women from finding productive employment or participating in public decisionmaking.

What will it take to improve girls' enroll-ments? Mainly, overcoming the social and economic obstacles that stop parents from sending their daughters to school. For many poor families the economic value of girls' work at home exceeds the perceived returns to schooling. Improving the accessibility of schools and their quality and affordability is a first step.



Country by country progress toward equal enrollment Share of countries on track to achieve equal enrollment of girls and boys in primary and secondary school (%) ☐ Insufficient data ■ Seriously off track ■ Off track ■ On track ■ Reached target East Asia & Pacific (24 countries) Europe & Central Asia (27 countries) Latin America & Caribbean (32 countries) Middle East & North Africa (14 countries) South Asia (8 countries) Sub-Saharan Africa (48 countries) 50 0 50 100

Source: World Bank staff estimates.

The first target of the Millennium Development Goals to fall due calls for enrolling equal numbers of boys and girls in primary and secondary school by 2005, an important stepping stone on the way to full gender equality at all levels of education. But even in regions that have

achieved the target on average, such as Europe and Central Asia and Latin American and the Caribbean, some countries still fall short. And in South Asia and Sub-Saharan Africa, where large numbers of children are out of school, girls are at a severe disadvantage.

Degrees of difference Ratio of girls' to boys' gross enrollment rates (%) ■ Primary level ■ Secondary level East Asia & Pacific Europe & Central Asia Latin America & Caribbean Middle East & North Africa South Sub-Saharan Africa O 20 40 60 80 100 120

Note: A value of more than 100 means that enrollment rates of girls exceed those of boys.

In a competitive world economy both boys and girls need to be educated to higher levels. Girls are underrepresented in primary education in all regions, but in some they are overrepresented at the secondary level. This may happen because boys take longer to complete

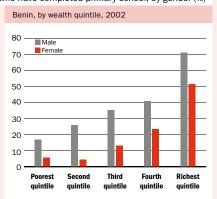
primary school or drop out of secondary school faster than girls. In other regions the familiar pattern is repeated: fewer girls are enrolled in primary schools and their share falls even farther at higher levels. Whatever the cause, the result is not equitable.

Wealth, gender, and location make a difference

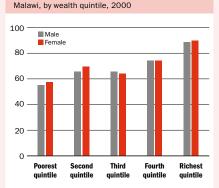
Share of children 15–19 who have completed primary school, by gender (%)

School attendance rates are low in Benin, except among the rich.

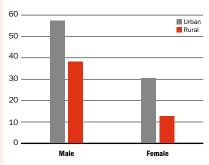
Poor children rarely complete school, and even among rich families girls have few opportunities to complete primary education.



A recent survey in Malawi found almost equal completion rates for boys and girls, although children of the poorest families are still less likely to attend school.

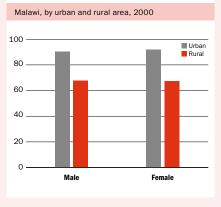


In Benin efforts
to increase girls'
attendance will have to
improve the accessibility
of schools and overcome
the reluctance of rural
families to send their
daughters to school.



Benin, by urban and rural area, 2002

In Malawi, where completion rates have risen in recent years, rural areas still lag, but boys and girls are represented equally among those who complete primary school.



Source: World Bank staff estimates based on Demographic and Health Surveys.

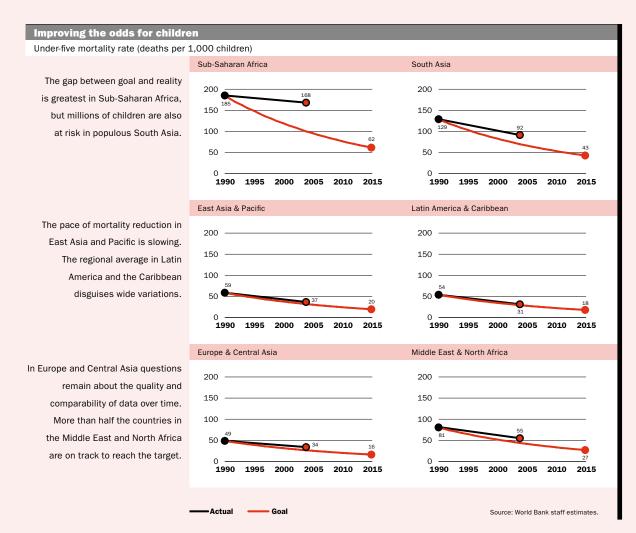


Saving children

Rapid improvements before 1990 gave hope that mortality rates for infants and children under five could be cut by two-thirds in the following 25 years. But progress slowed almost everywhere in the 1990s.

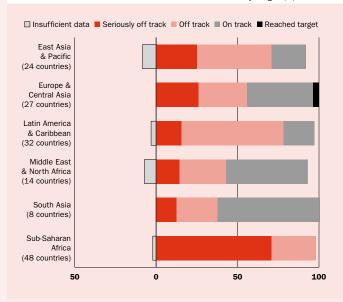
Every year almost 11 million children in developing countries still die before the age of five. Most die from causes that are readily preventable in rich countries: acute respiratory infections, diarrhea, measles, and malaria.

Only two regions, Latin America and the Caribbean and Europe and Central Asia, are close to achieving the target on average. But even there, more than half the countries are off track. Progress has been particularly slow in Sub-Saharan Africa, where civil disturbances and the HIV/AIDS epidemic have driven up rates of infant and child mortality. By the most recent data available, only 35 countries are making enough progress to reduce under-five mortality rates to one-third of their 1990 level by 2015.



Country by country progress toward reduced child mortality

Share of countries on track to achieve the child mortality target (%)



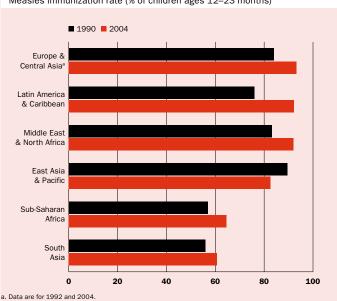
Source: World Bank staff estimates.

A concerted effort to improve the measurement of infant and child mortality has filled many gaps in the international data set, revealing that many countries still fall short of achieving the target, even where regional averages have been improving. Based on estimates through 2004, only 35 countries are

on track to achieve a two-thirds reduction in mortality rates. Every country in Sub-Saharan Africa is off track, and in some countries mortality rates have increased since 1990. The good news is that recent surveys have found rapidly falling mortality rates. These could be the first signs of faster progress.

Prevention comes first

Measles immunization rate (% of children ages 12–23 months)



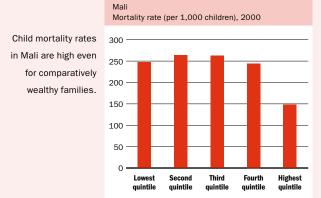
Source: World Health Organization and United Nations Children's Fund estimates.

Many causes of early childhood deaths are preventable through the basic elements of public health: immunization programs, hand washing, access to safe water and sanitation facilities, and good nutrition.

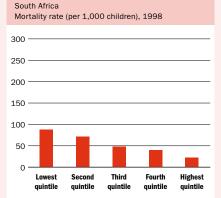
Measles immunization now reaches more infants, and measles deaths are falling. Developing regions with more than 90 percent immunization rates are on par with the high-income economies.

Cruel differences

Under-five mortality and immunization rates by wealth quintiles



In South Africa the disparity between rich and poor is greater, but the average is much lower than in Mali.



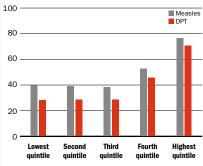
immunization rates,
especially for its poorest
children. Diphtheria,
pertussis, and tetanus
(DPT) immunization,
which is harder to deliver,
lags behind measles

for all income groups.

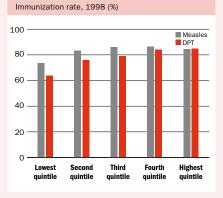
Mali has low

Mali

Immunization rate, 2000 (%)



In South Africa immunization programs reach most children in all income groups, and DPT immunization rates are almost equal to those for measles immunization.



Source: World Bank staff estimates based on Demographic and Health Surveys.



Caring for mothers

Death in childbirth is a rare event in rich countries, where there are typically fewer than 10 maternal deaths for every 100,000 live births. But in the poorest countries of Africa and Asia the ratio may be 100 times higher. And because women in poor countries have more children, their lifetime risk of maternal death may be more than 200 times greater than for women in Western Europe and North America.

More than 500,000 women die each year in childbirth, most of them in developing countries. What makes maternal mortality such a compelling problem is that it strikes young women experiencing a natural function of life. They die because they are poor. Malnourished. Weakened by disease. Exposed to multiple pregnancies. And they die because they lack access to trained health care workers and modern medical facilities.

Source: World Bank staff estimates

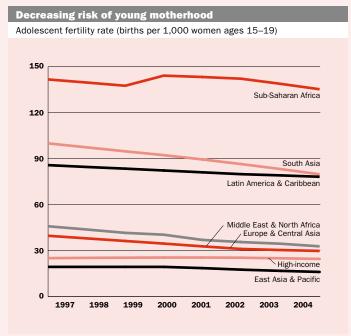
Mothers at risk in Africa and South Asia Left axis (line): total fertility rate (births per woman); right axis (bar): maternal mortality ratio (deaths per 100,000 live births) Sub-Saharan Africa South Asia Maternal mortality ratios are 1.000 1.000 still unacceptably high in many 750 750 developing countries as a result 500 500 of high fertility rates and a high risk of dying each time a 250 250 woman becomes pregnant. 1990 1995 2000 2004 1990 1995 2000 2004 East Asia & Pacific Latin America & Caribbean Some developing countries - 1,000 have substantially improved maternal health through better - 500 services in hospitals and increased numbers of trained birth attendants and midwives. 1990 2004 1995 2000 2004 2000 Europe & Central Asia Middle East & North Africa Still others not only improved maternal health, but significantly lowered fertility rates directly through use of contraceptives and indirectly through increased female education. **1**990 1990 1995 2004 1995 2004 2000 2000

Country by country progress in providing skilled care at births Share of countries on track to achieve adequate coverage of births by skilled health personnel (%) □ Insufficient data ■ Seriously off track ■ Off track ■ On track ■ Reached target East Asia & Pacific (24 countries) Europe & Central Asia (27 countries) Latin America & Caribbean (32 countries) Middle East & North Africa (14 countries) South Asia (8 countries) Sub-Saharan Africa (48 countries) 50 0 50 100

Source: World Bank staff estimates

Because few countries are able to measure maternal mortality over time, other indicators are often used to measure progress toward this goal. Skilled health personnel and modern medical facilities are needed to deal with the complications of childbirth that can claim mothers' lives. This figure shows the proportion of coun-

tries in each region that provide skilled health personnel for 90 percent of births or could do so by 2015 based on current trends. Countries that are off track may be able to achieve 75 percent coverage by 2015, while seriously off-track countries will not reach even that level unless they make rapid progress in the next decade.



Source: World Bank staff estimates.

Fertility rates among young women have been falling, but they remain high in Sub-Saharan Africa, South Asia, and Latin America and the Caribbean. Young mothers run higher risks of complications in childbirth and lower birthweight

babies. They are also likely to have more births over their lifetime, increasing their lifetime risk of maternal death. Education and access to reproductive health services help to lower fertility rates.

Lowest

quintile

Second

quintile

Zimbabwe, 1999 Contraceptive prevalence rate by wealth quintile (%)

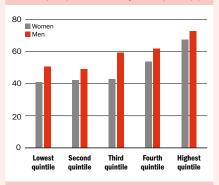
Third

Fourth

quintile

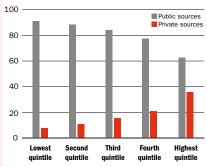
Highest

Wealthier men and women are more likely to use contraception.



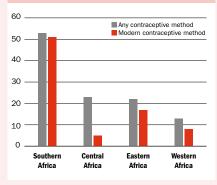
Zimbabwe, 1999 Source of contraception by wealth quintiles (%)

In Zimbabwe both poor and rich rely heavily on public sources for contraception.



Contraceptive prevalence rates Share of women in union (%)

Where contraceptive prevalence rates are higher, men and women are more likely to be using modern methods.



Source: World Bank staff estimates based on Demographic and Health Surveys; UNFPA 2005.

 Have halted by 2015 and begun to reverse the spread of HIV/AIDS. Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.



Combating disease

Epidemic diseases exact a huge toll in human suffering and lost opportunities for development. Poverty, armed conflict, and natural disasters contribute to the spread of disease and are worsened by it.

In Africa the spread of HIV/AIDS has reversed decades of improvements in life expectancy and left millions of children orphaned. It is draining the supply of teachers and eroding the quality of education.

There are 300–500 million cases of malaria each year, leading to more than 1 million

deaths. Nearly all the cases and more than 95 percent of the deaths occur in Sub-Saharan Africa. Most deaths from malaria are among children younger than five years old.

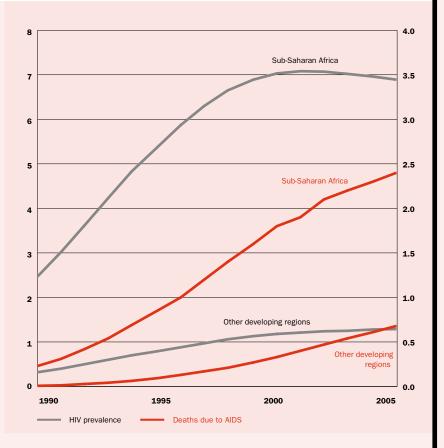
Tuberculosis kills some 2 million people a year, most of them 15–45 years old. The disease is spreading more rapidly because of the emergence of drug-resistant strains of tuberculosis; the spread of HIV/AIDS, which reduces resistance to tuberculosis; and the growing number of refugees and displaced people.

As the HIV/AIDS epidemic matures, the death toll keeps rising

Left axis: adult (ages 15-49) HIV prevalence rate (%); right axis: number of deaths due to AIDS (millions)

Worldwide, 40 million adults and children are living with HIV/AIDS and almost 5 million new infections occurred in 2005. The adult prevalence rate has stabilized in Sub-Saharan Africa and other developing regions, not because the epidemic has been halted but because the death rate now equals the rate of new infections.

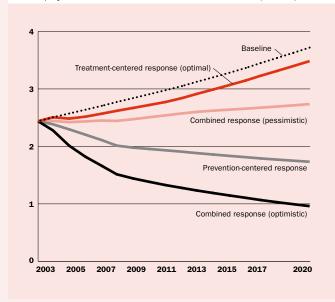
Although prevalence rates are lower outside of Sub-Saharan Africa, the number of people infected is increasing and so is the death rate. There were almost a million new cases in South and East Asia, where more than 7 million people are now living with HIV/AIDS.



Source: UNAIDS/WHO 2005

The HIV epidemic can be reversed

Model projections of HIV infections in Sub-Saharan Africa (millions)



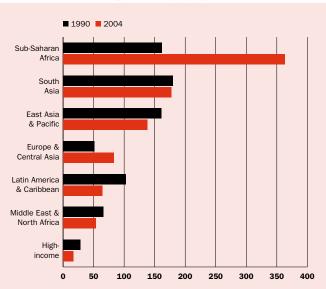
Source: Salomon and others 2005.

What will it take to halt and reverse the HIV epidemic? A combination of effective treatment and prevention programs. Antiretroviral therapy is starting to reach people in poor countries, although not yet at the levels needed, and prevention programs have begun

to alter behavior. Computer simulations of the epidemic suggest that a combination of intensive treatment and prevention programs would be most effective in reducing new infections and averting 10 million deaths between now and 2020.

Tuberculosis rates on the rise or falling slowly

Incidence of tuberculosis (per 100,000 people)



Source: World Bank staff estimates.

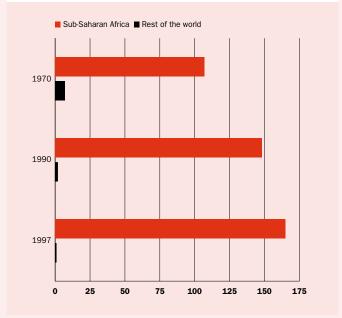
Each year there are 8 million new cases of tuberculosis—3 million in South and East Asia, 2 million in Sub-Saharan Africa, and more than a quarter million in countries of the former Soviet Union.

The disease has spread fastest in poor countries with ineffective health systems. Poorly managed tuberculosis

programs allow drug-resistant strains to spread. And tuberculosis is often associated with HIV infections, which compromise the body's immune system. Positive diagnosis, effective treatment, and follow-up care can achieve high cure rates, but many cases go undetected.

Malaria is a leading killer in Africa

Malaria deaths (per 100,000 people)



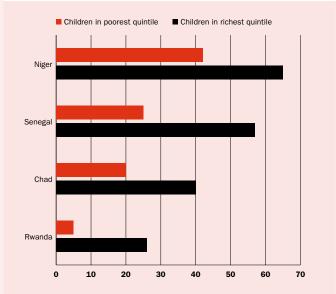
Source: WHO 1999.

Malaria, once widespread, is now largely a disease of the tropics. It takes its greatest toll in Sub-Saharan Africa, where more than 1 million people die each year, most of them children under the age of five. Millions more suffer

from repeated infections, leaving them unable to work for weeks at a time. The World Bank estimates that the disease has slowed economic growth in Africa by 1.3 percent a year (World Bank 2001).

Poor children bear the burden of malaria

Children under age 5 receiving antimalarial treatment (%)



Source: World Bank 2005e.

Malaria is a disease of poverty and a cause of poverty. Although adults may experience repeated bouts of the debilitating disease, children are most likely to die—more than 2,000 children die each day because of malaria in Sub-Saharan Africa. Effective treatment

can save lives and reduce the burden of disease, but in many countries children in the poorest families do not receive treatment. Prevention is also important. The use of insecticide-treated bednets has been shown to protect children.

- Integrate the principles of sustainable development into country policies and programs and reverse the loss of environmental resources.
- Reduce by half the proportion of people without sustainable access to safe drinking water.
- Achieve significant improvement in the lives of at least 100 million slum dwellers by 2020.

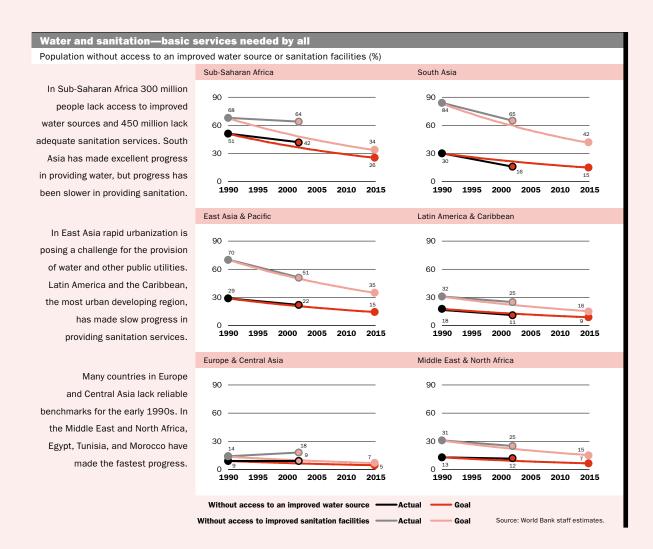


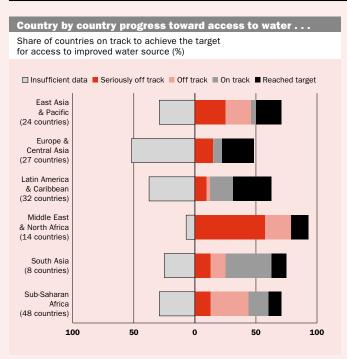
Using resources wisely

Sustainable development can be ensured only by protecting the environment and using its resources wisely. Poor people, often dependent on environmental resources for their livelihood, are the most affected by environmental degradation and natural disasters (fires, storms, earthquakes) whose effects are worsened by environmental mismanagement.

Most countries have adopted principles of sustainable development and agreed to international accords on protecting the environment. But good intentions are not enough. Around the world land is being degraded. Forests are being lost. Fisheries are being overused. Plant and animal species are becoming extinct. And carbon dioxide emissions are driving changes in global climate.

Rich countries are major consumers of products and services from the environment. Thus rich countries and poor countries alike have a stake in using environmental resources wisely.

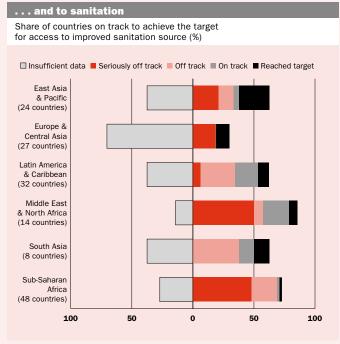




Source: World Bank staff estimates.

Lack of clean water and basic sanitation is the main reason diseases transmitted by feces are so common in developing countries. Water is a daily need that must be met, but in some places people spend many hours to obtain water from

sources that are not protected from contamination. Even the modest target of reducing by half the number of people without access to an improved water source will not be met in many countries at the current rate of progress.



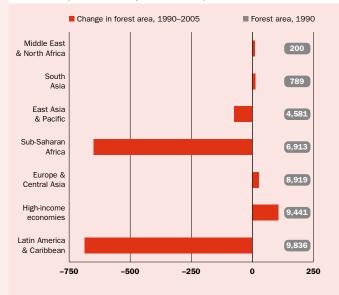
Source: World Bank staff estimates.

An improved sanitation system provides disposal facilities that can effectively prevent human, animal, and insect contact with excreta. It does not, however, ensure treatment of effluents to remove harmful

substances before they are released into the environment. Large populations in Africa and Asia still lack adequate sanitation facilities, and few countries are currently on track to reach the target.

Forests falling

Forest area (thousands of square kilometers)



Note: Positive values indicate an increase in forest area.

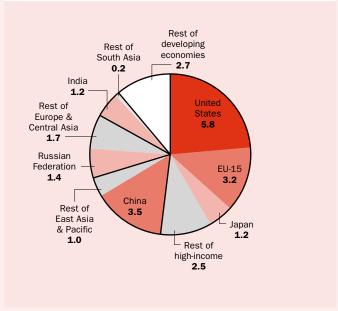
Source: FAO data and World Bank staff estimates.

Since 1990 the world has lost about 1.3 million square kilometers of forest—almost 100,000 square kilometers each year. The losses have been greatest in the great tropical forests of Sub-Saharan Africa and Latin America and the Caribbean. Forest products, including tim-

ber, are important sources of livelihood for people in developing countries, and forests provide habitat for many plant and animal species. To ensure sustainable development, forests must be managed wisely to continue to benefit future generations.

Fuel for climate change—high carbon dioxide emitters

Emissions of carbon dioxide, 2002 (billions of metric tons)



Source: CDIAC data and World Bank staff estimates.

Carbon dioxide, which is produced by burning fossil fuels and manufacturing cement, is a greenhouse gas that contributes to global climate change. Emissions rose by 3 billion metric tons between 1990 and 2002. High-income economies are the largest emitters of carbon dioxide, and their share has increased. However, China is the world's second largest emitter, next to the United States. Emissions by India are also increasing.

- · Develop further an open trading and financial system that is rule-based, predictable, and nondiscriminatory.
- Address the special needs of the least developed countries.
- Address the special needs of
- landlocked and small island developing states.
- Deal comprehensively with developing countries' debt problems to make debt sustainable in the long term.
- **Develop decent and productive**
- work for youth.
- Provide access to affordable essential drugs in developing countries.
- Make available the benefits of new technologies—especially information and communications technologies.



EVELOPMENT PARTNET

Working together

The eighth and final goal complements the others. In partnership, wealthy countries work with developing countries to create an environment in which rapid, sustainable development is possible. Important steps toward global partnership were taken at international meetings in 2001 in Doha, which launched a new "development round" of trade negotiations, and in 2002 at the International Conference on Financing for Development in Monterrey, Mexico, where high-income and developing countries reached consensus on mutual responsibilities for achieving the Millennium Development Goals. The consensus calls for developing countries to improve governance and policies aimed at increasing economic growth and reducing poverty and for high-income countries to provide more and better aid and greater access to their markets.

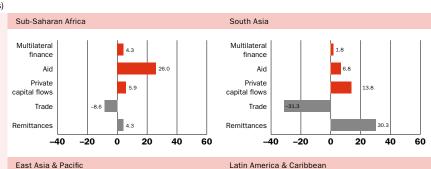
Goal 8 also reminds us that the development challenges differ for large countries and small countries. And that developing countries need access to new technologies to increase productivity and improve people's lives.

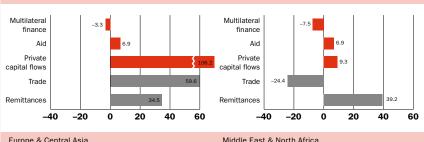
Many sources and many patterns Selected net flows, 2004 (\$ billions)

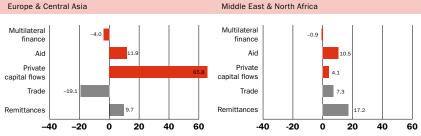
Aid plays an important role in development, especially in lowincome countries. The extremely poor countries of Sub-Saharan Africa and Asia still need substantial increases in aid to reach their development goals. Countries in all regions borrow from multilateral institutions, such as the World Bank, but some are repaying more than they borrow.

In addition to aid, developing countries meet part of their financing needs through private capital flows. Rapidly growing economies need and attract large flows of direct and portfolio investment. which have been particularly important in East Asia and Pacific.

> Export demand can be an important source of growth, and trade surpluses can also provide substantial foreign exchange earnings. Remittances from people living and working abroad are a growing source of income for households in some developing economies.







Source: World Bank staff estimates

Official development assistance is rising, but still too little Left axis (bars): official development assistance (2003 \$ billions): right axis (line): net disbursements as a share of 2003 donors' GNI (%) 0.35 0.30 0.25 0.20 0.15 0.10 0.05 1992 1994 1998 2004 1990 1996 2000 2002

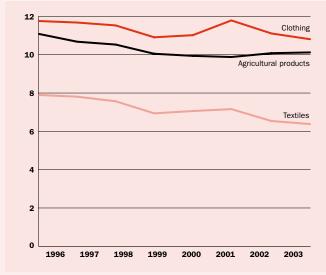
Source: OECD Development Assistance Committee.

Official development assistance (ODA) is the aid provided by the richest countries to the poorest. Through much of the 1990s ODA levels fell while ODA as a proportion of donors' GNI fell even faster. Many donors pledged to provide at least 0.7 percent of GNI, but the average remains

below 0.26 percent. Since 2002 donors have pledged to increase aid by \$20 billion a year in 2006 and to provide nearly \$130 billion a year by 2010. But large increases in aid have, so far, gone to only a few countries such as Iraq, Afghanistan, and the Democratic Republic of Congo.

Tariffs remain high on poor countries' exports

Average tariffs imposed by developed countries on developing country imports (%)

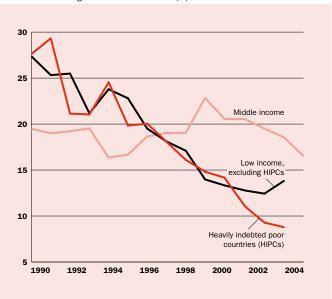


Note: Based on UN definitions of developed and developing countries, which may differ slightly from those of the World Bank. Source: International Trade Centre, World Trade Organization, and United Nations Conference on Trade and Development.

Creating opportunities for developing countries to sell their products in wealthier markets is an important complement to aid. Many high-income countries allow selected exports of poor countries to enter duty-free. The recent dropping of quotas on textiles has created new opportunities for efficient producers. But high-income countries' tariffs on goods important to developing countries, such as textiles and agricultural products, remain high.

Debt service is falling, but more relief is needed

Ratio of external debt service to exports of goods and services including workers' remittances (%)



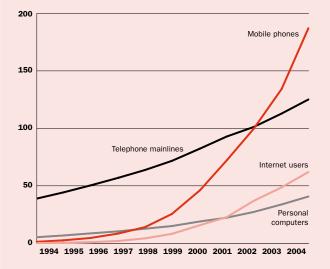
Source: World Bank staff estimates

Low-income countries paid \$26 billion in debt service on public debt in 2004. Middle-income countries paid \$173 billion.

Developing country export earnings, needed to acquire the currencies to pay their creditors, have been rising while debt service has grown more slowly, reducing debt burdens for many countries. But for extremely poor countries debt service represents a crucial loss of potential development resources. Since 1998 the Heavily Indebted Poor Countries Initiative has provided \$57 billion in debt relief.

New technologies are spreading quickly

Information and communications technology users in low- and middle-income economies (per 1,000 people)



Source: World Bank staff estimates and data from the International Telecommunication Union.

New technologies bring new opportunities to developing countries. Mobile phones help to eliminate the bottlenecks of fixed, mainline phone service. Personal computers are more widely available, and the Internet is expanding rapidly. These are examples of integrating technologies,

which reduce barriers of time, space, and culture. Developing countries also need access to new medicines to reduce the terrible burden of disease. Bringing these and other life-saving technologies to poor people will require willing cooperation between the public and private sectors.

Goals, targets, and indicators

Goals ar	nd targets from the Millennium Declaration	Indi	icators for monitoring progress
Goal 1	Eradicate extreme poverty and hunger		
Target 1	Halve, between 1990 and 2015, the proportion of people whose income is less than \$1 a day	1 1a 2	Proportion of population below \$1 (PPP) a day ^a Poverty headcount ratio (percentage of population below the national poverty line) Poverty gap ratio [incidence x depth of poverty]
		3	Share of poorest quintile in national consumption
Target 2	Halve, between 1990 and 2015, the proportion of people who suffer from hunger	4 5	Prevalence of underweight children under five years of age Proportion of population below minimum level of
Goal 2	Achieve universal primary education		dietary energy consumption
Target 3	Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling	6 7 8	Net enrollment ratio in primary education Proportion of pupils starting grade 1 who reach grade 5 Literacy rate of 15- to 24-year-olds
Goal 3	Promote gender equality and empower women		
Target 4	Eliminate gender disparity in primary and secondary education, preferably by 2005, and in all levels of education no later than 2015	9 10 11 12	Ratios of girls to boys in primary, secondary, and tertiary education Ratio of literate women to men ages 15–24 Share of women in wage employment in the nonagricultural sector Proportion of seats held by women in national parliaments
Goal 4	Reduce child mortality		
Target 5	Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate	13 14 15	Under-five mortality rate Infant mortality rate Proportion of one-year-old children immunized against measles
Goal 5	Improve maternal health		
Target 6	Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio	16 17	Maternal mortality ratio Proportion of births attended by skilled health personnel
Goal 6	Combat HIV/AIDS, malaria, and other diseases		
Target 7	Have halted by 2015 and begun to reverse the spread of HIV/AIDS	19b	HIV prevalence among pregnant women ages 15–24 Condom use rate of the contraceptive prevalence rate Condom use at last high-risk sex Percentage of 15- to 24-year-olds with comprehensive correct knowledge of HIV/AIDS ^d Contraceptive prevalence rate Ratio of school attendance of orphans to school attendance of nonorphans ages 10–14
Target 8	Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases	21 22 23 24	Prevalence and death rates associated with malaria Proportion of population in malaria-risk areas using effective malaria prevention and treatment measures ⁶ 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		
Target 9	Integrate the principles of sustainable development into country policies and programs and reverse the loss of environmental resources	25 26 27 28 29	Proportion of land area covered by forest Ratio of area protected to maintain biological diversity to surface area Energy use (kilograms of oil equivalent) per \$1 GDP (PPP) Carbon dioxide emissions per capita and consumption of ozone-depleting chlorofluorocarbons (ODP tons) Proportion of population using solid fuels
Target 10	Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation	30 31	Proportion of population with sustainable access to an improved water source, urban and rural Proportion of population with access to improved sanitation, urban and rural

Goals and targets from the Millennium Declaration Indicators for monitoring progress Target 11 By 2020, to have achieved a significant improvement 32 Proportion of households with access to secure tenure in the lives of at least 100 million slum dwellers **Goal 8** Develop a global partnership for development Target 12 Develop further an open, rule-based, predictable, Some of the indicators listed below are monitored nondiscriminatory trading and financial system separately for the least developed countries (LDCs), Africa, landlocked countries and small island developing states. Includes a commitment to good governance, Official development assistance (ODA) development and poverty reduction—both nationally and internationally Net ODA, total and to the least developed countries, as a percentage of OECD/DAC donors' gross national income Proportion of total bilateral, sector-allocable ODA of OECD/DAC donors to basic social services (basic Target 13 Address the special needs of the least developed education, primary health care, nutrition, safe water countries and sanitation) Proportion of bilateral official development assistance Includes tariff and quota free access for the least of OECD/DAC donors that is untied developed countries' exports; enhanced programme ODA received in landlocked countries as a proportion of debt relief for heavily indebted poor countries of their gross national incomes (HIPC) and cancellation of official bilateral debt; and 37 ODA received in small island developing states as more generous ODA for countries committed to proportion of their gross national incomes poverty reduction **Market access** 38 Proportion of total developed country imports (by value Address the special needs of landlocked countries and excluding arms) from developing countries and from and small island developing states (through the the least developed countries, admitted free of duty Programme of Action for the Sustainable Average tariffs imposed by developed countries on Development of Small Island Developing States agricultural products and textiles and clothing from and the outcome of the 22nd special session of the developing countries General Assembly) Agricultural support estimate for OECD countries as a percentage of their gross domestic product Proportion of ODA provided to help build trade capacity **Debt sustainability** Target 15 Deal comprehensively with the debt problems of 42 Total number of countries that have reached their developing countries through national and HIPC decision points and number that have reached international measures in order to make debt their HIPC completion points (cumulative) sustainable in the long term Debt relief committed under HIPC Debt Initiative 43 Debt service as a percentage of exports of goods and 44 services Target 16 In cooperation with developing countries, develop Unemployment rate of 15- to 24-year-olds, male and 45 female and total f and implement strategies for decent and productive work for youth Target 17 In cooperation with pharmaceutical companies, Proportion of population with access to affordable provide access to affordable essential drugs in essential drugs on a sustainable basis developing countries Target 18 In cooperation with the private sector, make 47 Telephone lines and cellular subscribers per 100 people available the benefits of new technologies, especially 48a Personal computers in use per 100 people

Note: Goals, targets, and indicators effective September 8, 2003.

information and communications

a. For monitoring country poverty trends, indicators based on national poverty lines should be used, where available. b. An alternative indicator under development is "primary completion rate." c. Among contraceptive methods, only condoms are effective in preventing HIV transmission. Since the condom use rate is only measured among women in union, it is supplemented by an indicator on condom use in high-risk situations (indicator 19a) and an indicator on HIV/AIDS knowledge (indicator 19b). Indicator 19c (contraceptive prevalence rate) is also useful in tracking progress in other health, gender, and poverty goals. d. This indicator is defined as the percentage of 15- to 24-year-olds who correctly identify the two major ways of preventing the sexual transmission of HIV (using condoms and limiting sex to one faithful, uninfected partner), who reject the two most common local misconceptions about HIV transmission, and who know that a healthy-looking person can transmit HIV. However, since there are currently not a sufficient number of surveys to be able to calculate the indicator as defined above, UNICEF, in collaboration with UNAIDS and WHO, produced two proxy indicators that represent two components of the actual indicator. They are the percentage of women and men ages 15–24 who know that a person can protect herself from HIV infection by "consistent use of condom," and the percentage of women and men ages 15–24 who know a healthy-looking person can transmit HIV. e. Prevention to be measured by the percentage of children under age five sheeping under insecticide-treated bednets; treatment to be measured by percentage of children under age five who are appropriately treated. f. An improved measure of the target for future years is under development by the International Labour Organization.

48b Internet users per 100 people





Size of the economy

	Population	Surface area	Population density	Gross n		Gross n		PPP	gross natio income ^a	nal		omestic duct
	millions 2004	thousand sq. km 2004	people per sq. km 2004	\$ billions 2004 ^b	Rank 2004	\$ 2004 ^b	Rank 2004	\$ billions 2004	Per capita \$ 2004	Rank 2004	% growth 2003–04	Per capita % growth 2003–04
East Asia & Pacific ^c	1,870 s	16,301 s	118 w	2,647.2 t		1,416 w		9,968 t	5,332 w		9.0 w	8.1 w
Cambodia	14	181	78	4.8	128	350	183	32 ^d	2,310 ^d	154	7.7	5.6
China	1,296	9,598 ^e	139	1,938.0	5	1,500	129	7,634 ^f	5,890 ^f	108	10.1	9.4
Hong Kong, China	7			183.5	28	26,660	27	217	31,560	12	8.1	6.9
Indonesia	218	1,905	120	248.0	22	1,140	137	757	3,480	140	5.1	3.7
Korea, Dem. Rep.	22	121	186			g						
Lao PDR	6	237	25	2.3	154	390	180	11	1,880	171	6.3	3.9
Malaysia	25 3	330	76 2	112.6	37	4,520	79 464	242	9,720	78	7.1	5.2
Mongolia Myanmar	50	1,567 677	76	1.5	164	600 ^g	161	5	2,040	162	10.7	9.2
Papua New Guinea	6	463	13	3.3	 142	° 560	 164	 13 ^d	2,280 ^d	 155	2.5	0.4
Philippines	82	300	274	95.1	41	1,170	136	404	4,950	125	6.1	4.2
Thailand	64	513	125	158.4	31	2,490	104	505	7,930	88	6.2	5.3
Vietnam	82	332	252	44.6	58	540	168	222	2,700	149	7.7	6.6
Europe & Central Asia	472 s	24,238 s		1,557.1 t	00	3,295 w	100	3,945 t	8,350 w	110	7.2 w	7.1 w
Albania	3	29	114	6.6	114	2,120	120	16	5,070	124	5.9	5.3
Armenia	3	30	107	3.2	143	1,060	139	13	4,160	135	7.0	7.4
Azerbaijan	8	87	101	7.8	105	940	147	32	3,810	137	10.2	9.2
Belarus	10	208	47	21.0	75	2,140	119	68	6,970	97	11.0	11.6
Bosnia and Herzegovina	4	51	76	8.0	104	2,040	122	28	7,230	95	6.2	6.4
Bulgaria	8	111	70	21.3	73	2,750	99	62	7,940	86	5.6	6.4
Croatia	4	57	79	30.3	61	6,820	69	53	11,920	69	3.8	3.8
Czech Republic	10	79	132	93.3	42	9,130	59	188	18,420	51	4.4	4.3
Estonia	1	45	32	9.5	99	7,080	67	18	13,630	62	7.8	8.2
Georgia	5	70	65	4.8	129	1,060	139	13 ^d	2,900 ^d	146	6.2	7.3
Hungary	10	93	110	84.6	46	8,370	62	160	15,800	57	4.6	4.9
Kazakhstan	15	2,725	6	33.8	60	2,250	114	104	6,930	99	9.4	8.8
Kyrgyz Republic	5	200	27	2.1	155	400	178	9	1,860	172	7.1	5.9
Latvia	2	65	37	12.9	91	5,580	75	27	11,820	70	8.3	8.9
Lithuania	3	65	55	19.7	77	5,740	74	44	12,690	65	6.7	7.2
Macedonia, FYR	2	26	80	4.9 2.6 ^h	126	2,420	105	13	6,560	102	2.9	2.7
Moldova Poland	4 38	34 313	128 125	2.6"	147 25	720 ^h 6,100	157 72	8 486	1,950 12,730	165 64	7.3 5.4	7.6 5.5
Romania	22	238	94	64.2	25 51	2,960	98	181	8,330	85	8.3	8.6
Russian Federation	144	17,098	94	488.5	16	3,400	94	1,392	9,680	79	7.1	7.7
Serbia and Montenegro	8	102	80	21.8 ⁱ	72	2,680 ⁱ	101			106	8.2	8.3
Slovak Republic	5	49	112	34.9	59	6,480	71	78	14,480	59	5.5	5.4
Tajikistan	6	143	46	1.8	162	280	190	7	1,160	186	10.6	9.4
Turkey	72	784	93	269.0	20	3,750	89	554	7,720	90	8.9	7.4
Turkmenistan	5	488	10									
Ukraine	47	604	82	60.2	53	1,270	132	300	6,330	104	12.1	13.0
Uzbekistan	26	447	62	11.9	93	450	172	49	1,860	172	7.7	6.1
Latin America & Carib.	546 s	20,418 s	27 w	1,952.1 t		3,576 w		4,183 t	7,661 w		5.9 w	4.4 w
Argentina	38	2,780	14	137.3	35	3,580	93	481	12,530	66	9.0	7.9
Bolivia	9	1,099	8	8.6	101	960	145	23	2,600	151	3.6	1.6
Brazil	184	8,515	22	551.6	13	3,000	97	1,460	7,940	86	4.9	3.5
Chile	16	757	22	84.2	47	5,220	76	171	10,610	77	6.1	4.9
Colombia	45	1,139	43	90.9	43	2,020	123	312 ^d	6,940 ^d	98	4.1	2.5
Costa Rica	4	51	83	19.0	79	4,470	80	39 ^d	9,220 ^d	82	4.2	2.3
Cuba	11	111	102			j					1.1	0.8
Dominican Republic	9	49	181	18.4	81	2,100	121	60 ^d	6,860 ^d	100	2.0	0.5
Ecuador	13	284	47	28.9	63	2,210	116	49	3,770	138	6.9	5.4
El Salvador	7	21	326	15.7	84 65	2,320	109	33 ^d 52 ^d	4,890 ^d	126	1.5	-0.2
Guatemala Haiti	12 8	109 28	113 305	26.9 <i>3.3</i>	65 140	2,190 <i>400</i>	117 175		4,260 ^d	130 166	2.7 0.4	0.2 <i>-</i> 1.0
Honduras	7	112	63	7.3	109	1,040	141	 19 ^d	 2,760 ^d	148	4.6	2.3
Hondulas	1	112	00	1.5	TO 3	1,040	エナエ	T 9	۷,،۰۰۰	±+0	+.∪	د.پ

Size of the economy 1.1

	Population	Surface area	Population density	Gross na inco		Gross n income p		PPP	gross natio income ^a	nal	Gross d	omestic duct
	millions 2004	thousand sq. km 2004	people per sq. km 2004	\$ billions	Rank 2004	\$ 2004 ^b	Rank 2004	\$ billions 2004	Per capita \$ 2004	Rank 2004	% growth 2003–04	Per capita % growth 2003–04
Jamaica	3	11	244	8.7	100	3,300 ^k	96	10	3,950	136	0.9	0.4
Mexico	104	1,958	54	704.9	10	6,790	70	1,001	9,640	80	4.4	2.9
Nicaragua	5	130	44	4.5	132	830 ^l	149	19	3,480	140	5.1	3.0
Panama	3	76	43	13.4	89	4,210	83	21 ^d	6,730 ^d	101	6.2	4.4
Paraguay	6	407	15	6.9	113	1,140	137	29 ^d	4,820 ^d	127	4.0	1.6
Peru	28	1,285	22	65.0	50	2,360	108	149	5,400	118	4.8	3.3
Trinidad and Tobago	1	5	254	11.4	95	8,730	61	15	11,430	73	6.2	5.9
Uruguay	3	176	20	13.4	88	3,900	88	31	9,030	83	11.9	11.1
Venezuela, RB	26	912	30	105.3	38	4,030	86	152	5,830	110	17.9	15.8
Middle East & N. Africa	300 s	8,984		592.0 t	46	1,972 w	446	1,722 t	5,734 w	4.0=	5.9 w	3.8 w
Algeria	32	2,382	14	73.3	49	2,270	113	204 ^d	6,320 ^d	105	5.2	3.6
Egypt, Arab Rep.	73	1,001	73	90.6	45	1,250	133	305	4,200	134 92	4.2	2.2
Iran, Islamic Rep.	67	1,648	41	155.3	32	2,320	109	505	7,530		5.6	4.6
Iraq Jordan	 5	438 89	 62	11.9	 92	ز. 2,190	117	26	4,770	 128	46.5 7.7	 5.1
Lebanon	4	10	346	21.3	92 74	6,010	73	20	5,550	117	6.3	5.1
Libya	6	1,760	3	25.3	68	4,400			0,000	84	4.5	2.5
Morocco	30	447	67	46.9	56	1,570	128	127	4,250	131	4.2	0.7
Oman	3	310	8	23.0	70	9,070	60	37	14,680	58	3.1	2.2
Syrian Arab Republic	19	185	101	22.8	71	1,230	134	65	3,500	139	2.0	-0.4
Tunisia	10	164	64	26.3	66	2,650	102	74	7,430	94	5.8	4.9
West Bank and Gaza	4			3.8	135	1,120	135			142	-1.7	-5.6
Yemen, Rep.	20	528	39	11.2	96	550	167	16	810	197	2.7	-0.5
South Asia	1,447 s	5,140	303 w	859.0 t		594 w		4,129 t	2,854 w		6.7 w	5.0 w
Afghanistan		652		5.5		g					7.5	
Bangladesh	139	144	1,069	61.3	52	440	174	274	1,970	164	6.3	4.3
India	1,080	3,287	363	673.2	11	620	159	3,369 ^d	3,120 ^d	144	6.9	5.4
Nepal	27	147	186	6.6	115	250	193	39	1,480	178	3.5	1.4
Pakistan	152	796	197	90.7	44	600	161	330	2,170	157	6.4	3.9
Sri Lanka	19	66	300	19.5	78	1,010	143	82	4,210	133	5.4	4.5
Sub-Saharan Africa	726 s	24,265		436.5 t	0.5	601 w	4.40	1,337 t	1,842 w	407	4.8 w	2.6 w
Angola	15	1,247	12	14.4	85	930	148	30 ^d	1,930 ^d	167	11.1	7.9
Benin	8 2	113 582	74 3	3.7 7.7	139 106	450 4.360	172 82	9 17	1,090 9,580	189 81	2.7 4.9	-0.5 5.0
Botswana Burkina Faso	13	274	47	4.4	133	350	183	15 ^d	1,170 ^d	184	3.9	0.6
Burundi	7		········	0.7	189	90	208	5 ^d	660 ^d	206	5.5	1.9
Cameroon		- 72	284				200	5	······		4.3	2.4
Odificiooff	16	28 475	284	······			151	3/1	2 1 2 0	160		
Central African Republic	16 4	475	34	13.0	90	810	151 187	34 4 ^d	2,120 1,100 ^d	160 188	··· ·	
Central African Republic Chad	4	475 623	34 6	13.0 1.2	90 169	810 310	187	4 ^d	1,100 ^d	188	1.3	0.0
Chad	4 9	475 623 1,284	34 6 8	13.0 1.2 2.3	90 169 152	810 310 250	187 193	4 ^d 13	1,100 ^d 1,340	188 182	1.3 29.8	0.0 25.5
	4 9 56	475 623 1,284 2,345	34 6	13.0 1.2 2.3 6.4	90 169 152 116	810 310 250 110	187 193 206	4 ^d 13 38 ^d	1,100 ^d 1,340 680 ^d	188 182 203	1.3 29.8 6.3	0.0 25.5 3.2
Chad Congo, Dem. Rep. Congo, Rep.	4 9	475 623 1,284	34 6 8 25	13.0 1.2 2.3	90 169 152	810 310 250	187 193	4 ^d 13	1,100 ^d 1,340	188 182	1.3 29.8	0.0 25.5
Chad Congo, Dem. Rep.	4 9 56 4	475 623 1,284 2,345 342	34 6 8 25 11	13.0 1.2 2.3 6.4 2.9	90 169 152 116 145	810 310 250 110 760	187 193 206 152	4 ^d 13 38 ^d 3	1,100 ^d 1,340 680 ^d 740	188 182 203 201	1.3 29.8 6.3 3.6	0.0 25.5 3.2 0.6
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire	4 9 56 4 18	475 623 1,284 2,345 342 322	34 6 8 25 11 56	13.0 1.2 2.3 6.4 2.9 13.6	90 169 152 116 145 87	810 310 250 110 760	187 193 206 152 152	4 ^d 13 38 ^d 3 26	1,100 ^d 1,340 680 ^d 740 1,470	188 182 203 201 180	1.3 29.8 6.3 3.6 1.6	0.0 25.5 3.2 0.6 0.1
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia	4 9 56 4 18 4	475 623 1,284 2,345 342 322 118	34 6 8 25 11 56 42	13.0 1.2 2.3 6.4 2.9 13.6 0.8	90 169 152 116 145 87 180	810 310 250 110 760 760 190	187 193 206 152 152 199	4 ^d 13 38 ^d 3 26 4 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d	188 182 203 201 180 191	1.3 29.8 6.3 3.6 1.6 1.8	0.0 25.5 3.2 0.6 0.1 -2.5
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon	4 9 56 4 18 4 70	475 623 1,284 2,345 342 322 118 1,104	34 6 8 25 11 56 42	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6	90 169 152 116 145 87 180 107	810 310 250 110 760 760 190 110	187 193 206 152 152 199 206	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d	188 182 203 201 180 191 200	1.3 29.8 6.3 3.6 1.6 1.8 13.1	0.0 25.5 3.2 0.6 0.1 -2.5 10.9
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The	4 9 56 4 18 4 70	475 623 1,284 2,345 342 322 118 1,104 268	34 6 8 25 11 56 42 70	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6	90 169 152 116 145 87 180 107	810 310 250 110 760 760 190 110 4,080	187 193 206 152 152 199 206 85	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700	188 182 203 201 180 191 200 112	1.3 29.8 6.3 3.6 1.6 1.8 13.1	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The	4 9 56 4 18 4 70 1	475 623 1,284 2,345 342 322 118 1,104 268	34 6 8 25 11 56 42 70 5	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6	90 169 152 116 145 87 180 107 119	810 310 250 110 760 760 190 110 4,080 280	187 193 206 152 152 199 206 85 190	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d	188 182 203 201 180 191 200 112 170	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Guinea	4 9 56 4 18 4 70 1 1	475 623 1,284 2,345 342 322 118 1,104 268 11	34 6 8 25 11 56 42 70 5 148	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4	90 169 152 116 145 87 180 107 119 192	810 310 250 110 760 760 190 110 4,080 280 380	187 193 206 152 152 199 206 85 190 182	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d	188 182 203 201 180 191 200 112 170	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Guinea Guinea Guinea	4 9 56 4 18 4 70 1 1 22	475 623 1,284 2,345 342 322 118 1,104 268 11 239 246	34 6 8 25 11 56 42 70 5 148 95	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8	90 169 152 116 145 87 180 107 119 192 102	810 310 250 110 760 760 190 110 4,080 280 380 410	187 193 206 152 152 199 206 85 190 182 177	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d 38	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160	188 182 203 201 180 191 200 112 170 156 158	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Guinea Guinea Guinea Kenya	4 9 56 4 18 4 70 1 1 22 9 2 33	475 623 1,284 2,345 342 322 118 1,104 268 11 239 246 36	34 6 8 25 11 56 42 70 5 148 95 37 55	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8 0.3 16.1 1.3	90 169 152 116 145 87 180 107 119 192 102 138 203 83 166	810 310 250 110 760 760 190 110 4,080 280 380 410 160 480 730	187 193 206 152 152 199 206 85 190 182 177 201 171 156	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160 690 ^d	188 182 203 201 180 191 200 112 170 156 158 202 187	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6 4.3	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4 1.2 2.0 2.5
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Ghana Guinea Guinea-Bissau Kenya	4 9 56 4 18 4 70 1 1 22 9 2 33 2	475 623 1,284 2,345 342 322 118 1,104 268 11 239 246 36 580	34 6 8 25 11 56 42 70 5 148 95 37 55	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8 0.3 16.1	90 169 152 116 145 87 180 107 119 192 102 138 203 83	810 310 250 110 760 760 190 110 4,080 280 380 410 160 480	187 193 206 152 152 199 206 85 190 182 177 201	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d 38	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160 690 ^d 1,130	188 182 203 201 180 191 200 112 170 156 158 202 187	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6 4.3	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4 1.2 2.0
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Ghana Guinea Guinea-Bissau Kenya Lesotho	4 9 56 4 18 4 70 1 1 22 9 2 33 2 3 18	475 623 1,284 2,345 342 322 118 1,104 268 11 239 246 36 580 30	34 6 8 25 11 56 42 70 5 148 95 37 55 59	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8 0.3 16.1 1.3	90 169 152 116 145 87 180 107 119 192 102 138 203 83 166	810 310 250 110 760 760 190 110 4,080 280 380 410 160 480 730	187 193 206 152 152 199 206 85 190 182 177 201 171 156	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d 38 6 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160 690 ^d 1,130 3,250 ^d	188 182 203 201 180 191 200 112 170 156 158 202 187	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6 4.3 4.3 2.3 2.4 5.2	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4 1.2 2.0 2.5 1.8 2.4
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea Ethiopia Gabon Gambia, The Ghana Guinea Guinea-Bissau Kenya Lesotho Liberia Madagascar	4 9 56 4 18 4 70 1 1 22 9 2 33 2 3 18 13	475 623 1,284 2,345 342 312 118 1,104 268 11 239 246 36 580 30 111 587	34 6 8 25 11 56 42 70 5 148 95 37 55 59 59 34 31	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8 0.3 16.1 1.3 0.4 5.2 2.0	90 169 152 116 145 87 180 107 119 192 102 138 203 83 166 195 124 156	810 310 250 110 760 760 190 110 4,080 280 380 410 160 480 730 120 290 160	187 193 206 152 152 199 206 85 190 182 177 201 171 156 205 189 201	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d 38 6 ^d 15	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160 690 ^d 1,130 3,250 ^d 840 630	188 182 203 201 180 191 200 112 170 156 158 202 187 143 203 195 207	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6 4.3 4.3 2.3 2.4 5.2 6.7	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4 1.2 2.0 2.5 1.8 2.4 4.4
Chad Congo, Dem. Rep. Congo, Rep. Côte d'Ivoire Eritrea	4 9 56 4 18 4 70 1 1 22 9 2 33 2 3 18	475 623 1,284 2,345 342 312 118 1,104 268 11 239 246 36 580 30 111 587	34 6 8 25 11 56 42 70 5 148 95 37 55 59 59 34 31	13.0 1.2 2.3 6.4 2.9 13.6 0.8 7.6 5.6 0.4 8.3 3.8 0.3 16.1 1.3 0.4 5.2	90 169 152 116 145 87 180 107 119 192 102 138 203 83 166 195 124	810 310 250 110 760 760 190 110 4,080 280 380 410 160 480 730 120 290	187 193 206 152 152 199 206 85 190 182 177 201 171 156 205 189	4 ^d 13 38 ^d 3 26 4 ^d 52 ^d 8 3 ^d 48 ^d 20 1 ^d 38 6 ^d	1,100 ^d 1,340 680 ^d 740 1,470 960 ^d 750 ^d 5,700 1,890 ^d 2,220 ^d 2,160 690 ^d 1,130 3,250 ^d 840	188 182 203 201 180 191 200 112 170 156 158 202 187 143 203 195	1.3 29.8 6.3 3.6 1.6 1.8 13.1 1.4 8.3 5.8 2.6 4.3 4.3 2.3 2.4 5.2	0.0 25.5 3.2 0.6 0.1 -2.5 10.9 -0.2 5.4 3.6 0.4 1.2 2.0 2.5 1.8 2.4



Size of the economy

	Population	Surface area	Population density	Gross na inco		Gross n income p	national er capita	PPP	gross natio income ^a	nal		omestic duct
	millions 2004	thousand sq. km 2004	people per sq. km 2004	\$ billions 2004 ^b	Rank 2004	\$ 2004 ^b	Rank 2004	\$ billions	Per capita \$ 2004	Rank 2004	% growth 2003–04	Per capita % growth 2003–04
Mauritius	1	2	608	5.7	118	4,640	78	15	11,950	68	4.2	3.2
Mozambique	19	802	25	5.3	122	270	192	23 ^d	1,170 ^d	184	7.2	5.1
Namibia	2	824	2	4.8	130	2,380	107	15 ^d	7,520 ^d	93	6.0	4.7
Niger	13	1,267	11	2.8	146	210	196	11 ^d	780 ^d	199	0.9	-2.4
Nigeria	129	924	141	55.3	54	430	175	125 ^d	970 ^d	190	6.0	3.7
Rwanda	9	26	360	1.9	158	210	196	11	1,240	183	4.0	2.5
Senegal	11	197	59	7.2	110	630	158	19 ^d	1,660 ^d	176	6.2	3.7
Sierra Leone	5	72	75	1.1	175	210	196	3	550	208	7.4	3.0
Somalia	8	638	13			g						
South Africa	46	1,219	37	165.3	30	3,630	92	499 ^d	10,960 ^d	75	3.7	4.4
Sudan	36	2,506	15	18.7	80	530	169	64 ^d	1,810 ^d	174	6.0	4.0
Swaziland	1	17	65	1.9	160	1,660	127	6	5,650	114	2.1	0.8
Tanzania -	38	945	43	11.6 ^m	94	320 ^m	185	25	670	205	6.3	4.3
Togo	6	57	110	1.9	159	310	187	9d	1,510 ^d	177	3.0	0.4
Uganda	28	241	141	6.9	112	250	193	40 ^d	1,450 ^d	181	5.7	2.1
Zambia	11	753	15	4.6	131	400	178	10	890	194	4.6	2.9
Zimbabwe	13	391	33	8.0	103	620	159	26	2,040	162	-4.2	-4.7
High income	1,004 s	34,595		32,245.3 t	4.4	32,112 w	05	31,138 t	•	00	3.4 w	2.6 w
Australia	20	7,741	3	544.3	14	27,070	25	590	29,340	22	3.0	1.8
Austria	8	84	99	263.9	21	32,280	15	260	31,800	10	2.2	1.5
Belgium	10	33	318	326.0	18 9	31,280	17	329	31,530	13	2.9	2.5
Canada	32	9,985	4	905.0		28,310	21	984	30,760	16	2.9	1.8
Denmark	5 5	43 338	127 17	220.2 171.9	26 29	40,750	6 14	172 156	31,770 29,800	11 19	2.4 3.7	2.1
Finland France	60	552	110	1,888.4 ⁿ	29 6	32,880 30,370 ⁿ	19	1,779	29,800	20	2.3	3.4 1.7
Germany	83	357	236	2,532.3	3	30,690	18	2,324	28,170	27	1.6	1.6
Greece	11	132	86	185.0	27	16,730	42	2,324	22,230	41	4.2	3.9
Ireland	4	70	59	139.6	34	34,310	12	134	32,930	8	4.9	3.0
Israel	7	22	313	118.0	36	17,360	39	162	23,770	37	4.4	2.8
Italy	58	301	196	1,513.1	7	26,280	28	1,613	28,020	28	1.2	1.4
Japan	128	378	351	4.734.3	2	37,050	9	3,809	29,810	18	2.7	2.5
Korea, Rep.	48	99	487	673.1	12	14,000	50	987	20,530	46	4.6	4.1
Kuwait	2	18	138	55.3	55	22,470	33	53 ^d	21,610 ^d	43	7.2	4.5
Netherlands	16	42	481	523.1	15	32,130	16	511	31,360	15	1.4	1.1
New Zealand	4	271	15	81.2	48	19,990	37	90	22,260	40	4.4	3.1
Norway	5	324	15	237.8	24	51,810	2	178	38,680	4	2.9	2.6
Portugal	11	92	115	149.3	33	14,220	49	202	19,240	49	1.0	0.4
Puerto Rico	4	9	439			0						
Saudi Arabia	24	2,150	11	242.9	23	10,140	55	331 ^d	13,810 ^d	61	5.2	2.5
Singapore	4	1	6,329	105.0	39	24,760	29	116	27,370	29	8.4	7.0
Slovenia	2	20	99	29.5	62	14,770	47	42	20,830	45	4.6	4.5
Spain	43	505	86	919.1	8	21,530	34	1,057	24,750	33	3.1	1.4
Sweden	9	450	22	322.3	19	35,840	10	269	29,880	17	3.6	3.2
Switzerland	7	41	185	366.5	17	49,600	3	264	35,660	6	2.1	1.4
United Arab Emirates	4	84	52	102.7	40	23,770	31	104	24,090	34	8.5	1.5
United Kingdom	60	244	247	2,013.4	4	33,630	13	1,882	31,430	14	3.1	2.6
United States	294	9,629	32	12,168.5	1	41,440	5	11,693	39,820	3	4.2	3.2
World	6,365 s	133,941	s 49 w	40,282.3 t		6,329 w		56,289 t	8,844 w		4.1 w	2.9 w
Low income	2,343	30,276	80	1,187.7		507		5,291	2,258		6.5	4.6
Middle income	3,018	69,070	45	6,862.7		2,274		20,051	6,644		7.2	6.3
Lower middle income	2,442	39,173	63	4,116.0		1,686		14,233	5,829		7.6	6.6
Upper middle income	576	29,897	20	2,748.2		4,769		5,859	10,168		6.6	6.0
Low & middle income	5,361	99,346	55	8,050.1		1,502		25,334	4,726		7.1	5.8
High income	1,004	34,595	30	32,245.3		32,112		31,138	31,009		3.4	2.6

a. PPP is purchasing power parity. b. Calculated by the World Bank Atlas method. c. Hong Kong, China, a high-income economy, is not included in this aggregate. d. Based on regression; others are extrapolated from International Comparison Program benchmark estimates. e. Includes Hong Kong, China; Macao, China; and Taiwan, China. f. Based on a 1986 bilateral comparison of China and the United States (Rouen and Kai 1995) employing a different methodology than that used for other countries. This interim methodology will be revised in the next few years. g. Estimated to be low income. h. Excludes data for Transnistria. i. Excludes data for Kosovo. j. Estimated to be lower middle income. k. Included in the aggregates for low-income economies based on earlier data. m. Data refers to mainland Tanzania only. n. Includes French Guiana, Guadeloupe, Martinique, and Réunion. o. Estimated to be high income.

About the data

Population, land area, income, output, and growth in output are basic measures of the size of an economy. They also provide a broad indication of actual and potential resources. Population, land area, income (as measured by gross national income, GNI) and output (as measured by gross domestic product, GDP) are therefore used throughout *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 an 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 an economy's agricultural capacity and the environmental effects of human activity. (For measures of land area and data on rural population density, land use, and agricultural productivity, see tables 3.1–3.3.) Innovations in satellite mapping and computer databases have resulted in more precise measurements of land and water areas.

GNI 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. For definitions of the income groups in *World Development Indicators*, see *Users guide*. For discussion of the usefulness of national income and output as measures 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, using a three-year average of exchange rates to smooth the effects of transitory fluctuations in exchange rates. (For further discussion of the *Atlas* method, see *Statistical methods.*) GDP and GDP per capita growth rates are calculated from data in constant prices and national currency units.

Because exchange rates do not always reflect differences in price levels between countries, this table also converts GNI and GNI per capita estimates into international dollars using purchasing power parity (PPP) rates. PPP rates provide a standard measure allowing comparison of real levels of expenditure between countries, just as conventional price indexes allow comparison of real values over time. The PPP conversion factors used here are derived from price surveys covering 118 countries conducted by the International Comparison Program. For Organisation for Economic Co-operation and Development (OECD) countries data come from the most recent round of surveys, completed in 2002; the rest are from either the 1996 or the 1993 survey or earlier round and 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 *World Development Indica-*tors are ranked by size, including those that appear in
table 1.6. The ranks are shown only in table 1.1. 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 at their
approximate level, so that the relative order of other
economies remains consistent.

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 2004. 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. GDP per capita is gross domestic product divided by midyear population.

1.1a

Developing countries produce slightly less than half the world's output

Share of PPP GNI, 2004

East Asia & Pacific 18%

Latin America & Caribbean 7%

South Asia 7%

Europe & Central Asia 7%

Middle East & North Africa 3%

Sub-Saharan Africa 2%

When measured by purchasing power parities (PPPs), which take into account national differences in the cost of living, developing countries produce a large part of the world's output. Much of this is in the form of nontradable goods and services, which are undervalued at market exchange rates. For this reason PPPs are used in international comparisons of well-being such as \$1 and \$2 a day measures of absolute poverty.

Source: World Bank staff estimates.

Data sources

Population estimates are prepared by World Bank staff from a variety of sources (see *Data sources* for table 2.1). 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 World Bank staff during economic missions or reported by national statistical offices to other international organizations such as the OECD. Purchasing power parity conversion factors are estimates by World Bank staff based on data collected by the International Comparison Program.



Millennium Development Goals: eradicating poverty and improving lives

		dicate extr erty and hu		Achieve u			e gender ality	Reduce mort		Improve maternal health			
	poorest quintile in national consumption or income %	malnu Under % of c	ce of child itrition weight hildren	Primary co	e ^a	and second	s in primary lary school ^a	Under-five m			skilled he	tended by ealth staff	
	1992- 2004 ^{b,c}		age 5 2000–04 ^b	1991	2004	1991	6 2004	per 1,000 1990	live births 2004	live births 2000	% of 1989–94 ^b	total 2000-04 ^b	
East Asia & Pacific ^d		19 w	12 w	97 w	99 w	89 w	<i>98</i> w	59 w	37 w	117 w	w	86 w	
Cambodia	6.9		45		82	73	85	115	141	450		32	
China	4.7	17	8	103	99	87	98	49	31	56		96	
Hong Kong, China	5.3			102	111	107	104						
Indonesia	8.4		28	91	101	93	98	91	38	230	37	72	
Korea, Dem. Rep.			24		••			55	55	67		97	
Lao PDR	8.1	40	40	43	74	75	84	163	83	650		19	
Malaysia	4.4	22	11	90	95	101	105	22	12	41		97	
Mongolia	5.6	12	13		95	109	108	108	52	110		99	
Myanmar		31	32		72 55	96	99	130	106	360		57	
Papua New Guinea	4.5			50 86	55	80 100	87 102	101	93	300		41 60	
Philippines Thailand	5.4 6.3	30 19	28	86	98	100 95	102 98	62 37	34 21	200 44	53	60 99	
Vietnam	7.5	45	28	••	101		94	53	23	130		90	
Europe & Central Asia	1.0	W	W	92 w	94 w	97 w	94 96 w	49 w	34 w	58 w	w	90 94 w	
Albania	9.1	**	14	J2 W	99	96	97	45 W	19	55 W	w	98	
Armenia	8.5		3	90	107		103	60	32	55		97	
Azerbaijan	12.2		7		96	100	97	105	90	94		84	
Belarus	8.5			95	101		100	17	11	35		100	
Bosnia and Herzegovina	9.5		4			••		22	15	31	97	100	
Bulgaria	8.7			90	97	99	97	19	15	32		99	
Croatia	8.3	1		85	91	106	98	12	7	8		100	
Czech Republic	10.3	1			102	101	103	13	4	9		100	
Estonia	6.7			93	103	68	73	16	8	63		100	
Georgia	5.6				86	99	99	47	45	32			
Hungary	9.5			82	96	100	100	17	8	16		100	
Kazakhstan	7.4				110	102	98	63	73	210			
Kyrgyz Republic	8.9		7		93		101	80	68	110		99	
Latvia	6.6				98	100	99	18	12	42			
Lithuania	6.8			89	105		98	13	8	13		100	
Macedonia, FYR	6.1			98	97	99	99	38	14	23	••	99	
Moldova	7.8				83	105	102	40	28	36			
Poland	7.5			96	100	101	97	18	8	13		100	
Romania Russian Enderation	8.1 6.1	6 4	3 6	96 93	90	99 104	100 99	31 29	20 21	49 67	99	99 99	
Russian Federation	····•	•	2	93 71	 96	104	99 101				••	93	
Serbia and Montenegro Slovak Republic	8.8		•	96	96 101	•••••	101	28 14	15 9	11 3		99	
Tajikistan	7.9				92		88	119	93	100		71	
Turkey	5.3	10	4	90		81	85	82	32	70	76	83	
Turkmenistan	6.1		12					97	103	31		97	
Ukraine	9.2		1	92	91		99	26	18	35		100	
Uzbekistan	9.2		8		98	94	98	79	69	24		96	
Latin America & Carib.		w	w	86 w	97 w	w	102 w	54 w	31 w	194 w	77 w	87 w	
Argentina	3.2 ^e	2			102		103	29	18	82	96	99	
Bolivia	1.5	15	8	71	100		98	125	69	420	47	67	
Brazil	2.6	7		93	111		103	60	34	260	72	96	
Chile	3.3	1	1		97	100	99	21	8	31	100	100	
Colombia	2.5	10	7	71	94			36	21	130	82	86	
Costa Rica	3.9	2		74	92	65	68	18	13	43	98	98	
Cuba			4	96	93	98	101	13	7	33	100	100	
Dominican Republic	3.9	10	5	61	91		100	65	32	150	93	98	
Ecuador	3.3		12	91	101	81	94	57	26	130			
El Salvador	2.7	11	10	41	84		73	60	28	150	51	92	
Guatemala	2.9		23		70	46	72	82 150	45 117	240		41	
Haiti	2.4	27	17	27		108		150	117	680	23	24	
Honduras	3.4	18	17	65	79	103	95	59	41	110	45	56	

Millennium Development Goals: 12 eradicating poverty and improving lives

	pove	dicate extre erty and hur		l	universal education		te gender uality	Reduc mort		Improve maternal health			
	Share of poorest quintile in national consumption or income %	Prevalenc malnu Underv % of ch under	trition veight iildren	ra	ompletion te ^a %	enrollmen	emale to male ats in primary andary school ^a %	Under-five m		Maternal mortality ratio Modeled estimates per 100,000 live births	Births att skilled he % of	alth staff	
	2004 ^{b,c}		2000-04 ^b	1991	2004	1991	2004	1990	2004	2000	1989-94 ^b	2000-04 ^b	
Jamaica	6.7	5	4	90	84	102	101	20	20	87	79	97	
Mexico	4.3	17		86	97	98	102	46	28	83		95	
Nicaragua	5.6	11	10	41	73	109	103	68	38	230		67	
Panama	2.5	6		86	97		101	34	24	160	86	93	
Paraguay	2.2	4	5	65	89	99	98	41	24	170	67	77	
Peru	3.2	11	7		96	96	97	80	29	410		59	
Trinidad and Tobago	5.5		6	100	94	101	101	33	20	160		96	
Uruguay	5.0 ^e	4		95	94		105	25	17	27			
Venezuela, RB	4.7	5	4	81	89	105	103	27	19	96		94	
Middle East & N. Africa		W	W	78 w	88 w	81 w		81 w	55 w	183 w	42 w	72 w	
Algeria	7.0	9	10	79	94	83	99	69	40	140	77	96	
Egypt, Arab Rep.	8.6	10	9		93	102	98	104	36	84	41	69	
Iran, Islamic Rep.	5.1			91	95	85	100	72	38	76		90	
Iraq		12	16	59	74	78	78	50		250	54	72	
Jordan 	6.7	6	4	101	97	101	101	40	27	41	87	100	
Lebanon					94		102	37	31	150			
Libya							103	41	20	97			
Morocco	6.5	10 24	10	46 <i>74</i>	<i>67</i> 91	70 89	88 98	89 32	43	220 87	31	63 95	
Oman Syrian Arab Bonublio	••	12	7	89	107	85	94	32 44	13 16	160	 77		
Syrian Arab Republic Tunisia	6.0		4	74	94	86	102	52	25	120		90	
West Bank and Gaza	0.0	•••••••••••••••••••••••••••••••••••••••		•	98		103			120		97	
Yemen, Rep.	7.4	39	46		62		63	142	 111	570	 16	27	
South Asia	7	53 w	w	73 w	82 w	71 w		129 w	92 w	564 w	w	36 w	
Afghanistan			39	25		54	34	260		1,900		14	
Bangladesh	9.0	68	48	49	73		106	149	77	380	10	13	
India	8.9	53			84	70	88	123	85	540	34	43	
Nepal	6.0		48	51	71	59	90	145	76	740	7	15	
Pakistan	9.3	40	38				73	130	101	500	19	23	
Sri Lanka	8.3	38	30	94		102	102	32	14	92	94	96	
Sub-Saharan Africa		w	w	51 w	62 w	80 w	84 w	185 w	168 w	921 w	41 w	42 w	
Angola		20	31	35				260	260	1,700		45	
Benin	7.4		23	21	49	49	71	185	152	850		66	
Botswana	2.2	••	13	79	92	109	102	58	116	100		94	
Burkina Faso	6.9	33	38	21	29	62	76	210	192	1,000	42	38	
Burundi	5.1		45	46	33	82	82	190	190	1,000		25	
Cameroon	5.6	15	18	56	72	83	87	139	149	730	58	62	
Central African Republic	2.0		24	27		60		168	193	1,100		44	
Chad			37	18	29	41	58	203	200	1,100		14	
Congo, Dem. Rep.			31	46		85	87	205	205	990		61	
Congo, Rep.				54	66	101	101	110	108	510			
Côte d'Ivoire	5.2	24	17	43	43	102	101	157	194	690	45	68	
Eritrea Ethiopia	9.1	41 48	40 47	19 21	44 51	104 109	100 106	147 204	82 166	630 850	••	28 6	
Gabon	····•	•••••••••••••••••••••••••••••••••••••••	12	58	66	64	106 85	92	91	420	••	86	
Gambia, The	4.8	••	17	44	00	98	99	154	122	540	44	55	
Ghana	5.6	 27	22	63	65	99	101	122	112	540	44	47	
Guinea	6.4	27	33	17	48		65	240	155	740	31	56	
Guinea-Bissau	5.2		25		27	95		253	203	1,100		35	
Kenya	6.0	23	20		89	94	94	97	120	1,000	45	42	
Lesotho	1.5	21	18	58	71	124	104	104	112	550	50	60	
Liberia			27					235	235	760		51	
Madagascar	4.9	45	42	33	45	98		168	123	550	57	51	
Malawi	4.9	28	22	31	58	81	98	241	175	1,800	55	61	
Mali	4.6		33	11	44	59	74	250	219	1,200		41	
Mauritania	6.2	48	32	33	43	67	96	133	125	1,000	40	57	



12 Millennium Development Goals: eradicating poverty and improving lives

	poverty and hunger Share of			Achieve universal primary education Promote gender equality				e child tality	Improve maternal health			
	Share of poorest quintile in national consumption or income %	Under % of cl	trition weight	Primary co rat	tea	Ratio of fem enrollments and second	s in primary ary school ^a		nortality rate I live births	Maternal mortality ratio Modeled estimates per 100,000 live births	skilled h	tended by ealth staff total
	2004 ^{b,c}	1989-94 ^b	2000-04b	1991	2004	1991	2004	1990	2004	2000	1989-94 ^b	2000-04 ^b
Mauritius				102	100	102	103	23	15	24	97	99
Mozambique	6.5		24	26	29	72	82	235	152	1,000		48
Namibia	1.4	26	24	78	81	108	105	86	63	300	68	76
Niger	2.6	43	40	17	25	57	71	320	259	1,600,	15	16
Nigeria	5.0	39	29		76	79	84	230	197	800	31	35
Rwanda		29	24	47	37	96	100	173	203	1,400	26	31
Senegal	6.4	22	23	39	45	69	90	148	137	690	47	58
Sierra Leone		29	27			67	71	302	283	2,000		42
Somalia			26					225	225	1,100		25
South Africa	3.5			75	96	104	101	60	67	230		
Sudan		34	41	40	49	78	88	120	91	590	86	87
Swaziland	2.7		10	62	61	98	96	110	156	370	56	74
Tanzania	7.3	29		61	57	97		161	126	1,500	44	46
Togo				35	66	59	73	152	140	570		61
Uganda	5.9	23	23		57	82	97	160	138	880	38	39
Zambia	6.1	25	23		66		93	180	182	750	51	43
Zimbabwe	4.6	16		91	80	92	96	80	129	1,100	69	
High income		w	w	w	w	100 w	101 w	11 w	7 w	14 w	w	w
Australia	5.9				100	101	98	10	6	8	100	
Austria	8.6					95	96	10	5	4	100	
Belgium	8.5			79		101	106	10	5	10		
Canada	7.2					99	100	8	6	6		98
Denmark	8.3			98	103		105	9	5	5		
Finland	9.6			97	102	102	100	7	4	6	100	100
France	7.2			104				9	5	17	99	
Germany	8.5			100	97	79	91	9	5	8		
Greece	6.7			99			91	11	5	9		
Ireland	7.4				101	104	103	9	6	5	····	100
Israel	5.7				101	105	99	12	6	17		
Italy	6.5			104	103	100	99	9	5	5		
Japan	10.6			101		101	100	6	4	10	100	
Korea, Rep.	7.9			98	105	99	100	9	6	20	98	
Kuwait				57	91	97	104	16	12	5		
Netherlands	7.6				100	97	98	9	6	16	····	
New Zealand	6.4			100		100	107	11	7	7	95	
Norway	9.6			100	103	102	101	9	4	16	····	
Portugal 	5.8			95		103	102	14	5	5	98	100
Puerto Rico										25		
Saudi Arabia		15		56	62	84	92	44	27	23	···	
Singapore	5.0		3			95		8	3	30		
Slovenia	9.1			95	102		99	10	4	17	100	100
Spain	7.0					104	102	9	5	4		
Sweden	9.1			96		102	111	7	4	2	••	
Switzerland	7.6			53	96 75	97	96	9	5	7	••	
United Arab Emirates				95	75	104	102	14	8	54		
United Kingdom	6.1					98	116	10	6	13		••
United States	5.4	1	2			100	100	11 05 w	8 70 w	17	99	60
World		W	W	W	W	86 w	93 w	95 w	79 w	410 w	w	60 w
Low income		••	11	66	74 97	74	86 08	147 57	122	682		40
Middle income			11	92	97	91	98	57 61	37	142		87 86
Lower middle income		••	11	93	98	89	98	61	40	153		86
Upper middle income Low & middle income		••	••	88 81	96 86	98	98	42	28 86	92 450	••	95 60
LUW & IIIIUUIE INCOME				ΘŢ	86	84	92	103	80	450		60

a. Break in series between 1997 and 1998 due to change from International Standard Classification of Education (ISCED) 1976 to ISCED97. b. Data are for the most recent year available. c. See table 2.8 for survey year and whether share is based on income or consumption expenditure. d. Hong Kong, China, is classified as a high-income economy and is not included in the East Asia and Pacific aggregate. e. Urban data.





Millennium Development Goals: eradicating poverty and improving lives

About the data

This table and the following two present indicators for 17 of the 18 targets specified by the Millennium Development Goals. Each of the eight goals comprises one or more targets, and each target has associated with it several indicators for monitoring progress toward the target. 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 this table relate to 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 2.7. The indicator shown here, the share of the poorest quintile in national consumption, is a distributional measure. Countries with more unequal distributions of consumption (or income) will have a higher rate of poverty for a given average income. No single indicator 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 is measured by primary school completion rates. Before World Development Indicators 2003, progress was measured by net enrollment ratios. But official enrollments sometimes differ significantly from actual attendance, and even school systems with high average enrollment ratios may have poor completion rates. Estimates of primary school completion rates were calculated by World Bank staff using data provided by the United Nations Educational, Scientific, and Cultural Organization Institute of Statistics and national sources.

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

The targets for reducing under-five and maternal mortality are among the most challenging. 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 relatively rare.

Most of the 48 indicators relating to the Millennium Development Goals can be found in *World Development Indicators*. Table 1.2a shows where to find the

indicators for the first five goals. For more information about data collection methods and limitations, see *About the data* for the tables listed there. For information about the indicators for goals 6, 7, and 8, see *About the data* for tables 1.3 and 1.4.

Definitions

. Share of poorest quintile in national consumption or income is the share of consumption or, in some cases, income that accrues to the poorest 20 percent of the population. • Prevalence of child malnutrition is the percentage of children under age five whose weight for age is more than two standard deviations below 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. • Primary completion rate is the percentage of students completing the last year of primary school. It is calculated as the total number of students in the last grade of primary school, minus the number of repeaters in that grade, divided by the total number of children of official graduation age. • Ratio of female to male enrollments in primary and secondary school is the ratio of female to male gross enrollment rate in primary and secondary school. • Under-five mortality rate is the probability that a newborn baby will die before reaching age five, if subject to current agespecific mortality rates. The probability is expressed as a rate per 1,000. • Maternal mortality ratio is the number of women who die from pregnancy-related causes during pregnancy and childbirth, per 100,000 live births. The data shown here have been collected in various years and adjusted to a common 2000 base year. The values are modeled estimates (see About the data for table 2.16). • Births attended by skilled health staff are the percentage of deliveries attended by personnel trained to give the necessary supervision, care, and advice to women during pregnancy, labor, and the postpartum period; to conduct deliveries on their own; and to care for newborns.

Data sources

The indicators here and throughout this book have been compiled by World Bank staff from primary and secondary sources. Efforts have been made to harmonize these data series with those published on the United Nations Millennium Development Goals Web site (www.un.org/millenniumgoals), but some differences in timing, sources, and definitions remain.

1.7a

Goa	al 1. Eradicate extreme poverty and hunger	Table
1.	Proportion of population below \$1 a day	2.7
2.	Poverty gap ratio	2.7
3.	Share of poorest quintile in national consumption	1.2, 2.8
4.	Prevalence of underweight in children under age five	1.2, 2.17
5.	Proportion of population below minimum level of dietary energy consumption	2.17
Goa	al 2. Achieve universal primary education	
6.	Net enrollment ratio	2.11
7.	Proportion of pupils starting grade 1 who reach grade 5	2.12
8.	Literacy rate of 15- to 24-year-olds	2.13
Goa	al 3. Promote gender equality and empower women	
9.	Ratio of girls to boys in primary, secondary, and tertiary education	1.2
10.	Ratio of literate females to males among 15- to 24-year-olds	2.13
11.	Share of women in wage employment in the nonagricultural sector	1.5, 2.2
12.	Proportion of seats held by women in national parliament	1.5
Goa	al 4. Reduce child mortality	
13.	Under-five mortality rate	1.2, 2.19
14.	Infant mortality rate	2.19
15.	Proportion of one-year-old children immunized against measles	2.15
Goa	al 4. Improve maternal health	
16.	Maternal mortality ratio	1.2, 2.16
17.	Proportion of births attended by skilled health personnel	1.2, 2.16





Millennium Development Goals: protecting our common environment

	Combat I and other				Ensure env sustain				Develop a global partnership for development		
	HIV prevalence % of population ages 15–49 2003		Carbon dioxic per co metric 1990	apita	Access to a water s % of pop 1990	source	Access to sanitatior % of pop 1990	facilities	Youth unemployment % ages 15–24 2004	Fixed-line and mobile phone subscribers per 1,000 people ^a 2004	
East Asia & Pacific ^b	0.2 w	138 w	1.9 w	2.4 w	71 w	78 w	30 w	49 w	w	435 w	
Cambodia	2.6	510	0.0	0.0		34		16		40	
China	0.1	101	2.1	2.7	70	77	23	44	••	499	
Hong Kong, China	0.1	75	4.6	5.2	••				15	1,733	
Indonesia	0.1	245	0.9	1.4	71	78	46	52		184	
Korea, Dem. Rep.		178	12.4	6.5	100	100		59		41	
Lao PDR	0.1	156	0.1	0.2		43		24		48	
Malaysia	0.4	103	3.1	6.3		95	96			766	
Mongolia	<0.1	192	4.7	3.4	62	62		59	20	184	
Myanmar	1.2	171	0.1	0.2	48	80	21	73		10	
Papua New Guinea	0.6	233	0.6	0.4	39	39	45	45		14	
Philippines	<0.1	293	0.7	0.9	87	85	54	73	26	446	
Thailand	1.5	142	1.8	3.7	81	85	80	99	5	537	
Vietnam	0.4	176	0.3	0.8	72	73	22	41	5	184	
Europe & Central Asia	0.7 w	83 w	10.2 w	6.7 w	W	91 w	86 w	82 w	W	536 w	
Albania		22	2.2	0.8	97	97	····	89	36	438	
Armenia	0.1	78 75	1.1	1.0		92		84	••	260	
Azerbaijan	<0.1	75 60	6.4 9.3	3.4 6.0	66 100	77 100	······································	55		333 <i>424</i>	
Belarus	<0.1	53	9.3 1.2	4.7	98	98		93	••	507	
Bosnia and Herzegovina Bulgaria	0.1	36	8.6	5.3	100	100	100	100	28	966	
Croatia	<0.1	41	3.8	4.7	•			•	37	996	
Czech Republic	0.1	11	13.1	11.2		••	••		20	1,392	
Estonia	1.1	46	16.2	11.7					21	1,260	
Georgia	0.1	82	2.8	0.7		76		83	25	337	
Hungary	0.1	26	5.8	5.6	99	99		95	16	1,217	
Kazakhstan	0.2	151	15.4	9.9	86	86	72	72	15	351	
Kyrgyz Republic	0.1	122	2.4	1.0		76		60	20	106	
Latvia	0.6	68	4.8	2.7					19	937	
Lithuania	0.1	63	5.8	3.6					25	1,235	
Macedonia, FYR	<0.1	30	5.5	5.1					66	642	
Moldova	0.2	138	4.8	1.6		92	••	68	15	391	
Poland	0.1	29	9.1	7.7					41	777	
Romania	<0.1	146	6.7	4.0		57		51	19	673	
Russian Federation	1.1	115	13.3	9.8	94	96	87	87		508	
Serbia and Montenegro	0.2	33		3.7	93	93	87	87		910	
Slovak Republic	<0.1	19	8.1	6.8	100	100	100	100	33	1,027	
Tajikistan	<0.1	177	3.7	0.7		58		53		46	
Turkey		28	2.6	3.0	81	93	84	83	20	751	
Turkmenistan	<0.1	65	7.2	9.1		71		62		82	
Ukraine	1.4	101	11.5	6.4		98	99	99	17	545	
Uzbekistan	0.1	117	5.3	4.8	89	89	58	57		79	
Latin America & Carib.	0.7 w	64 w	2.4 w	2.4 w	82 w	89 w	68 w	75 w	14 w	499 w	
Argentina	0.7	43	3.4	3.5	94		82		34	579	
Bolivia	0.1	217	0.8	1.2	72	85	33	45 75		269	
Brazil	0.7	60 16	1.4	1.8	83	89	70 85	75 92	18	587 700	
Colombia	0.3	16 50	2.7	3.6	90	95	85 82	92 86	19	799 427	
Costa Rica	0.7 0.6	50 14	1.6 0.9	1.3 1.4	92	92 97	82	86 92	 15	427 533	
Costa Rica Cuba	0.6	14 10	3.0	2.1		91	98	92 98	***************************************	533 75	
Dominican Republic	1.0 ^c	91	1.3	2.5	 86	93	48	96 57		396	
Ecuador	0.3	131	1.6	2.0	69	93 86	56	72	22	472	
El Salvador	0.7	54	0.5	1.0	67	82	51	63	11	402	
Guatemala	1.1	77	0.6	0.9	77	95	50	61		350	
Haiti	5.6	306	0.1	0.2	53	71	15	34		64	
Honduras	1.8	77	0.5	0.9	83	90	49	68	8	153	
	.									. .	

Millennium Development Goals: protecting our common environment

	Combat F and other					Develop a global partnership for development				
	HIV prevalence % of population ages 15–49 2003		Carbon dioxic per ca metric 1990	apita	Access to a water s % of pop 1990	source	Access to sanitation % of pop 1990	facilities	Youth unemployment % ages 15–24 2004	Fixed-line and mobile phone subscribers per 1,000 people ^a 2004
Jamaica	1.2	7	3.3	4.1	92	93	75	80	26	1,021
Mexico	0.3	32	4.5	3.8	80	91	66	77	6	545
Nicaragua	0.2	63	0.7	0.7	69	81	47	66	13	177
Panama	0.9	45	1.3	2.0		91		72	29	388
Paraguay	0.5	71	0.5	0.7	62 74	83	58 52	78 62	14	349
Peru Trinidad and Tobago	0.5 3.2	178 9	1.0 13.9	1.0 31.8	74 92	81 91	52 100	62 100	19 21	223 745
Uruguay	0.3	28	1.3	1.2		98		94	38	465
Venezuela, RB	0.7	42	5.9	4.3		83	•••••	68	28	450
Middle East & N. Africa		54 w	2.5 w	3.2 w	87 w	88 w	69 w	75 w	w	219 w
Algeria	0.1	54	3.0	2.9	95	87	88	92		215
Egypt, Arab Rep.	<0.1	27	1.4	2.1	94	98	54	68	28	235
Iran, Islamic Rep.	0.1	27	4.0	5.5	91	93	83	84		270
Iraq	<0.1	132	2.6	••	83	81	81	80		57
Jordan	<0.1	5	3.2	3.2	98	91		93		407
Lebanon	0.1	11	3.3	4.7	100	100		98	····	429
Libya	0.3	20	8.7	9.1	71	72	97	97		156
Morocco	0.1	110	1.0	1.5	75	80	57	61	17	357
Oman	0.1	11	6.0	12.1	77	79	83	89		413
Syrian Arab Republic	<0.1	41	2.8	2.8	79 	79	76	77	26	269
Tunisia	<0.1	22	1.6	2.3	77	82	75	80		480
West Bank and Gaza		23				94		76	43	380
Yemen, Rep.	0.1	89	0.8	0.7	69	69	21	30 35 w		92
South Asia	0.8 w	177 w 333	0.7 w 0.2	1.0 w	70 w	84 w 13	16 w	35 w 8	W	76 w 23
Afghanistan Bangladesh	••	229	0.2	0.3	71	75	23	48		23 37
India	0.9	168	0.1	1.2	68	75 86	12	30		85
Nepal	0.5	184	0.0	0.2	69	84	12	27		22
Pakistan	0.1	181	0.6	0.7	83	90	38	54	13	63
Sri Lanka	<0.1	60	0.2	0.5	68	78	70	91	27	165
Sub-Saharan Africa	7.2 w	363 w	0.8 w	0.7 w	49 w	58 w	32 w	36 w	w	65 w
Angola	3.9	259	0.4	0.5	32	50	30	30		29
Benin	1.9	87	0.1	0.3	60	68	11	32		38
Botswana	37.3	670	1.5	2.3	93	95	38	41	40	396
Burkina Faso	1.8 ^d	191	0.1	0.1	39	51	13	12		37
Burundi	6.0	343	0.0	0.0	69	79	44	36		12
Cameroon	5.5 ^e	179	0.1	0.2	50	63	21	48		74
Central African Republic	13.5	322	0.1	0.1	48	75	23	27		18
Chad	4.8	279	0.0	0.0	20	34	6	8		14
Congo, Dem. Rep.	4.2	366	0.1	0.0	43	46	18	29		11
Congo, Rep.	4.9	377	0.5	0.6		46		9		102
Côte d'Ivoire	7.0	393	0.4	0.4	69	84	31	40	••	86
Eritrea Ethiopia	2.7 4.4	271 353	0.0 0.1	0.2 0.1	40 25	57 22	8 4	9	••	14 8
Ethiopia Gabon	8.1	280	6.3	2.6		22 87	•	36	••	388
Gambia, The	1.2	233	0.3	0.2		82		53		99
Ghana	2.2 ^d	206	0.2	0.2	 54	79	43	58		93
Guinea	3.2	240	0.2	0.1	42	51	17	13		15
Guinea-Bissau		199	0.2	0.2		59		34		8
Kenya	6.7 ^d	619	0.2	0.2	 45	62	42	48		85
Lesotho	28.9	696				76	37	37		109
Liberia	5.9	310	0.2	0.1	56	62	38	26	••	3
Madagascar	1.7	218	0.1	0.1	40	45	12	33		19
Malawi	14.2	413	0.1	0.1	41	67	36	46		25
Mali	1.9	281	0.0	0.0	34	48	36	45		36
Mauritania	0.6	287	1.3	1.1	41	56	28	42		135



Millennium Development Goals: protecting our common environment

	Combat I and other					Develop a global partnership for development				
	HIV prevalence % of population ages 15–49 2003		Carbon dioxid per c metric	apita	water	an improved source pulation 2002	Access to sanitation % of pol 1990	facilities	Youth unemployment % ages 15-24 2004	Fixed-line and mobile phone subscribers per 1,000 people ^a 2004
Mauritius		64	1.4	2.6	100	100	99	99		700
Mozambique	12.2	460	0.1	0.1		42		27		27
Namibia	21.3	717	0.0	1.1	58	80	24	30	45	206
Niger	1.2	157	0.1	0.1	40	46	7	12		13
Nigeria	5.4	290	0.5	0.4	49	60	39	38		79
Rwanda	5.1	371	0.1	0.1	58	73	37	41		18
Senegal	0.8	245	0.4	0.4	66	72	35	52		72
Sierra Leone	·-	443	0.1	0.1	••	57		39		19
Somalia		411	0.0		••	29		25		88
South Africa	15.6 ^c	718	8.1	7.6	83	87	63	67	60	473
Sudan	2.3	220	0.2	0.3	64	69	33	34		58
Swaziland	38.8	1,226	0.6	0.9	••	52		52		119
Tanzania	7.0 ^e	347	0.1	0.1	38	73	47	46		32
Togo	4.1	355	0.2	0.3	49	51	37	34		48
Uganda	4.1	402	0.0	0.1	44	56	43	41		44
Zambia	15.6 ^f	680	0.3	0.2	50	55	41	45		29
Zimbabwe	24.6	674	1.6	1.0	77	83	49	57	25	55
High income	0.4 w	17 w	11.8 w	12.8 w	W	99 w	w	W	13 w	1,306 w
Australia	0.1	6	16.0	18.1	100	100	100	100	12	1,359
Austria	0.3	14	7.5	7.9	100	100	100	100	10	1,438
Belgium	0.2	13	10.1	8.9	••		····		18	1,333
Canada -	0.3	5	15.0	16.5	100	100	100	100	13	1,053
Denmark	0.2	8	9.7	8.8	100	100			8	1,599
Finland	0.1	9	10.3	12.0	100	100	100	100	21	1,407
France	0.4	12	6.4	6.2					23	1,299
Germany	0.1	8	12.3	10.3	100	100		••	12	1,525
Greece	0.2	19	7.1	8.5	••				27	1,465
Ireland	0.1	11	8.7	11.0					8	1,425
Israel	0.1	9	7.1	10.6	100	100	••		22	1,499
Italy	0.5	7	6.9	7.5					24	1,541
Japan Karas Ban	<0.1	30	8.7 F.C	9.4	100	100 92	100	100	10	1,176
Korea, Rep. Kuwait	<0.1	90 26	5.6 21.3	9.4 25.6	••	92			10	1,303 1,015
Netherlands	0.2	20 8	9.3	9.3	100	100	100	100	8	1,393
New Zealand		11	9.3 6.8	9.3 8.6		100	•	•	·····•	1,189
Norway	0.1	5	11.1	13.9	97 100	100	••		9 12	1,169
Portugal	0.4	42	4.3	6.0		***************************************			15	1,384
Puerto Rico		5	3.3	3.5	••	••	••	••	24	974
Saudi Arabia	••	40	11.0	15.0	90	••				537
Singapore	0.2	40	14.8	13.7					8	1,350
Slovenia	<0.1	15	6.2	7.7	••	••	••		15	1,278
Spain	0.7	25	5.5	7.4					22	1,321
Sweden	0.1	4	5.8	5.8	100	100	100	100	17	1,750
Switzerland	0.4	7	6.4	5.6	100	100	100	100	8	1,560
United Arab Emirates		17	34.2	25.0			100	100		1,128
United Kingdom	0.2	12	9.9	9.2		***************************************		• • • • • • • • • • • • • • • • • • • •	11	1,584
United States	0.6	5	19.3	20.2	100	100	100	100	12	1,223
World	1.1 w	139 w	4.0 w	3.9 w	75 w	82 w	43 w	54 w		476 w
Low income	2.1	224	0.8	0.8	64	75	20	36		76
Middle income	0.7	114	3.5	3.3	77	83	48	61		486
Lower middle income	0.3	114	2.4	2.6	75	81	42	57		438
Upper middle income	2.6	112	8.1	6.2	88	93	80	81		564
Low & middle income	1.2	162	2.4	2.2	71	79	37	50	••	312
High income	0.4	17	11.8	12.8		99		•	13	1,306

a. Data are from the International Telecommunication Union's (ITU) World Telecommunication Development Report database. Please cite the ITU for third-party use of these data.

b. Hong Kong, China, is classified as a high-income economy and is not included in the East Asia and Pacific aggregate. c. Survey data, 2002. d. Survey data, 2003. e. Survey data, 2004. f. Survey data, 2001/02.



Millennium Development Goals: protecting our common environment

About the data

The Millennium Development Goals address issues of common concern to all nations. Diseases and environmental degradation do not respect national boundaries. Epidemic diseases, wherever they persist, pose a threat to people everywhere. And damage to the environment in one location may affect the well-being of plants, animals, and humans far away.

The indicators in the table relate to 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 for monitoring diseases. 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 contraction of the virus and the appearance of 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 the Joint United Nations Programme on HIV/AIDS and the Roll Back Malaria campaign to gather information and coordinate global efforts to treat victims and prevent the spread of disease.

The models and data used to estimate HIV prevalence depend on the nature of the epidemic in each country. In early stages infections are usually concentrated in high risk groups for which data are collected from sentinel sites or through targeted surveys. In older, generalized epidemics antenatal clinics are a key site for monitoring HIV and other sexually transmitted diseases. Recently, household surveys have been used to track the disease. The table shows the estimated prevalence among adults ages 15–49. Prevalence rates in the older population can be affected by life-prolonging treatment. 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 excreta 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 facilities 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 generally unavailable for most low- and middle-income economies. Fixed telephone lines and mobile phones are

among the telecommunications technologies that are changing the way the global economy works. For more information on goal 8, see table 1.4.

Definitions

• HIV prevalence is the percentage of people ages 15–49 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 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, 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 1 kilometer of the dwelling. • Access to improved sanitation facilities refers to the percentage of the population with access to 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. • Youth unemployment refers to the share of the labor force ages 15-24 without work but available for and seeking employment. Definitions of labor force and unemployment differ by country. • Fixed-line and mobile phone subscribers are telephone mainlines connecting a customer's equipment to the public switched telephone network, and users of portable telephones subscribing to an automatic public mobile telephone service using cellular technology that provides access to the public switched telephone network.

Location of indicators for Millennium Development Goals 6–7 Goal 6. Combat HIV/AIDS, malaria, and other diseases

Goal (6. Combat HIV/AIDS, malaria, and other diseases	Table
18.	HIV prevalence among pregnant women ages 15–24	1.3*, 2.18*
19.	Condom use rate of the contraceptive prevalence rate	_
19a.	Condom use at last high-risk sex	_
19b.	Percentage of 15- to 24-year-olds with comprehensive correct knowledge of HIV/AIDS	_
19c.	Contraceptive prevalence rate	2.16
20.	Ratio of school attendance of orphans to school attendance of nonorphans ages 10–14	_
21.	Prevalence and death rates associated with malaria	_
22.	Proportion of population in malaria-risk areas using effective malaria prevention and treatment measures	2.15*
23.	Prevalence and death rates associated with tuberculosis	1.3*, 2.18*
24.	Proportion of tuberculosis cases detected and cured under DOTS	2.15
Goal	7. Ensure environmental sustainability	
25.	Proportion of land area covered by forest	3.4
26.	Ratio of area protected to maintain biological diversity to surface area	3.4
27.	Energy use (kilograms of oil equivalent) per \$1 of GDP (PPP)	3.8
28.	Carbon dioxide emissions per capita and consumption of ozone-depleting chloro- fluorocarbons	3.8*
29.	Proportion of population using solid fuels	3.7*
30.	Proportion of population with sustainable access to an improved water source,	
	urban and rural	2.15, 3.5
31.	Proportion of population with access to improved sanitation, urban and rural	2.15, 3.10
32.	Proportion of population with access to secure tenure	3.11
— No da	ata are available in the World Development Indicators database. * Table shows information on relat	ed indicators.

Data sources

The indicators here and throughout this book have been compiled by World Bank staff from primary and secondary sources. Efforts have been made to harmonize these data series with those published on the United Nations Millennium Development Goals Web site (www.un.org/millenniumgoals), but some differences in timing, sources, and definitions remain.



Millennium Development Goals: overcoming obstacles

	assist	development ances (ODA) y donor				developed o to high-inco					Support to agriculture
	Net % of donor	For basic social services ^a % of total sector-allocable	(excluding admitted fr	ods ng arms) ee of tariffs	Agricultura	al products	Tex	ped countries	Clo	thing	
	GNI 2004	ODA 2003-04	1997	% 2004	1997	6 2004	1997	% 2004	1997	% 2004	% of GDP 2004 ^b
Australia	0.25	15.8	96.6	97.3	0.2	0.4	10.0	0.9	28.3	0.0	0.3
Canada	0.27	29.0	65.9	98.6	0.5	0.2	11.4	0.3	21.8	1.4	0.7
European Union	0		97.3	95.9	3.4	2.8	0.0	0.2	0.0	1.0	1.2
Austria	0.23	12.6									
Belgium	0.41	14.7									
Denmark	0.85	23.6		•		•	•	•		••••••	
Finland	0.35	15.3		•			***************************************	•	•	•	
France	0.41	10.0						•		•	
Germany	0.28	12.7		•			•	•	•	•	
Greece	0.23	20.6					•	•	•		
Ireland	0.39	28.9					•	•		•	
Italy	0.15	18.4									
Luxembourg	0.83	20.7					•	•			
Netherlands	0.73	18.1		•			***************************************	•		•	
Portugal	0.63	2.8									
Spain	0.24	13.8					•	•			
Sweden	0.78	16.0					***************************************				
United Kingdom	0.36	31.8									
Japan	0.19	5.4	67.9	37.9	7.4	6.6	3.9	1.7	0.5	0.1	1.3
New Zealand	0.23	19.1									0.4
Norway	0.87	18.0									1.3
Switzerland	0.41	8.4	72.8	99.4	7.2	6.7	0.0	0.0	0.0	0.0	1.7
United States	0.17	19.1	22.5	67.0	4.9	3.5	6.9	5.7	14.6	12.3	0.9

Heavily indebted poor	r countries (HIPC	s)					
	HIPC decision point ^c	HIPC completion point ^d	Estimated total nominal debt service relief ^e		HIPC decision point ^c	HIPC completion point ^d	Estimated total nominal debt service relief ^e
			\$ millions				\$ millions
Benin	Jul. 2000	Mar. 2003	460	Madagascar	Dec. 2000	Oct. 2004	1,900
Bolivia	Feb. 2000	Jun. 2001	2,060	Malawi	Dec. 2000	Floating	1,000
Burkina Faso	Jul. 2000	Apr. 2002	930	Mali	Sep. 2000	Mar. 2003	895
Cameroon	Aug. 2005	Floating	1,472	Mauritania	Feb. 2000	Jun. 2002	1,100
Burundi	Oct. 2000	Floating	2,800	Mozambique	Apr. 2000	Sep. 2001	4,300
Chad	May 2001	Floating	260	Nicaragua	Dec. 2000	Jan. 2004	4,500
Congo, Dem. Republic	Jul. 2003	Floating	10,389	Niger	Dec. 2000	Apr. 2004	1,190
Côte d'Ivoire	Mar. 1998		800	Rwanda	Dec. 2000	Apr. 2005	1,400
Ethiopia	Nov. 2001	Apr. 2004	3,275	São Tomé & Principe	Dec. 2000	Floating	200
Gambia, The	Dec. 2000	Floating	90	Senegal	Jun. 2000	Apr. 2004	850
Ghana	Feb. 2002	Jul. 2004	3,500	Sierra Leone	Mar. 2002	Floating	950
Guinea	Dec. 2000	Floating	800	Tanzania	Apr. 2000	Nov. 2001	3,000
Guinea-Bissau	Dec. 2000	Floating	790	Uganda	Feb. 2000	May 2000	1,950
Guyana	Nov. 2000	Dec. 2003	1,353	Zambia	Dec. 2000	Apr. 2005	3,900
Honduras	Jul. 2000	Apr. 2005	1,053				•

a. Includes basic health, education, nutrition, and water and sanitation services. b. Preliminary. c. Except for Côte d'Ivoire the date refers to the Enhanced Heavily Indebted Poor Countries (HIPC) Initiative. The following countries also reached their decision point under the original HIPC framework: Bolivia in September 1997, Burkina Faso in September 1997, Côte d'Ivoire in March 1998, Guyana in December 1997, Mali in September 1998, Mozambique in April 1998, and Uganda in April 1997. d. The date refers to the Enhanced HIPC Initiative. The following countries also reached completion points under the original framework: Bolivia in September 1998, Burkina Faso in July 2000, Guyana in May 1999, Mali in September 2000, Mozambique in July 1999, and Uganda in April 1998. e. Includes estimated total nominal debt service relief under original and enhanced HIPC, as well as a topping up of HIPC debt relief at completion point for Burkina Faso, Ethiopia, and Niger.

Achieving the Millennium Development Goals will require an open, rule-based global economy in which all countries, rich and poor, participate. Many poor countries, lacking the resources to finance their development, burdened by unsustainable levels of debt, and unable to compete in the global marketplace, need assistance from rich countries. For goal 8—develop a global partnership for development—many of the indicators therefore 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 risen in recent years as a share of donor countries' gross national income (GNI), but the poorest countries will need additional assistance to achieve the Millennium Development Goals. Official aid rose to a record high of \$79 billion in 2004, and donor countries have pledged to increase ODA by \$20 billion by 2006 and to a total of more than \$100 billion by 2010. However, this would still fall short of levels considered necessary to achieve the Millennium Development Goals.

One of the most important actions that high-income economies can take to help is to reduce barriers to the exports of low- and middle-income economies. The European Union has launched a program to eliminate tariffs on developing country exports of "everything but arms," and the United States offers special concessions to exports from Sub-Saharan Africa. However, there are still many restrictions built into these programs.

The average tariffs in the table reflect the tariff schedules applied by high-income OECD members

to exports of countries designated least developed countries by the United Nations. Agricultural commodities, textiles, and clothing are three 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 6.7 for estimates of the share of tariff lines with "international peaks" in each country's tariff schedule). The averages in the table include ad valorem duties and ad valorem equivalents of non-ad valorem duties. 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 agriculture as a share of the economy's gross domestic product (GDP). Agricultural subsidies in OECD economies are estimated at \$378 billion in 2004.

The Debt Initiative for Heavily Indebted Poor Countries (HIPCs) 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. A major review in 1999 led to an enhancement of the original framework. Through the HIPC Initiative nominal debt service relief of more than \$56 billion has been approved for 28 countries, reducing the net present value of their external debt by approximately two-thirds. Of these countries, 19 have reached the completion point and have been granted unconditional debt service relief of more than \$37 billion.

Definitions

• Net official development assistance (ODA) comprises grants and loans (net of repayments of principal) that meet the DAC definition of ODA and are made to countries and territories on part I of the DAC list of recipient countries. • ODA 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 refer to the value of exports of goods (excluding arms) from least developed countries admitted without tariff, as a share of total exports from least developed countries. • Average tariff is the simple mean tariff, the unweighted average of the effectively applied rates for all products subject to tariffs. Agricultural products comprise plant and animal products, including tree crops but excluding timber and fish products. • Textiles and clothing include natural and synthetic fibers and fabrics and articles of clothing made from them. • Support to agriculture is the annual monetary value of all gross transfers from taxpayers and consumers arising from policy measures that support agriculture, net of the associated budgetary receipts, regardless of their objectives and impacts on farm production and income, or consumption of farm products. • 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 on at the decision point, including developing and implementing its poverty reduction strategy. The country then receives the bulk of debt relief under the HIPC Initiative without further policy conditions. • Estimated total nominal debt service relief is the amount of debt service relief, calculated at the decision point, that will allow the country to

1.4a

Goal	8. Develop a global partnership for development	Table
33.	Net ODA as a percentage of DAC donors' gross national income	6.9
34.	Proportion of ODA for basic social services	1.4
35.	Proportion of ODA that is untied	6.9
36.	Proportion of ODA received in landlocked countries as a percentage of GNI	_
37.	Proportion of ODA received in small island developing states as a percentage of GNI	_
38.	Proportion of total developed country imports (by value, excluding arms) from developing countries admitted free of duty	1.4
39.	Average tariffs imposed by developed countries on agricultural products and textiles and clothing from developing countries	1.4, 6.7
40.	Agricultural support estimate for OECD countries as a percentage of GDP	1.4
41.	Proportion of ODA provided to help build trade capacity	_
42.	Number of countries reaching HIPC decision and completion points	1.4
43.	Debt relief committed under new HIPC initiative	1.4
44.	Debt services as a percentage of exports of goods and services	4.17
45.	Unemployment rate of 15- to 24-year-olds	1.3, 2.9
46.	Proportion of population with access to affordable, essential drugs on a sustainable basis	_
47.	Telephone lines and cellular subscribers per 100 people	1.3, 5.10
48a.	Personal computers in use per 100 people	5.11
48b.	Internet users per 100 people	5.11

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. The World Trade Organization, in collaboration with the UN Conference on Trade and Development and the International Trade Centre, provided the estimates of goods admitted free of tariffs and average tariffs. Subsidies to agriculture are compiled by the OECD. Data on the HIPC Initiative are from the August 2005 "HIPC Status Report."

achieve debt sustainability at the completion point.





1.5 Women in development

	Female population	expe	ife etancy oirth	Pregnant women receiving prenatal care	Teenage mothers	Women in nonagricultural sector		l family kers		nen in aments
	% of total 2004	ye Male 2004	ars Female 2004	% 2000-04 ^a	% of women ages 15–19 1995–2004 ^a	% of total 2003	Male % of male employment 2000-04 ^a	Female % of female employment 2000-04 ^a	% of to 1990	otal seats 2006
East Asia & Pacific ^b	49.1 w	68 w	72 w			39.7 w	w	w	19 w	17 w
Cambodia	51.7	53	60	38	8	52.6	31.6	53.3		10
China	48.6	70	73	89		39.5			21	20
Hong Kong, China	52.7	79	85			46.9	0.2	1.4		••
Indonesia	50.1	66	69	92	10	30.8			12	11
Korea, Dem. Rep.	50.0	61	67						21	20
Lao PDR	50.0	54	57	27	···				6	23
Malaysia	49.2	71	76	74		38.0	2.2	9.6	5	9
Mongolia	49.9	62	68	94		49.4	18.4	31.7	25	7
Myanmar	50.3	58	64	76						
Papua New Guinea	48.4	55	57			35.4			0	1
Philippines	49.7	69	73	88	8	41.1			9	16
Thailand	50.8	67	74	92		46.9	16.0	35.2	3	11
Vietnam	50.1	68	73	86	3	51.8	21.9	50.3	18	27
Europe & Central Asia	52.1 w	64 w	73 w			47.3 w	2.9 w	7.3 w	w	13 w
Albania	50.4	71	77	91		40.3			29	7
Armenia	53.3	68	75	92	6	47.0	1.1	0.8	36	5
Azerbaijan	51.4	70	75	66		48.5				12
Belarus	53.2	63	74			55.9				29
Bosnia and Herzegovina	51.4	72	77	99						17
Bulgaria	51.5	69	76			52.2	1.3	2.6	21	22
Croatia	51.9	72	79			46.3	1.8	6.3		22
Czech Republic	51.3	73	79			45.8	0.3	1.2		17
Estonia	54.0	66	77			51.5	0.3	0.4		19
Georgia	52.7	67	74			45.2	19.9	38.8		9
Hungary	52.4	69	77			47.1	0.4	0.7	21	9
Kazakhstan	52.0	60	71		7	48.7	0.8	1.2		10
Kyrgyz Republic	50.8	64	72		9	44.0	6.5	15.9		0
Latvia	54.2	66	78			53.4	3.5	3.9		21
Lithuania	53.3	66	78			50.0	2.8	4.3	••	22
Macedonia, FYR	50.1	71	76	81		42.2	7.0	18.1		19
Moldova	52.2	65	72			54.6	1.3	3.4		22
Poland	51.5	70	79			47.7	4.0	7.2	14	20
Romania	51.2	68	75			45.3	7.8	23.4	34	11
Russian Federation	53.6	59	72			50.1	0.1	0.1		10
Serbia and Montenegro	50.3	71	76			44.9		••		8
Slovak Republic	51.5	70	78			52.1				17
Tajikistan	50.3	61	67	71		52.3				18
Turkey	49.6	69	71	81	10	20.6	8.2	49.0	1	4
Turkmenistan	50.7	59	67	98	4				26	16
Ukraine	54.1	63	74			53.6	1.1	2.0		5
Uzbekistan	50.3	64	70	97	10	41.5				18
Latin America & Carib.	50.6 w	69 w	75 w			43.7 w	w	w	8 w	20 w
Argentina	51.1	71	78	98		47.6	0.8	1.6	6	35
Bolivia	50.2	62	67	79	16	36.5	5.2	11.1	9	17
Brazil	50.7	67	75		18	46.9			5	9
Chile	50.5	75	81			37.3	1.4	3.3		15
Colombia	50.6	70	76	91	19	48.8	4.3	8.5	5	12
Costa Rica	49.2	76	81			39.5	2.1	3.6	11	35
Cuba	50.0	75	79	100		37.7			34	36
Dominican Republic	49.5	64	71	99	23	34.9			8	17
Ecuador	49.8	72	78			41.1	3.0	8.6	5	16
El Salvador	50.9	68	74	86		31.1	8.5	9.0	12	11
Guatemala	51.2	64	71	84	22	38.7	21.3	24.5	7	8
Haiti	50.8	51	53	79	18					4
Honduras	49.6	66	70	83		50.5	12.9	11.0	10	23
	·····	•	•••••			•	•••••			··· ·

Women in development 1.5

	Female population	Li expec at b	tancy	Pregnant women receiving prenatal care	Teenage mothers	Women in nonagricultural sector		l family kers		en in ments
	% of total 2004	yea Male 2004	ars Female 2004	% 2000–04 ^a	% of women ages 15–19	% of total 2003	Male % of male employment 2000-04 ^a	Female % of female employment 2000-04 ^a	% of tot 1990	al seats 2006
Jamaica	50.6	69	73			48.0	0.7	2.0	5	12
∕lexico	51.1	73	78			37.4	5.5	11.3	12	24
licaragua	50.0	68	73	86	25				15	21
anama	49.5	73	78			44.0	3.1	4.0	8	17
Paraguay	49.6	69	74	94		42.0			6	10
Peru	49.7	68	73	84	13	37.2	2.0	6.2	6	18
rinidad and Tobago	50.6	67	73	92		41.3	0.5	1.9	17	19
Jruguay	51.5	72	79			46.3	0.9	2.0	6	11
/enezuela, RB	49.7	71	77	94		41.5	1.8	3.3	10	17
Middle East & N. Africa	49.5 w	68 w	71 w			W	w	w	4 w	8
Algeria	49.6	70	73	81		15.5			2	6
gypt, Arab Rep.	49.8	68	72	69	9	21.6	8.4	19.5	4	2
ran, Islamic Rep.	49.3	69	72						2	4
raq				77					11	26
ordan	48.0	70	73	99	4	24.9			0	6
.ebanon	51.0	70	75						0	5
ibya	48.4	72	77							5
Morocco	50.3	68	72	68	7	26.2	21.6	52.5	0	11
)man	43.4	73	76	100		25.6				2
Syrian Arab Republic	49.7	72	75	71		18.2			9	12
unisia	49.6	71	75	92		25.3			4	23
Vest Bank and Gaza	49.1	71	75				7.0	32.5		
/emen, Rep.	49.3	60	63	41	16	6.1			4	00
South Asia	48.7 w	63 w	64 w			18.1 w	w	w	6 w	14
Afghanistan				16					4	
Bangladesh	48.9	63	64	49	33 ^d	24.2	10.1	73.2	10	15
ndia	48.7	63	64		21	17.5			5	8
lepal	50.4	62	63	28	21				6	0
Pakistan	48.5	64	66	43		8.7	16.4	46.9	10	21
Sri Lanka	49.2	72	77	95		43.2	4.2	20.9	5	5
Sub-Saharan Africa	50.1 w	46 w	47 w			w	w	w	w	16
ıngola	50.7	40	43	66					15	15
Benin	49.7	54	55	81	22				3	7
Botswana	50.9	36	35	97		47.0	1.4	1.2	5	11
Burkina Faso	49.8	47	49	73	23	15.2				12
Burundi	51.3	43	45	78						31
Cameroon	50.3	45	47	83	28		9.5	27.2	14	9
Central African Republic	51.3	39	40	62	36				4	11
Chad	50.5	43	45	42	39					7
Congo, Dem. Rep.	50.4	43	45	68					5	12
Congo, Rep.	50.4	51	54						14	9
ôte d'Ivoire	49.1	45	47	88	31	20.2			6	9
ritrea	51.0	53	56	70	14	35.0				22
thiopia	50.3	42	43	27	16					21
abon	50.2	54	55	94	33				13	9
Sambia, The	50.4	55	58	91					8	13
ihana	49.4	57	58	92	14					11
Guinea	48.8	54	54	84	37					19
Guinea-Bissau	50.6	44	46	62					20	14
(enya	50.0	49	47	88	23	38.5			1	7
esotho	53.5	35	37	85						12
iberia	50.1	42	43	85						13
1adagascar	50.3	54	57	80	34		29.7	51.9	7	7
//alawi	50.4	40	40	94	33	12.5			10	14
1ali	50.2	48	49	57	40					10
Mauritania	50.6	52	55	64	16	••				



1.5 Women in development

	Female population	expec	fe tancy irth	Pregnant women receiving prenatal care	Teenage mothers	Women in nonagricultural sector	Unpaid work			en in ments
	% of total 2004	yea Male 2004	ars Female 2004	% 2000-04 ^a	% of women ages 15–19 1995–2004 ^a	% of total 2003	Male % of male employment 2000-04 ^a	Female % of female employment 2000-04 ^a	% of tot 1990	al seats 2006
Mauritius	50.3	69	76		••	38.5	••		7	17
Mozambique	51.7	41	42	85	41				16	35
lamibia	50.4	47	48	91	18	50.8	12.8	22.0	7	27
liger	48.9	45	45	41	43			<u></u>	5	12
ligeria	49.4	43	44	58	25					6
Rwanda	51.6	42	46	92	7	••			17	49
Senegal	50.8	55	57	79	22				13	19
Sierra Leone	50.7	40	43	68				<u> </u>		15
Somalia	50.4	46	48		••	••			4	8
South Africa	50.9	44	45		16		0.5	1.1	3	33
Sudan	49.7	55	58	60		18.9				15
Swaziland 	51.9	43	42	90		31.3			4	11
anzania 	50.3	46	47	94	25		3.0	4.6		30
ogo 	50.6	53	57	85	19				5	
Jganda 7	50.0	48	49	92	31	••	10.3	40.5	12	24
Zambia	50.0	39	38	93	32				7	13
Zimbabwe	50.5	38	37		21	21.8	10.4	13.6	11	16
High income	50.7 w	76 w	82 w			46.0 w	w	3.1 w	8 w	22 v
ustralia	50.6	77	83			48.9	0.3	0.4	6	25
ustria	51.1	76 76	82		••	44.5	1.4	3.0	12	34
Selgium	50.9 50.4	76 77	82 83		••	44.4 49.2			9 13	35 21
Canada			•			•	0.2	0.3	31	*
enmark	50.5	75 75	80 82		••	48.3	0.3	1.1 0.4		37 38
Finland France	51.1 51.3	75 77	84		••	50.6 47.0	0.4		32 7	38 12
	51.3	7 <i>6</i>	81		••	46.4	0.5	1.9		32
Germany Greece	50.6	77	81	••	••	41.1	3.9	14.2	7	13
reland	50.3	76	81	••	••	47.4	0.8	1.3	8	13
srael	50.5	77	81			48.9	0.2	0.7	7	15
taly	51.5	77	83	••	••	41.2	3.1	5.8	13	12
apan	51.1	78	85			40.8	1.6	9.2	1	9
Korea, Rep.	49.8	74	81			41.2	1.3	16.7	2	13
(uwait	39.8	75	79		••••••	24.1		10.7		2
Vetherlands	50.4	76	81			45.7	0.2	1.1	21	37
lew Zealand	50.9	77	81		······································	51.3	0.5	0.9	14	32
lorway	50.4	78	82			49.1	0.3	0.4	36	38
Portugal	51.7	74	81			46.9	1.0	2.3	8	21
Puerto Rico	52.0	73	82			40.1	0.1	1.1		
Saudi Arabia	46.0	70	74			14.5				0
Singapore	49.7	77	81			47.8	0.3	1.3	5	16
Slovenia	51.2	73	80			47.4	3.1	5.6		12
Spain	50.9	77	84			40.7	0.9	2.7	15	36
Sweden	50.4	78	83			50.9			38	45
Switzerland	51.5	79	84			46.9	1.6	3.0	14	25
Inited Arab Emirates	32.0	77	81			14.4			0	0
Inited Kingdom	51.2	76	81			49.9	0.6	0.7	6	20
Jnited States	50.8	75	80			48.8		0.1	7	15
World	49.7 w	65 w	69 w			38.1 w	w	w	11 w	17 v
ow income	49.3	58	60			23.3			7	16
/liddle income	49.8	68	73			40.5			15	15
Lower middle income	49.4	68	73			39.9			16	15
Upper middle income	51.4	66	73		•	44.1	2.8	6.7		15
ow & middle income	49.6	63	67			36.1			12	15
ligh income	50.7	76	82			46.0		3.1	8	22

a. Data are for the most recent year available. b. Hong Kong, China, is classified as a high-income economy and is not included in the East Asia and Pacific aggregate. c. Less than 0.5.

d. Refers to women ages 15-49.



About the data

Despite much 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. Gender inequalities in the allocation of such resources as education, health care, nutrition, and political voice matter because of the strong association with well-being, productivity, and economic growth. This pattern of inequality begins at an early age, with boys routinely receiving a larger share of education and health spending than do girls, for example.

Because of biological differences girls are expected to experience lower infant and child mortality rates and to have a longer life expectancy than boys. This biological advantage, however, may be overshadowed by gender inequalities in nutrition and medical interventions, and by inadequate care during pregnancy and delivery, so that female rates of illness and death 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 difference in child mortality rates (table 2.19) is another good indicator of female social disadvantage because nutrition and medical interventions are particularly important for the 1-5 age group. Female child mortality rates that are as high as or higher than male child mortality rates might be indicative of discrimination against girls.

Having a child during the teenage years limits girls' opportunities for better education, jobs, and income and increases the likelihood of divorce and separation. Pregnancy is more likely to be unintended during the teenage years, and births are more likely to be premature and are associated with greater risks of complications during delivery and of death. In many countries maternal mortality (tables 1.2 and 2.16) is a leading cause of death among women of reproductive age. Most maternal deaths result from preventable causes—hemorrhage, infection, and complications from unsafe abortions. Prenatal care is essential for recognizing, diagnosing, and promptly treating complications that arise during pregnancy. In high-income countries most women have access to health care during pregnancy, but in developing countries an estimated 8 million women suffer pregnancy-related complications every year, and over half a million die (WHO 2004). This is reflected in the differences in maternal mortality ratios between high- and low-income countries.

Women's wage work is important for economic growth and the well-being of families. But restricted access to education and vocational training, heavy workloads at home and in nonpaid domestic and market activities, and labor market discrimination often limit women's participation in paid economic activities, lower their productivity, and reduce their wages. When women are in salaried employment, they tend to be concentrated in the nonagricultural sector. However, in many developing countries women are a large part of agricultural employment, often as unpaid family workers. Among people who are unsalaried, women are more likely than men to be unpaid family workers, while men are more likely than women to be self-employed or employers. There are several reasons for this.

Few women have access to credit markets, capital, land, training, and education, which may be required to start up a business. Cultural norms may prevent women from working on their own or from supervising other workers. Also, women may face time constraints due to their traditional family responsibilities. Because of biases and misclassification substantial numbers of employed women may be underestimated or reported as unpaid family workers even when they work in association or equally with their husbands in the family enterprise.

Women are vastly underrepresented in decision-making positions in government, although there is some evidence of recent improvement. Gender parity in parliamentary representation is still far from being realized. In 2005 women represented 16 percent of parliamentarians worldwide, compared with 9 percent in 1987. 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 (child labor), 2.5 (unemployment), 2.12 (education efficiency), 2.13 (education completion and outcomes), 2.16 (reproductive health), 2.18 (health risk factors and future challenges), and 2.19 (mortality).

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. • Teenage mothers are the percentage of women ages 15-19 who already have children or are currently pregnant. • Women in nonagricultural sector refers to women wage employees in the nonagricultural sector as a percentage of total nonagricultural employment. • Unpaid family workers are those who work without pay in a market-oriented establishment or activity operated by a related person living in the same household. • Women in parliaments are the percentage of parliamentary seats in a single or lower chamber occupied by women.

Data sources

Data on female population and life expectancy are from the World Bank's population database. Data on pregnant women receiving prenatal care are from United Nations Children's Fund's State of the World's Children 2006. Data on teenage mothers are from Demographic and Health Surveys by Macro International. Data on labor force and employment are from the ILO's Key Indicators of the Labour Market, fourth edition. Data on women in parliaments are from the Inter-Parliamentary Union.





Key indicators for other economies

	Population	Surface area	Population density	Gross national income				Gross domestic product		Life expectancy at birth	Adult literacy rate	Carbon dioxide emissions
	thousands 2004	thousand sq. km 2004	people per sq. km 2004	\$ millions	Per capita \$ 2004	PF \$ millions 2004	Per capita \$ 2004	% growth 2003–04	Per capita % growth 2003–04	years 2004	% ages 15 and older 2004	thousand metric tons 2002
American Samoa	57	0.2	285		^c							286
Andorra	66	0.5	140		d							
Antigua and Barbuda	80	0.4	182	759	9,480	889	11,100	4.1	2.9	<i>7</i> 5		370
Aruba	99	0.2	521		d							1,982
Bahamas, The	319	13.9	32	4,684	15,100	5,071	16,350	0.7	-0.7	70		2,081
Bahrain	716	0.7	1,008	10,288	14,370	14,080	19,670	5.4	3.9	75		21,292
Barbados	269	0.4	625	2,831 ^e	10,530e					75	100	1,220
Belize	283	23.0	12	1,115	3,940	1,851	6,550	4.2	0.9	72		788
Bermuda	64	0.1	1,280		d							498
Bhutan	896	47.0	19	677	760			4.9	2.3	64		399
Brunei Darussalam	366	5.8	69		d					77		6,174
Cape Verde	495	4.0	123	852	1,720	2,803 ^f	5,660 ^f	5.5	3.1	70	76	147
Cayman Islands	44	0.3	169		d							289
Channel Islands	149	0.2	745		d					79		
Comoros	588	2.2	264	328	560	1.135 ^f	1,930 ^f	1.9	-0.2	63	56	84
Cyprus	826	9.3	89	13,633	16,510	18,360 ^f	22,230 ^f	3.7	2.5	79		6,661
Djibouti	779	23.2	34	739	950	1,675 ^f	2,150 ^f	3.0	1.1	53		359
Dominica	71	0.8	95	262	3,670	378	5,290	2.0	1.6	77		121
Equatorial Guinea	492	28.1	18		c	3,731 ^f	7,580 ^f	10.0	7.5	43		169
Faeroe Islands	48	1.4	34		d							652
Fiji	841	18.3	46	2,286	2,720	4,835	5,750	4.1	3.2	68		1,352
French Polynesia	253	4.0	69		d					74		700
Greenland	57	410.5	0		d					69		564
Grenada	106	0.3	311	397	3,750	746	7,050	-2.8	-3.8	73		231
Guam	167	0.6	303		d					75		4,089
Guyana	750	215.0	4	765	1,020	3,181 ^f	4,240 ^f	1.6	1.4	64		1,608
Iceland	292	103.0	3	11,077	37,920	9,455	32,370	5.2	4.3	80		2,213
Isle of Man	77	0.6	135	2,138	23,750			6.3				

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 System of National Accounts 1968) and purchasing power parity (PPP) conversion factors, see *About the data* for table 1.1. Since 2000 this table has excluded 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 2004. 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)

Key indicators for other economies

	Population	Surface area	Population density			national ome			omestic duct	Life expectancy at birth	Adult literacy rate	Carbon dioxide emissions
	thousands 2004	thousand sq. km 2004	people per sq. km 2004	\$ millions	Per capita \$ 2004	PF \$ millions 2004	Per capita \$ 2004	% growth 2003–04	Per capita % growth 2003–04	years 2004	% ages 15 and older 2004	thousand metric tons 2002
Kiribati	98	0.7	134	95	970			1.8	0.3	63		29
Liechtenstein	34	0.2	213		d							
Luxembourg	453	2.6	174	25,559	56,380	27,928	61,610	4.5	3.8	78		9,427
Macao, China	457				^d			10.1	9.3	80		1,806
Maldives	321	0.3	1,071	773	2,410			10.8	8.1	67		1,030
Malta	401	0.3	1,254	4,834	12,050	7,460	18,590	0.4	-0.2	79		2,953
Marshall Islands	61	0.2	340	142	2,320			1.5	-2.2	••		
Mayotte	172	0.4	430		c							
Micronesia, Fed. Sts.	110	0.7	157	252	2,300			-3.8	-4.6	68		
Monaco	33	0.0	16,923		d							
Netherlands Antilles	181	0.8	226	••	^d	••		••	••	76	97	4,928
New Caledonia	230	18.6	13		^d					75		1,821
Northern Mariana Islands	77	0.5	161		^c							
Palau	20	0.5	43	137	6,870	••		2.0	0.5			234
Qatar	777	11.0	71		^d					74	89	36,391
Samoa	184	2.8	65	338	1,840	1,031 ^f	5,610 ^f	3.1	2.3	70	99	143
São Tomé and Principe	153	1.0	159	60	390			4.5	2.1	63		92
Seychelles	84	0.5	182	685	8,190	1,328 ^f	15,880 ^f	-2.0	-3.0	73	92	535
Solomon Islands	466	28.9	17	263	560	838	1,800	5.5	2.8	63		172
San Marino	28	0.1	463	653	d			2.3				
St. Kitts and Nevis	47	0.4	131	326	6,980	510	10,910	2.1	2.1	71		114
St. Lucia	164	0.6	268	684	4,180	915	5,590	3.5	1.6	73		377
St. Vincent & Grenadines	118	0.4	304	403	3,400	714	6,030	6.0	5.4	71		183
Suriname	446	163.3	3	997	2,230			4.6	3.9	69		2,250
Timor-Leste	887	14.9	60	506	570			1.8	-5.0	56		
Tonga	102	0.8	142	190	1,860	801 ^f	7,850 ^f	4.3	3.9	72		106
Vanuatu	207	12.2	17	287	1,390	612 ^f	2,950 ^f	3.0	1.0	69		84
Virgin Islands (U.S.)	113	0.4	323	••	d	••	••	••	••	79		10,241

a. PPP is purchasing power parity; see *Definitions*. b. Calculated using the *World Bank Atlas* method. c. Estimated to be upper middle income (\$3,256–\$10,065). d. Estimated to be high income (\$10,066 or more). e. Refers to GDP and GDP per capita at factor cost. f. The estimate is based on regression; others are extrapolated from the latest International Comparison Program benchmark estimates.

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 older 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 Group 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.



he world is in the middle of a major demographic transition. Its population continues to grow every year, but the pace of growth has slowed as fertility rates decline. As population growth slows, the age structure of the population is changing, with the share of the young declining and that of the elderly growing. This changing age structure has important implications for economic and social policies and hence for sustainable development.

But different countries and regions are at varying stages of this transition, depending on their fertility, mortality, and migration trends, creating a "demographic divide" between countries (Kent and Haub 2005). In much of the industrial world increasing life expectancy and aging populations have coincided with income growth, healthier lifestyles, and fertility rates that are below population replacement levels. For these countries there will be little change in future population size in the absence of inmigration. In fact, large increases in inmigration or in the retirement age would be needed to stabilize the labor force and maintain current labor force to population ratios. In developing countries fertility rates have also declined but remain much higher than in industrial countries, and fertility rates vary considerably across regions: high in Sub-Saharan Africa and the Middle East, but low in East Asia. Except in the transition economies of Eastern Europe, where fertility rates are near or below replacement levels, the population in developing countries will continue to grow well into the twenty-first century, and outmigration will only modestly reduce the population growth rate.

Technology, consumption patterns, unequal distribution of wealth, and the choices people and governments make all affect demographic trends. These, in turn, affect social and economic outcomes, and, consequently, what place these countries will take on the world stage in the future. Sub-Saharan African countries are trailing most others in their progress through the demographic transition. And if economic growth continues to lag behind population growth, as was the case in the early 1990s, it will exacerbate poverty in the region.

Rapid population growth in Sub-Saharan Africa

The challenges facing Sub-Saharan Africa as it strives to meet its development objectives are more daunting than those facing other regions. Its efforts to alleviate poverty, empower women, reduce child mortality, and improve maternal health have been undercut by the AIDS epidemic, by conflict, and by human displacement in the wake of natural disasters. In the past three decades its population has grown faster than that of any other region, doubling between 1975 and 2000 and now growing at 2.5 percent a year. Roughly 47 percent of the Sub-Saharan population is between the ages of 5 and 24, indicating that the population will continue to increase well into the twenty-first century. This large cohort will require substantial increases in future spending on health, education, and care for dependents.

Has success bred complacency?

Too little is being said about the challenge of continuing rapid population growth to African development. One possible reason for this may be that the success of fertility reductions in other regions and in some African countries has left the impression that the population problem has been solved (Cleland and Sinding 2005). Fertility rates have declined dramatically in the past 25 years where governments have increased investments in education and in women's repro-

2a

Total fertility rates by regi	on, 1970, 198	0, and 2004	
Region	1970	1980	2004
East Asia & Pacific	5.4	3.0	2.1
Europe & Central Asia	2.5	2.2	1.6
Latin America & Caribbean	5.3	4.2	2.4
Middle East & North Africa	6.7	6.2	3.1
South Asia	6.0	5.2	3.1
Sub-Saharan Africa	6.8	6.7	5.4
High-income	2.5	1.9	1.7
World	4.8	3.7	2.6

Source: World Bank database.

2h

Family planning and the fertility transition

The use of family planning among married women worldwide rose from 10 percent in 1960 to more than 60 percent in 2003. Due in part to modern contraception, the decline in fertility and the shift to smaller families occurred faster in developing countries—in only a few decades—than had occurred in industrial countries, where the transition to low fertility began in the 1830s. Crude birth rates were about 37 per 1,000 people in pre-Revolutionary France and 42–43 in the 1850s in the United States, before gradually commencing a decline to their current levels of 8 per 1,000 people.

What contributed to smaller families? Organized family planning programs bringing contraceptive supplies and services to the people, along with information campaigns promoting smaller, healthier families. Studies in the 1990s showed that these programs were responsible for about half the fertility decline of developing countries since the 1960s. Even couples in remote rural communities in Bangladesh and Vietnam gained access to modern contraceptives through nationwide family planning programs.

Contraceptive prevalence is a key determinant of declining fertility. Based on the current use of family planning services, contraceptive rates are not expected to increase rapidly because of Africa's widespread poverty, high rates of illiteracy, largely rural populations, and strong traditional preferences for large families. However, there is an emerging preference for spacing and limiting births among married women of reproductive age in African countries, ranging from 10 percent to 35 percent. The increased availability of contraception has reduced the gap between the number of women who want to limit births and those who can in most countries. But in some countries unmet need remains high.

ductive health (table 2a). Globally, contraceptive prevalence increased from 54 percent in 1990 to 59 percent in 1995 and to more than 60 percent in 2003 (box 2b).

The slowdown in population growth (table 2c) can be traced to these fertility declines. In Europe and Central Asia women now have on average only 1.6 births—too few to replace today's population. At the other extreme is Sub-Saharan Africa, with average fertility remaining very high.

Even in Sub-Saharan Africa regional figures mask huge differences across countries (table 2d). In South Africa, Botswana, Zimbabwe, and Lesotho fertility continues to decline as a result of successful family planning programs. Of women ages 15–49, 54 percent were using contraception in Zimbabwe and 48 percent in Botswana, compared with 14 percent in Niger and 8 percent in Chad in the past decade. Even in countries with high fertility, the rates vary by socioeconomic status. In Benin the fertility rate was 7.3 births for women in the lowest asset quintile and 3.8 for women in the richest quintile.

Why is fertility still high?

Sub-Saharan Africa is becoming fragmented in its fertility declines. There are several reasons for this. The logistical and cultural challenge of delivering family planning programs, the often poor quality of health services, ignorance about reproductive health issues, differences in economic status, and continuing gender inequality all contribute to high fertility rates. Desired family size, though decreasing slowly over past decades, remains high—as high as eight children in some

2C

Population growth rates b	y region (%)		
Region	1950-80	1980-90	1990-2004
East Asia & Pacific	2.0	1.6	1.2
Europe & Central Asia	1.3	0.9	0.1
Latin America & Caribbean	2.6	2.0	1.6
Middle East & North Africa	2.6	3.0	2.1
South Asia	2.2	2.2	1.8
Sub-Saharan Africa	2.6	2.9	2.5
High-income	1.1	0.7	0.8
World	1.9	1.7	1.4

2d

Country Fertility rate Country Fertility Niger 7.7 Lesotho 3.5 Uganda 7.1 Zimbabwe 3.4	Total fertility rates in selected Sub-Saharan countries, 2004									
	ity rate									
Uganda 7.1 Zimbabwe 3.4	3.5									
	3.4									
Guinea-Bissau 7.1 Botswana 3.1	3.1									
Mali 6.9 South Africa 2.7	2.7									
Burundi 6.8 Mauritius 2.0	2.0									
Source: World Bank database.										

African countries (table 2e). By contrast, the desired family size in South Asia is typically fewer than three children.

High desired family sizes are associated with high infant mortality rates. But when birth rates began to drop in Bangladesh and Nepal in the 1980s their infant mortality rates were higher than those in many western and central African countries (Cleland and Sinding 2005).

Another reason for high fertility rates is that contraceptive prevalence rates remain low. For 9 of 20 African countries that conducted Demographic and Health Surveys between 1999 and 2005, contraceptive use, including traditional methods, was less than 10 percent for women ages 15–49. Compare that with other regions, where on average 40 percent of women were using a method of contraception. In addition to contraceptive use, the method of contraception is also important for sustained fertility declines. In countries with low contraceptive prevalence, fewer women use modern methods, further diluting the effect of low contraceptive use on fertility (table 2f). Of 17 African countries that conducted Demographic and Health Surveys between 2000 and 2004, in 8 of them use of modern methods was estimated at less than 10 percent.

Finally, HIV/AIDS has affected fertility and mortality trends in Sub-Saharan Africa. AIDS-related deaths among workingage adults in the seven worst AIDS-affected countries will produce an age structure not seen before, with large num-

2e

Desired family size in selected countries in Sub-Saharan Africa and South Asia, latest year available

Sub-Saharan Africa	Desired number of children	South Asia	Desired number of children
Cameroon (2004)	5.7	Bangladesh (1999/2000)	2.5
Chad (1996/97)	8.3	India (1998/99)	2.6
Eritrea (2002)	5.8	Nepal (2001)	2.6
Niger (1998)	8.2		

Source: Demographic and Health Surveys.

2f

Contraceptive method mix, selected countries, 2000–04

	Contraceptive use						
Country	Any method	Any modern					
Kenya	39.3	31.5					
Madagascar	27.1	18.3					
Benin	18.6	7.2					
Burkina Faso	13.8	8.8					
Nigeria	12.6	8.2					
Bangladesh	58.5	47.6					
Haiti	28.1	22.8					
Cambodia	23.8	18.8					
Source: Demographic and H	ealth Surveys.						

bers of old and very young and a relatively small working-age population. But recent data indicate that prevalence among pregnant women attending antenatal clinics in Zimbabwe is declining in all age groups. In South Africa, with the largest number of infected people, rates of HIV infection among pregnant women ages 15-24 have stabilized since 2000. HIV prevalence among pregnant women has declined countrywide in Kenya and Uganda (UNAIDS and WHO 2005). But in western and central Africa there is no consistent evidence of declining prevalence among pregnant women in recent years. And overall in Sub-Saharan Africa the prevalence of HIV infections in people ages 15-49 has remained at about 7 percent since 2000. So while life expectancy has fallen in some cases, fertility remains stubbornly high for many Sub-Saharan African countries, and high fertility remains the dominant influence on current and future population growth and size.

In many West African countries, where HIV prevalence has remained lower than in other regions in Africa, more women die from unsafe abortions than as a result of AIDS (Population Action International 2006). If African nations can expand the capacity and quality of family planning sevices, that will bring about much needed declines in fertility rates while strengthening the status of women. Until this happens, continuing high fertility rates and rapid population growth may prove a more serious obstacle to poverty reduction than will AIDS.

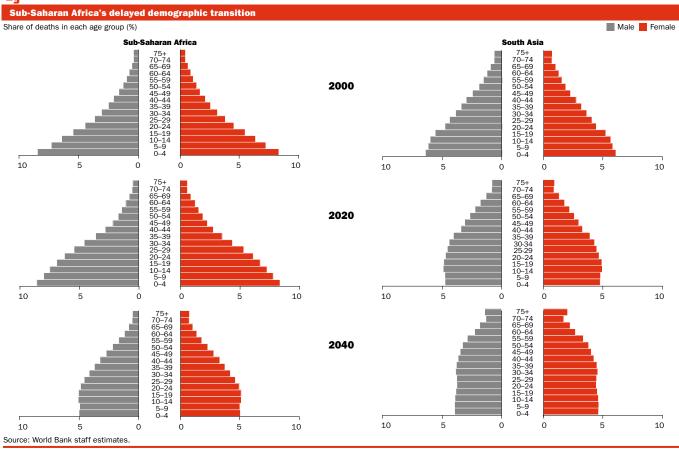
What will high fertility mean for Sub-Saharan Africa's future population?

The population of Sub-Saharan Africa has grown from 225 million in 1960 to 733 million in 2004. The World Bank projects a doubling of the population to 1.4 billion by 2050, increasing the region's share of the world population from 13 percent today to 20 percent. Fertility rates will remain over 3.5 births per woman until 2025, producing a youthful age structure, with a large proportion of children under 15 years old. Comparisons with South Asia, another region with high fertility, show that the fertility transition in Sub-Saharan Africa lags one generation behind (figure 2g).

Very rapid population growth is expected to continue in several African countries, with the population likely to triple in Burkina Faso, Burundi, Chad, Democratic Republic of Congo, Republic of Congo, Guinea-Bissau, Liberia, Mali, Niger, and Uganda (United Nations 2005). Among the nine countries expected by the United Nations to account for half the world's projected population increase between 2005 and 2050, four are in Sub-Saharan Africa: Democratic Republic of Congo, Ethiopia, Nigeria, and Uganda.

Although fertility rates have started to decline in many Sub-Saharan countries, the rates of decline are expected to be more modest and to be achieved over a longer period of time. And they will occur at different paces. For several





2 Projected fer	tilitv rat	es in se	lected A	frican re	gions		
Region	2005- 10	2010- 15		2020- 25	_	2030- 35	2035- 40
Western Africa	5.4	4.8	4.4	3.9	3.5	3.2	3.0
Central Africa	6.1	5.8	5.4	5.0	4.5	4.1	3.6
Southern Africa	2.7	2.5	2.4	2.3	2.2	2.1	2.0
Source: United Nat	ione 2005						

decades fertility declines in western and central Africa are expected to lag behind those that have already taken place in southern Africa (table 2h).

What does high fertility mean for Africa's development?

As average population growth slowed globally over the past half century, the range of national and regional demographic experiences widened. Growth rates remained high in many African countries such as Burkina Faso and Chad, while they plummeted in countries in other regions, including Italy, the Republic of Korea, and Thailand. Other countries with moderate growth rates—such as Bangladesh, Brazil, India, and Indonesia, which have had impressive fertility declines—still have considerable momentum for future growth due to a young age structure.

Each demographic situation is associated with its own social, economic, environmental, and political challenge (box 2i). What is of concern about the demographic divide is not the differences in population growth rates, but the disparities in living standards, personal well-being, and future prospects associated with these trends.

People in Japan and Nigeria, with populations of similar size in 2004 but at opposing ends of the divide, have starkly different lives today—and they face very different futures (table 2j). In Japan the elderly dependency ratio is expected to increase dramatically, straining government budgets because of higher spending on pensions, health care, and long-term residential care. Econometric models suggest that the projected decline in the working-age population could result in lower savings and investment rates and slower GDP growth (IMF 2004).

By contrast, in Nigeria, a microcosm of Sub-Saharan Africa, per capita growth could be boosted by the increase in the workingage population. With 36 percent of its population under age 15 in 2025, Nigeria has a considerable momentum for future growth well into the twenty-first century. This growth depends, however, on the country pursuing sound economic and social policies to enable the large wave of potential workers to acquire

skills and find productive employment. Its inability to deal with a higher burden of infectious diseases, lower education levels, and limited investment in health infrastructure could result in very different economic outcomes. Without investments in physical stocks and human capital, Nigeria's population growth will exert an unsustainable demand for public-sector-provided health, education, and other services.

2i

Population projections—trends and uncertainty

Future trends in population size, age structure, births, deaths, and other demographic variables are of interest to policymakers, government planners, and industry strategists. The reason: population forecasts can imply a wide range of consequences for society and its environment. Country projections became more accurate over the 1950s and 1960s, as demographic data improved, but since then there have been few significant improvements.

Fertility, mortality, and migration are the components of population growth. While broad trends can be discerned and projected into the future with reasonable confidence, substantial uncertainty is attached to the specific trend for any country or region. Uncertainty arises in part because the present demographic situation in any country is not known perfectly. But the main cause of uncertainty is that future trends in fertility, mortality, and migration are subject to unpredictable influences. Future economic development; societal, cultural, epidemiological, and environmental changes; or progress in science and technology cannot be predicted. Uncertainty also arises from the fact that humans can influence the future through deliberate policy intervention, such as investing heavily in family planning and reproductive services.

Some demographers argue that population forecasts should not go beyond a horizon of 30–35 years, due to the rapid increase in uncertainty beyond this point. Others note, however, that if the forecast carries an appropriate indication of the range of uncertainty, users can decide when the informational content of the forecast ceases to be useful.

Source: NRC 2000.

2i

The demographic divide: Nigeria and Japan										
	Nig	eria	Japan							
	2004	2025	2004	2025						
Population (millions)	137	205	128	120						
Total fertility rate per woman	5.6	3.3	1.3	1.8						
Population ages 0–14 (percent)	45.1	36.2	14.8	12.5						
Population ages 65 and older (percent)	2.7	3.4	16.5	28.1						
Life expectancy at birth (years)	45	52	82	84						
Infant mortality rate (per 1,000 live births)	98	72	3	3						
Adults with HIV/AIDS (percent ages 15-49)	5.4		0.1							
Health expenditure per capita	60		2,476							
GNI per capita	430		37,060							

Source: World Bank database





Population dynamics

	Total population		Average popul growt		Population age composition			1 -	ndency tio	Crude death rate	Crude birth rate	
	1990	millions 2004	2020	1990–2004	[%] 2004–20	Ages 0-14 2004	% Ages 15–64 2004	Ages 65+ 2004	proportion	lents as of working- pulation Old 2004	per 1,000 people 2004	per 1,000 people 2004
Afghanistan	14.6											
Albania	3.3	3.1	3.4	-0.4	0.6	27.6	64.3	8.1	0.4	0.1	6	17
Algeria	25.3	32.4	40.6	1.8	1.4	30.4	65.1	4.5	0.5	0.1	5	21
Angola	10.5	15.5	23.8	2.8	2.7	46.6	51.0	2.5	0.9	0.0 ^a	22	48
Argentina	32.6	38.4	44.5	1.2	0.9	26.7	63.1	10.1	0.4	0.2	8	18
Armenia	3.5	3.0	3.0	-1.1	-0.2	21.7	66.4	11.9	0.3	0.2	9	12
Australia	17.1	20.1	23.3	1.2	0.9	20.0	67.5	12.6	0.3	0.2	7	13
Austria	7.7	8.2	8.3	0.4	0.1	15.8	67.8	16.4	0.2	0.2	9	10
Azerbaijan	7.2	8.3	9.4 181.2	1.1 2.1	0.8 1.6	26.8 35.9	66.2 60.5	6.9 3.6	0.4 0.6	0.1 0.1	6 8	16 27
Bangladesh Belarus	104.0 10.2	139.2 9.8	181.2 8.9	-0.3	-0.6	35.9 15.8	69.7	3.6 14.6	0.6	0.1	8 15	9
Belgium	10.2	10.4	10.6	0.3	0.1	16.9	65.6	17.5	0.2	0.2	10	11
Benin	5.2	8.2	12.7	3.3	2.8	44.5	52.8	2.7	0.8	0.1	12	41
Bolivia	6.7	9.0	11.6	2.1	1.6	38.5	57.0	4.5	0.7	0.1	8	29
Bosnia and Herzegovina	4.3	3.9	3.8	-0.7	-0.1	16.9	69.6	13.5	0.2	0.2	9	9
Botswana	1.4	1.8	1.7	1.5	-0.4	37.9	58.9	3.2	0.6	0.1	26	26
Brazil	149.4	183.9	219.2	1.5	1.1	28.1	65.9	6.0	0.4	0.1	7	20
Bulgaria	8.7	7.8	6.9	-0.8	-0.8	14.1	69.2	16.8	0.2	0.2	14	9
Burkina Faso	8.5	12.8	20.3	2.9	2.9	47.4	49.8	2.8	1.0	0.1	17	47
Burundi	5.7	7.3	12.3	1.8	3.3	45.5	51.7	2.8	0.9	0.1	18	45
Cambodia	9.7	13.8	18.6	2.5	1.9	37.7	59.0	3.4	0.6	0.1	11	30
Cameroon	11.7	16.0	20.4	2.3	1.5	41.6	54.7	3.7	0.8	0.1	17	35
Canada	27.8	32.0	36.4	1.0	0.8	17.9	69.1	13.0	0.3	0.2	7	10 37
Central African Republic Chad	3.0 6.1	4.0 9.4	5.0 14.9	2.0 3.2	1.4 2.8	43.1 47.2	52.9 49.7	4.0 3.1	0.8 0.9	0.1 0.1	22 20	48
Chile	13.2	16.1	18.6	1.4	0.9	25.5	66.6	7.9	0.9	0.1	5	16
China	1,135.2	1,296.2	1,423.9	0.9	0.6	22.0	70.5	7.5	0.4	0.1	6	12
Hong Kong, China	5.7	6.9	8.1	1.3	1.0	14.8	73.4	11.8	0.2	0.2	5	7
Colombia	35.0	44.9	55.0	1.8	1.3	31.4	63.6	5.0	0.5	0.1	5	21
Congo, Dem. Rep.	37.8	55.9	90.0	2.8	3.0	47.2	50.1	2.7	0.9	0.1	20	50
Congo, Rep.	2.5	3.9	6.4	3.2	3.1	47.0	50.1	2.9	0.9	0.1	13	44
Costa Rica	3.1	4.3	5.3	2.3	1.3	29.0	65.3	5.7	0.4	0.1	4	17
Côte d'Ivoire	12.7	17.9	23.3	2.5	1.7	42.1	54.6	3.2	0.8	0.1	17	37
Croatia	4.8	4.4	4.4	-0.5	-0.1	15.8	67.2	17.0	0.2	0.3	11	9
Cuba	10.5	11.2	11.4	0.5	0.1	19.5	70.0	10.5	0.3	0.2	7	11
Czech Republic	10.4	10.2	9.9	-0.1	-0.2	15.0	71.0	14.1	0.2	0.2	11	10
Denmark	5.1	5.4	5.6	0.4	0.2	18.8	66.3	14.9	0.3	0.2	10	12
Dominican Republic	7.1	8.8	10.7	1.5	1.2	33.1	62.8	4.1 5.7	0.5	0.1	6 5	24 23
Eduador Edynt Arab Ban	10.3 55.7	13.0 72.6	16.0	1.7	1.3	32.8	61.5	5.7 4.7	0.5	0.1	5 6	•
Egypt, Arab Rep. El Salvador	55.7	72.6 6.8	94.8 8.5	1.9 2.0	1.7 1.5	33.9 34.3	61.4 60.4	4.7 5.3	0.6 0.6	0.1 0.1	6	26 24
Eritrea	3.0	4.2	6.6	2.4	2.8	44.8	52.9	2.3	0.8	0.1 0.0 ^a	11	39
Estonia	1.6	1.3	1.3	-1.1	-0.4	15.6	68.1	16.3	0.2	0.2	13	10
Ethiopia	51.2	70.0	107.7	2.2	2.7	44.8	52.3	2.9	0.9	0.1	19	40
Finland	5.0	5.2	5.4	0.3	0.2	17.5	66.8	15.7	0.3	0.2	9	11
France	56.7	60.4	63.0	0.4	0.3	18.2	65.2	16.6	0.3	0.3	8	13
Gabon	1.0	1.4	1.7	2.5	1.4	40.5	55.1	4.4	0.7	0.1	13	30
Gambia, The	0.9	1.5	2.1	3.3	2.1	40.3	56.0	3.7	0.7	0.1	12	35
Georgia	5.5	4.5	4.1	-1.4	-0.7	19.5	66.5	14.1	0.3	0.2	11	11
Germany	79.4	82.5	82.3	0.3	0.0 ^a	14.6	67.2	18.3	0.2	0.3	10	9
Ghana	15.5	21.7	28.8	2.4	1.8	39.5	56.9	3.6	0.7	0.1	11	31
Greece	10.2	11.1	11.2	0.6	0.1	14.4	67.6	18.0	0.2	0.3	9	9
Guatemala	8.9	12.3	17.5	2.3	2.2	43.5	52.3	4.3	0.8	0.1	6	35
Guinea Guinea-Bissau	6.2 1.0	9.2 1.5	13.4 2.5	2.8 3.0	2.3 3.0	43.8 47.4	52.7 49.5	3.5 3.1	0.8 1.0	0.1 0.1	13 20	41 50
Haiti	6.9	1.5 8.4	10.3	1.4	1.3	38.0	49.5 58.1	4.0	0.7	0.1	13	30
riaid	6.9	8.4	10.3	1.4	1.3	3 6. U	0 6. 1	4.0	0.7	0.1	13	. 50

Population dynamics 2.1

	Total population			popul	Average annual Population age composition growth rate					dency tio	Crude death rate	Crude birth rate
	1990	millions 2004 2020			% 1990-2004 2004-20		% Ages Ages 0-14 15-64 2004 2004		dependents as proportion of workingage population Young Old 2004 2004		per 1,000 people 2004	per 1,000 people 2004
Honduras	4.9	7.0	9.5	2.6	1.9	39.7	56.5	3.8	0.7	0.1	6	29
Hungary	10.4	10.1	9.6	-0.2	-0.3	16.0	68.9	15.1	0.7	0.1	13	29 9
India	849.5	1,079.7	1,332.0	1.7	1.3	32.5	62.3	5.2	0.5	0.1	8	24
Indonesia	178.2	217.6	255.9	1.4	1.0	28.6	66.0	5.4	0.4	0.1	7	20
Iran, Islamic Rep.	54.4	67.0	85.0	1.5	1.5	29.8	65.7	4.5	0.5	0.1	5	19
Iraq	18.5											
Ireland	3.5	4.1	4.9	1.1	1.2	20.3	68.7	10.9	0.3	0.2	7	16
Israel	4.7	6.8	8.3	2.7	1.2	27.9	62.0	10.1	0.4	0.2	6	21
Italy	56.7	57.6	57.1	0.1	0.0 ^a	14.1	66.3	19.7	0.2	0.3	9	10
Jamaica	2.4	2.6	2.8	0.7	0.3	31.7	60.8	7.6	0.5	0.1	6	18
Japan	123.5	127.8	126.7	0.2	-0.1	14.1	66.7	19.2	0.2	0.3	9	9
Jordan	3.2	5.4	7.6	3.9	2.1	37.6	59.3	3.1	0.6	0.1	4	27
Kazakhstan	16.3	15.0	14.9	-0.6	0.0 ^a	23.9	67.8	8.3	0.4	0.1	10	15
Kenya	23.4	33.5	49.6	2.5	2.5	42.9	54.2	2.8	0.8	0.1	15	39
Korea, Dem. Rep.	19.7	22.4	23.7	0.9	0.4	25.4	68.0	6.5	0.4	0.1	11	16
Korea, Rep.	42.9	48.1	49.4	0.8	0.2	19.1	71.9	9.0	0.3	0.1	5	9
Kuwait	2.1	2.5	3.7	1.0	2.5	24.5	73.8	1.7	0.3	0.0 ^a	2	19
Kyrgyz Republic	4.4	5.1	6.1	1.0	1.1	32.1	61.8	6.1	0.5	0.1	7	22
Lao PDR	4.1 2.7	5.8	8.0	2.4	2.0 -0.5	41.2	55.1	3.6	0.7	0.1 0.2	12 14	35 9
Latvia Lebanon	2.7	2.3 3.5	2.1 4.1	-1.0 1.8	1.0	15.2 29.1	68.1 63.6	16.6 7.3	0.2 0.5	0.2	7	19
Lesotho	1.6	1.8	1.7	0.9	-0.3	39.0	55.8	7.3 5.2	0.5	0.1	25	28
Liberia	2.1	3.2	5.0	3.0	2.8	47.0	50.8	2.2	0.9	0.1 0.0 ^a	21	50
Libya	4.3	5.7	7.5	2.0	1.7	30.4	65.7	4.0	0.5	0.1	4	23
Lithuania	3.7	3.4	3.2	-0.5	-0.4	17.4	67.4	15.2	0.3	0.2	12	9
Macedonia, FYR	1.9	2.0	2.1	0.4	0.1	20.1	69.0	10.9	0.3	0.2	9	12
Madagascar	12.0	18.1	26.6	2.9	2.4	44.2	52.7	3.1	0.8	0.1	12	39
Malawi	9.5	12.6	17.8	2.1	2.2	47.3	49.7	3.0	1.0	0.1	21	43
Malaysia	17.8	24.9	31.5	2.4	1.5	32.8	62.8	4.5	0.5	0.1	5	22
Mali	8.9	13.1	20.9	2.8	2.9	48.3	49.0	2.7	1.0	0.1	17	49
Mauritania	2.0	3.0	4.5	2.7	2.5	43.1	53.5	3.4	0.8	0.1	14	41
Mauritius	1.1	1.2	1.4	1.1	0.7	24.9	68.6	6.5	0.4	0.1	7	16
Mexico	83.2	103.8	124.7	1.6	1.1	31.6	63.2	5.2	0.5	0.1	5	19
Moldova	4.4	4.2	4.1	-0.2	-0.2	19.1	70.9	10.0	0.3	0.1	12	10
Mongolia	2.1	2.5	3.1	1.3	1.4	31.3	65.0	3.8	0.5	0.1	6	22
Morocco	23.9	29.8	38.3	1.6	1.6	31.5	63.8	4.8	0.5	0.1	6	23
Mozambique	13.4	19.4	25.5	2.6	1.7	44.1	52.6	3.3	0.8	0.1	20	39
Myanmar	40.8	50.0	57.1	1.5	0.8	30.1	65.0	4.9	0.5	0.1	10	20
Namibia	1.4	2.0	2.4	2.6	1.1	42.1	54.4	3.4	0.8	0.1	6	23
Nepal	19.1	26.6	35.7	2.4	1.8	39.5	56.9	3.6	0.7	0.1	8	29
Netherlands	15.0	16.3	17.0	0.6	0.3	18.3	67.7 66.1	14.0	0.3	0.2	8	12
New Zealand	3.4	4.1	4.4	1.2	0.5	21.7	66.1	12.2	0.3	0.2	7	14
Nicaragua Niger	4.0 8.5	5.4 13.5	7.2 22.6	2.2 3.3	1.8 3.2	39.5 49.0	57.2 49.0	3.3 2.0	0.7 1.0	0.1 0.0 ^a	5 21	28 54
Nigeria	90.6	128.7	22.6 175.8	2.5	1.9	44.5	52.5	3.0	0.8	0.04	19	41
Norway	4.2	4.6	5.0	0.6	0.5	19.7	65.3	15.0	0.8	0.1	9	12
Oman	1.8	2.5	3.5	2.3	2.0	34.9	62.7	2.5	0.6	0.2 0.0 ^a	3	25
Pakistan	108.0	152.1	211.7	2.4	2.1	38.9	57.3	3.8	0.7	0.1	7	27
Panama	2.4	3.2	4.0	2.0	1.5	30.6	63.5	5.9	0.5	0.1	5	22
Papua New Guinea	4.1	5.8	7.6	2.4	1.7	40.7	56.9	2.4	0.7	0.0 ^a	10	30
Paraguay	4.2	6.0	8.3	2.5	2.0	38.0	58.3	3.7	0.7	0.1	5	29
Peru	21.8	27.6	34.2	1.7	1.4	32.7	62.1	5.2	0.5	0.1	6	23
Philippines	61.1	81.6	103.3	2.1	1.5	35.7	60.5	3.8	0.6	0.1	5	25
Poland	38.1	38.2	37.7	0.0 ^a	-0.1	16.8	70.3	12.8	0.2	0.2	10	9
Portugal	9.9	10.5	10.9	0.4	0.2	15.9	67.2	16.9	0.2	0.3	10	10
Puerto Rico	3.5	3.9	4.2	0.7	0.5	22.5	65.6	11.9	0.3	0.2	8	14



2.1 Population dynamics

	Total population			popu	Average annual Popul population com growth rate			_	Dependency ratio		Crude death rate	Crude birth rate
	1990	millions 2004	2020	1990–2004	% - 2004–20	Ages 0–14 2004	% Ages 15–64 2004	Ages 65+ 2004	proportion	lents as of working- pulation Old 2004	per 1,000 people 2004	per 1,000 people 2004
Romania	23.2	21.7	20.4	-0.5	-0.4	15.9	69.5	14.6	0.2	0.2	12	10
Russian Federation	148.3	143.8	133.1	-0.2	-0.5	15.7	70.7	13.6	0.2	0.2	16	11
Rwanda	7.1	8.9	12.4	1.6	2.1	44.1	53.5	2.4	0.8	0.0 ^a	18	41
Saudi Arabia	16.4	24.0	34.0	2.7	2.2	37.8	59.4	2.9	0.6	0.0 ^a	4	27
Senegal	8.0	11.4	16.0	2.5	2.1	43.0	53.9	3.1	0.8	0.1	11	36
Serbia and Montenegro	10.5 ^b	8.1	10.3	0.1 ^c	1.5	18.6	67.4	14.0	0.3	0.2	14	11
Sierra Leone	4.1	5.3	7.7	1.9	2.3	42.8	53.9	3.3	0.8	0.1	23	46
Singapore	3.0	4.2	5.0	2.4	1.0	20.2	71.6	8.2	0.3	0.1	4	10
Slovak Republic	5.3	5.4	5.4	0.1	0.0 ^a	17.2	71.1	11.7	0.2	0.2	10	10
Slovenia	2.0	2.0	1.9	0.0 ^a	-0.3	14.2	70.4	15.4	0.2	0.2	9	9
Somalia	6.7	8.0	12.3	1.3	2.7	44.1	53.3	2.6	0.8	0.0 ^a	17	45
South Africa	35.2	45.5	48.1	1.8	0.3	32.8	63.1	4.1	0.5	0.1	22	24
Spain	38.8	42.7	44.4	0.7	0.2	14.3	69.2	16.5	0.2	0.2	9	11
Sri Lanka	17.0	19.4	22.9	0.9	1.0	24.5	68.4	7.1	0.4	0.1	6	19
Sudan	26.1	35.5	47.5	2.2	1.8	39.5	56.9	3.6	0.7	0.1	11	32
Swaziland	0.8	1.1	1.0	2.7	-0.8	41.6	55.0	3.4	0.8	0.1	20	34
Sweden	8.6	9.0	9.5	0.4	0.3	17.7	65.1	17.1	0.3	0.3	10	11
Switzerland	6.7	7.4	7.4	0.7	0.0 ^a	16.8	67.6	15.7	0.2	0.2	8	10
Syrian Arab Republic	12.8	18.6	26.0	2.6	2.1	37.4	59.5	3.1	0.6	0.1	3	28
Tajikistan	5.3	6.4	8.2	1.4	1.5	39.7	56.5	3.8	0.7	0.1	7	29
Tanzania	26.2	37.6	49.3	2.6	1.7	42.9	53.9	3.2	0.8	0.1	17	37
Thailand	54.6	63.7	71.0	1.1	0.7	24.1	69.0	6.9	0.3	0.1	7	16
Togo	4.0	6.0	8.7	3.0	2.4	43.7	53.2	3.1	0.8	0.1	12	38
Trinidad and Tobago	1.2	1.3	1.3	0.5	0.2	22.0	70.7	7.2	0.3	0.1	8	14
Tunisia	8.2	9.9	11.6	1.4	1.0	26.7	67.1	6.2	0.4	0.1	6	17
Turkey	56.2	71.7	86.8	1.7	1.2	29.5	65.1	5.4	0.5	0.1	6	19
Turkmenistan	3.7	4.8	5.8	1.9	1.2	32.7	62.7	4.7	0.5	0.1	8	22
Uganda	17.8	27.8	50.6	3.2	3.7	50.4	47.1	2.5	1.1	0.1	15	50
Ukraine	51.9	47.5	39.6	-0.6	-1.1	15.4	68.8	15.8	0.2	0.2	16	9
United Arab Emirates	1.8	4.3	6.1	6.4	2.2	22.4	76.5	1.1	0.3	0.0 ^a	1	16
United Kingdom	57.6	59.9	62.5	0.3	0.3	18.2	65.9	15.9	0.3	0.2	10	12
United States	249.6	293.7	338.4	1.2	0.9	20.9	66.8	12.3	0.3	0.2	8	14
Uruguay	3.1	3.4	3.8	0.7	0.6	24.4	62.4	13.2	0.4	0.2	9	15
Uzbekistan	20.5	26.2	32.5	1.7	1.3	34.0	61.3	4.7	0.6	0.1	7	21
Venezuela, RB	19.8	26.1	33.5	2.0	1.5	31.7	63.4	4.9	0.5	0.1	5	22
Vietnam	66.2	82.2	99.9	1.5	1.2	30.3	64.2	5.5	0.5	0.1	6	18
West Bank and Gaza	2.0	3.5	5.7	4.1	3.0	45.7	51.1	3.1	0.9	0.1	4	35
Yemen, Rep.	12.1	20.3	32.7	3.7	3.0	46.7	51.0	2.3	0.9	0.0 ^a	8	40
Zambia Zimbabwe	8.4	11.5	15.1	2.3	1.7	46.0	51.0	3.0	0.9	0.1	22	41
	10.6	12.9	14.1	1.4	0.6	40.5	55.9	3.6	0.7	0.1	23	30
World Low income	5,256.3 s 1,763.4	6,365.0 s 2,343.0	7,573.5 3,084.4	s 1.4 w 2.0	1.1 w 1.7	28.5 w 36.8	64.2 w 58.9	7.3 w 4.3	0.4 w 0.6	0.1 w	9 w 11	20 w 29
Middle income	2,589.4	3,017.8	3,427.1	1.1	0.8	25.4	67.4	7.2	0.4	0.1	7	16
Lower middle income	2,082.8	2,441.6	2,796.9	1.1	0.8	25.5	67.6	6.8	0.4	0.1	7	16
Upper middle income	506.6	576.2	630.2	0.9	0.6		66.3	•	0.4	0.1	10	*
Low & middle income	4,352.8	5,360.8	6,511.5	1.5	1.2	24.9 30.4	63.7	8.8 5.9	0.4	0.1	9	16 22
East Asia & Pacific	1,596.1	1,869.5	2,107.6	1.1	0.7	24.5	68.7	6.8	0.5	0.1	7	15
Europe & Central Asia	466.1	472.5	476.9	0.1	0.1	20.2	68.2	11.6	0.4	0.1	12	13
Latin America & Carib.	437.6	545.9	660.3	1.6	1.2	30.4	63.6	5.9	0.5	0.2	6	21
Middle East & N. Africa	225.5	300.3	399.1	2.0	1.8	34.0	61.8	4.2	0.6	0.1	6	25
South Asia	1,113.1	1,446.8	1,834.9	1.9	1.5	33.8	61.4	4.8	0.6	0.1	8	25
Sub-Saharan Africa	514.4	725.8	1,032.7	2.5	2.2	43.7	53.2	3.1	0.8	0.1	18	40
High income	903.5	1,004.2	1,062.0	0.8	0.4	18.4	67.0	14.6	0.3	0.2	8	12
Europe EMU	293.3	309.3	315.7	0.4	0.1	15.6	66.9	17.5	0.2	0.3	9	10

a. Less than 0.05. b. Includes population of Kosovo until 1999. c. Data are for 1990–99.



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Population dynamics

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. Estimates for the years before and after the censuses are interpolations or extrapolations based on demographic models. Errors and undercounting occur even in high-income countries; in developing countries such errors may be substantial because of limits in the transport, communications, and other resources required to conduct and analyze a full census.

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

Of the 152 economies listed in the table, 119 (about 78 percent) conducted a census between 1995 and 2005. The currentness of a census, along with the availability of complementary data from surveys or registration systems, is one of many objective ways to judge the quality of demographic data. In some European countries registration systems offer complete information on population in the absence of a census. See *Primary data documentation* for the most recent census or survey year and for the completeness of registration.

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

The growth rate of the total population conceals the fact that different age groups may grow at very different rates. In many developing countries the population under age 15 was previously growing rapidly but is now starting to shrink. Previously high fertility rates and declining mortality rates are now reflected in the larger share of the working-age population.

Dependency ratios take into account variations in the different age groups: the proportions of children, elderly people, and working-age people in the population. Separate calculations of young-age and old-age dependency suggest the burden of dependency that the working-age population must bear in relation to children and the elderly. But dependency ratios show only the age composition of a population, not economic dependency. Some children and elderly people are part of the labor force, and many working-age people are not.

The vital rates shown in the table are based on data derived from birth and death registration systems, censuses, and sample surveys conducted by national statistical offices and other organizations, or on demographic analysis. The estimates for 2004 for many countries are national projections based on extrapolations of levels and trends measured in earlier years.

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

The United Nations Statistics Division monitors the completeness of vital registration systems. The share of countries with at least 90 percent complete vital registration increased from 45 percent in 1988 to 54 percent in 2004. 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 deaths and fewer than 40 percent of infant 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. From 1990 to 2000 the number of migrants in high-income countries increased by 23 million. About 175 million people currently live outside their home country, accounting for about 3 percent of the world's population. Estimating international migration is difficult. At any time many people are located outside their home country as tourists, workers, or refugees or for other reasons. Standards relating to the duration and purpose of international moves that qualify as migration vary, and accurate estimates require information on flows into and out of countries that is difficult to collect.

Definitions

• Total population of an economy includes all residents regardless of legal status or citizenshipexcept for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. The values shown are midyear estimates for 1990 and 2004 and projections for 2020. • Average annual population growth rate is the exponential change for the period indicated. See Statistical methods for more information. • Population age composition refers to the percentage of the total population that is in specific age groups. • Dependency ratio is the ratio of dependents-people younger than 15 or older than 64—to the working-age population—those ages 15-64. • Crude death rate and crude birth rate are the number of deaths and the number of live births occurring during the year, per 1,000 population, estimated at midyear. Subtracting the crude death rate from the crude birth rate provides the rate of natural increase, which is equal to the population growth rate in the absence of migration.

Data sources

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



2.2 Labor force structure

	1	Labor force par	ticipation rat	e	Labor force					
	Ma	_	% ages 15–64 Female		Tota millio		Ages 15 and older average annual % growth		nale or force	
	1990	2004	1990	2004	1990	2004	1990-2004	1990	2004	
Afghanistan	88.7		38.2		5.0			28.4		
Albania	86.3	 76.3	63.3	55.1	1.6	1.4	-1.0	40.2	42.1	
Algeria	81.0	83.3	23.7	37.0	7.2	12.9	4.2	22.6	30.2	
Angola	90.9	92.2	76.0	75.7	4.5	6.8	2.9	46.4	45.8	
Argentina	84.7	82.4	43.5	59.9	13.0	17.9	2.3	34.4	42.4	
Armenia	89.7	66.4	76.7	55.6	1.9	1.3	-3.0	47.7	48.9	
Australia	84.4	81.0	61.5	67.0	8.4	10.2	1.3	41.3	45.3	
Austria	80.1	77.6	55.3	63.3	3.5	3.9	0.8	40.8	44.4	
Azerbaijan	80.6	78.0	68.5	65.5	3.3	4.0	1.4	47.4	47.4	
Bangladesh	89.8	88.1	64.5	55.4	46.9	62.4	2.0	40.2	37.0	
Belarus	82.2	72.5	72.4	66.5	5.3	4.8	-0.7	48.6	49.2	
Belgium	71.3	72.7	46.2	56.9	3.9	4.5	0.9	39.0	43.2	
Benin	90.0	86.7	59.2	55.0	2.0	3.2	3.3	40.8	38.5	
Bolivia	80.9	84.0	49.9	63.9	2.5	4.0	3.4	39.2	43.5	
Bosnia and Herzegovina Botswana	82.4 76.0	78.3 68.6	66.1 58.9	69.4 47.2	2.3 0.5	2.0 0.6	-0.7 1.3	44.7 45.2	47.8 41.9	
Brazil	76.0 88.8	84.1	58.9 47.6	60.6	62.4	89.9	2.6	45.2 35.0	41.9	
Bulgaria	77.8	63.0	72.3	53.3	4.4	3.1	-2.5	48.0	46.2	
Burkina Faso	92.1	90.4	79.3	79.5	3.8	5.6	2.8	46.3	46.6	
Burundi	90.7	93.0	91.8	92.8	2.8	3.7	1.9	52.6	52.2	
Cambodia	86.7	81.3	81.0	78.0	4.4	6.6	2.9	52.6	51.5	
Cameroon	83.5	81.6	58.2	54.1	4.4	6.2	2.4	41.5	39.8	
Canada	84.9	82.5	68.3	72.4	14.7	17.4	1.2	44.0	46.2	
Central African Republic	89.4	89.4	71.7	70.9	1.4	1.8	2.1	47.0	46.2	
Chad	79.0	77.4	64.7	66.0	2.3	3.6	3.0	46.0	46.8	
Chile	80.9	76.7	35.2	40.6	5.0	6.4	1.8	30.5	34.6	
China	88.9	88.0	79.1	76.2	650.1	768.0	1.2	44.8	44.6	
Hong Kong, China	85.5	81.4	53.0	61.2	2.9	3.6	1.7	36.3	45.8	
Colombia	85.0	85.3	48.5	65.0	14.1	21.8	3.1	36.9	44.0	
Congo, Dem. Rep.	91.2	91.1	62.6	63.1	15.0	22.3	2.8	41.6	41.2	
Congo, Rep. Costa Rica	86.3 87.6	86.6 84.9	57.7 35.3	56.2 47.2	1.0 1.2	1.5 1.9	3.0	41.5 27.6	40.3 34.5	
Côte d'Ivoire	90.3	89.1	44.5	40.2	4.6	6.7	2.6	30.2	29.3	
Croatia	76.9	71.4	55.0	57.4	2.2	2.0	-0.9	42.1	44.8	
Cuba	79.5	82.4	43.5	50.5	4.5	5.3	1.2	34.8	37.3	
Czech Republic	82.2	77.7	74.1	63.7	5.5	5.2	-0.4	47.4	44.9	
Denmark	87.1	82.9	77.6	74.3	2.9	2.8	-0.2	46.1	46.6	
Dominican Republic	85.6	84.1	37.8	47.5	2.6	3.8	2.5	29.6	35.3	
Ecuador	85.9	85.2	33.6	62.7	3.7	6.2	3.7	27.8	42.0	
Egypt, Arab Rep.	76.7	76.6	27.6	21.6	16.6	22.3	2.1	26.3	21.8	
El Salvador	81.9	79.5	53.5	49.7	2.0	2.7	2.3	41.2	39.6	
Eritrea	92.6	90.7	63.1	59.9	1.2	1.7	2.4	42.4	41.1	
Estonia	83.0	73.7	76.0	64.3	0.9	0.7	-1.8	49.9	49.3	
Ethiopia	92.3	90.9	74.5	73.5	22.6	30.9	2.2	44.9	44.9	
Finland	79.0	76.8	72.2	72.7	2.6	2.6	0.2	47.2	47.8	
France	75.0	73.8	57.0	62.4	24.8	26.9	0.6	43.3	45.9	
Gabon Combin The	85.5	84.0	65.5	64.2	0.4	0.6	2.7	43.9	43.4	
Gambia, The	86.2	86.7	63.3	60.4	0.4	0.6	3.5	43.4	41.7	
Georgia Germany	78.2 81.4	76.2 79.2	79.1 56.8	53.7 66.5	2.9 38.3	2.3 40.8	-1.7 0.5	52.3 40.4	43.9 44.9	
Ghana	81.4 80.5	79.2 75.8	77.5	72.0	38.3 6.7	9.6	2.5	48.9	44.9	
Greece	76.7	73.6 78.6	43.1	54.8	4.2	5.1	1.4	36.2	40.5	
Guatemala	90.7	84.8	30.2	35.1	2.9	4.0	2.3	24.7	31.1	
Guinea	90.8	88.9	82.8	82.7	3.0	4.3	2.6	46.2	46.5	
Guinea-Bissau	91.4	93.0	60.5	62.9	0.4	0.6	2.9	40.3	40.9	
Haiti	82.7	83.1	59.1	57.4	2.6	3.6	2.2	43.3	41.7	
	•	•			•••••••••••••••••••••••••••••••••••••••				•	

Labor force structure

Labor force participation rate Labor force Ages 15 and older % ages 15-64 Total average annual Female % growth 1990 2004 1990 2004 1990 2004 1990-2004 1990 2004 89.0 90.5 54.6 3.0 4.4 27.7 36.9 Honduras 34.6 1.6 -0.5 45.0 Hungary 74.4 66.9 57.3 53.4 4.5 4.2 44.5 India 86.6 84.4 40.3 36.1 335.1 427.2 1.7 29.9 28.3 52.8 38.4 37.8 Indonesia 82.9 87.0 52.1 75.3 105.1 2.4 22.5 15.6 20.2 Iran, Islamic Rep. 82.3 75.4 39.1 26.2 3.7 33.0 Iraq 77.8 16.4 4.7 16.8 Ireland 77.9 80.1 42.3 60.7 1.3 2.0 2.9 34.3 42.5 Israel 68.1 65.9 46.8 58.1 1.6 2.7 3.4 40.5 46.8 23.9 Italy 76.7 74.5 44.6 49.3 24.0 0.0 37.1 39.6 83.0 78.4 71.3 60.0 0.3 46.8 43.7 Jamaica 1.1 1.2 Japan 83.1 85.0 57.1 60.4 63.9 67.0 0.3 40.6 41.0 Jordan 71.3 79.5 18.6 28.3 8.0 1.8 6.3 18.8 24.1 Kazakhstan 81.6 80.1 68.0 73.1 7.7 8.0 0.2 46.3 49.4 76.2 90.6 89.6 71.4 9.8 15.1 46.0 44.0 Kenya 3.1 Korea, Dem. Rep. 84.0 80.7 56.4 50.0 9.7 10.6 0.6 39.3 38.6 49.7 19.1 Korea, Rep. 75.3 77.3 54.0 24.1 1.7 39.3 40.7 Kuwait 83.1 86.5 35.6 49.3 0.9 1.3 3.2 21.8 24.8 Kyrgyz Republic 78.0 77.6 65.0 60.0 1.8 2.2 1.4 46.2 44.3 82.3 56.3 2.8 Lao PDR 81.6 56.4 1.5 2.3 41.3 40.7 Latvia 83.4 71.9 75.0 62.8 1.5 1.1 -2.0 49.5 48.6 Lebanon 81.5 83.7 34.4 35.0 0.9 1.4 2.7 31.8 30.0 Lesotho 86.8 74.3 59.4 49.2 0.6 0.6 0.4 46.5 44.7 55.9 85.2 84.0 55.7 0.8 1.2 2.9 39.4 39.9 Liberia Libya 81.4 82.3 19.9 32.3 1.3 2.2 4.2 17.3 26.3 70.4 Lithuania 81.7 72.8 65.9 1.9 1.6 -1.1 48.1 49.1 Macedonia, FYR 77.5 73.2 52.8 47.8 0.9 0.9 0.1 40.0 39.1 Madagascar 83.6 86.3 79.5 79.8 5.4 8.3 3.1 49.2 48.4 4.5 49.8 90.0 86.2 86.0 50.3 Malaw 91.7 5.8 1.9 82.7 83.8 45.3 47.6 7.1 10.7 2.9 34.8 35.6 Malavsia 85.9 75.1 5.3 2.5 47.3 Mali 90.7 74.7 3.8 46.0 Mauritania 87.6 85.0 57.8 56.5 8.0 1.2 2.7 40.7 40.4 Mauritius 86.6 84.4 45.2 46.4 0.5 0.6 1.4 33.9 35.3 36.2 29.5 42.4 Mexico 85.4 83.8 42.2 2.6 30.6 34.7 Moldova 81.5 70.4 65.4 2.1 0.0 48.6 47.8 75.8 2.1 83.7 83.2 59.3 56.3 1.2 2.4 41.0 40.2 Mongolia 8.0 25.6 Morocco 83.9 83.8 28.5 7.5 10.9 2.7 23.7 25.4 88.0 88.1 85.1 9.1 2.6 54.0 53.5 Mozambique 83.1 6.3 87.7 71.2 70.0 20.0 26.9 2.1 44.6 44.9 Myanmar 89.2 Namibia 67.1 65.0 50.6 48.8 0.4 0.6 2.6 44.1 43.6 82.5 80.6 50.4 52.3 7.1 10.2 2.6 37.9 40.3 Nepal Netherlands 80.0 84.5 53.1 69.0 6.9 8.6 1.5 39.1 44.0 83.0 83.4 63.2 70.5 1.7 2.1 46.3 New Zealand 1.7 43.1 36.8 36.7 30.1 29.7 Nicaragua 87.0 87.2 1.3 2.0 3.1 95.5 72.4 72.9 5.7 42.6 41.9 Niger 94.7 3.6 3.4 Nigeria 86.9 85.9 49.0 46.8 32.7 46.7 2.5 36.2 34.8 69.9 47.2 Norway 82.5 83.7 77.2 2.2 2.5 0.9 44.7 Oman 83.8 82.8 15.7 22.7 0.6 0.9 3.6 11.1 15.6 Pakistan 88.1 85.7 28.8 33.0 35.2 54.5 3.1 23.3 26.5 Panama 82.7 83.4 41.6 53.8 0.9 1.4 3.1 32.5 38.3 Papua New Guinea 75.9 75.1 72.3 72.7 1.8 2.5 2.5 46.4 47.6 86.9 Paraguay 85.7 54.4 67.7 1.6 2.8 3.7 38.3 43.1 82.0 83.5 48.6 60.3 8.5 13.0 3.0 37.0 41.6 Peru Philippines 83.7 84.6 48.7 55.5 23.4 35.9 3.1 36.6 39.4 Poland 79.2 69.2 65.1 57.8 18.6 17.3 -0.5 45.8 45.7 79.6 67.1 59.2 4.8 5.5 42.7 Portugal 82.6 1.0 46.2 35.0 44.0 35.8 41.2 Puerto Rico 67.4 67.8 1.2 1.4 1.6



2.2 Labor force structure

		Labor force par	ticipation rate	•			Labor force		
	M: 1990	% ages ale 2004		nale 2004	Tot milli 1990		Ages 15 and older average annual % growth 1990–2004	Fem % of lab 1990	
Romania	77.2	68.8	61.1	55.6	11.0	10.4	-0.4	44.3	46.1
Russian Federation	81.6	75.2	71.7	66.9	77.2	73.1	-0.4	48.3	49.0
Rwanda	88.3	85.1	87.4	82.4	3.1	4.1	2.0	51.0	51.4
Saudi Arabia	81.3	80.5	15.6	18.2	5.1	7.7	2.9	11.4	14.8
Senegal	87.8	83.9	63.4	58.7	3.1	4.5	2.6	43.4	42.4
Serbia and Montenegro	77.0	75.9	54.9	53.3	4.9 ^a	3.9	0.0 ^b	41.7	41.7
Sierra Leone	90.2	94.4	55.6	58.3	1.7	2.3	2.1	38.5	38.4
Singapore	83.9	83.2	54.2	56.7	1.6	2.2	2.3	38.8	39.8
Slovak Republic	82.5	76.5	70.6	62.4	2.6	2.7	0.1	46.3	45.2
Slovenia	76.9	75.2	63.3	66.1	1.0	1.0	0.3	45.5	46.2
Somalia	95.8	95.1	63.1	61.0	2.8	3.4	1.3	39.9	39.3
South Africa	81.6	82.1	57.4	49.7	14.4	19.1	2.0	41.6	38.4
Spain	80.3	80.5	41.9	56.3	16.0	20.3	1.7	34.3	40.8
Sri Lanka	82.9	81.8	48.2	38.6	7.3	8.3	0.9	34.8	30.5
Sudan	78.9	72.6	27.8	24.2	7.8	10.3	2.0	26.0	24.8
Swaziland	79.6	74.9	39.6	33.2	0.2	0.3	2.7	38.0	33.1
Sweden	86.0	79.2	81.9	75.1	4.7	4.7	-0.1	47.7	47.4
Switzerland	90.2	88.0	62.8	74.7	3.7	4.2	0.9	40.4	46.3
Syrian Arab Republic	83.7	88.8	29.7	39.3	3.7	7.3	4.9	26.2	30.4
Tajikistan	77.6	66.1	56.2	49.7	1.9	2.1	0.8	42.2	43.6
Tanzania	92.1	90.8	90.2	88.4	12.8	18.9	2.8	50.2	49.5
Thailand	90.6	84.6	79.2	70.7	30.4	35.3	1.1	46.6	46.0
Togo	90.8	90.4	55.2	51.9	1.5	2.4	3.1	38.5	37.0
Trinidad and Tobago	79.7	82.2	45.9	51.2	0.5	0.6	2.0	36.1	38.9
Tunisia	79.2	78.3	22.1	30.4	2.4	3.7	3.0	21.5	27.1
Turkey	84.5	80.3	36.2	29.0	21.0	26.5	1.7	29.4	26.4
Turkmenistan	80.0	76.5	69.1	65.0	1.5	2.1	2.4	46.9	46.6
Uganda	92.4	87.8	82.0	81.2	7.8	11.5	2.8	47.5	48.2
Ukraine	79.7	72.3	70.7	63.1	26.3	22.4	-1.1	49.2	49.1
United Arab Emirates	92.4	92.1	25.9	38.2	0.9	2.6	7.5	9.8	13.2
United Kingdom	87.9	82.2	67.2	69.2	29.4	30.4	0.2	44.0	45.9
United States	85.1	81.7	67.5	70.1	129.3	153.7	1.2	44.4	46.2
Uruguay	85.9	86.1	54.3	65.7	1.4	1.7	1.6	39.9	43.9
Uzbekistan	78.5	75.6	64.4	60.2	8.2	11.1	2.2	45.4	44.5
Venezuela, RB	82.4	85.5	39.8	60.1	7.3	12.4	3.8	31.8	40.3
Vietnam	85.5	82.6	79.4	77.6	31.3	43.1	2.3	48.3	48.5
West Bank and Gaza	67.0	69.0	9.5	10.9	0.4	0.7	4.5	11.9	13.1
Yemen, Rep.	76.1	77.4	28.6	30.4	3.0	5.7	4.7	27.3	27.7
Zambia	90.4	91.5	67.8	68.3	3.5	4.9	2.4	43.2	42.4
Zimbabwe	81.0	85.1	69.9	64.8	4.3	5.7	2.1	47.2	44.2
World	85.5 w	83.9 w	58.9 w	57.8 w	2,390.7 t	2,981.1 t	1.6 w	39.9 w	40.0 w
Low income	87.0	85.0	50.7	47.8	709.0	956.4	2.1	35.7	35.0
Middle income	85.8	84.3	64.0	62.7	1,254.1	1,536.1	1.4	41.8	42.1
Lower middle income	86.6	85.5	66.3	65.2	1,033.5	1,280.1	1.5	42.0	42.4
Upper middle income	82.5	78.9	54.7	52.4	220.6	256.0	1.1	40.5	40.5
Low & middle income	86.3	84.6	59.0	56.7	1,963.1	2,492.5	1.7	39.6	39.3
East Asia & Pacific	87.8	87.2	74.3	71.6	856.8	1,049.4	1.4	44.1	43.8
Europe & Central Asia	80.8	74.6	65.1	58.1	223.8	218.5	-0.2	45.6	44.9
Latin America & Carib.	85.9	83.8	43.8	55.3	171.0	248.8	2.7	34.0	40.2
Middle East & N. Africa	79.9	79.1	24.5	30.5	64.9	104.6	3.4	22.9	27.2
South Asia	86.9	84.9	41.7	38.0	437.0	572.7	1.9	30.6	29.3
Sub-Saharan Africa	87.8	86.4	65.1	62.7	209.7	298.5	2.5	43.0	42.2
High income	82.1	80.6	58.6	63.5	427.6	488.5	1.0	41.3	43.6
Europe EMU	78.5	77.5	51.6	60.4	130.5	144.5	0.7	39.5	43.4

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

Labor force structure

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

For international comparisons the most comprehensive source is labor force surveys, which can be designed to cover all noninstitutionalized civilians, all branches and sectors of the economy, and all categories of workers, including people who hold multiple jobs. 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 both concepts and methodologies. Most important to data comparability is the nature of the data source. Labor force data obtained from population censuses are often based on a limited number of questions on the economic characteristics of individuals, with little scope to probe. The resulting data are often contrary to labor force survey data and often vary considerably from economy to economy, depending on the scope and coverage of the census. Establishment censuses and surveys on the other hand provide data only on the employed population, leaving out unemployed workers, workers in small establishments, and workers in the informal sector (ILO, Key Indicators of the Labour Market 2001-2002).

The reference period of the census or survey is another important source of differences: in some countries data refer to people's status on the day of the census or survey or during a specific period before the inquiry date, while in others the data are recorded without reference to any period. In devel-

oping countries, where the household is often the basic unit of production and all members contribute to output, but some at low intensity or irregular intervals, the estimated labor force may be significantly smaller than the numbers actually working.

The labor force estimates in the table were calculated by World Bank staff by applying labor force participation rates from the ILO database to 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 labor force estimates in this year's World Development Indicators are for the population ages 15 and older. In previous editions the labor force included children under age 15. For this reason, labor force estimates are not comparable across editions. The labor force participation rate of the population ages 15-64 provides an indication of the relative size of the supply of labor. But in many developing countries children under age 15 work full or part time. And in some high-income countries many workers postpone retirement past age 65. As a result, labor force participation rates calculated in this way may systematically over- or under-estimate

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

Definitions

- Labor force participation rate is the proportion of the population ages 15–64 that is economically active: all people who supply labor for the production of goods and services during a specified period.
- Total labor force comprises people ages 15 and older who meet the ILO definition of the economically active population. It includes both the employed and the unemployed. 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 labor force participation rates are from the ILO database *Estimates and Projections of the Economically Active Population, 1980–2020*, fifth edition. The ILO publishes estimates of the economically active population in its *Yearbook of Labour Statistics*. Labor force numbers were calculated by World Bank staff, applying labor force participation rates from the ILO database to population estimates.





2.3 Employment by economic activity

		Agric	ulture			Indu	ıstry			Serv	vices	
	Mal % of m employ 1990–92 ª	nale	% of 1	male female oyment 2000-04 ^a	% of	ale male pyment 2000–04 ^a	% of t	male female oyment 2000-04 ^a	Ma % of emplo 1990–92 ^a	male	% of 1	male female pyment 2000–04 ª
Afghanistan												
Albania												
Algeria												
Angola												
Argentina	Op, c	2 ^c	O _p , c	1 ^{b, c}	40 ^c	28 ^c	18 ^c	9c	59 ^c	70 ^c	81 ^c	90c
Armenia		••								••		
Australia	6	5 ^c	4	3c	32	30°	12	10 ^c	62	65 ^c	85	87 ^c
Austria	6	5	8	6	47	43	20	13	46	51	72	81
Azerbaijan		41		39		15		8		44		54
Bangladesh	54	53	85	77	16	8	9	9	26	30	2	12
Belarus				·					·····			
Belgium	3	2	2	1	38	35	13	12	57	63	84	87
Benin												
Bolivia	3 ^c	6	1 ^c	3	42 ^c	39	17 ^c	14	55 ^c	55	82 ^c	82
Bosnia and Herzegovina											••	
Botswana		17		6		31		17		51		76
Brazil	31 ^c	23 ^c	25 ^c	16 ^c	27 ^c	28 ^c	10 ^c	13 ^c	43 ^c	49 ^c	65 ^c	71 ^c
Bulgaria Burkina Faso		12		8		37	<u>.</u>	29		51		64
Burundi		••			••	••	•••	••	••	••	••	••
Cambodia	••	 72	••	 75	••			10	••	20	••	 15
Cameroon	 53		 68		 14		4		 26		23	•••••
Canada	6 ^c	4 ^c	3c	2 ^c	31 ^c	32 ^c	11 ^c	 11°	63 ^c	64 ^c	86 ^c	 87 ^c
Central African Republic												
Chad												
Chile	24	18	6	5	32	29	15	12	45	53	79	83
China												
Hong Kong, China	1	Op	Op	Op	37	25	27	8	63	75	73	92
Colombia	2 ^c	31 ^c	1 ^c	8 ^c	35 ^c	21 ^c	25 ^c	17 ^c	63 ^c	49 ^c	74 ^c	75 ^c
Congo, Dem. Rep.												
Congo, Rep.										••		
Costa Rica	32	21	5	4	27	26	25	14	41	52	69	81
Côte d'Ivoire										••		
Croatia		16		18		39		19		45		64
Cuba										••		
Czech Republic	9	6	7	3	55	50	33	27	36	45	61	70
Denmark	7	5 ^c	3	2 ^c	37	34 ^c	16	12 ^c	56	61 ^c	81	86 ^c
Dominican Republic	26	23	3	2	23	24	21	15	52	53	76	83
Ecuador	10 ^c	11 ^c	2 ^c	5 ^c	29 ^c	28 ^c	17 ^c	14 ^c	62 ^c	61 ^c	81 ^c	81 ^c
Egypt, Arab Rep.	35	28	52	28	25	23	10	10	41	50	37	62
El Salvador	48	29	15	4	23	27	23	22	29	45	63	74
Eritrea												72
Estonia Ethiopia	23	9	13	4	42	42	30	23	36	50	57	73
Ethiopia Finland	12	7	6	3			 15			 54	 78	 84
France			•••••		39	39	15	13	49		•••••	••••••••••
Gabon	••	••	••	••	••	••		••	••	••	••	••
Gambia, The	····	····			···········	••	<u> </u>	••	<u> </u>		·············	••
Georgia	••	 53		57		12		4		 35		39
Germany	4	3	4	2	51	44	24	17	45	53		39 81
Ghana	66	60	59	50	10	14	10	15	23	27	32	36
Greece	20 ^c	15 ^c	26 ^c	18 ^c	32 ^c	30°	17 ^c	11 ^c	48 ^c	56 ^c	56 ^c	71 ^c
Guatemala		50		18		18		23		27		56
Guinea												
Guinea-Bissau												
Haiti												
	••••		•		•		•	· * ······	•		••••••	•••••

		Agric	ulture		ı	Indi	ustry		1	Sen	/ices	
		Agne	unuio			mac	,			00.		
	Mal % of m employi 1990–92 a	nale	Fem % of fe employ 1990–92 ^a	male ment	% of	ale male yyment 2000–04 ^a	Fem % of fe employ 1990–92 ^a	emale yment	Ma % of emplo 1990–92 ^a	male yment	Fem % of fe emplo 1990–92 ^a	emale yment
Ionduras	53 ^c	52 ^c	6 ^c	9 ^c	18 ^c	19 ^c	25 ^c	26 ^c	29 ^c	29 ^c	69 ^c	66 ^c
ungary	15	8	8	3	42	42	29	24	44	50	64	74
ndia												
ndonesia	55	43	56	45	10	13	12	14	35	45	32	42
an, Islamic Rep.				···								
aq eland	 19	 10	3	2	 33	 39	 18	 13	 48	 51	 78	 85
rael	5	3	2	1	38	33	15	13	57	64	78 83	88
aly	8	6	9	4	38	40	22	20	54	55	70	76
amaica	36	28	16	8	25	26	12	6	39	46	72	84
apan	6	5	7	5	40	36	27	19	54	59	65	75
ordan												
azakhstan		36		34		23		10		40		56
enya orea, Dem. Rep.	19 ^c	••	20 ^c		23 ^c		9c	••	58 ^c	••	71 ^c	
orea, Dem. Rep. orea, Rep.	 12 ^c	 8 ^c	17 ^c	 10°	41 ^c	34 ^c	 28 ^c	 18 ^c	47 ^c	 58 ^c	 55 ^c	 72 ^c
uwait												
yrgyz Republic		43		43	••	19	••	10		38		47
ao PDR												
atvia	25	17	14	10	37	35	26	18	38	47	59	71
ebanon				···					····			
esotho iberia		••	••		••	••	••	••		••	••	••
ibya					••						••	
ithuania		21		15		35		22		44		64
lacedonia, FYR		22		22		36		31		42	••	47
1adagascar		77		79		7		6		16		15
1alawi		••								••		
lalaysia •	23	16	20	11	31	35	32	27	46	49	48	62
1ali 1auritania					••	••		••		••		
lauritius	17	 11	11	6	32	36	64	40	48	 53	 24	 54
1exico	33	22	10	5	25	28	19	20	41	50	71	75
1oldova		44		42		20		12		35		46
1ongolia		44		40		17		14		39		46
lorocco		39		57		21		19		40		25
lozambique												
1yanmar Iamibia	 45	33	 52	29	21	17	8	7	34	49	 40	63
epal				 								
etherlands	 5	4	3	2	33	29	10	9	60	64	 82	 87
ew Zealand	13 ^c	10 ^c	8c	6 ^c	31 ^c	32 ^c	13 ^c	11 ^c	56 ^c	58 ^c	80°	83 ^c
icaragua		43		10		19		17		32		52
iger 												
igeria												
orway man	8	6 7	3	2 5	35	35 11	10	9 14	57	60 82	86	89 80
akistan	45	38	69	65	 20	22	 15	16	 35	82 40	 16	20
anama	35	25	3	4	20	22	11	9	45	53	85	88
apua New Guinea												
araguay	3 ^c	39	O _p , c	20	33 ^c	19	19 ^c	10	64 ^c	42	80°	70
'eru	1 ^c	1 ^c	O _p , c	O _c	30°	28 ^c	13 ^c	11 ^c	69 ^c	71 ^c	87 ^c	89 ^c
	F.0	4.5		0.5	47	4.0	4.4	4.0		~-		00
hilippines	53	45	32	25	17	18	14	12	29	37	55	63
hilippines oland ortugal	53 11 ^c	45 19 12	32 13 ^c	18 14	 40°	38 43	 24 ^c	12 17 20	 49°	37 43 45	 63°	65 66



2.3 Employment by economic activity

		Agric	ulture			Indu	ıstry			Serv	vices	
	% of	ale male syment	% of	male female oyment	% of	ale male pyment	% of f	nale emale pyment	% of	lale f male oyment	% of 1	male female pyment
	1990-92a	2000-04 ^a	1990-92ª	2000-04 ^a	1990-92ª	2000-04 ^a	1990-92 ^a	2000-04 ^a	1990-92ª	2000-04 ^a	1990-92ª	2000-04
Romania	29	34	38	37	44	34	30	25	28	32	33	38
Russian Federation	••	12		8		39		23		48		70
Rwanda										••		
Saudi Arabia		5		1		24		1		71		98
Senegal												
Serbia and Montenegro												
Sierra Leone	••									••		
Singapore	1	Op	Op	Op	36	29	32	18	63	70	68	82
Slovak Republic		8c		4 ^c		49 ^c		26 ^c		43 ^c		71 ^c
Slovenia		8		8	•••	46		26		45		65
Somalia												
South Africa		13		7		33		14		54		 79
Spain	11	7	8	4	41	42	16	14	48	52	76	82
Sri Lanka		32 ^c		40 ^c		40°		35°		29 ^c		25 ^c
Sudan		•	•		•	•	•	•	•		•••••	•••••
Swaziland	••		••	••	••	••	••	••				
Sweden	5	3	2	1	40	35	12	10	55	62	 86	 89
Switzerland	5	5	4	3	39	33	15	12	57	62	81	85
		24		58		31		7	•	45	••••••	35
Syrian Arab Republic	••	•						•••••		··•·······		30
Tajikistan Tananaia						4 ^c		٠.				
Tanzania	78 ^c	80°	90°	84 ^c	7 ^c		1 ^c	1 ^c	15 ^c	16 ^c	8c	15 ^c
Thailand	59	47	62	43	17	21	13	19	24	33	25	39
Togo												
Trinidad and Tobago	15	10	6	2	34	37	14	14	51	53	80	84
Tunisia - ·												
Turkey	33	24	72	59	26	26	11	13	41	49	17	28
Turkmenistan	···	<u></u>		···			···	···	······	···	······································	
Uganda	91	60	91	77	4	11	6	5	5	29	3	18
Ukraine		21		17		38		21		41	••	62
United Arab Emirates		9		Op		36		14		55		86
United Kingdom	3	2	1	1	41	35	16	10	55	64	82	89
United States	4 ^c	4 ^c	1 ^c	1 ^c	33 ^c	31 ^c	14 ^c	11 ^c	62 ^c	65 ^c	85 ^c	88 ^c
Uruguay	7 ^c	7 ^c	1 ^c	2 ^c	36 ^c	29 ^c	21 ^c	12 ^c	57 ^c	65 ^c	78 ^c	86 ^c
Uzbekistan												
Venezuela, RB	17	16	2	2	32	25	16	11	52	59	82	86
Vietnam		58		62		20		13		23		25
West Bank and Gaza		12		34		30		8		57		57
Yemen, Rep.												
Zambia												
Zimbabwe												
World	w	w	w	w	w	w	w	w	w	w	w	w
Low income												
Middle income												
Lower middle income												
Upper middle income		16		11		33		19		51		71
Low & middle income												
East Asia & Pacific												
Europe & Central Asia		20		19		35		20		45		61
Latin America & Carib.	20	21	14	9	30	27	14	14	50	52	72	76
Middle East & N. Africa												
South Asia												
Sub-Saharan Africa												
High income	6	4	4	3	38	35	19	14	 56	60	77	83
	7	 5	7	4	43	42	21	17	49	53	72	80

Note: Data across sectors may not sum to 100 percent because of workers not classified by sectors.

a. Data are for the most recent year available. b. Less than 0.5. c. Limited coverage.

Employment by economic activity

About the data

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

Data on employment are drawn from labor force surveys, household surveys, establishment censuses and surveys, 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 many differences in how countries define and measure employment status, particularly for students, part-time workers, members of the armed forces, and household or contributing family workers. Where the armed forces are included, they are allocated to the service sector, causing that sector to be somewhat overstated relative to the service sector in economies where they are excluded. Where data are obtained from establishment surveys, they cover only employees; thus self-employed and contributing family workers are excluded. In such cases the employment share of the agricultural sector is severely underreported. Moreover, the age group and area covered could differ by country or change over time within a country. For detailed information on breaks in series, consult the original source.

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

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

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

The distribution of economic activity by gender reveals some clear patterns. Industry accounts for a larger share of male employment than female employment worldwide, whereas a higher proportion of women work in the services sector. Employment in agriculture is also male-dominated, although not as much as industry. Segregating one sex in a narrow range of occupations significantly reduces economic efficiency by reducing labor market flexibility and thus the economy's ability to adapt to change. This segregation is particularly harmful for women, who have a much narrower range of labor market choices and lower levels of pay than men. 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 unclear whether this is a cause or an effect.

Definitions

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

Data sources

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



			Economic	ally activ	e children			Emplo	oyment by e	conomic ac	ctivity ^a	
	Survey		% of children ages 7–14			nically active ages 7–14 Work and	Agric	ulture	children a	nically active ages 7–14 acturing	Ser	vices
	year	Total	Male	Female	Work only	study	Male	Female	Male	Female	Male	Female
Afghanistan												
Albania	2000	36.6	41.1	31.8	43.1	56.9						
Algeria		•										
Angola	1995	5.2	4.9	5.6	77.6	22.4	5.7	7.9	6.2	8.4	82.4	79.9
Argentina	1997	20.7	25.4	16.0	8.6	91.4						
Armenia												
Australia	······································											
Austria	••••••											
Azerbaijan	2000	9.7	12.0	7.3	4.2	95.8						
Bangladesh	2003	17.5	20.9	13.9	63.3	36.7	61.4	64.0	11.6	15.5	25.2	18.3
Belarus												
Belgium			·····									•
Benin						••					·········	
Bolivia	2000	19.2	20.4	18.0	19.7	80.3	77.8	72.9	4.3	3.5	15.0	23.6
Bosnia and Herzegovina	2000	20.2	22.8	17.6	4.0	96.0		•	••••••	••••••	•	••••••
Botswana	2000	•			4.0	30.0	••		••	••	••	••
Brazil	2003	7.1	9.5	4.6	5.8	94.2	64.3	49.8	6.5	9.1	26.8	40.9
	2003	7.1	9.5		ა.ი	94.2	04.3	49.0		••••••	20.6	40.9
Bulgaria Burkina Faso ^b	1000		 CF 4	67.7	 0F 0							
	1998	66.5	65.4	67.7	95.9	4.1	98.0	98.2	0.6	0.5	1.3	1.2
Burundi	2000	37.0	38.4	35.7	48.3	51.7						
Cambodia	2001	52.3	52.4	52.1	16.5	83.5	78.5	73.6	4.7	5.4	15.7	20.4
Cameroon ^b	2001	15.9	14.5	17.4	52.5	47.5	90.4	86.3	1.9	2.3	5.1	8.8
Canada								···				
Central African Republic	2000	67.0	66.5	67.6	54.9	45.1						
Chad	2000	69.9	73.5	66.5	44.6	55.4						
Chile	2003	8.8	10.5	6.9	4.0	96.0	31.5	11.9	7.6	5.8	58.5	80.6
China												
Hong Kong, China			···									
Colombia	2001	12.2	16.6	7.7	23.0	77.0		<u></u>				
Congo, Dem. Rep.	2000	39.8	39.9	39.8	35.7	64.3						
Congo, Rep.	·-•······											
Costa Rica	2002	6.7	9.7	3.5	20.8	79.2	56.5	55.2	8.7	2.7	28.0	42.1
Côte d'Ivoire	2000	40.7	40.9	40.5	46.4	53.6						
Croatia				••								
Cuba												
Czech Republic												
Denmark												
Dominican Republic	2000	12.5	16.7	8.1	7.2	92.8						
Ecuador	2001	17.9	22.1	13.6	25.0	75.0	65.1	69.2	10.7	8.6	21.2	22.1
Egypt, Arab Rep.	1998	6.4	4.0	8.9	60.9	39.1						
El Salvador	2003	12.7	17.1	8.1	19.5	80.5	66.4	17.6	10.8	16.1	21.2	66.3
Eritrea												
Stonia												
thiopia	2001	57.1	67.9	45.9	63.5	36.5	96.5	88.7	0.5	2.8	2.5	6.2
inland												
rance	··•···································											
abon	··•···································											
Sambia, The	2000	25.3	25.4	25.3	41.6	 58.4						
Georgia		•			···•	•		•		•	•	••••••
Germany	·· · ······	····					••		••	••		
Ghana	2000	28.5	28.5	28.4	36.4	63.6	 81.0	 59.1	4.5	7.6	13.8	32.0
Greece	2000	•			30.4	•	01.0	•	··•······	••••••	•	
Guatemala	2000	20.1	25.9	13.0	38 E	61.5	74.5	 30 8	5.9	20.1	147	40.0
	··•···	•	25.9	13.9	38.5	61.5		39.8		20.1	14.7	40.0
Guinea Guinea Riccau	1994	48.3 67.5	47.2 67.4	49.5 67.5	98.6	1.4	••			••		••
Guinea-Bissau	2000	67.5	67.4	67.5	63.7	36.3						
Haiti			••									

		7	
Child	labor		-4

			Economic	ally activ	e children			Emple	oyment by e	economic act	ivity ^a	
	Survey year	Total	% of children ages 7–14 Male	Female		nically active ages 7–14 Work and study	Agric Male	ulture Female	children	mically active ages 7–14 acturing Female	Ser Male	vices Female
Honduras	2002	11.4	16.5	6.1	41.9	58.1	73.6	19.8	5.9	24.4	18.6	55.7
Hungary	2002	11.4						13.0		24.4	10.0	
India	2000	5.2	5.3	5.1	89.8	10.2	70.5	76.6	10.0	15.4	15.9	6.5
Indonesia												
Iran, Islamic Rep.	-											
Iraq	2000	13.7	17.4	9.7	51.7	48.3						
Ireland												
Israel					••							
Italy												
Jamaica												
Japan 		····		···	·•				······································		····	
Jordan	4000											
Kazakhstan	1996	29.7	30.3	29.1	4.4	95.6						
Kenya	1999	6.7	6.9	6.4	44.8	55.2	87.3	74.4	2.5	0.3	8.8	25.3
Korea, Dem. Rep.							••	.		••	••	
Korea, Rep. Kuwait		······································	••	····			••			••	••	
Kyrgyz Republic	1998	 8.6	 9.7	 7.6	 7.0	 93.0	 93.0	 96.3	0.0	0.0	 7.0	 2.7
Lao PDR												
Latvia												
Lebanon	_											
Lesotho	2000	30.8	34.2	27.5	17.6	82.4						
Liberia											••	
Libya											••	
Lithuania EVD	······	····		·····								
Macedonia, FYR	2001	 25 6	26.1	 25.1	 85.1	14.9	 94.1	93.9	0.6	1.4	2.0	2.9
Madagascar Malawi	2001	25.6 10.6	9.4	11.6	17.1	82.9		•				•••••
Malaysia	2000					•	••	••	••	••	••	•
Mali	2001	25.3	32.3	 18.6	68.7	31.3						
Mauritania	2001											
Mauritius	·····											
Mexico ^c	1996	14.7	20.0	9.5	45.6	54.4	61.3	38.3	11.4	12.9	22.6	48.2
Moldova	2000	33.5	34.1	32.8	3.8	96.2						
Mongolia	2000	22.0	23.5	20.6	28.2	71.8					••	
Morocco	1998-99	13.2	13.5	12.8	93.2	6.8	60.8	60.3	8.1	8.5	13.5	6.4
Mozambique												
Myanmar												
Namibia	1999	15.4	16.2	14.7	9.5	90.5	91.5	91.7	0.4	0.4	8.1	8.0
Nepal	1999	47.2	42.2	52.4	35.6	64.4	89.0	86.1	1.2	1.5	9.7	12.3
Netherlands				···								
New Zealand												
Nicaragua	2001	12.1	17.5	6.5	33.3	66.7	73.2	32.0	3.0	10.2	23.3	57.8
Niger		······································		············					······································			
Nigeria		••	••				••			••	••	
Norway Oman		••	••		••		••		••	••	••	
Pakistan	·····						···	···········	·•	••	······································	
Panama	2000	4.0	6.4	1.4	37.5	62.5	 71.1	38.4	1.4	8.0	 27.2	 49.5
Papua New Guinea	2000											
Paraguay	1999	8.1	11.7	4.4	24.2	75.7	61.2	30.9	3.8	4.6	33.1	64.5
Peru	1994	17.7	20.4	15.2	7.3	92.7	78.9	76.3	3.6	3.4	17.5	20.3
Philippines	2001	13.3	16.3	10.0	14.8	85.2	72.6	53.6	3.6	5.3	22.1	41.0
Poland												
Portugal	2001	3.6	4.6	2.6	3.6	96.4	52.7	40.7	11.4	10.7	25.6	47.7
Puerto Rico	•											

			Economic	ally activ	e children			Emplo	oyment by e	conomic ac	tivity ^a	
	Survey year	Total	% of children ages 7–14 Male	Female	% of econom children a Work only		Agric Male	culture Female	children a	nically active ages 7–14 acturing Female	Serv Male	vices Female
	yeai i	iotai	IVIAIC	i emale	work only	Study	i iviale	Temale	iviale	Telliale	iviale	Telliale
Romania		••		••						••		••
Russian Federation							····					
Rwanda	2000	33.1	36.1	30.3	27.5	72.5						••
Saudi Arabia												
Senegal	2000	35.4	43.2	27.7	56.2	43.8						
Serbia and Montenegro				····			····				····	
Sierra Leone	2000	74.0	24.7	72.7	53.8	46.2						
Singapore												
Slovak Republic												
Slovenia				••						••	••	
Somalia												
South Africa	1999	27.7	29.0	26.4	5.1	94.9						
Spain												
Sri Lanka												
Sudan	2000	19.1	21.5	16.8	55.9	44.1						
Swaziland	2000	11.2	11.4	10.9	14.0	86.0						
Sweden												
Switzerland												
Syrian Arab Republic												
Tajikistan						······································						
Tanzania	2001	40.4	41.5	39.2	40.0	60.0	83.5	73.1	0.1	0.2	16.3	26.7
Thailand												
Togo	2000	72.5	73.4	71.6	28.4	71.6						
Trinidad and Tobago	2000	3.9	5.2	2.8	12.8	87.2		••••••				
Tunisia	2000		0.2	2.0		01.2				••		
Turkey	1999	4.5	5.2	3.8	66.8	33.2	52.7	83.4	19.9	10.2	10.2	1.8
Turkmenistan	1000	1.0	0.2	0.0	00.0			00.1	••••••	••••••••••••		•••••••••
Uganda	2002-03	13.1	15.0	11.3	18.3	 81.7	94.3	92.3	1.5	1.3	3.2	6.0
Ukraine	2002 03	10.1						••••••				
United Arab Emirates		••	••				••	••	•••••			
United Kingdom	·····•		••	••		••	••		••	••	••	••
United States	·····		••	••		••	••			••		••
		••	••	••	••	••	••	••	••	••	••	••
Uruguay Uzbekistan	2000	101		14.0			••					
	2000	18.1	22.0	14.0	4.1	95.9			7.2	 0.E		
Venezuela, RB	2003	9.1	11.4	6.6	17.6	82.4	35.2	9.2	7.3	9.5	53.9	81.0
Vietnam												
West Bank and Gaza	4655											
Yemen, Rep.	1999	13.1	12.4	14.0	64.3	35.7	87.2	96.6	1.2	0.8	10.8	1.8
Zambia	1999	14.4	15.0	13.9	72.8	27.2	92.7	88.1	0.3	0.8	6.6	11.0
Zimbabwe												

a. Shares by major industrial category do not sum to 100 percent because of a residual category not included in the table. b. Data are for children ages 10–14. c. Data are for children ages 12–14.

About the data

The data in the table refer to children's economic activity, a broader concept than child labor. According to a gradually emerging consensus, child labor is a subset of children's economic activity or children's work that is injurious and therefore targeted for elimination.

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

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

Household survey data generally include information on work type—for example, whether a child is working for pay in cash or in kind or is involved in unpaid work, whether a child is working for someone

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

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

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

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

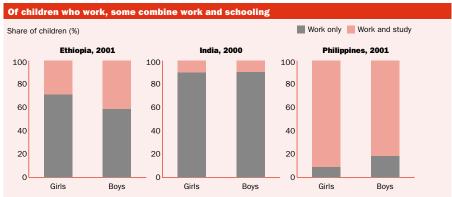
Definitions

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

Data sources

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

2.4a



A little light work that does not interfere with education is not necessarily bad, but long working hours are likely to have serious health and developmental consequences for children. Studies suggest more children who work are working long hours. Source: Understanding Children's Work project.





			Unemp	loyment			u	Long-term nemploymer	nt		employmen itional attai	
	% of	ale male force 2000–04 ^a	% of f	nale emale force 2000–04 ª	% of	otal total force 2000–04 ^a	Male 2000-03 ^a	% of total unemployment Female 2000–03 ª	t Total 2000–03 ª	Primary 2000-04 ^a	% of total unemploymer Secondary 2000–04 ^a	nt Tertiary 2000–04 ª
Afghanistan												
Albania		13.1		18.3		15.2				56.4	38.4	3.4
Algeria	24.2	26.6	20.3	31.4	23.0	27.3						
Angola												
Argentina	6.4 ^b	16.3 ^b	7.0 ^b	14.7 ^b	6.7 ^b	15.6 ^b				42.8 ^b	38.5 ^b	17.7 ^b
Armenia							72.2 ^b	70.8 ^b	71.6 ^b	5.2	81.5	13.3
Australia	11.3	5.3 ^b	9.5	5.5 ^b	10.5	5.4 ^b	27.1 ^b	17.0 ^b	22.5 ^b	48.3	32.7	19.0
Austria	3.5	4.5	3.8	5.4	3.6	4.9	25.0	23.9	24.5	37.3	55.7	7.0
Azerbaijan										4.6	31.4	64.1
Bangladesh		3.2		3.3		3.3				54.3	22.7	8.4
Belarus										10.2	40.6	49.1
Belgium	4.8	6.6	9.5	8.3	6.7	7.4	44.8	48.2	46.3	43.7	38.1	18.2
Benin												
Bolivia	5.5 ^b	4.3	5.6 ^b	6.9	5.5 ^b	5.5				60.2 ^b	32.5 ^b	4.4 ^b
Bosnia and Herzegovina												
Botswana	11.7	15.7	17.3	22.3	13.9	18.6			••	63.8	23.8	
Brazil	5.4 ^b	7.8 ^b	7.9 ^b	12.3 ^b	6.4 ^b	9.7 ^b						
Bulgaria		14.1		13.2		13.7				37.8	50.9	11.4
Burkina Faso	···•	•	•		*	***************************************	.*			46.8	19.3	5.6
Burundi		••	••	••	••	••				•••••	•••••	•
Cambodia	••	1.4	••	2.0	••	1.8	••	••	••	••	••	••
Cameroon	••	8.2		6.7	····	7.5			••		••	
Canada	 12.1 ^b	7.5 ^b	 10.2 ^b	6.8 ^b	 11.2 ^b	7.2 ^b	 11.4 ^b	8.4 ^b	 10.1 ^b	29.0 ^b	30.8 ^b	 40.2 ^b
Central African Republic								·				
					·····						••	
Chad			 				••	••	••			
Chile	3.9	6.9	5.3	8.3	4.4	7.4	••		••	18.5	59.0	21.8
China		 o oh			2.3 ^b	4.0 ^b						
Hong Kong, China	2.0 ^b	9.3 ^b	1.9 ^b	6.2 ^b	2.0 ^b	7.9 ^b	•••		····	48.6	39.4	10.1
Colombia	6.7	11.0	13.0	18.5	9.4	14.2				26.9	52.9	16.5
Congo, Dem. Rep.												
Congo, Rep.									••			
Costa Rica	3.4	5.8	5.4	8.2	4.0	6.7	8.9	13.3	10.9	62.2	24.1	9.9
Côte d'Ivoire									···			
Croatia		13.1		15.7		14.3			56.4	21.5	68.4	9.8
Cuba					4.6	3.3						
Czech Republic		7.0		9.9		8.3	47.4	51.9	49.9	24.6	71.8	3.5
Denmark	8.3	5.0	9.9	5.4	9.0	5.2	21.8	17.9	19.9	25.9	46.6	25.5
Dominican Republic	11.7	9.4	34.9	26.0	20.3	15.6	2.2	1.3	1.6			
Ecuador	6.0 ^b	9.0 ^b	13.2 ^b	15.0 ^b	8.9 ^b	11.4 ^b				28.8	47.7	21.9
Egypt, Arab Rep.	6.4	6.3	17.0	23.9	9.0	11.0						
El Salvador	8.4 ^b	9.3	7.2 ^b	3.5	7.9 ^b	6.9						
Eritrea									••			
Estonia	3.9	10.2	3.5	9.9	3.7	10.0				20.9	62.1	16.8
Ethiopia												
Finland	13.6	8.8	9.7	9.0	11.7	8.9	27.7	21.4	24.7	35.8	46.3	17.5
France	7.9 ^b	9.0 ^b	12.7 ^b	11.1 ^b	10.0 ^b	9.9 ^b	43.1 ^b	42.8 ^b	42.9 ^b	40.6	39.9	17.7
Gabon												
Gambia, The												
Georgia		11.5		11.5		11.5				5.8	57.6	36.5
Germany	5.3	10.2	8.4	9.3	6.6	9.8	48.3	52.3	50.0	27.1	60.5	12.4
Ghana		7.5		8.7		8.2						
Greece	4.9	6.4	12.9	15.9	7.8	10.2	49.2	61.0	56.5	34.2	50.0	 15.1
Guatemala	2.6 ^b	2.2	4.6 ^b	3.7	3.2 ^b	2.8		·•·········		•••••		•
Guinea	·····	•	•	•••••	•	•••••	•••••	••	••	••	•••••	
Guinea-Bissau	••			••			••		••	••	••	
•	 11.2	••	13.6		 12.2	••						
Haiti	11.2		13.0		12.2	••						

Unemployment

7	5
Z.	U

			Unemp	loyment			u	Long-term nemployme			employmen tional atta	-
	Ma % of I labor 1990–92 ª	male	% of t	male female r force 2000–04 ª	% of	otal total force 2000–04 ^a	Male	% of total unemploymer Female 2000–03 ª	nt Total 2000–03 ª	Primary 2000–04 ^a	% of total unemploymer Secondary 2000–04 ^a	nt Tertiary 2000–04 ª
Honduras	3.3 ^b		3.0 ^b		3.2 ^b	5.1 ^b			-	•	•	
Hungary	11.0	6.1	8.7	6.1	9.9	6.1	42.2	42.2	42.2	33.5	61.2	5.4
India	11.0	4.4 ^b		4.1 ^b		4.3 ^b				27.0	41.1	31.9
Indonesia	3.5	8.1	4.5	12.9	3.9	9.9				26.3	52.8	6.7
Iran, Islamic Rep.		10.1		20.4		11.6			••	38.3	37.1	19.3
Iraq		30.2		16.0		28.1						
Ireland	15.2	4.9	15.2	3.7	15.2	4.4	40.9	26.0	35.4	48.2	24.9	24.0
Israel	9.2	10.2	13.9	11.3	11.2	10.7				20.2	48.8	27.0
Italy	8.1	6.4	17.3	10.5	11.6	8.0	57.5	58.9	58.2	49.4	41.4	7.5
Jamaica	9.4	8.1	22.2	15.7	15.4	11.4	24.4	36.2	31.7	13.0	5.4	6.1
Japan	2.1 ^b	4.9 ^b	2.2 ^b	4.4 ^b	2.2 ^b	4.7 ^b	38.9 ^b	24.6 ^b	33.5 ^b	70.8	0.0	29.2
Jordan		11.8		20.7		13.2						
Kazakhstan		7.2		10.4		8.8				7.9	53.2	38.9
Kenya			••••••									
Korea, Dem. Rep.						•		•			••	••
Korea, Rep.	2.8	3.7	2.1	3.1	2.5	3.5	0.7	0.3	0.6	17.0	53.4	29.6
Kuwait					•					27.5	39.9	6.1
Kyrgyz Republic		9.4		10.5		9.9	47.8	54.3	50.9	7.7	77.7	18.5
Lao PDR					*		***************************************	***************************************	***************************************			10.0
Latvia		10.7		10.5	••	10.6	••	<u> </u>	••	22.4	68.5	8.8
Lebanon							••	••	••			
Lesotho	<u></u>				••	••	••	••	••	•••••	•••••	
Liberia	·-	••		••	••	••	••	••	••		••	
		••	••	••	••		••	••		••	••	••
Libya Lithuania		 12.7		12.2	••	 12.4	••		 57.8	 15.0	 68.5	16.5
	••	37.0	••	36.3	••	36.7		••	•	•••••	•••••	•••••
Macedonia, FYR	••				••		••	••	••	42.7	100	
Malawi		3.5		5.6		4.5		••	•••	42.7	18.8	6.1
Malawi	••	••	••	••		 2 F	••	••	••		40.0	 45.6
Malaysia		••			3.7	3.5		••		32.0	48.8	15.6
Mali						••	•••	••	••			
Mauritania							••	••	••	 74 Fb	 	••
Mauritius	3.2	9.0	3.6	12.6	3.3	10.2				71.5 ^b	28.2 ^b	
Mexico	2.7	2.9	4.0	3.4	3.1	3.0	1.1	0.8	1.0	13.7	30.1	46.4
Moldova	••	9.6		6.4		7.9		••	••			
Mongolia		14.3	 or oh	14.1	 40 oh	14.2				35.0	45.8	18.4
Morocco	13.0 ^b	10.6	25.3 ^b	11.4	16.0 ^b	10.8	••	••	••	50.9 ^b	20.6 ^b	19.3 ^b
Myanmar	••	••		••	••	••	••	••	••	••	••	••
Myanmar			10.0				••		••			
Namibia	20.0	26.8	19.0	35.9	19.0	31.1		••	••	••	••	••
Nepal		л а	7.2				20.1			 46 2	 25 1	17.4
Netherlands	4.3	4.1	7.3	4.4	5.5	4.3	30.1	28.1	29.2	46.3	35.1	17.4
New Zealand	11.0 ^b	3.5 ^b	9.6 ^b	4.4 ^b	10.4 ^b	3.9 ^b	15.5 ^b	11.0 ^b	13.3 ^b	1.0	48.8	16.0
Nicaragua	11.3	7.6	19.4	8.0	14.4	7.8	••	••	••	50.8 ^b	24.8 ^b	19.7 ^b
Niger												
Nigeria												
Norway	6.6	4.8	5.1	3.8	5.9	4.4	7.1	5.4	6.4	21.7	54.7	21.7
Oman									••			
Pakistan	4.3	6.2	14.2	16.4	5.8	7.8				14.7	12.3	24.1
Panama	10.8	10.5	22.3	18.8	14.7	13.6	24.0	35.7	29.3	35.9	37.3	26.0
Papua New Guinea	9.0	4.3	5.9	1.3	7.7	2.8						
Paraguay	6.3 ^b	6.7	3.8 ^b	8.9	5.2 ^b	7.6		••	••	 O.4h	 C4 4b	oo ch
Peru	7.5 ^b	9.0 ^b	12.5 ^b	11.9 ^b	9.4 ^b	10.3 ^b				9.4 ^b	61.4 ^b	28.6 ^b
Philippines	7.9	9.4	9.9	10.3	8.6	9.8						
Poland	12.2	18.2	14.7	19.9	13.3	19.0	48.6	50.8	49.7	18.0	75.4	6.7
Portugal	3.5 ^b	5.8	5.0 ^b	7.6	4.1 ^b	6.7	31.2	32.7	32.0	70.7	14.6	8.8
Puerto Rico	19.1 ^b	12.8 ^b	13.3 ^b	10.9 ^b	16.9 ^b	12.0 ^b						



2.5 Unemployment

			Unemp	loyment			u	Long-term nemployme	nt		employmen itional atta	-
	Ma % of r labor 1990–92 ª	male	% of f	nale emale force 2000–04 ^a	% of labor	tal total force 2000–04 ^a	Male 2000-03 ^a	% of total unemploymen Female 2000–03 ª	t Total 2000–03 ª	Primary 2000–04 ^a	% of total unemploymer Secondary 2000-04 ^a	nt Tertiary 2000-04 ª
Romania		7.5		6.4		7.0				26.0	66.9	5.4
Russian Federation	5.2	9.9	5.2	8.8	5.2	8.6						
Rwanda	0.6		0.2		0.3	•••				60.7	24.1	5.9
Saudi Arabia		4.2		11.5		5.2				38.3	34.7	20.1
Senegal												
Serbia and Montenegro		14.4 ^b		16.4 ^b		15.2 ^b						
Sierra Leone				•••				••				
Singapore	2.7	5.5	2.6	5.3	2.7	5.4				22.4	25.0	38.8
Slovak Republic		17.3		19.1		18.1	60.2	62.1	61.1	24.1	71.7	4.3
Slovenia		6.2		6.6		6.6				26.2	63.9	8.2
Somalia												
South Africa	······································	25.5 ^b		31.7 ^b		28.4 ^b				50.2	41.0	5.1
Spain	13.9	8.2	25.8	15.0	 18.1	11.0	34.3	43.9	 39.8	56.0	20.4	22.7
Sri Lanka	10.1 ^b	6.2 ^b	19.9 ^b	14.7 ^b	13.3 ^b	9.0 ^b				47.2	0.0	52.8
Sudan	10.1		•		•	•	•	•••••		•	0.0	32.0
Swaziland	•••••••••••••••••••••••••••••••••••••••	••	••	•••	••	••	••	••	••	••		•••
Sweden	6.8	6.9	4.6	6.2	 5.7	 6.5	 19.6	 15.3	 17.8	23.2	 58.1	 17.5
Switzerland	2.3	3.9	3.5	4.8	2.8	4.3	21.6	32.6	27.0	28.7	54.5	16.9
Syrian Arab Republic		8.3		24.1		4.3 11.7	•			75.2	10.3	9.8
						•	••			•	•••••	•••••
Tajikistan	2.7 ^b		 4.2 ^b	 F 0	 3.5 ^b	 F 1	••	••	••			•••
Tanzania		4.4 1.6		5.8		5.1 1.5	••	••	••		47.0	
Thailand	1.3		1.5	1.4	1.4	•				40.0	47.2	0.2
Togo												
Trinidad and Tobago	17.0	7.8	23.9	14.5	19.6	10.4	20.3	34.7	27.6	55.5	40.5	1.8
Tunisia						14.3				43.4	37.4	10.0
Turkey	8.8	10.5	7.8	9.7	8.5	10.3	22.1	30.9	24.4	53.5	29.2	12.7
Turkmenistan	••								••			••
Uganda 		2.5		3.9	······	3.2			••			
Ukraine	••	8.9	••	8.3	••	8.6	••	••	••	13.5	54.3	32.2
United Arab Emirates		2.2	 = ab	2.6		2.3						
United Kingdom	11.5 ^b	5.0 ^b	7.3 ^b	4.2 ^b	9.7 ^b	4.6 ^b	26.5	17.1	23.0	30.3	44.4	14.6
United States	7.9 ^b	5.6 ^b	7.0 ^b	5.4 ^b	7.5 ^b	5.5 ^b	12.5 ^b	11.0 ^b	11.8 ^b	18.4	34.3	47.3
Uruguay	6.8 ^b	13.5 ^b	11.8 ^b	20.8 ^b	9.0 ^b	16.8 ^b				54.8 ^b	31.3 ^b	13.9 ^b
Uzbekistan												
Venezuela, RB	8.1	14.4	6.8	20.3 ^b	7.7	16.8 ^b			••			
Vietnam		1.9		2.4		2.1						
West Bank and Gaza		26.9		18.6		25.6				57.5	14.5	17.6
Yemen, Rep.												
Zambia	16.3	···	22.4		18.9					·····		
Zimbabwe		10.4		6.1		8.2						
World	W	W	W	W	W	6.5 w	W	W	W	W	W	W
Low income												
Middle income					4.1	6.8						
Lower middle income					3.6	5.9						
Upper middle income	6.2	11.0	6.8	13.4	6.3	12.0				38.2	47.3	11.5
Low & middle income	••					5.6			••			••
East Asia & Pacific					2.5	4.4			••			
Europe & Central Asia		11.1		10.7		10.6						
Latin America & Carib.	5.5	8.0	8.5	11.8	6.7	9.5						
Middle East & N. Africa		12.7		21.9		13.6						
South Asia		4.4		5.0		4.5				30.0	33.8	27.4
Sub-Saharan Africa									••		••	
High income	7.0	6.2	7.9	6.6	7.4	6.4	27.3	23.9	26.0	34.8	34.4	29.7
Europe EMU	7.5	8.2	12.6	10.6	9.5	9.2	44.2	46.4	45.5	40.4	42.3	16.4

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

About the data

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

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

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

Data on unemployment are drawn from labor force sample surveys and general household sample surveys, censuses, and other administrative records such as 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 not covered in other unemployment statistics, particularly people seeking work for the first time. These surveys generally use a definition of unemployment that follows the international recommendations more closely than that used by other sources and therefore generate statistics that are

more comparable internationally. But the age group and area covered could differ by country or change over time within a country. For detailed information on breaks in series, consult the original source.

In contrast, the quality and completeness of data 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 countries that offer more or longer unemployment benefits.

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

Long-term unemployment is measured by the length of time that an unemployed person has been without work and looking for a job. The 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 that a person has been unemployed is difficult to measure, because the ability to recall that time diminishes as the period of joblessness extends. Women's longterm unemployment is likely to be lower in countries where women constitute a large share of the unpaid family workforce. Women in such countries have more access than men to nonmarket work and are more likely to drop out of the labor force and not be counted as unemployed.

Unemployment by level of educational attainment provides insights into the relationship between the

educational attainment of workers and unemployment and may be used to draw inferences about changes in employment demand. Information on education attainment is the best available indicator of skill levels of the labor force.

Besides the limitations to comparability raised for measuring unemployment, the different ways of classifying the level of education across countries may also cause inconsistency. The level of education is supposed to be classified according to International Standard Classification of Education 1997 (ISCED97). For more information on ISCED97, see About the data for table 2.10.

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 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 International Standard Classification of Education 1997 of the United Nations Educational, Cultural, and Scientific Organization.

Data sources

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





2.6 Wages and productivity

	Hours v	Hours worked		m wage	Agricultu	ural wage		per worker facturing		d per worker facturing
	average	ner week	\$ ne	· year	\$ ne	r year	\$ ne	r year	\$ ne	er year
	1980-84	1995-99 ^a	1980-84	1995–99 ^a	1980-84	1995-99 ^a	1980-84	1995-99 ^a	1980-84	1995–99 ^a
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								<u>.</u>		
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								<u> </u>		
Cambodia	·••		•••	••	· · · · · · · · · · · · · · · · · · ·	<u> </u>	······································	······································	<u>.</u>	·-
Cameroon										
Canada	38	38	4,974	7,897	20,429	30,625	17,710	28,424	36,903	60,712
Central African Republic			•••	••		<u> </u>	····	······································	<u>.</u>	
Chad				···			·····	<u>. </u>	· ·	<u>. </u>
Chile	43	45	663	1,781		<u> </u>	6,234	5,822	32,805	32,977
China					349	325	472	729	3,061	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	••	<u></u>	5,132	9,995	16,158	••
Croatia									••	
Cuba Crash Danublia			••					2015	 F 700	 5 004
Czech Republic Denmark	43	43 37	0.170	942	2,277	3,090	2,306	3,815 <i>29,235</i>	5,782	5,094
Dominican Republic	44	44	9,170	19,933 <i>1,439</i>			16,169 2,191	1,806	27,919 8,603	49,273
Ecuador		•	1 627	1,439 492	••	••	•	3,738		 9,747
Egypt, Arab Rep.	 58		1,637 343	492 415	••		5,065 2,210	1,863	12,197 3,691	5,976
El Salvador			•	790			3,654	***************************************	14,423	3,970
Eritrea		••	••	• • • • • • • • • • • • • • • • • • • •	••	••	•		••••••	·
Estonia				••						·•
Ethiopia	·•			·•	<u> </u>		·•	 1,596		7,094
Finland		 38		 b	<u> </u>		 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										

			Wages and productivity							
	Hours	worked	Minimu	um wage	Agricult	ural wage		per worker facturing		d per worke facturing
	average	per week	\$ pe	r year	\$ pe	r year	\$ pe	r year	\$ pe	er year
	1980-84	1995-99 ^a	1980-84	1995-99 ^a	1980-84	1995-99ª	1980-84	1995-99 ^a	1980-84	1995-99ª
onduras		44			1,623		2,949	2,658	7,458	7,427
ungary	35 46	33	1,186	1,132	1,186	2,676	1,410	3,755	4,307	10,918
dia donesia	46 40	43		408 241	205	245	1,035 898	<i>1,192</i> 3,054	2,108 3,807	3,118 5,139
an, Islamic Rep.		•••••	······································			<u></u>	9,737	30,562	17,679	89,787
aq							4,624	13,288	13,599	34,316
eland	41	41	5,556	12,087		•••••	10,190	22,681	26,510	86,036
srael	36	36		5,861	4,582	7,906	13,541	21,150	23,459	35,526
aly		32		b			9,955	34,859	24,580	50,760
amaica		39	782	692			5,218	3,655	12,056	11,091
ipan	47	47	3,920	12,265			12,306	31,687	34,456	92,582
ordan		50	b	b			4,643	2,082	16,337	11,906
azakhstan										
enya	41	39		551	508	568	1,043	810	2,345	1,489
orea, Dem. Rep.										
orea, Rep.	52	48		3,903			3,153	10,743	11,617	40,916
uwait urgyz Pepublic	••			8,244 65	1 605	168	10,281	687	30,341	••
yrgyz Republic ao PDR	••	••		65	1,695	168	2,287	687		
atvia								 366		
ebanon						······································				
esotho		 45			•••	•••	1,442		6,047	
iberia							-,		.,	
bya							8,648		21,119	
thuania										
lacedonia, FYR										
ladagascar		40					1,575		3,542	
lalawi								···	<u> </u>	
alaysia	••			b	1,435	··	2,519	3,429	8,454	12,661
ali	••		321	459			2,983		10,477	
lauritania	••		••	••		••	1 465	1 072		4 217
lauritius Iexico	43	 45	1,343	768	1,031	908	1,465 3,772	1,973 7,607	2,969	4,217 25,931
loldova	····-					908	3,772	7,607	17,448	
longolia										
lorocco				1,672			2,583	3,391	6,328	9,089
lozambique										
lyanmar										
amibia	••									
epal							371		1,523	
etherlands	40	40	9,074	15,170			18,891	34,326	27,491	56,801
ew Zealand	39	39	3,309	9,091			10,605	18,419	16,835	32,723
icaragua		44								
ger 	40						4,074		22,477	
igeria				300 b			4,812		20,000	51 510
orway	35	35			••	••	14,935	38,415 <i>3,099</i>	24,905	51,510 61,422
man akistan	48		••	600	 427	 416	1,264	••••••	 6,214	01,422
anama		••	••		•	***************************************	1,264 4,768	 6,351	15,327	 17,320
anama apua New Guinea	44	••		••			4,768	0,331	13,563	11,320
araguay	36	39			1,606	 1,210	2,509	 3,241	10,000	 14,873
eru	48					944	2,988		15,962	
hilippines	47	43	915	1,472	382		1,240	2,450	5,266	10,781
oland	36	33	320	1,584	1,726	1,301	1,682	1,714	6,242	7,637
ortugal	39	40	1,606		•		3,115	6,237	7,161	17,273



2.6 Wages and productivity

	Hours	worked	Minimu	m wage	Agricultu	ural wage		per worker facturing		d per worker facturing
	average	per week	\$ pe	r year	\$ pe	r year	\$ pe	r year	\$ pe	r year
	1980-84	1995-99 ^a	1980-84	1995-99 ^a	1980-84	1995-99ª	1980-84	1995-99ª	1980-84	1995-99a
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		
Rwanda						•••	1,871		9,835	
Saudi Arabia						•••	9,814			
Senegal			993	848			2,828	7,754	6,415	
Serbia and Montenegro					••	•••				••
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										
Trinidad and Tobago		40		2,974					14,008	
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, RB	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
Zambia		45					3,183	4,292	11,753	16,615
Zimbabwe					1,065		4,097	3,422	9,625	11,944

Note: Data are period averages.

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

Wages and productivity

About the data

Much of the 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 to provide a set of uniform and representative labor market indicators. Nevertheless, many differences in reporting practices persist, some of which are described below. The purpose of the table is to explore the relationship between labor markets and economic growth in the long run, not to follow labor market developments in the short run.

Analyses of labor force participation, employment. and underemployment often rely on the number of hours worked per week, which 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 and time spent on short periods of rest. Hours paid for but not spent at the workplace—such as paid annual and sick leave, paid holidays, paid meal breaks, and time spent commuting-are not included. When this information is not available, the number of hours paid for—the hours actually worked plus the hours paid for but not spent in the workplace—is reported. Data on hours worked are influenced by differences in methods of compilation and coverage and by national practices relating to 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 employer 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 sets 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 should be subject to more caution 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, other remuneration paid directly by employers, and 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 labor laws and collective bargaining agreements.

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 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.

Definitions

· Hours worked are average hours per week actually worked, hours paid for, or statutory hours of work in a normal workweek for all workers (male and female) in nonagricultural activities or, if unavailable, in manufacturing. • 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 the daily wage in agriculture. To ensure comparability with the other wage series, full employment over the year is assumed, although many wage earners in agriculture are employed seasonally. . Labor cost per worker in manufacturing is the total payroll of manufacturing establishments divided by the number of people employed or engaged in those establishments. • Value added per worker in manufacturing is the value added of manufacturing establishments divided by the number of people employed or engaged in those establishments.

Data sources

Data on wages and productivity are drawn from Martin Rama and Raquel Artecona's "Database of Labor Market Indicators across Countries" (2002).

National poverty line

International poverty line

				Itational	poverty line					internati	onai pove	ity illie	
	Po	opulation povert	below the		Pol	pulation b				Population	Poverty	Population	Poverty
	Survey year	Rural %	Urban %	National %	Survey year	Rural %	Urban %	National %	Survey year	below \$1 a day %	gap at \$1 a day %	below \$2 a day %	gap at \$2 a day %
Afghanistan					······································								
Albania	2002	29.6	19.8	25.4					2002ª	•	<0.5	11.8	2.0
Algeria	1988	16.6	7.3	12.2	1995	30.3	14.7	22.6	1995ª	•	<0.5	15.1	3.8
Angola													
Argentina	1995		28.4		1998		29.9		2003 ^b	•	2.0	23.0	8.4
Armenia	1998–99	50.8	58.3	55.1	2001	48.7	51.9	50.9	2003 ^a	<2	<0.5	31.1	7.1
Australia													
Austria													
Azerbaijan	1995			68.1	2001	42.0	55.0	49.0	2002 ^a	<2	<0.5	<2	<0.5
Bangladesh	1995–96	55.2	29.4	51.0	2000	53.0	36.6	49.8	2000 ^a	36.0	8.1	82.8	36.3
Belarus	2000			41.9					2002 ^a	<2	<0.5	<2	<0.5
Belgium		••				••							
Benin	1995	25.2	28.5	26.5	1999	33.0	23.3	29.0	2003 ^a	30.9	8.2	73.7	31.7
Bolivia	1997	77.3	53.8	63.2	1999	81.7	50.6	62.7	2002 ^b	23.2	13.6	42.2	23.2
Bosnia and Herzegovina	2001–02	19.9	13.8	19.5									
Botswana									1993ª	23.5	7.7	50.1	22.8
Brazil	1996	54.0	15.4	23.9	1998	51.4	14.7	22.0	2003 ^b	7.5	3.4	21.2	8.5
Bulgaria	1997			36.0	2001			12.8	2003 ^a	<2	<0.5	6.1	1.5
Burkina Faso	1998	61.1	22.4	54.6	2003	52.4	19.2	46.4	2003a	27.2	7.3	71.8	30.4
Burundi	1990	36.0	43.0	36.4					1998ª	54.6	22.7	87.6	48.9
Cambodia	1997	40.1	21.1	36.1	1999	40.1	13.9	35.9	1997ª	34.1	9.7	77.7	34.5
Cameroon	1996	59.6	41.4	53.3	2001	49.9	22.1	40.2	2001 ^a	17.1	4.1	50.6	19.3
Canada					···								
Central African Republic									1993ª	66.6	38.1	84.0	58.4
Chad	1995–96	67.0	63.0	64.0									
Chile	1996			19.9	1998			17.0	2000 ^b	•	<0.5	9.6	2.5
China	1996	7.9	<2	6.0	1998	4.6	<2	4.6	2001 ^a	16.6	3.9	46.7	18.4
Hong Kong, China		••										••	
Colombia	1995	79.0	48.0	60.0	1999	79.0	55.0	64.0	2003 ^b	7.0	3.1	17.8	7.7
Congo, Dem. Rep.						·····							
Congo, Rep.		••				••							
Costa Rica	1992	25.5	19.2	22.0					2001 ^b	•	0.8	7.5	2.8
Côte d'Ivoire									2002 ^a	•	4.1	48.8	18.4
Croatia									2001 ^a	<2	<0.5	<2	<0.5
Cuba													
Czech Republic									1996 ^b	<2	<0.5	<2	<0.5
Denmark				···				···		······			<u>-</u>
Dominican Republic	······	49.0	19.3	33.9	1998	42.1	20.5	28.6	2003 ^b	•	0.8	11.0	3.6
Ecuador	1995		19.0	34.0	1998	69.0	30.0	46.0	1998 ^b	•	6.3	37.2	15.8
Egypt, Arab Rep.	1995-96		22.5	22.9	1999–2000	••		16.7	1999–2000a		<0.5	43.9	11.3
El Salvador	·······	55.7	43.1	48.3		······································			2002b	19.0	9.3	40.6	17.7
Eritrea	1993-94			53.0		·····							
Estonia	1995	14.7	6.8	8.9					2003 ^a	•	<0.5	7.5	1.9
Ethiopia	1995–96	47.0	33.3	45.5	1999–2000	45.0	37.0	44.2	1999–2000ª	•	4.8	77.8	29.6
Finland		••				••				••			
France		••								•••			
Gabon Combin The	4000				4000			 E7 0	40000	 FO 2			
Gambia, The	1992			64.0	1998	61.0	48.0	57.6	1998a	•	28.8	82.9	51.1
Georgia	2002	55.4	48.5	52.1	2003	52.7	56.2	54.5	2003 ^a	6.5	2.1	25.3	8.6
Germany	4000				1000 00				4000 000			 70 F	
Ghana	1992	••		50.0	1998–99	49.9	18.6	39.5	1998–99ª	•	17.3	78.5	40.8
Greece	4000			 57.0	0000	74 -			aaaah	125		21.0	
Guatemala	1989	71.9	33.7	57.9	2000	74.5	27.1	56.2	2002 ^b	13.5	5.5	31.9	13.8
Guinea Rissau	1994	••	••	40.0		••		••		••		···	
Guinea-Bissau	4007	·····		 65.0	1005				2004h			70.0	
Haiti	1987	••		65.0	1995	66.0			2001 ^b	53.9	26.6	78.0	47.4

				National	poverty line		International poverty line						
	Po	pulation	below the		Po	pulation b	elow the			Donulatia	Dovert	Donulatia	Dougste
	Survey year	povert Rural %		National %	Survey year	poverty Rural %		National %	Survey year	Population below \$1 a day %	Poverty gap at \$1 a day %	Population below \$2 a day %	Poverty gap at \$2 a day %
Honduras	1997	58.0	35.0	47.0	1999	58.0	37.0	48.0	1999 ^b	20.7	7.5	44.0	20.2
Hungary	1993			14.5	1997			17.3	2002 ^a	<2	<0.5	<2	<0.5
India	1993–94	37.3	32.4	36.0	1999–2000	30.2	24.7	28.6	1999-2000 ^a	34.7	8.2	52.4	15.7
Indonesia	1996			15.7	1999	34.4	16.1	27.1	2002 ^a	7.5	0.9	52.4	15.7
Iran, Islamic Rep.									1998 ^a	<2	<0.5	7.3	1.5
Iraq Ireland													
Israel													
Italy													
Jamaica	1995	37.0	18.7	27.5	2000	25.1	12.8	18.7	2000 ^a	<2	<0.5	13.3	2.7
Japan Jordan	1991	••	••	 15.0	1997	••	••	117	2002–03 ^a	<2	<0.5	7.0	1.5
Kazakhstan	1991	 39.0	30.0	34.6	1991	••		11.7	2002–03° 2003 ^a	<2 <2	<0.5 <.5	7.0 16.0	3.8
Kenya	1994	47.0	29.0	40.0	1997	53.0	49.0	52.0	1997 ^a	22.8	5.9	58.3	23.9
Korea, Dem. Rep.													
Korea, Rep.									1998 ^b	<2	<0.5	<2	<0.5
Kuwait													
Kyrgyz Republic	2000	56.4	43.9	52.0	2001	51.0	41.2	47.6	2003 ^a	<2	<0.5	21.4	4.4
Lao PDR	1993	48.7	33.1	45.0	1997–98	41.0	26.9	38.6	2002 ^a	27.0	6.1	74.1	30.2
Latvia		••				••			2003 ^a	<2	<0.5	4.7	1.2
Lebanon Lesotho	······			••	•				1995ª	36.4	19.0	 56.1	33.1
Liberia				••			••		1995		19.0	20.1	33.1
Libya													
Lithuania	·····				•				2003 ^a	<2	<0.5	7.8	1.8
Macedonia, FYR					•				2003 ^a	<2	<0.5	<2	<0.5
Madagascar	1997	76.0	63.2	73.3	1999	76.7	52.1	71.3	2001 ^a	61.0	27.9	85.1	51.8
Malawi	1990–91			54.0	1997–98	66.5	54.9	65.3	1997–98ª	41.7	14.8	76.1	38.3
Malaysia	1989			15.5					1997 ^b	<2	<0.5	9.3	2.0
Mali	1998	75.9	30.1	63.8					1994ª	72.3	37.4	90.6	60.5
Mauritania Mauritius	1996	65.5	30.1	50.0	2000	61.2	25.4	46.3	2000 ^a	25.9	7.6	63.1	26.8
Mexico	1996	 52.4	26.5	37.1	2002	34.8	11.4	20.3	2002 ^a	4.5	1.2	20.4	6.5
Moldova	2001	64.1	58.0	62.4	2002	67.2	42.6	48.5	2001 ^a	22.0	5.8	63.7	25.1
Mongolia	1995	33.1	38.5	36.3	1998	32.6	39.4	35.6	1998 ^a	27.0	8.1	74.9	30.6
Morocco	1990-91	18.0	7.6	13.1	1998–99	27.2	12.0	19.0	1999 ^a	<2	<0.5	14.3	3.1
Mozambique	1996–97	71.3	62.0	69.4					1996 ^a	37.9	12.0	78.4	36.8
Myanmar		····											
Namibia								·	1993 ^b		14.0	55.8	30.4
Nepal	1995–96		21.6	41.8	2003–04		9.6	30.9	2003-04 ^a	24.1	5.4	68.5	26.8
Netherlands	······									····			
New Zealand Nicaragua	1993	 76.1	 31.9	50.3	1998	 68.5	30.5	47.9	2001 ^a	 45.1	16.7	 79.9	 41.2
Niger	1989-93		52.0	63.0	1990	08.5	30.5	47.9	1995 ^a	45.1 60.6	34.0	79.9 85.8	54.6
Nigeria	1985		31.7	43.0	1992-93	36.4	30.4	34.1	2003 ^a	70.8	34.5	92.4	59.5
Norway													
Oman													
Pakistan	1993	33.4	17.2	28.6	1998–99	35.9	24.2	32.6	2002 ^a	17.0	3.1	73.6	26.1
Panama	1997		15.3	37.3					2002 ^b	6.5	2.3	17.1	6.9
Papua New Guinea	1996		16.1	37.5							<u> </u>		
Paraguay	1991		19.7	21.8	400-				2002 ^b	16.4	7.4	33.2	16.2
Peru	1994	67.0	46.1	53.5	1997	64.7	40.4	49.0	2002 ^b	12.5	4.4	31.8	13.4
Philippines	1994		28.0	40.6	1997	50.7	21.5	36.8	2000 ^a		3.0	47.5	17.8
Poland Portugal	1993	••	••	23.8		••			2002 ^a 1994 ^b		<0.5 <0.5	<2 <2	<0.5 <0.5
Puerto Rico									1994°		•	····•	\U.U
I UEILU NICU		······································				••	•••••	••		••		••	···

				National	poverty line					Internation	onal pove	rty line	
		povert				oulation b poverty	line			Population below	Poverty gap at	Population below	Poverty gap at
	Survey year	Rural %	Urban %	National %	Survey year	Rural %	Urban %	National %	Survey year	\$1 a day %	\$1 a day %	\$2 a day %	\$2 a day %
Romania	1994	27.9	20.4	21.5					2003 ^a	<2	0.5	12.9	3.0
Russian Federation	1994			30.9					2002 ^a	<2	<0.5	12.1	3.1
Rwanda	1993			51.2	1999–2000	65.7	14.3	60.3	1999-2000a	51.7	20.0	83.7	45.5
Saudi Arabia	·····								•				
Senegal	1992	40.4	23.7	33.4					1995 ^a	22.3	5.7	63.0	25.2
Serbia and Montenegro							·· · ·····						
Sierra Leone	1989			82.8	2003-04	79.0	56.4	70.2	1989ª	57.0	39.5	74.5	51.8
Singapore	2000				2000 01				2000	0			
Slovak Republic									1996 ^b	<2	<0.5	2.9	0.8
Slovenia	······								1998 ^a	<2	<0.5	<2.5	<0.5
Somalia	····-								1990		<u> </u>	····•	\0.3
South Africa	····								2000 ^a	10.7	1.7	34.1	12.6
Spain									2000	10.7	1.1	34.1	12.0
Sri Lanka	1990-91	22.0	15.0	20.0	1995–96	27.0	 15.0	25.0	2002 ^a	5.6	0.8	41.6	11.9
	1990-91	22.0	15.0	20.0	1995-96	27.0	15.0	25.0	2002		•		11.9
Sudan	····-									••			
Swaziland	<u>-</u>									••			
Sweden		······································				······							
Switzerland		••					••			••			
Syrian Arab Republic			······			·····	·····						
Tajikistan	<u>.</u>								2003 ^a	7.4	1.3	42.8	13.0
Tanzania	1991	40.8	31.2	38.6	2000-01	38.7	29.5	35.7	2000-01 ^a	57.8	20.7	89.9	49.3
Thailand	1990			18.0	1992	15.5	10.2	13.1	2002 ^a	<2	<0.5	25.2	6.2
Togo	1987–89			32.3		····				•••			
Trinidad and Tobago	1992	20.0	24.0	21.0					1992 ^b	12.4	3.5	39.0	14.6
Tunisia	1990	13.1	3.5	7.4	1995	13.9	3.6	7.6	2000 ^a	<2	<0.5	6.6	1.3
Turkey	1994			28.3	2002	34.5	22.0	27.0	2003 ^a	3.4	0.8	18.7	5.7
Turkmenistan										••			
Uganda	1999–2000	37.4	9.6	33.8	2002-03	41.7	12.2	37.7					
Ukraine	2000	34.9		31.5	2003	28.4		19.5	2003 ^b	<2	<0.5	4.9	0.9
United Arab Emirates										••			
United Kingdom													
United States													
Uruguay	1994		20.2		1998		24.7		2003 ^b	<2	<0.5	5.7	1.6
Uzbekistan	2000	30.5	22.5	27.5						••			••
Venezuela, RB	1989			31.3				••	2000 ^b	8.3	2.8	27.6	10.2
Vietnam	1998	45.5	9.2	37.4	2002	35.6	6.6	28.9					
West Bank and Gaza									•				
Yemen, Rep.	1998	45.0	30.8	41.8					1998 ^a	15.7	4.5	45.2	15.0
Zambia	1996	82.8	46.0	69.2	1998	83.1	56.0	72.9	2002-03 ^a	75.8	36.4	94.1	62.2
Zimbabwe	1990-91	35.8	3.4	25.8	1995–96	48.0	7.9	34.9	1995-96ª	56.1	24.2	83.0	48.2

a. Expenditure base. b. Income base.

Regional poverty estimates								
Region	1981	1984	1987	1990	1993	1996	1999	2002 ^a
People living on less than \$1 a day (millions)							
East Asia & Pacific	796	562	426	472	415	287	282	214
China	634	425	308	375	334	212	223	180
Europe & Central Asia	3	2	2	2	17	20	30	10
Latin America & Caribbean	36	46	45	49	52	52	54	47
Middle East & North Africa	9	8	7	6	4	5	8	5
South Asia	475	460	473	462	476	461	429	437
Sub-Saharan Africa	164	198	219	227	242	271	294	303
Total	1,482	1,277	1,171	1,218	1,208	1,097	1,096	1,015
Excluding China	848	852	863	844	873	886	873	835
Share of people living on less than \$	1 a day (%)							
East Asia & Pacific	57.7	38.9	28.0	29.6	24.9	16.6	15.7	11.6
China	63.8	41.0	28.5	33.0	28.4	17.4	17.8	14.0
Europe & Central Asia	0.7	0.5	0.4	0.5	3.7	4.3	6.3	2.1
Latin America & Caribbean	9.7	11.8	10.9	11.3	11.3	10.7	10.5	8.9
Middle East & North Africa	5.1	3.8	3.2	2.3	1.6	2.0	2.6	1.6
South Asia	51.5	46.8	45.0	41.3	40.1	36.6	32.2	31.2
Sub-Saharan Africa	41.6	46.3	46.8	44.6	44.0	45.6	45.7	44.0
Total	40.4	32.8	28.4	27.9	26.3	22.8	21.8	19.4
Excluding China	31.7	29.8	28.4	26.1	25.6	24.6	23.1	21.1
ZAGIGGING GINIG	91	20.0	20	20.1	20.0	25	20.1	
People living on less than \$2 a day (
East Asia & Pacific	1,170	1,109	1,028	1,116	1,079	922	900	748
China	876	814	731	825	803	650	627	533
Europe & Central Asia	20	18	15	23	81	98	113	76
Latin America & Caribbean	99	119	115	125	136	117	127	123
Middle East & North Africa	52	50	53	51	52	61	70	61
South Asia	821	859	911	958	1,005	1,029	1,039	1,091
Sub-Saharan Africa	288	326	355	382	410	447	489	516
Total	2,450	2,480	2,478	2,654	2,764	2,674	2,739	2,614
Excluding China	1,574	1,666	1,747	1,829	1,961	2,024	2,111	2,082
Share of people living on less than \$	2 a day (%)							
East Asia & Pacific	84.8	76.6	67.7	69.9	64.8	53.3	50.3	40.7
China	88.1	78.5	67.4	72.6	68.1	53.4	50.1	41.6
Europe & Central Asia	4.7	4.1	3.3	4.9	17.2	20.7	23.8	16.1
Latin America & Caribbean	26.9	30.4	27.8	28.4	29.5	24.1	25.1	23.4
Middle East & North Africa	28.9	25.2	24.2	21.4	20.2	22.3	24.3	19.8
South Asia	89.1	87.2	86.7	85.5	84.5	81.7	78.1	77.8
Sub-Saharan Africa	73.3	76.1	76.1	75.0	74.6	75.1	76.1	74.9
Total	66.7	63.7	60.1	60.8	60.2	55.5	54.4	50.0
Excluding China	58.8	58.4	57.5	56.6	57.4	56.3	55.8	52.7

Note: Estimates are computed based on population data from World Development Indicators 2005.

a. Preliminary estimates not strictly comparable with earlier estimates. See About the data for more information.

About the data

The World Bank produced its first global poverty estimates for developing countries for World Development Report 1990 using household survey data for 22 countries (Ravallion, Datt, and van de Walle 1991). Incorporating survey data collected during the last 15 years, the database has expanded considerably and now includes 440 surveys representing almost 100 developing countries. Some 1.1 million randomly sampled households were interviewed in these surveys, representing 93 percent of the population of developing countries. The surveys asked detailed questions on sources of income and how it was spent and on other household characteristics such as the number of people sharing that income. Most interviewas were conducted by staff of government statistics offices. Along with improvements in data coverage and quality, the underlying methodology has also improved, resulting in better and more comprehensive estimates.

Data availability

Since 1979 there has been considerable expansion in the number of countries that field such surveys, the frequency of the surveys, and the quality of their data. The number of data sets rose dramatically from a mere 13 between 1979 and 1981 to 100 between 1997 and 1999. The drop to 41 available surveys after 1999 reflects the lag between the time data are collected and the time they become available for analysis, not a reduction in data collection. Data coverage is improving in all regions, but Sub-Saharan Africa continues to lag, with only 28 of 48 countries having at least one data set available. A complete overview of data availability by year and country can be obtained at http://iresearch.worldbank.org/ povcalnet/.

Data quality

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

because of differences in timing or the quality and training of survey enumerators.

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

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

International poverty lines

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

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

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

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

By combining all this information, a team in the World Bank's Development Research Group calculates the number of people living below various international poverty lines, as well as other poverty and inequality measures that are published in World Development Indicators. The database is updated annually as new survey data become available, and

Definitions

a major reassessment of progress against poverty is made about every three years.

Do it vourself: PovcalNet

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

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

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

The 2002 estimates are adapted from *Global Economic Prospects 2006* (page 9, table 1.3). Note that a typesetting error occurred in the printed edition of *Global Economic Prospects 2006*; the 2002 poverty rate estimates reported in table 2.7a are the correct estimates.

Note on the 2002 estimates

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

Data sources

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





2.8 Distribution of income or consumption

		Gini index				centage share			
	Survey year		Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Afghanistan									
Albania	2002 ^a	28.2	3.8	9.1	13.5	17.3	22.8	37.4	22.4
Algeria	1995 ^a	35.3	2.8	7.0	11.6	16.1	22.7	42.6	26.8
Angola									
Argentina ^b	2003 ^c	52.8	1.1	3.2	7.0	12.1	20.7	56.8	39.6
Armenia	2003 ^a	33.8	3.6	8.5	12.3	15.7	20.6	42.8	29.0
Australia	1994 ^c	35.2	2.0	5.9	12.0	17.2	23.6	41.3	25.4
Austria	2000 ^c	29.1	3.3	8.6	13.3	17.4	22.9	37.8	23.0
Azerbaijan	2002 ^a	19.0	5.4	12.2	15.8	18.7	22.2	31.1	18.0
Bangladesh	2000 ^a	31.8	3.9	9.0	12.5	15.9	21.2	41.3	26.7
Belarus	2002 ^a	29.7	3.4	8.5	13.2	17.3	22.7	38.3	23.5
Belgium	2000 ^c	33.0	3.4	8.5	13.0	16.3	20.8	41.4	28.1
Benin	2003 ^a	36.5	3.1	7.4	11.3	15.4	21.5	44.5	29.0
Bolivia	2002 ^c	60.1	0.3	1.5	5.9	10.9	18.7	63.0	47.2
Bosnia and Herzegovina	2001 ^a	26.2	3.9	9.5	14.2	17.9	22.6	35.8	21.4
Botswana	1993 ^a	63.0	0.7	2.2	4.9	8.2	14.4	70.3	56.6
Brazil	2003 ^c	58.0	0.8	2.6	6.2	10.7	18.4	62.1	45.8
Bulgaria Burkina Faso	2003 ^a 2003 ^a	29.2 39.5	3.4 2.8	8.7 6.9	13.7 10.9	17.2 14.5	22.1 20.5	38.3 47.2	23.9 32.2
Burundi	1998 ^a	42.4	1.7	5.1	10.3	15.1	21.5	48.0	32.8
Cambodia	1997 ^a	40.4	2.9	6.9	10.7	14.7	20.1	47.6	33.8
Cameroon	2001 ^a	44.6	2.3	5.6	9.3	13.7	20.4	50.9	35.4
Canada	2000°	32.6	2.6	7.2	12.7	17.2	23.0	39.9	24.8
Central African Republic	1993 ^a	61.3	0.7	2.0	4.9	9.6	18.5	65.0	47.7
Chad							••		
Chile	2000 ^c	57.1	1.2	3.3	6.6	10.5	17.4	62.2	47.0
China	2001 ^a	44.7	1.8	4.7	9.0	14.2	22.1	50.0	33.1
Hong Kong, China	1996 ^c	43.4	2.0	5.3	9.4	13.9	20.7	50.7	34.9
Colombia	2003 ^c	58.6	0.7	2.5	6.2	10.6	18.0	62.7	46.9
Congo, Dem. Rep.									
Congo, Rep.									
Costa Rica	2001 ^c	49.9	1.3	3.9	8.1	12.8	20.4	54.8	38.4
Côte d'Ivoire	2002 ^a	44.6	2.0	5.2	9.1	13.7	21.3	50.7	34.0
Croatia	2001 ^a	29.0	3.4	8.3	12.8	16.8	22.6	39.6	24.5
Cuba						••			
Czech Republic	1996 ^c	25.4	4.3	10.3	14.5	17.7	21.7	35.9	22.4
Denmark	1997 ^c	24.7	2.6	8.3	14.7	18.2	22.9	35.8	21.3
Dominican Republic	2003 ^c	51.7	1.4	3.9	7.8	12.1	19.4	56.8	41.3
Ecuador	1998 ^a	43.7	0.9	3.3	7.5	11.7	19.4	58.0	41.6
Egypt, Arab Rep.	1999–2000 ^a	34.4	3.7	8.6	12.1	15.4	20.4	43.6	29.5
El Salvador	2002 ^c	52.4	0.7	2.7	7.5	12.8	21.2	55.9	38.8
Eritrea	2003 ^a	 35.8	2.5	6.7	 11.8	16.3	22.4	42.8	
Estonia	1999-00 ^a				•		•	.=	27.6
Ethiopia Finland	2000°	30.0 26.9	3.9 4.0	9.1 9.6	13.2 14.1	16.8 17.5	21.5 22.1	39.4 36.7	25.5 22.6
France	1995 ^c	32.7	2.8	7.2	12.6	17.5	22.1	40.2	25.1
Gabon	1990	JZ.1			12.0	11.2	22.0	40.2	۷٠.1
Gambia, The	1998 ^a	50.2	1.8	4.8	8.7	12.8	20.3	53.4	37.0
Georgia	2003 ^a	40.4	2.0	5.6	10.5	15.3	22.3	46.4	30.3
Germany	2000°	28.3	3.2	8.5	13.7	17.8	23.1	36.9	22.1
Ghana	1998-99 ^a	40.8	2.1	5.6	10.1	14.9	22.9	46.6	30.0
Greece	2000°	34.3	2.5	6.7	11.9	16.8	23.0	41.5	26.0
Guatemala	2002 ^c	55.1	0.9	2.9	7.0	11.6	19.0	59.5	43.4
Guinea	1994 ^a	40.3	2.6	6.4	10.4	14.8	21.2	47.2	32.0
Guinea-Bissau	1993 ^a	47.0	2.1	5.2	8.8	13.1	19.4	53.4	39.3
Haiti	2001 ^c	59.2	0.7	2.4	6.2	10.4	17.7	63.4	47.7

Distribution of income or consumption 2.8

		Gini index				centage share			
	Survey year		Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Honduras	2003 ^c	53.8	1.2	3.4	7.1	11.6	19.6	58.3	42.2
Hungary	2002 ^a	26.9	4.0	9.5	13.9	17.6	22.4	36.5	22.2
India	1999–2000 ^a	32.5	3.9	8.9	12.3	16.0	21.2	43.3	28.5
Indonesia	2002 ^a	34.3	3.6	8.4	11.9	15.4	21.0	43.3	28.5
Iran, Islamic Rep.	1998 ^a	43.0	2.0	5.1	9.4	14.1	21.5	49.9	33.7
Iraq									
Ireland	2000°	34.3	2.9	7.4	12.3	16.3	21.9	42.0	27.2
Israel	2001 ^c	39.2	2.1	5.7	10.5	15.9	23.0	44.9	28.8
Italy	2000 ^c	36.0	2.3	6.5	12.0	16.8	22.8	42.0	26.8
Jamaica	2000 ^a	37.9	2.7	6.7	10.7	15.0	21.7	46.0	30.3
Japan	1993 ^c	24.9	4.8	10.6	14.2	17.6	22.0	35.7	21.7
Jordan	2002-03 ^a	38.8	2.7	6.7	10.8	14.9	21.3	46.3	30.6
Kazakhstan	2003 ^a	33.9	3.0	7.4	11.9	16.4	22.8	41.5	25.9
Kenya	1997 ^a	42.5	2.5	6.0	9.8	14.3	20.8	49.1	33.9
Korea, Dem. Rep.									
Korea, Rep. Kuwait	1998 ^c	31.6 	2.9	7.9	13.6 	18.0	23.1	37.5	22.5
Kyrgyz Republic	2003 ^a	30.3	3.8	8.9	12.8	16.4	22.5	39.4	24.3
Lao PDR	2002 ^a	34.6	3.4	8.1	11.9	15.6	21.1	43.3	28.5
Latvia	2003 ^a	37.7	2.5	6.6	11.2	15.5	22.0	44.7	29.1
Lebanon									
Lesotho	1995 ^a	63.2	0.5	1.5	4.3	8.9	18.8	66.5	48.3
Liberia									
Libya	00003								
Lithuania EVD	2003 ^a	36.0	2.7	6.8	11.6	16.0	22.3	43.2	27.7
Macedonia, FYR	2003 ^a 2001 ^a	39.0 47.5	2.4 1.9	6.1 4.9	10.8 8.5	15.5 12.7	22.2 20.4	45.5 53.5	29.6 36.6
Madagascar Malawi	1997 ^a	50.3	1.9	4.9	8.5	12.7	18.3	56.1	42.2
Malaysia	1997 ^c	49.2	1.7	4.4	8.1	12.9	20.3	54.3	38.4
Mali	1994a	50.5	1.8	4.6	8.0	11.9	19.3	56.2	40.4
Mauritania	2000a	39.0	2.5	6.2	10.6	15.2	22.3	45.7	29.5
Mauritius									
Mexico	2002 ^a	49.5	1.6	4.3	8.3	12.6	19.7	55.1	39.4
Moldova	2003 ^a	33.2	3.2	7.8	12.2	16.5	22.1	41.4	26.4
Mongolia	1998ª	30.3	2.1	5.6	10.0	13.8	19.4	51.2	37.0
Morocco	1998-99 ^a	39.5	2.6	6.5	10.6	14.8	21.3	46.6	30.9
Mozambique	1996-97 ^a	39.6	2.5	6.5	10.8	15.1	21.1	46.5	31.7
Myanmar									
Namibia	1993 ^c	74.3	0.5	1.4	3.0	5.4	11.5	78.7	64.5
Nepal	2003-04 ^a	47.2	2.6	6.0	9.0	12.4	18.0	54.6	40.6
Netherlands	1999 ^c	30.9	2.5	7.6	13.2	17.2	23.3	38.7	22.9
New Zealand	1997 ^c	36.2	2.2	6.4	11.4	15.8	22.6	43.8	27.8
Nicaragua	2001 ^a	43.1	2.2	5.6	9.8	14.2	21.1	49.3	33.8
Niger	1995 ^a	50.5	0.8	2.6	7.1	13.9	23.1	53.3	35.4
Nigeria	2003 ^a	43.7	1.9	5.0	9.6	14.5	21.7	49.2	33.2
Norway	2000 ^c	25.8	3.9	9.6	14.0	17.2	22.0	37.2	23.4
Oman	00000								
Pakistan	2002 ^a	30.6	4.0	9.3	13.0	16.3	21.1	40.3	26.3
Panama Panua New Cuinea	2002 ^c	56.4	0.8	2.5	6.4	11.2	19.6	60.3	43.6
Papua New Guinea	1996 ^a	50.9	1.7	4.5	7.9	11.9	19.2	56.5 61.2	40.5
Paraguay Peru	2002 ^c 2002 ^c	57.8 54.6	0.6 1.1	2.2 3.2	6.3 7.1	11.3 11.8	18.8 19.3	61.3 58.7	45.4 43.2
Philippines	2002° 2000°	46.1	2.2	5.4	8.8	13.1	20.5	58.7 52.3	36.3
Poland	2000 ^a	34.5	3.1	7.5	11.9	16.1	20.5	42.2	27.0
Portugal	1997 ^c	38.5	2.0	5.8	11.0	15.5	21.9	45.9	29.8
Puerto Rico	1001	55.5	۷.۷	0.0		10.0		10.0	20.0



2.8 Distribution of income or consumption

		Gini index				centage share			
	Survey year		Lowest 10%	Lowest 20%	Second 20%	Third 20%	Fourth 20%	Highest 20%	Highest 10%
Romania	2003 ^a	31.0	3.3	8.1	12.9	17.1	22.7	39.2	24.4
Russian Federation	2003 ^a	39.9	2.4	6.1	10.5	14.9	21.8	46.6	30.6
Rwanda	1983–85 ^a	28.9	4.2	9.7	13.2	16.5	21.6	39.1	24.2
Saudi Arabia	1903-00-	20.9		•	•		•	•	•
	1995ª	41.3	2.6	6.4	10.3		20.6	48.2	33.5
Senegal	1990-			•	•	14.5	••	*	•
Serbia and Montenegro	40003								
Sierra Leone	1989 ^a	62.9	0.5	1.1	2.0	9.8	23.7	63.4	43.6
Singapore	1998 ^c	42.5	1.9	5.0	9.4	14.6	22.0	49.0	32.8
Slovak Republic	1996 ^c	25.8	3.1	8.8	14.9	18.7	22.8	34.8	20.9
Slovenia	1998–99 ^c	28.4	3.6	9.1	14.2	18.1	22.9	35.7	21.4
Somalia									
South Africa	2000 ^a	57.8	1.4	3.5	6.3	10.0	18.0	62.2	44.7
Spain	2000 ^c	34.7	2.6	7.0	12.1	16.4	22.5	42.0	26.6
Sri Lanka	1999–2000 ^a	33.2	3.4	8.3	12.5	16.0	21.0	42.2	27.8
Sudan									
Swaziland	1994 ^c	60.9	1.0	2.7	5.8	10.0	17.1	64.4	50.2
Sweden	2000 ^c	25.0	3.6	9.1	14.0	17.6	22.7	36.6	22.2
Switzerland	2000 ^c	33.7	2.9	7.6	12.2	16.3	22.6	41.3	25.9
Syrian Arab Republic									
Tajikistan	2003 ^a	32.6	3.3	7.9	12.3	16.5	22.4	40.8	25.6
Tanzania	2000-01 ^a	34.6	2.9	7.3	12.0	16.1	22.3	42.4	26.9
Thailand	2002 ^a	42.0	2.7	6.3	9.9	14.0	20.8	49.0	33.4
Togo						••			
Trinidad and Tobago	1992 ^c	40.3	2.1	5.5	10.3	15.5	22.7	45.9	29.9
Tunisia	2000 ^a	39.8	2.3	6.0	10.3	14.8	21.7	47.3	31.5
Turkey	2003 ^a	43.6	2.0	5.3	9.7	14.2	21.0	49.7	34.1
Turkmenistan	1998 ^a	40.8	2.6	6.1	10.2	14.7	21.5	47.5	31.7
Uganda	1999 ^a	43.0	2.3	5.9	10.0	14.0	20.3	49.7	34.9
Ukraine	2003 ^a	28.1	3.9	9.2	13.6	17.3	22.4	37.5	23.0
United Arab Emirates									
United Kingdom	1999 ^c	36.0	2.1	6.1	11.4	16.0	22.5	44.0	28.5
United States	2000 ^c	40.8	1.9	5.4	10.7	15.7	22.4	45.8	29.9
Uruguay ^b	2003 ^c	44.9	1.9	5.0	9.1	14.0	21.5	50.5	34.0
Uzbekistan	2000 ^a	26.8	3.6	9.2	14.1	17.9	22.6	36.3	22.0
Venezuela, RB	2000 ^c	44.1	1.6	4.7	9.4	14.5	22.1	49.3	32.8
Vietnam	2002 ^a	37.0	3.2	7.5	11.2	14.8	21.1	45.4	29.9
West Bank and Gaza			••						
Yemen, Rep.	1998ª	33.4	3.0	7.4	12.2	16.7	22.5	41.2	25.9
Zambia	2002-03 ^a	42.1	2.4	6.1	10.2	14.2	20.7	48.8	33.7
Zimbabwe	1995 ^a	50.1	1.8	4.6	8.1	12.2	19.3	55.7	40.3

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

Distribution of income or consumption

About the data

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

Data on the distribution of income or consumption come from nationally representative household surveys. Where the original data from the household survey were available, they have been used to directly calculate the income or consumption shares by quintile. Otherwise, shares have been estimated from the best available grouped data.

For most countries the income distribution indicators are based on the same data used to derive the \$1 and \$2 a day poverty estimates in table 2.7. This table contains additional countries for which poverty estimates are not provided in table 2.7, either because no reasonable purchasing power parity estimates are available or because the international poverty lines are not relevant for high-income economies.

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

Because the underlying household surveys differ in method and type of data collected, the distribution data are not strictly comparable across countries. These problems are diminishing as survey methods improve and become more standardized, but achieving strict comparability is still impossible (see *About the data* for table 2.7).

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

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

Definitions

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

Data sources

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





2.9 Assessing vulnerability and security

	Urban informal sector employment		Youth unemployment		Female-headed households	Pens contrib				penditure nsions	
		urban oyment Female 1995– 2003 ^a	Male % of male labor force ages 15–24 2000–04 ^a	Female % of female labor force ages 15–24 2000–04 ^a	% of total 1990–2004 ª	Year	% of labor force	Year	% of GDP	Year	Average pension % of per capita income
Afghanistan					••		······································			•	
Albania			42	27		2004	40.7	2004	4.6	1995	36.4
Algeria						2002	38.9	1997	2.1	1991	75.0
Angola											
Argentina			34	34		2004	34.9	1994	6.2	•	
Armenia					29	1995	66.6	2004	3.4	1996	18.7
Australia			12	11		2003	92.6	1997	5.9	1989	37.3
Austria			9	10		2004	86.8	1995	14.9	1993	69.3
Azerbaijan						1996	52.0	2003	3.0	1996	51.4
Bangladesh			11	10	10	1993	3.5	1992	0.0	•	
Belarus						1992	97.0	2004	10.6	1995	31.2
Belgium			16	20		1995	86.2	1997	12.9		
Benin	50	41			21	1996	4.8	2003	1.3	1993	189.7
Bolivia			7	10	20	2002	10.8	2000	4.5	-	
Bosnia and Herzegovina						2004	37.7	2003	7.4	•	
Botswana			34	46		0004		1996	2.7		••
Brazil	27	27	15	22	20	2004	56.4	1997	9.8	4005	
Bulgaria			31	25		1994	64.0	2005	8.9	1995	39.3
Burkina Faso	••	••			9	1993	3.1	1992	0.3	1992	207.3
Burundi Cambodia	••	••	••	••		1993	3.3	1991	0.2	1991	57.4
					25	1993	13.7	2004	0.1	•	••
Cameroon Canada			15	12	24	2003	68.3	1997	0.1 5.4	1994	54.3
Central African Republic	••	••			21	2003		1990	0.3	1994	·· · ······
Chad					22	1990	1.1	1997	0.1	•	••
Chile			17	23		2003	56.2	2001	2.9	1993	 56.1
China						1994	17.6	1996	2.7	1000	
Hong Kong, China			19	11						•	
Colombia					28	1999	20.7	1994	1.1	1989	72.2
Congo, Dem. Rep.										•••••	
Congo, Rep.						1992	5.8	1992	0.9	•	
Costa Rica			13	18		2004	62.5	1997	4.2	1993	76.1
Côte d'Ivoire					14	1997	9.3	1997	0.3		
Croatia			35	40		2004	100.0	2005	12.3		
Cuba								1992	12.6		
Czech Republic			21	20		1995	85.0	2003	8.5	1996	37.0
Denmark			9	7		2003	91.4	1997	8.8	1994	46.7
Dominican Republic			16	34	28	2001	26.8	2000	0.8	2000	42.0
Ecuador			19	25		2004	30.9	2002	1.4	2002	55.3
Egypt, Arab Rep.			19	51	12	2004	65.0	1994	2.5	1994	45.0
El Salvador			14	8		2003	25.1	1997	1.3	•	
Eritrea					47	100=		2001	0.3	400=	
Estonia			17	26		1995	76.0	2003	6.1	1995	56.7
Ethiopia	39	65			24	2022		2003	0.4		
Finland			22	19		2003	91.2	1997	12.1	1994	57.4
France Gabon			22	24	26	2003	90.1	1997	13.4	<u>.</u>	
Gambia, The					26	1995	15.0		···	•	••
Georgia	21	7	20	32	••	2004	25.9	2004	3.0	1996	12.6
Germany		••••••	13	32 10		2004	25.9 87.9	1997	12.1	1995	62.8
Ghana			13	19		2003	7.4	2004	0.6	1000	02.0
Greece			19	36		2003	81.9	1993	11.9	1990	85.6
Guatemala					20	2002	16.4	1995	0.7	1995	27.6
Guinea					13	1993	1.5				
Guinea-Bissau											
Haiti					43					•••••	
	······································								······································	•	

Assessing vulnerability and security 2.9

	Urban informal sector employment		Youth unemployment		Female-headed households	Pension contributors					
		urban Dyment Female 1995– 2003 ^a	Male % of male labor force ages 15–24 2000–04 ^a	Female % of female labor force ages 15–24 2000–04 ^a	% of total 1990–2004 ^a	Year	% of labor force	Year	% of GDP	Year	Average pension % of pe capita income
	2003	2003			1330-2004	-				•	
londuras			6	12		1999	20.6	1994	0.6		
łungary 	···		16	14		1996	77.0	2001	11.0	1996	33.6
ndia 	54	41	10	10	10	1992	10.6			•	
ndonesia	••				12	1995	8.0	0004		•	
ran, Islamic Rep.	·····				••	2000	35.1	2001	1.5	•	
raq	••				••	2004	18.4	1007		1002	77.0
reland			9	7	••	2002	100.0	1997	4.6	1993	77.9
srael	••		22	22	••	1992	82.0	1996	5.9	1992	48.1
taly	••		21	27	••	2003	86.0	1997	17.6	1000	25 (
amaica	••		22	32	···	1999	44.4	1996		1989	25.9
apan	••		11	8		2003	92.8	1997	6.9	1989	33.9
ordan	••			16	12 33	2001 2004	36.0 35.4	2003 2004	1.9 4.9	1995 2001	144.0 23.0
Kazakhstan Kanya	••		13	•	33	1995	35.4 18.0	2004	4.9 6.4	∠UU1	∠3.0
Kenya Koroa Dom Pon	••		••			1990	18.0	2003		•	•
Korea, Dem. Rep. Korea, Rep.			12	9	••	2003	 88.7	1997	1.3		
Kuwait	••		••••••	•	••	2003		1997	3.5		
	 52		15	 16		1007	44.0		·· · ····	2004	45.0
(yrgyz Republic ∟ao PDR	52	48	15	16	33	1997	44.0	1997	6.4	2001	45.0
atvia	••		17	20	••	1995	60.5	2002	8.2	1994	47.6
Lebanon					••	2003	26.1	2002		1994	
_esotho	••				···	2003				•	······································
iberia	••				••					•	
_ibya			••		••	2003	72.8		••	•	
_ithuania	50	 27	23	28		2003	70.7	2003	6.2	1995	21.3
Macedonia, FYR	······	•	65	67	••	1995	49.0	1998	8.7	1996	91.6
Madagascar	••				22	1993	5.4	1990	0.2	1990	
Malawi	••				27	1000	0.4	1330		•	
Malaysia	••		8	8		1993	48.7	2004	0.7	•	•
Mali			•		11	1990	2.5	1991	0.4	•	·
Mauritania					29	1995	5.0	1996	0.2	•	
Mauritius		•	•	•		1995	60.0	2002	4.5	•	
Mexico	18	22	6	8		2002	25.1	2001	7.8	•	••
Moldova			17	13				2003	8.0	•	
Mongolia			20	21				2003	8.3		
Morocco			17	16	17	2003	19.2	2002	2.5	1994	118.0
Mozambique					26	1995	2.0	2004	1.4		
Myanmar											
Namibia			40	49	42					•	
Vepal	60	76			16	•				•	
Netherlands			8	8		2002	100.0	1997	11.1	1989	48.5
New Zealand			9	10		2003	95.7	1997	6.5	•	
licaragua			11	16	31	2001	14.9	1996	2.5	•	
liger					13	1992	1.3	1992	0.1		
ligeria					17	1993	1.3	2002	1.5	1991	40.5
lorway			13	11	••	2003	95.3	1997	8.2	1994	49.9
)man					••						
akistan	64	61	12	21	7	1993	3.5	2004	0.9	• • • • • • • • • • • • • • • • • • • •	
anama			24	38		1998	51.6	1996	4.3	•	
apua New Guinea						. *				***************************************	
Paraguay			12	17	17	2004	14.3	2001	0.7 ^b	• • • • • • • • • • • • • • • • • • • •	
Peru			18	21	20	2003	20.8	2000	2.6	•	
Philippines	16	19	24	31	15	1996	28.3	1993	1.0	•	
Poland			39	43		1996	68.0	2003	13.9	1995	61.2
Portugal			14	18		2003	94.7	1997	10.0	1989	44.6
Puerto Rico	·····	•	24	25	••	•				•	•••••



2.9 Assessing vulnerability and security

	Urban informal sector employment		Youth unemployment		Female-headed households	Pension contributors					
		urban pyment Female 1995– 2003 ^a	Male % of male labor force ages 15–24 2000–04 ^a	Female % of female labor force ages 15–24 2000–04 ^a	% of total 1990–2004 ^a	Year	% of labor force	Year	% of GDP	Year	Average pension % of per capita income
Romania		•	18	19		1994	55.0	2002	7.1	1994	34.1
Russian Federation	10	9	•••••			1334		2002	5.8	1995	18.3
Rwanda	··· ·· ······	•				1993		2004		1990	10.3
					36	1993	9.3		••	•	••
Saudi Arabia						0000		4000		4007	 or oh
Senegal					18	2003	4.1	1998	1.5	1997	85.0 ^b
Serbia and Montenegro	·· -							2004	10.3		
Sierra Leone						2004	3.5	4000			
Singapore			6	10	••	1995	73.0	1999	0.5		
Slovak Republic	·-		34	31		2000	70.9	2003	7.4	1994	44.5
Slovenia			13	15		1995	86.0	2003	10.1	1996	49.3
Somalia											
South Africa	16	28	56	65	42				••		••
Spain			19	26		2003	91.2	1997	10.9	1995	54.1
Sri Lanka			22	36		1992	28.8	2005	1.8		
Sudan					••	1995	12.1		••		
Swaziland					••	•					
Sweden			18	16		2003	87.1	1997	11.1	1994	78.0
Switzerland			8	7	••	2003	100.0	1997	13.4	1993	44.4
Syrian Arab Republic			21	39	••			1991	0.5		
Tajikistan					••			1996	3.0	••••••	
Tanzania	60	 85	•	•	23	1996	2.0	1000			
Thailand	··· ·	•	5	4		1999	18.0		••		••••
			••••••	•	24	1997	15.9	1997	0.6	1993	178.8
Togo						1997			·· · ·····	1993	110.0
Trinidad and Tobago			17	26	••	0000		1996	0.6		
Tunisia 						2003	48.2	2000	4.2	1991	89.5
Turkey	10	6	20	19	10	2002	33.2	2002	7.1	1993	56.0
Turkmenistan					27	-		1996	2.3		
Uganda					28	1994	8.2	2003	0.3		
Ukraine	5	5	16	17		2005	67.5	2005	15.4	1995	30.9
United Arab Emirates					••						
United Kingdom			12	10	••	2003	96.2	1997	10.3		
United States			13	11		2003	92.2	1997	7.5	1989	33.0
Uruguay			34	44	••	2004	37.1	1996	15.0	1996	64.1
Uzbekistan					22			2004	0.1	1995	45.8
Venezuela, RB			24	35		2004	29.3	2001	2.7	•	
Vietnam			4	5	26	1998	8.4	1998	1.6		
West Bank and Gaza			43	37	••	2000	18.6			•••••	
Yemen, Rep.					9	1999	13.5	1994	0.1	••••••	
Zambia	·· ·	•	•		23	1994	10.2	1993	0.1		
Zimbabwe			28	21	34	1995	12.0	1000			
World						1990	⊥∠.∪				
Low income			W	W							
		•		••••							
Middle income	··· -			••						•	
Lower middle income											
Upper middle income		•	19	20							
Low & middle income	··-								·		
East Asia & Pacific	<u>.</u>										
Europe & Central Asia											
Latin America & Carib.			12	17							
Middle East & N. Africa											
South Asia			10	13							
Sub-Saharan Africa											
High income			14	13							
Europe EMU		•	18	20						••••••	··•·····

a. Data are for the most recent year available. b. Refers to system covering private sector workers.

Assessing vulnerability and security

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. Thus, it depends primarily on the household's asset endowment and insurance mechanisms. Because poor people have fewer assets and less diversified sources of income than the better-off, fluctuations in income affect them more.

Enhancing security for poor people means reducing their vulnerability to such risks as ill health, providing them the means to manage risk themselves, and strengthening market or public institutions for managing risk. The tools include microfinance programs, old age assistance and pensions, and public provision of education and basic health care (see tables 2.10 and 2.14).

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

For informal sector employment, the data are from labor force and special informal sector surveys, various household surveys, surveys of household industries or economic activities, surveys of small and micro enterprises, 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 these definitions, see *Data sources*.

Youth unemployment is an important policy issue for many economies. Experiencing unemployment may permanently impair a young person's productive potential and future employment opportunities. The table presents unemployment among youth ages 15–24, but the lower age limit for young people in a country could be determined by the minimum age for leaving school, so age groups could differ across countries. Also, since this age group is likely to include school leavers, the level of youth unemployment varies considerably over

the year as a result of different school opening and closing dates. The youth unemployment rate shares similar limitations on comparability as the general unemployment rate. For further information, see *About the data* for table 2.5.

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

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

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

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

Definitions

- Urban informal sector employment is broadly characterized as employment in urban areas in units 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. Youth unemployment refers to the share of the labor force ages 15–24 without work but available for and seeking employment. Definitions of labor force and unemployment may differ by country (see About the data).
- Female-headed households refer to the percentage of households with a female head. Pension contributors refer to the share of the labor force covered by a pension scheme. 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.

Data sources

Data on urban informal sector employment and youth unemployment are from the ILO database Key Indicators of the Labour Market, fourth edition. Data on female-headed household are from Demographic and Health Surveys by Macro International. Data on pension contributors and pension spending are from Robert Palacios and Montserrat Pallares-Miralles's "International Patterns of Pension Provision" (2000) and updates. Further updates, notes, and sources will be available under "Knowledge and information" on the World Bank's Web site on pensions (www. worldbank.org/pensions).



				openditure tudent				openditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
	Prim 1991	nary ^a 2004^b		per capita ondary 2004 ^b	Tert 1999	iary 2004^b	% of GDP 2004 ^b	% of total government expenditure 2004 ^b	% of total	pupils per teacher 2004 ^b
A6-1										
Afghanistan Albania		7.7		11.9	••	 36.3	2.8	••		65 <i>2</i> 1
Algeria	••	11.3	••	17.1	••			••	98.3	27
Angola										
Argentina		10.9	16.4	14.9	17.7	 13.1	4.0	13.8		 17
Armenia		8.9	12.4	11.1	29.1	38.3	3.2		66.7	22
Australia		16.4	14.9	14.6	26.3	22.6	4.9			
Austria	18.6	23.9	30.7	28.2	53.0	47.0	5.7			13
Azerbaijan		7.6	17.2	13.4	19.3	12.8	3.3	19.2	99.8	14
Bangladesh		7.2	12.7	13.7	47.2	33.8	2.2	15.5	51.2	54
Belarus		13.7		22.9		27.6	5.8	13.0	98.5	15
Belgium	16.3	19.0	24.4	25.2	46.0	38.6	6.3			12
Benin		12.2	26.1	22.1	202.9		3.3		72.2	52
Bolivia		16.4	11.7	13.0	44.1	35.9	6.4	18.1		24
Bosnia and Herzegovina										
Botswana			5.6		92.6				89.7	26
Brazil			10.5		63.2					24
Bulgaria	22.4	16.2	18.8	19.0	18.0	18.7	3.6			17
Burkina Faso									89.5	49
Burundi	13.4	19.9		75.8	1,190.1	442.1	5.2	13.0		51
Cambodia		6.5	6.8		46.8		2.0		96.5	55
Cameroon			18.6		71.3	75.7	3.8	17.2	68.5	53
Canada					49.3					17
Central African Republic	11.9			·						
Chad	8.0		33.6	·••	••	••				69
Chile		15.3	14.9	16.3	19.4	15.3	4.1	19.1		34
China			12.7		99.2				96.8	21
Hong Kong, China		16.0	18.2	22.0	62.9	67.9	4.7	23.3	91.8	19
Colombia		16.7	17.0	16.0	39.9	26.3	4.9	11.7		28
Congo, Dem. Rep.		7.9		10 2		 245.9				
Congo, Rep. Costa Rica	7.8	17.1	23.2	18.3 19.7	404.9		3.2	 40 F	62.2 97.4	83
Côte d'Ivoire		•	23.2 54.5		55.0 212.8	36.3	4.9	18.5	100.0	22 42
Croatia	••	24.0		23.5	41.3	 34.5	 4.5	10.0	100.0	18
Cuba	21.4		41.3		86.4		4.5 	19.4	100.0	10
Czech Republic		12.0	22.1	23.0	34.4	31.8	4.4		•	17
Denmark	··	24.9	38.3	36.1	66.2	74.6	8.5			 /
Dominican Republic		5.0	2.5	1.3			1.1	6.3	79.4	21
Ecuador			9.6						70.9	23
Egypt, Arab Rep.							••			22
El Salvador		9.4	7.9	9.0	9.3	11.1	2.8	20.0		
Eritrea		9.8	37.2	17.4	428.9	855.5	3.8		83.1	47
Estonia		19.8	28.0	25.5	32.7	24.9	5.7			14
Ethiopia	32.0		••				6.1	20.4		65
Finland	21.9	18.3	26.4	27.4	41.3	38.1	6.4			16
France	12.0	17.8	29.0	28.6	30.2	29.3	5.6			19
Gabon									100.0	36
Gambia, The	13.7	7.1		8.7		229.7	1.9	8.9		
Georgia							2.9	13.1	97.4	22
Germany		16.7	20.8	22.6	41.1	43.0	4.8			14
Ghana									60.7	32
Greece	7.6	15.6	17.4		29.5	26.8	4.0			12
Guatemala		4.7	4.2	3.7			••			31
Guinea										45
Guinea-Bissau			••						······································	
Haiti	9.1									••

Education inputs 2.10

				penditure tudent				xpenditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
	Primary ^a		% of GDP per capita Secondary		Tertiary		% of GDP	% of total government	1	pupils per teacher
	1991	2004 ^b	1999	2004 ^b	1999	2004 ^b	2004b	expenditure 2004 ^b	% of total 2004 ^b	2004 ^b
Honduras									87.2	34
Hungary	21.1	20.8	19.1	21.4	34.3	36.1	5.5			10
India			21.6		75.7					41
Indonesia		2.9	8.7	5.6	21.9	15.6	1.1	9.0		20
Iran, Islamic Rep.		10.5	10.9	11.5	38.4	26.5	4.8	17.7	100.0	20
Iraq							••	••	100.0	21
Ireland	11.6	12.4	16.9	18.1	28.8	26.6	4.3			19
Israel	11.9	23.0	22.7	23.5	32.1	26.6	7.5	13.7		15
Italy	15.3	25.4	26.8	28.1	25.6	27.4	4.7			11
Jamaica	9.9	15.5	25.6	24.8	85.9	44.6	5.3	9.5		30
Japan 		22.2	20.5	21.7	14.9	17.1	3.6	••		20
Jordan		15.2	16.4	18.0						20
Kazakhstan		10.1		7.9		6.2	2.4			18
Kenya	13.4	25.2	18.4	25.1	255.5	409.2	7.0	29.2	98.8	40
Korea, Dem. Rep.						 F 2				
Korea, Rep. Kuwait	11.8	16.3	15.6	23.7	8.3	5.0	4.2	15.5		30
	34.8	25.9		28.3		178.1	8.2	17.4	100.0	13
Kyrgyz Republic Lao PDR	••	7.7 6.7	11.9 4.3	14.5 8.9	27.7 66.9	21.2 82.4	4.6 2.3	23.0 11.0	57.9 79.4	24 31
Latvia	••	22.4	4.3 23.5	25.9	23.0	62.4 19.0	2.3 5.8	11.0	19.4	31 14
Lebanon	••		6.2	•	12.9	19.0	2.6	 12.7	13.5	14
Lesotho	••	20.8	69.1	 48.6	1,249.9	603.3	9.0		66.8	44
Liberia		•••••	•	•	1,249.9					
Libya					23.8	••	····•	···•	••	••
Lithuania					34.4	32.9	5.9			16
Macedonia, FYR		23.6		7.7		23.7	3.5			20
Madagascar			39.9		180.9	184.2	3.3	18.2		52
Malawi	7.4	14.4		30.3			6.0			
Malaysia	10.1	20.2	22.3	28.3	83.3	102.4	8.1	20.3		19
Mali			61.6		265.0					52
Mauritania			45.4		99.9		3.4		100.0	45
Mauritius	10.3	13.6	15.6	20.3	41.2	45.3	4.7	15.7	100.0	22
Mexico	4.9	14.4	14.5	16.2	48.8	49.8	5.3			27
Moldova		17.1	21.2	26.2	19.0	20.7	4.9	21.4		19
Mongolia		15.7	19.5	14.6	36.4	25.0	7.5	19.1		35
Morocco	15.8	19.3	51.4	46.9	109.6	87.2	6.3	27.8		28
Mozambique										65
Myanmar			7.1		29.0				65.0	33
Namibia		21.3	37.4	25.5	161.7	112.6	7.2		49.5	28
Nepal		12.7	13.5	10.7	144.9	72.7	3.4	14.9	30.5	40
Netherlands	12.6	18.0	21.8	22.9	44.2	39.8	5.1	······		
New Zealand	17.2	18.7	24.3	22.2	41.6	35.6	6.7	15.1		18
Nicaragua		9.1		10.7			3.1	15.0	74.6	35
Niger		19.0	88.4	64.3	344.8	345.1	2.3		75.6	44
Nigeria	22.0			20.7			76	••	50.7	36
Norway Oman	32.8 11.7	20.5 13.1	27.0 22.2	30.7 20.5	46.3 <i>47.5</i>	48.5 53.8	7.6 4.6	26.1	 99.8	<i>10</i> 19
Pakistan	•••••	•••••	•	∠∪.∪	••••••		2.0	••••	<i>9</i> 9.0	19 47
Panama		9.9	19.1	12.6	33.6	27.0	3.9	 8.9	74.3	24
Papua New Guinea		9.9		-			3.9 			35
Paraguay	•	12.3	17.3	 13.7	 55.2	28.2	4.4	 11.4		27
Peru		6.4	9.2	8.7	21.3	14.0	3.0	17.1		25
Philippines		11.1	10.7	9.2	15.0	14.5	3.2	17.8		35
Poland	••	23.5	11.6	20.8	21.5	22.1	5.6	12.8		13
Portugal	17.2	24.0	29.1	31.6	29.7	26.0	5.8			11
Puerto Rico						_0.0				

				penditure tudent				xpenditure ucation	Trained teachers in primary education	Primary pupil- teacher ratio
			% of GDP per capita					% of total government	t	pupils per
	1991	Primary ^a 2004 ^b	Seco 1999	ondary 2004^b	Terti 1999	ary 2004^b	% of GDP 2004 ^b	expenditure 2004 ^b	% of total	teacher 2004 ^b
	1331							2004	. 2004	
Romania		9.9	15.9	15.1	32.4	26.5	3.5	······································		17
Russian Federation	••					••	3.8	10.7	99.0	17
Rwanda	•••		28.4			••	····		81.7	62
Saudi Arabia			31.4							12
Senegal	19.4					••	4.0		50.9	43
Serbia and Montenegro	••					••	••	••	••	••
Sierra Leone	••						••			••
Singapore										
Slovak Republic		11.3	18.5	18.8	33.0	31.1	4.3	••	••	18
Slovenia	16.8				28.7	26.3	6.0	••		13
Somalia										
South Africa		13.7	21.5	20.3	65.2	47.1	5.4	18.1	78.7	34
Spain	11.7	19.2	25.3	24.7	20.4	23.1	4.5			14
Sri Lanka										23
Sudan										29
Swaziland	7.6	11.0	26.7	47.4	397.3	260.5	6.2		90.6	31
Sweden	46.5	24.4	26.4	26.7	53.3	50.6	7.7			11
Switzerland	36.5	24.3	27.7	29.2	54.5	59.9	5.8			
Syrian Arab Republic		14.5	22.1	26.8		···				18
Tajikistan	••	6.7		9.2		8.8	2.8	16.9	84.1	22
Tanzania	•••			···	·····	···		···	100.0	58
Thailand _	11.6	13.8	11.5	13.0	35.5	22.7	4.2	27.5		21
Togo		6.7	30.9		317.9		2.6	13.6	45.0	44
Trinidad and Tobago		16.0	12.2	··	147.6		4.3		81.0	18
Tunisia - :		15.5	26.7	23.6	78.7	62.8	6.4			22
Turkey	10.9	13.9	14.4	9.4	46.0	50.3	3.6			
Turkmenistan		·····	·							
Uganda		11.6	·••	34.9		194.1	5.2	18.3	80.4	50
Ukraine		10.4	11.2	15.7	36.4	27.1	4.6	18.3	99.7	19
United Arab Emirates		7.7	11.6	13.3		2.2	1.6	22.5	60.9	15
United Kingdom	14.9	16.4	15.7	15.5	26.2	28.9	5.3	11.5		17
United States	···	21.8	22.7	25.2	27.2	26.2	5.7			15
Uruguay	7.8	7.9	11.4	9.0	19.3	19.0	2.6	9.6		21
Uzbekistan										
Venezuela, RB					···			······································		20
Vietnam							4.4	17.1	87.0	23
West Bank and Gaza										27
Yemen, Rep.	••									
Zambia		9.3	19.9	11.9	168.2		2.8	14.8	100.0	49
Zimbabwe	21.3		20.0		200.4					39
World	1	m 15.2 m	20.0 m	18.9 m	<i>38.5</i> m	<i>34.5</i> m	4.4 m	m	m	29 m
Low income						····				43
Middle income		13.1	16.3	16.3	37.8	32.5	4.4			22
Lower middle income	••	11.3	14.1	13.6		29.9	3.5			22
Upper middle income		14.4	17.8	19.6	33.9	32.7	4.5			22
Low & middle income		12.4				••	4.1	••		31
East Asia & Pacific		9.5	8.4		34.3		3.2		95.4	22
Europe & Central Asia		12.0	16.4	16.4	31.1	25.7	4.1			17
Latin America & Carib.		12.3	14.9	14.3	37.5	29.0	4.3	15.3		25
Middle East & N. Africa		14.5		20.5						24
South Asia			13.5		86.7		2.4			42
Sub-Saharan Africa		·	<u></u>	<u> </u>	······································	·-				49
High income	16.3	19.1	24.3	24.7	32.1	28.9	5.6			16
Europe EMU	14.0	18.3	25.3	26.3	30.2	29.3	5.1			14

a. Break in series between 1997 and 1998 due to change from International Standard Classification of Education (ISCED) 1976 to ISCED97. b. Provisional data.

About the data

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

The data on education spending in the table 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 criticism. For most countries, the data reflect only public spending. Data for a few countries include private spending, although

national practices vary with respect to whether parents or schools pay for books, uniforms, and other supplies. For greater detail, see the country- and indicator-specific notes in the source.

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

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

The primary pupil-teacher ratio reflects the average numbers of pupils per teacher. It is different from the average class size because of the different practices countries employ, such as part-time teaching, school shifts, and multigrade classes. The comparability of pupil-teacher ratios across countries is affected by the definition of teachers and by differences in class size by grade and in the number of hours taught, as well as the different practices mentioned above. Moreover, the underlying enrollment levels are subject to

a variety of reporting errors (for further discussion of enrollment data, see *About the data* for table 2.11). 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).

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

And in 2006 the UNESCO Institute for Statistics changed its convention for citing the reference year of education data and indicators to the calendar year in which the academic or financial year ends. Data that used to be listed for 2003/04, for example, is now listed for 2004. This change was implemented to present the most recent data available and to align the data reporting with that of other international organizations (in particular the Organisation for Economic Co-operation and Development and Eurostat).

Definitions

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

2.10a

Estimated impact of HIV/AIDS on education in three Sub-Saharan countries, 2005													
		Kenya			Tanzania			Zambia					
	Low	Medium	High	Low	Medium	High	Low	Medium	High				
Teacher deaths due to AIDS	700	1,620	3,020	605	1,290	2,010	580	1,030	1,500				
Share of teacher attrition (%)	7.5	18	29.6	9.3	19.9	31	23.3	40.4	48.8				
Teacher-years of absenteeism													
due to AIDS	690	1,590	2,930	610	1,290	2,200	605	1,090	1,580				
Share of total teacher-years (%)	0.4	0.8	1.8	0.5	1.1	2.3	1.3	2.2	3.9				

In the best-case scenario (low estimate) Kenya, Tanzania, and Zambia will lose 600–700 teacher-years through absentee-ism caused by HIV/AIDS. In the worst-case scenario (high estimate) they will lose 1,200–3,000 teacher-years.

Note: The teacher infection rate is half the general population infection rate for the low estimate, the same as the general population infection rate for the medium estimate, and twice the general population infection rate for the high estimate. All estimates are modeled estimates.

Source: Desai and Jukes 2005 cited in UNESCO 2006 (p.88).

Data sources

Data on education inputs are from the UNESCO Institute for Statistics, which compiles international data on education in cooperation with national commissions and national statistical services. Data for latest years are provisional, as of January 2006.





2.11 Participation in education

		Gross en rat				Net enr rat	ollment tio		Childrer sch	
	Preprimary	% of relevan	nt age group Secondary	Tertiary	Prim	% of relevan nary ^a		ndary ^a	thous primary-schoo Male	
	2004 ^b	2004 ^b	2004 ^b	2004 ^b	1991	2004 ^b	1991	2004 ^b	2004	2004
Afghanistan	1	90	13	1						
Albania	49	104	78	16	95	96		74	5	6
Algeria	5	112	81	20	89	97	53	66	0	41
Angola				1	50					
Argentina	62	118	99	61				81	3	11
Armenia	31	101	91	26		97		89	3	0
Australia	100	102	154	74	99	95	79	85	51	44
Austria	88	105	100	49	88	·····		89	·	
Azerbaijan	28	97	83	15	89	84		77	50	51
Bangladesh	12	106	51	7				48		
Belarus	100	101	93	61	86	95		87	13	19
Belgium	116	105	160	61	96	100	87	97	4	4
Benin	4	99	26 89		41	83 95	••	 74		10
Bolivia Bosnia and Herzegovina		113		41			••	•••••	25	18
Botswana		 104		6	 83		35	 60	 29	22
Brazil	 55	145	110	20	85	97	17	75		······································
Bulgaria	77	105	99	41	86	94	63	88	6	7
Burkina Faso	1	53	12	1	29	40		10	590	681
Burundi	1	80	12	2	53	57		8	240	278
Cambodia	9	137	26	3	69	98		25		
Cameroon	20	114	44	5	74					
Canada	65	101	105	57	98		89			
Central African Republic	3	64	12		52					
Chad		71	15		35	57		11	243	413
Chile	50	99	88	43	89	86	55	78	119	124
China	36	115	70	15	97					
Hong Kong, China	70	108	85	32		97		78	1	12
Colombia	38	111	75	27	69	83	34	55	379	334
Congo, Dem. Rep.	1				54					
Congo, Rep.	6	89	32	4	79					
Costa Rica	64	112	68	19	87	92	38	50	22	18
Côte d'Ivoire	3	72	25		45	56		20	519	705
Croatia	47	94	88	39	79	87	63	85	7	7
Cuba	116	100	93	54	93	96	70	87	9	20
Czech Republic	104	102	97	37	87	87		90	38	36
Denmark	90	103	127	67	98	100	87	95	<i>O</i> c	0
Dominican Republic	32	112	68	33	57	86		49	77	63
Ecuador	77	117	61		98	99	••	52	11	0
Egypt, Arab Rep.	14	100	<i>87</i>	29	84	94		79 48	78	218
El Salvador Eritrea	50	113	60	18		91		48	35	32
	7 109	66 100	28 <i>96</i>	1 64	16 99	48 <i>9</i> 5		19 <i>88</i>	135	156
Estonia Ethiopia	2	77	28	2	22	95 46	••	25	1	1
Finland	57	102	28 127	2 87	98	100	93	25 94	1	1
France	113	102	110	55	100	100	•	9 4 95	7	3
Gabon	113	130	50		85					······································
Gambia, The	18			 1	48			33		
Georgia	49	95	 82	41	97	93		69	14	14
Germany	99	99	100	50	84					
Ghana	46	81	42	3	54	 58		36	624	 597
Greece	67	100	96	72	95	98	83	84	2	2
Guatemala	28	113	49	10		93		34	32	80
Guinea	6	79	26	2	27	64		21	228	291
Guinea-Bissau	••				38					
Haiti					22					
	···•		•	•	•	•	•	•••••		

Participation in education 2.11

			nrollment ntio			Net enr rat			Childrei sch	out of
	Preprimary 2004^b	% of releva Primary 2004 ^b	nt age group Secondary 2004 ^b	Tertiary 2004 ^b	Prin 1991	% of relevan nary ^a 2004^b		ndary ^a 2004^b	thous primary-schoo Male 2004	
			2004					2004		
Hundary	33 <i>79</i>	118 <i>99</i>	 103	16 52	89 91	91 <i>89</i>	21 75	 92	57 <i>9</i>	45 <i>8</i>
Hungary India	34	107	52	52 11	•	87		•		
Indonesia	22	116	62	16	 97	96	39	 55	0	 215
Iran, Islamic Rep.	37	103	82	22	92	89		78	400	402
Iraq	6	98	45	15	94	88		38		
Ireland		106	109	55	90	96	80	85	9	8
Israel	110	112	93	57	92	99		89	7	6
Italy	101	101	99	59	100	99		91	4	9
Jamaica	81	93	84	19	96	88	64	75	20	18
Japan	84	100	102	52	100	100	97	100	6	0
Jordan	30	100	88	35	94	93		82	18	11
Kazakhstan	31	109	98	48	89	98		92	4	6
Kenya	53	111	48	••		76			618	607
Korea, Dem. Rep.										
Korea, Rep.	87	105	91	89	100	100	86	88	O _c	9
Kuwait	71	96	90	22	49	86		78	9	6
Kyrgyz Republic	12	98	88	40	92	90			10	9
Lao PDR	8	116	46	6	63	84		37	50	68
Latvia	75	95	95	71	92	87	••	87	6	6
Lebanon Lesotho	74 31	107	89 36	48 <i>3</i>	73 71	93 86	15	23	10 27	10
Liberia		131	30		•	•	•	•	······································	18
Libya	8	 112	104	 56	96				••	••
Lithuania	62	100	103	69		 92			 5	4
Macedonia, FYR	31	98	84	27	94	92		81	2	1
Madagascar	10	134		3	64	89			136	136
Malawi		125	29	O _C	48	95		25	71	19
Malaysia	99	93	70	29	••	93		70	113	107
Mali	3	64	22	2	21	46	5		557	615
Mauritania	2	94	20	3	35	74		14	58	60
Mauritius	95	103	80	17	91	95		75	4	2
Mexico	81	109	79	22	98	100	44	62	25	8
Moldova	50	85	74	32	89	78		69	23	22
Mongolia	33	102	93	39	90	84		82	13	11
Morocco	53	106	47	11	56	87		35	204	302
Mozambique		95	11	1	43	71		4	475	614
Myanmar		93	38	11	98	85 		34	408	374
Namibia	29	101	58	6	••	74	••	37	59	47
Nepal	17	114	43	6						
Netherlands	87	108	122	58	95	99	84	89	0°	8
New Zealand Nicaragua	<i>90</i> 35	102 112	119 64	72 18	98 73	100 88	85	92 41	1 25	1 23
Niger	1	45	8	18	73 22	39	5	7	609	717
Nigeria	15	99	35	10				28	003	111
Norway	82	99	114	80	100	99	 88	95		1
Oman	6	87	86	13	69	78		75	38	33
Pakistan	45	82	27	3	33	66			2,294	3,834
Panama	55	112	70	46		100		64	2	3
Papua New Guinea	59	75	26							
Paraguay	30	110	65	26	94	89	26	51	46	42
Peru	58	118	90			100		69	3	0
Philippines	39	113	84	29	96	94		59	385	269
Poland	51	100	105	59	97	98	76	91	33	25
Portugal	75	118	109	56	98			82	2	4
Puerto Rico										••



2.11 Participation in education

			nrollment atio			Net enre rat			Children sch	
	Preprimary	Primary	int age group Secondary	Tertiary		% of relevan	Seco	ndary ^a	thou: primary-schoo Male	l-age children Female
	2004 ^b	2004 ^b	2004 ^b	2004 ^b	1991	2004 ^b	1991	2004 ^b	2004	2004
Romania	76	100	85	36	81	90	••	81	33	34
Russian Federation	67	118	93	65	99					
Rwanda	3	119	14	3	66	73	7		205	185
Saudi Arabia	5	67	68	28	59	53	31	52	824	806
Senegal	6	76	19	5	43	66		15	296	320
Serbia and Montenegro		••		······································	69	····	62			······································
Sierra Leone				2	43					
Singapore										
Slovak Republic	88	100	92	34		85		88	21	19
Slovenia	68	111	112	70	96	96		95	1	1
Somalia					9					
South Africa	33	105	90	15	90	89	45		287	200
Spain	109	107	117	64	100	100	••	95	2	10
Sri Lanka		102	81			99			9	13
Sudan	23	60	33	••	40					
Swaziland		101	42	4	75	77	30	29	24	23
Sweden	80	109	137	82	100	100	85	98	1	3
Switzerland	93	103	93	45	84	94	80	83	5	3
Syrian Arab Republic	10	123	63		91	98	43	58	0	32
Tajikistan	9	100	82	16	77	98		79	3	17
Tanzania	25	101	••	1	49	86			465	518
Thailand	92	99	77	41	76	87		••	365	433
Togo	2	101	39		64	79	15			
Trinidad and Tobago	86	102	84	12	91	92		72	2	2
Tunisia	22	111	77	26	94	97		64	10	9
Turkey	7	95	85	28	89	89	42	••	332	548
Turkmenistan										
Uganda	3	125	19	3		98		15		
Ukraine	82	95	93	66	80	86		84	162	155
United Arab Emirates	64	84	66	22	99	71	60	62	41	42
United Kingdom	77	101	170	63	98	100	81	95	O ^c	1
United States	60	100	95	83	97	94	85	89	740	584
Uruguay	64	109	106	38	91	90		73	16	15
Uzbekistan	28	100	95	15	78					
Venezuela, RB	55	105	72	39	87	92	18	61	109	89
Vietnam	47	98	73	10	90	93				
West Bank and Gaza	30	93	94	38		86		89	22	19
Yemen, Rep.	1	87	48	9	51	75		•		
Zambia		99	26			80		24	221	214
Zimbabwe	43	96	36	4		82		34	224	206
World	37 w	104 w	66 w	24 w	84 w	W	w	w	53,784 s	61,590 s
Low income	27	100	46	9		79				01,330 s
Middle income	38	111	75	24	 92	•				······································
Lower middle income	35	112	75 72	24 20	92		••		••	······································
Upper middle income	53	106	72 87	40	94		••			••
Low & middle income	32	105	61	40 17	94 82				 52,451 ^d	60,508 ^d
East Asia & Pacific	32 36	105	69	17 17	82 96		••		52,451° 5,158 ^d	4,870 ^d
	36 45		92	47	90				1,439 ^d	4,870 ^d
Europe & Central Asia	·····	102			•			 65		
Latin America & Carib.	<i>57</i>	121	87 67	26 22	85	96	30	65	1,789 ^d	1,497 ^d
Middle East & N. Africa	23	104	67	23	84	89	••		2,585 ^d	3,807 ^d
South Asia	33	103	49	10		88	••		18,742 ^d	23,552 ^d
Sub-Saharan Africa	16	93	30	5	47 05	64 05			22,738 ^d	25,112 ^d
High income	76	100	105	67 57	95	95	85	90	1,333 ^d	1,083 ^d
Europe EMU	101	104	108	57	95	99	••	92		••

a. Break in series between 1997 and 1998 due to change from International Standard Classification of Education (ISCED) 1976 to ISCED97. b. Provisional data. c. Less than 0.5. d. Data

Participation in education

About the data

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

Enrollment ratios, while a useful measure of participation in education, also have some limitations. They are based on data collected during annual school surveys, which are typically conducted at the beginning of the school year. They do not reflect actual rates of attendance or dropouts during the school year. And school administrators may report exaggerated enrollments, especially if there is a financial incentive to do so. Often the number of teachers paid by the government is related to the number of pupils enrolled.

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

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

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

ing 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. These rates are quite high in some developing countries, leading to a substantial number of overage children enrolled in each grade and raising the gross enrollment ratio.

Thus gross enrollment ratios indicate the capacity of each level of the education system, but a high ratio does not necessarily mean a successful education system. The net enrollment ratio excludes overage 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.

Out of school children are children in the primary school age group who are not enrolled in primary or in secondary education. The data are calculated by the UNESCO Institute for Statistics using administrative data. Children out of school include dropouts and children who never enrolled as well as children of primary age enrolled in pre-primary education. The large number of children out of school creates pressure for the education system to enroll children and to provide classrooms, teachers, and educational materials, a task made difficult in many developing countries by limited education budgets.

In 2006 the UNESCO Institute for Statistics changed its convention for citing the reference year. For more information, see *About the data* for table 2.10.

Definitions

- . Gross enrollment ratio is the ratio of total enrollment, regardless of age, to the population of the age group that officially corresponds to the level of education shown. • Preprimary education refers to the initial stage of organized instruction, designed primarily to introduce very young children to a schooltype 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.
- Net enrollment ratio is the ratio of children of official school age based on the International Standard Classification of Education 1997 who are enrolled in school to the population of the corresponding official school age. Children out of school are the number of primary-school-age children not enrolled in primary or secondary school.

Data sources

Data on gross and net enrollment ratios and out of school children are from the UNESCO Institute for Statistics. Data on gross and net enrollment ratios for latest years are provisional, as of January 2006.



	Gross intake rate in grade 1				f cohort g grade 5		_	ters in school		tion to education
		elevant group			rade 1 lents			of Iment		ment in last primary
	Male 2004 ^b	Female 2004 ^b	Ma 1991	ale ^a 2003 ^b	Fem 1991	nale ^a 2003 ^b	Male 2004 ^b	Female 2004 ^b	Male 2004 ^b	Female 2004 ^b
Afghanistan										
Albania	103	102					3	2	98	100
Algeria	103	100	95	95	94	97	14	9	76	83
Angola						<u></u>				
Argentina • •	112	112		91		93	7	5		
Armenia •:	96	101					0°	O _C	99	97
Australia	106	104	98	98	99	100	0	0	100	100
Austria • • · ·			••			··				
Azerbaijan	96	93	••				0°	0°	99	99
Bangladesh	134	128	••	51	••	54	7	7	92	99
Belarus	103	102					Oc	O _c	100	97
Belgium	101	101	90		92					
Benin	112	94	54	70	56	69	23	23	51	51 01
Bolivia	119	120	••	87		86	2	1	92	91
Bosnia and Herzegovina		107	01	07	07		 6	4	 97	
Botswana	110	107	81	87	87	92	•••••	•		97
Brazil	127	117				-				
Bulgaria	106	106	91		90		3	2	96	95
Burkina Faso	76	66	71	74	68	78	13	13	42	37
Burundi	95	86	65	64	58	62	28	31	35 85	33
Cambodia	154	143	••	58		61	12	9	85	80
Cameroon	115	100		64		63	26	25	47	49
Canada			95		98					
Central African Republic	75	52	24		22					
Chad	98	70	56	51	41	39	24	25	60	46
Chile	98	96	94	100	91	98	2 0 ^c	1 0 ^c	95	98
China	100	<i>99</i> 95	58	100	78	98	•	•	92	92
Hong Kong, China	101		••	100	••	100	1	1	100	100
Colombia	126	120		75	 50	80	5	4	100	100
Congo, Dem. Rep.			58 56	 	•					70
Congo, Rep.	66	63	56	65	65 85	67	25	24	78	78
Costa Rica	108 <i>7</i> 5	107	83 75	92	85 70	93	8 17	6	93	90
Côte d'Ivoire	75 99	68 97	•	•••	•		0°	18 0 ^c	100	100
Croatia	105	103	••	98	••	97	1	0	98	99
Cuba Czech Republic	94	93	••	97	••	98	1	1	99	99
Denmark	98	93 98	94	100	94	99	•••••		100	99
Dominican Republic	118	104		52		70	9	6	92	99 84
Ecuador	136	134	••	75	••	77	2	2	76	71
	100	98	••	96	••	100	6	3	83	86
Egypt, Arab Rep. El Salvador	134		 56	67	 60	70	8	6	94	94
Eritrea	63	130 52	•	86	•	73	21	22	94 85	94 76
Estonia	97	98	••	98		99	3	22 1	93	76 98
Ethiopia	106	93	 16	59	23	54	12	11	90	88
Finland	100	98	100	100	100	100	1	0c	100	100
rance	100	90	69	***************************************	95	100	***************************************	<i>U</i> -	100	100
Gabon	 94	 94	•	 68	•	 71		 34	·•	···
Sambia, The	95	101		***************************************		•	••••••			
Georgia	104	101	••		••			0 ^c	98	 99
Germany	104	102	••	••			2	2		•••••
Ghana	87	89	 81	 62	 79	 65	6	6	95	100
Greece	31	00	100		100		•••••	•••••		•••••
Guatemala	129	 125			•		14	13	97	95
Guinea	87	79	64	87	48	76	10	11	49	95 45
Guinea-Bissau				•••••			•••••			•••••
laiti	•				•	***************************************		•		
Iain					•••					

Education efficiency

4	

	Gross intake rate in grade 1			Share o reaching			-	ters in school	Transition to secondary education		
	age į	elevant group		% of go stud ale ^a	ents	1-8	enrol	of Iment	year of	ment in last primary	
	Male 2004 ^b	Female 2004 ^b	1991	2003 ^b	1991	nale ^a 2003 ^b	Male 2004^b	Female 2004 ^b	Male 2004 ^b	Female 2004 ^b	
Honduras	129	127		63		69	9	7			
Hungary	99	98	77		98		3	2	99	99	
India	135	129		60		64	4	4	85	89	
Indonesia	120	120	34	88	78	90	4	4	80	83	
Iran, Islamic Rep.	102	118	91	94	89	94	3	2	97	95	
Iraq	110	103					9	7			
Ireland	104	104	99	98	100	100	1	1			
Israel	97	98		100		99	2	1	72	73	
Italy	98	97		96		97	<i>O</i> ^c	<i>O</i> ^c	100	100	
Jamaica	90	 88		88		93	4	3			
Japan			100		100						
Jordan	99	100		97		98		 O ^c	 97	 98	
Kazakhstan	106	105			•		0c	Oc	100	100	
Kenya	122	119	75	78		73	11	10		•••••	
Korea, Dem. Rep.	122	113		10		13	•	••••••	••	••	
Korea, Rep.	103	103	99	100	100	100	0	0	99	99	
Kuwait	96	97			•		3	2	95	95	
Kyrgyz Republic	99	97	••	••	••	••	0°	0 ^c	98	100	
Lao PDR	123	114	••	62	••	63	21	18	80	76	
Latvia	92	90	••		••		21	1	99	99	
Lebanon	100	99	••	95	••	100	12	9	83	89	
Lesotho	144	131	 58	58	 73	69	21	16	64	62	
Liberia	•••••	•			•	•••••	•	•		•••••	
	••	··	••	••	••	••	••		••	••	
Libya						·••					
Lithuania	97	97	••			••	1		99	99	
Macedonia, FYR	98	96					0°	<i>O</i> c	98	97	
Madagascar	168	164	22	56	21	58	31	29	56	55	
Malawi	164	178	71	50	57	38	18	18	••	•••	
Malaysia	93	92	97	87	97	87					
Mali	69	58	71	78	67	70	19	19	62	57	
Mauritania	106	105	76	81	75	83	14	15	47	44	
Mauritius	95	95	97	98	98	100	6	4			
Mexico	108	107	35	92	71	94	6	4	94	92	
Moldova	89	88					0 ^c	0°	97	99	
Mongolia	113	115	••		••	···	1	1	99	99	
Morocco	100	96	75	82	76	80	16	11	78	81	
Mozambique	138	129	36	53	32	45	21	21			
Myanmar	124	125		64	••	66	1	1	74	66	
Namibia	99	99	60	87	65	90	15	12	87	88	
Nepal	115	105	51	63	51	67	22	22	80	76	
Netherlands	98	97		100		100					
New Zealand									••		
Nicaragua	144	135	11	52	37	61	12	9			
Niger	68	51	61	75	65	72	5	5	43	41	
Nigeria	120	103		33		38	3	3			
Norway	99	99	99	100	100	99	0	0			
Oman	74	75	97	97	96	98	1	1	99	99	
Pakistan	126	95									
Panama	121	118		82		87	6	5	63	65	
Papua New Guinea	101	90	70	72	68	66	0	0	77	77	
Paraguay	109	106	73	68	75	71	9	6			
Peru	113	114		85		83	10	10			
Philippines	140	130		72		80	3	1	98	97	
Poland	97	98	89		96						
Portugal	••										
Puerto Rico											



	Gross intake rate in grade 1				f cohort g grade 5		_	ters in / school		tion to education
		elevant group Female	Mal	stud	rade 1 Ients Fem	ale ^a		of Iment Female		ment in last primary Female
	2004 ^b	2004 ^b	1991	2003b	1991	2003b	2004 ^b	2004b	2004b	2004b
Romania	107	106					3	2	98	98
Russian Federation										
lwanda	183	183	61	43	59	49	19	19		
Saudi Arabia	66	66	82	94	84	93	5	3	100	93
Senegal	89	91		79		77	13	13	49	45
Serbia and Montenegro										
Sierra Leone										
Singapore										
Slovak Republic	96	94	•		•	•	3	2	98	98
Blovenia	122	120	••		••	••	1	<i>O</i> ^c	100	99
Somalia			••	••		••		•		•
South Africa	 118	112	••	 82			6	4	94	
			••		••		•			
Spain Sri Lanka	••			••		••				
Sri Lanka			92		93				96	98
Sudan	73	62	90	92	99	92	1	4	88	92
Swaziland	110	104	74	74	80	80	19	14	76	78
Sweden	97	97	100		100					
Switzerland	89	92					2	2	100	100
Syrian Arab Republic	122	118	97	93	95	92	. 8	7	93	95
ajikistan	98	94					O _c	Oc	98	97
anzania	118	114	81	86	82	90	5	5	34	33
hailand Thailand										
ogo	90	82	52	79	42	73	24	24	67	61
rinidad and Tobago	97	96		66		76	6	4	96	99
unisia	98	100	94	96	77	97	11	7	86	90
urkey			98		97					
Turkmenistan										
Jganda	164	163		63		64	14	14		
Jkraine	105	105					Oc	Oc		
Inited Arab Emirates	89	88	80	94	80	95	3	2	96	96
Jnited Kingdom			······································		•	•	•••••	•••••		
United States	••	••		••					••	••
••••••	 100	107	96	 91	98	 95	10	7	••	••
Jruguay	109		•		•	•	•	•	100	
Jzbekistan /	102	102					0	0	100	99
/enezuela, RB	103	100	82	89	90	94	9	6	97	100
/ietnam	101	95		90		88	3	2	99	100
Vest Bank and Gaza	85	84	••	··			0	0	100	100
/emen, Rep.	122	97		78		67	5	4		
Zambia	110	110			<u></u>		. 7	7		
Zimbabwe	122	118	72	68	81	71			69	70
World	116 w	110 w	w	w	w	W	4 w	4 w	w	w
ow income	125	115		63	····	65	6	6	82	83
/liddle income	107	106	61	93	81	93	3	2	91	91
Lower middle income	107	106	59	94	80	93	3	2	90	91
Upper middle income										
ow & middle income	117	111					4	4	87	87
East Asia & Pacific	107	106	55	94	78	93	1	1	90	90
Europe & Central Asia			•			•		•••••		
Latin America & Carib.	120	115	••			••		<u> </u>	·•	······································
Middle East & N. Africa	106	105		 92		 92	 8	 5	 87	 89
South Asia	132	122	•	59	*	63	4	4	86	90
		•	••		••	•	•	•		•
Sub-Saharan Africa	113	104	••		••		11	11		
ligh income	••			·····		••		······································		•••
Europe EMU				••						•••

a. Break in series between 1997 and 1998 due to change from International Standard Classification of Education (ISCED) 1976 to ISCED97. b. Provisional data. c. Less than 0.5.

About the data

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

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

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

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

The UNESCO Institute for Statistics measures the share of cohort reaching grade 5 because research suggests that five to six years of schooling is a critical threshold for the achievement of sustainable basic literacy and numeracy skills. But the indicator only indirectly reflects the quality of schooling, and a high rate does not guarantee these learning outcomes.

Measuring actual learning outcomes requires setting curriculum standards and measuring students' learning progress against those standards through standardized assessments or tests.

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

The transition rate from primary school to secondary school conveys the degree of access or transition between the two levels of education. A low transition rate can signal problems such as an inadequate promotion and examination system or insufficient capacity in secondary schools. The quality of data on the transition rate is affected when new entrants and repeaters are not correctly distinguished in the first grade of secondary school. Students who interrupt their studies for one or more years after completing primary school could also affect the quality of the data.

In 2006 the UNESCO Institute for Statistics changed its convention for citing the reference year. For more information, see *About the data* for table 2.10.

Definitions

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

Data sources

Data on education efficiency are from the UNESCO Institute for Statistics. Data for latest years are provisional, as of January 2006.



2.13 Education completion and outcomes

			-	ompletion ite					iteracy te			literacy ate
		tal ^a	Ma	nt age group		nale ^a		ale		nale	Male	5 and older Female
	1991	2004	1991	2004	1991	2004	1990	2002	1990	2002	2002	2002
Afghanistan	25		37		13							
Albania	···	99		99	<u>.</u>	99	97	99 ^b	92	99 ^b	99 ^b	98 ^b
Algeria	79	94	86	94	73	94	86	94 ^c	68	86°	79 ^c	60°
Angola	35		••		···			83 ^c		63 ^c	<i>82</i> °	54 ^c
Argentina		102	••	100		105	98	99 ^b	98	99 ^b	97 ^b	97 ^b 99 ^b
Armenia	90	107 100	••	106 <i>100</i>	••	108 <i>100</i>	100	100 ^b	99	100 ^b	100 ^b	
Australia		•								••		
Austria	••				······································				•••••	•••	••	•••
Azerbaijan Bangladesh	 49	96 <i>73</i>	••	97 <i>70</i>	••	95 <i>75</i>	51	 58	33	41	 50	31
Belarus	95	101	 95	103	 96	99	100	•••••	100	•••••	•••••	•
Belgium	79	101	95 76	100	82	33	100	••	100	••	••	
Benin	21	49	28	 59	13	38	 57	 58 ^b	 25	33 ^b	46 ^b	23 ^b
Bolivia	71	100	78	102	64	98	96	99 ^b	89	96 ^b	93 ^b	80 ^b
Bosnia and Herzegovina		100	, ,	102	- 5	30		100°		100°	98 ^c	91 ^c
Botswana	 79	 92	71	 89	 87	 94		85	 87	93	76	82
Brazil	93	111		110		111	91	96°	93	98 ^c	88°	89°
Bulgaria	90	97	89	98	92	96	100	98 ^b	99	98 ^b	99 ^b	98 ^b
Burkina Faso	21	29	26	34	16	25						
Burundi	46	33	49	39	43	27	58	76 ^c	45	69 ^c	67°	52°
Cambodia		82		85		78	81	88 ^c	66	79 ^c	85°	64 ^c
Cameroon	56	72	60	77	52	66	86		76		77°	60 ^c
Canada												
Central African Republic	27		35		18		66	70 ^c	39	47°	65 ^c	33 ^c
Chad	18	29	30	41	7	18	58	55 ^c	38	23 ^c	41 ^c	13 ^c
Chile		97		98		97	98	99 ^b	98	99 ^b	96 ^b	96 ^b
China	103	99		99	••	100	97	99 ^b	93	99 ^b	95 ^b	87 ^b
Hong Kong, China	102	111		113		108						
Colombia	71	94	60	92	82	96	94	97 ^c	96	98 ^c	94 ^c	95 ^c
Congo, Dem. Rep.	46		58		34		80	77°	58	61 ^c	80 ^c	52°
Congo, Rep.	54	66	59	70	49	63	95	98	90	97	89	77
Costa Rica	74	92	77	91	81	94	97	98	98	99	96	96
Côte d'Ivoire	43	43	55	52	32	34	65	70 ^c	40	51 ^c	60°	38 ^c
Croatia	85	91		92		91	100	100 ^b	100	100 ^b	99 ^b	97 ^b
Cuba	96	93	••	93		92	99	100 ^b	99	100 ^b	100 ^b	100 ^b
Czech Republic		102		103		101						
Denmark	98	103	98	103	98	104						
Dominican Republic	61	91		88	·•	93	87	93 _b	88	95 ^b	87 ^b	87 ^b
cuador	91	101	91	100	92	101	96	96 ^b	95	96 ^b	92 ^b	90 ^b
gypt, Arab Rep.		93		95		91	71		51			
El Salvador - ·.	41	84	38	84	43	85	85	90	83	88	82	77
iritrea	19	44	22	53	17	36	73		49	 40.ch		 h
estonia	93	103	93	105	94	101	100	100 ^b	100	100 ^b	100 ^b	100 ^b
ithiopia	21	51	26	58	16	43	52	63	34	52	49	34
inland	97	102	98	102	97	102	••				••	
rance	104		 FF	 ee								
abon Sambia Tha	58 44	66	55 55	65	61	68						
Sambia, The	44		55		33	07	50		34		••	
Georgia		86		84		87			··········			
Germany	100	97	99	97 65	100	97 67					 cah	 4.ch
Shana	63	65	70	65	55 08	67	88		75 100	1000	63 ^b	46 ^b
Greece	99	70	99	75	98		99	99 ^c	100	100 ^c	94 ^c	88°
Guatemala	17	70		75 50		65	80	86 ^b	66	78 ^b	75 ^b	63 ^b
Guinea Cuinea Biogau	17	48	24	58	9	39 10	62		26			
iuinea-Bissau		27		35		19	 FC				 E4	
Haiti	27		29		26		56	66	54	67	54	50

Education completion and outcomes 2.13

	Primary completion rate							Youth I ra	-		Adult li ra	iteracy te
		tal ^a	Ma	nt age group ale ^a		nale ^a		% ages	Fen	nale	% ages 15 Male	Female
	1991	2004	1991	2004	1991	2004	1990	2002	1990	2002	2002	2002
Honduras	65	79	67	77	62	82	78	87 ^b	81	91 ^b	80 ^b	80 ^b
Hungary	82	96	88	97	90	96	100	99 ^b	100	100 ^b	99 ^b	99 ^b
India		84		88		79	73	84 ^b	54	68 ^b	73 ^b	48 ^b
Indonesia	91	101		101		101	97	99	93	98	92	83
Iran, Islamic Rep.	91	95	97	92	85	97	92	••	81	··········	84 ^c	70 ^c
Iraq	59	74	64	85	53	63	56	••	25		••	••
Ireland		101		101		100						
Israel		101		101		101	99	100 ^c	98	99 ^c	98 ^c	96 ^c
Italy	104 90	103 84	104 86	103 84	104 94	102 89	 87	91	 95	98	 84	 91
Jamaica Japan	101	•	86 101		102			•		•····	•••••	• • • • • • • • • • • • • • • • • • • •
Japan Jordan	101	 97	101	 97	102	96	98	99	 95	99	 95	 85
Kazakhstan		110		110		109	100	99	95 100		95	85
Kenya		89		90		89	93	 80	87	 81	 78	70
Korea, Dem. Rep.								•				• • • • • • • • • • • • • • • • • • • •
Korea, Rep.	98	105	98	104	 98	106						
Kuwait	57	91	58	91	56	92	88	92	87	94	85	81
Kyrgyz Republic		93		93		93						
Lao PDR	43	74	48	78	38	70	79	83 ^c	61	75 ^c	77°	61 ^c
Latvia		98		99		97		100 ^b		100 ^b	100 ^b	100 ^b
Lebanon		94		92		96	95		89			
Lesotho	58	71	41	60	75	82	77	••	97		74 ^c	90°
Liberia							75	86	39	55	72	39
Libya							99	100	83	94	92	71
Lithuania	89	105		105		105	100	100 ^b	100	100 ^b	100 ^b	100 ^b
Macedonia, FYR	98	97		97		97		99 ^b		98 ^b	98 ^b	94 ^b
Madagascar	33	45	33	45	34	46	78	72°	67	68 ^c	76 ^c	65 ^c
Malawi	31	58	35	60	28	57	76		51			
Malaysia	90	95	90	95	90	95	95	97 ^b	94	97 ^b	92 ^b	85 ^b
Mali	11	44	13	58	9	30						
Mauritania	33	43	40	45	26	41	56	68 ^b	36	55 ^b	60 ^b	31 ^b
Mauritius	102	100	103	98	102	102	91	94 ^b	91	95 ^b	88 ^b	81 ^b
Mexico	86	97	89	97	90	98	96	98 ^c	94	97 ^c	92 ^c <i>97</i> ^b	89°
Moldova		83 95		82 95		83 96	100	98 ^b 97 ^b	100	99 ^b 98 ^b	97º 98 ^b	95 ^b 98 ^b
Mongolia Morocco	46	95 67	 54	95 71	37	63		97° 77	42	98° 61	•	98° 38
Morocco Mozambique	26	29	32	35	21	23	68 66	77	32	49	63 62	31
Myanmar	·····	72	······································	72		73	90	96 ^c	32 86	93 ^c	94 ^c	86°
Namibia		81	 70	76			86	87 ^b	89	92 ^b	81 ^b	81 ^b
Nepal	51	71	70	76	41	65	67	81 ^b	27	60 ^b	63 ^b	35 ^b
Netherlands		100		101		99						
New Zealand	100		100		99							
Nicaragua	41	73	43	70	59	77	68	 84 ^c	69	89 ^c	77 ^c	77 ^c
Niger	17	25	21	30	12	20	25	26 ^b	9	14 ^b	20 ^b	<i>9</i> b
Nigeria		76		83		69	81	91	66	87	74	59
Norway	100	103	100	102	100	103						
) Oman	74	91	78	93	70	90	95	100	75	97	82	65
Pakistan							63	75 ^c	31	54 ^c	62 ^c	35°
Panama	86	97	86	96	86	97	96	97 ^b	95	96 ^b	93 ^b	91 ^b
Papua New Guinea	50	55	56	59	44	51	74	69 ^b	62	64 ^b	63 ^b	51 ^b
Paraguay	65	89	64	88	65	90	96	96 ^c	95	96 ^c	93 ^c	90 ^c
Peru		96		97		95	97	98 ^c	92	96 ^c	93 ^c	82 ^c
Philippines	86	98	84	94	84	102	97	94 ^b	97	96 ^b	93 ^b	93 ^b
Poland	96	100										
Portugal	95		94		95							
Puerto Rico								••	••			



2.13 Education completion and outcomes

			-	ompletion te					iteracy te			iteracy ite
	Tot 1991	al ^a 2004		nt age group ale ^a 2004	Fem 1991	rale ^a 2004	1990	% ages ale 2002		nale 2002	% ages 15 Male 2002	5 and older Female 2002
Romania	96	90	96	90	96	89	99	98 ^b	99	98 ^b	98 ^b	96 ^b
Russian Federation	93		92		93		100	100 ^b	100	100 ^b	100 ^b	99 ^b
Rwanda	47	37	47	38	46	37	78	77°	67	76 ^c	70°	59 ^c
Saudi Arabia	56	62	60	62	51	61	91	98 ^c	79	94 ^c	87°	69 ^c
Senegal	39	45	47	49	30	42	50	58 ^c	30	41 ^c	51 ^c	29 ^c
Serbia and Montenegro	71	96		97		96		99 ^b		99 ^b	99 ^b	94 ^b
Sierra Leone	•		•					47°		30°	40 ^c	21 ^c
Singapore			••		••		99	99 ^b	99	100 ^b	97 ⁰	89 ^b
Slovak Republic	96	101	 95	 102	 96	100		100 ^b		100 ^b	100 ^b	100 ^b
Slovenia	95	102		103		102	100	100	100	100	100	100
Somalia												
South Africa	 75	 96	71	 94	80	 98	 89		 88			
Spain	•	•				•	•••••	•	•	• • • • • • • • • • • • • • • • • • • •	•	•
Sri Lanka	94		94		94	······································	96	95 ^b	94	 96 ^b	 92 ^b	 89 ^b
Sudan	40	49	45	 53	36	44	76	82°	54	69 ^c	69 ^c	50°
Swaziland	62	49 61	59	58	65	64	85	87°	85	89°	80°	78°
Sweden	96		96		96			***************************************		•		•••••
Switzerland	53	 96	53	 95	54	 97	•••••		•		• • • • • • • • • • • • • • • • • • • •	
Syrian Arab Republic	89	107	94	109	84	104	92	97 ^c	67	93 ^c	91 ^c	 74 ^c
	•	92	····	94		90	100	100 ^b	100	100 ^b	100 ^b	99 ^b
Tajikistan Tanzania		92 57		•		•	•	81 ^b	•	76 ^b	78 ^b	62 ^b
Tanzania Thailand	61	•	60	57	62	56	89	98 ^b	77	98 ^b	95 ^b	91 ^b
	 2F							.*		•	•	•
Togo	35	66	48	78	22	55	79	83 ^c	48	63 ^c	68°	38°
Trinidad and Tobago	100	94	97	93	102	95	100	100	100	100	99	98 crh
Tunisia	74	94	79	94	69	94	93	96 ^b	75	92 ^b	83 ^b	65 ^b
Turkey	90	••	93	••	86		97	98 ^c	88	95 ^c	96 ^c	81 ^c
Turkmenistan			••									
Uganda ·		57		61		53	80	86	60	74	79	59
Ukraine	92	91	98	···	97		100	100 ^b	100	100 ^b	100 ^b	99 ^b
United Arab Emirates	95	75	95	77	94	74	82	88	89	95	76	81
United Kingdom			••									••
United States				···	<u></u>	<u></u>	···			···	······································	
Uruguay	95	94	92	92	97	97	98	99	99	99	97	98
Uzbekistan		98		98		98	100	100	100	100	100	99
Venezuela, RB	81	89	76	87	86	92	95	96 ^b	97	98 ^b	93 ^b	93 ^b
Vietnam		101		104		98	94		94			
West Bank and Gaza	•••	98		98		99		99 ^c		99 ^c	96 ^c	87 ^c
Yemen, Rep.		62		78		46	74	84	25	51	69	29
Zambia		66		71	···	61	86		76			
Zimbabwe	91	80	94	82	89	79	97	99	91	96	94	86
World	W	w	w	W	W	W	W	W	W	W	W	v
Low income	66	74	75	78	59	70	73	81	55	67	73	50
Middle income	92	97	93	97	92	96	95	98	91	97	94	87
Lower middle income	93	98	94	98	92	96	95	98	90	97	93	86
Upper middle income	88	96	88	95	90	96	97	98	95	97	95	94
Low & middle income	81	86	86	88	78	84	86	90	77	83	86	74
East Asia & Pacific	97	99	98	99	96	97	97	98	93	97	95	87
Europe & Central Asia	92	94	92	95	93	94	99	99	97	98	99	99
Latin America & Carib.	86	97	85	96	89	97	93	96	93	97	91	90
Middle East & N. Africa	78	88	83	89	71	86	80		59			
South Asia	73	82	87	85	65	78	70	82	50	65	72	46
Sub-Saharan Africa	51	62	55	66	47	56	76		61			
High income												
Europe EMU												

a. Break in series between 1997 and 1998 due to change from International Standard Classification of Education (ISCED) 1976 to ISCED97. b. Based on census data. c. Based on survey

Education completion and outcomes

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 repetition rates, pupil-teacher ratios, and cohort progression through school.

The World Bank and the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics worked jointly to develop the primary completion rate indicator. Increasingly used as a core indicator of an education system's performance, it reflects both the coverage of the education system and the educational attainment of students. The indicator is vital as a key measure of educational outcome at the primary level and of progress on the Millennium Development Goals and the Education for All initiative. However, because curricula and standards for school completion vary across countries, a high rate of primary completion does not necessarily mean high levels of student learning.

The primary completion rate reflects the primary cycle as defined by the International Standard Classification of Education (ISCED), ranging from three or four years of primary education (in a very small number of countries) to five or six years (in most countries) and seven (in a small number of countries). For the countries that changed the primary cycle, the most recent ISCED primary cycle is applied consistently to the whole series.

The data in the table are for the proxy primary completion rate, calculated by subtracting the number of students who repeat the final primary grade from the number of students in that grade and dividing the result by the number of children of official graduation age in the population. Data limitations preclude adjusting this number for students who drop out during the final year of primary school. Thus proxy rates should be taken as an upper-bound estimate of the actual primary completion rate.

The numerator may include late entrants and overage children who have repeated one or more grades of primary school but are now graduating as well as children who entered school early. The denominator is the number of children of official graduation age, which could cause the primary completion rate to exceed 100 percent. There are other data limitations that contribute to completion rates exceeding 100 percent, such as the use of estimates for the population, the conduct of school and population surveys at different times of year, and other discrepancies in the numbers used in the calculation.

Basic student outcomes include achievements in reading and mathematics judged against estab-

lished standards. In many countries national learning assessments are enabling ministries of education to monitor progress in these outcomes. Internationally, the UNESCO Institute for Statistics has established literacy as an outcome indicator based on an internationally agreed definition.

The literacy rate is defined as the percentage of people who can, with understanding, both read and write a short, simple statement about their every-day life. In practice, literacy is difficult to measure. To estimate literacy using such a definition requires census or survey measurements under controlled conditions. Many countries estimate the number of literate people from self-reported data. Some use educational attainment data as a proxy but apply different lengths of school attendance or levels of completion. Because definition and methodologies of data collection differ across countries, data need to be used with caution

The reported literacy data are compiled by the UNESCO Institute for Statistics based on national censuses and household surveys during 1995–2004. When countries did not report data, the estimates generated in July 2002 by UNESCO Institute for Statistics are used. The data for 1990 are also from the model estimation. The estimation methodology can be reviewed at www.uis.unesco.org.

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

Definitions

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

Data sources

Data on the primary completion rate for 1991 and 2004 are primarily from the UNESCO Institute for Statistics. The data for the latest years are provisional, as of January 2006. Data on literacy rates are from the UNESCO Institute for Statistics.



2.14 Health expenditure, services, and use

		Pui	Hea expen	Out of pocket	External	Para di Indiana	Phy	sicians	Health worker density index physicians, nurses, and midwives	Hospi	tal beds
	Total % of GDP 2003	% of GDP 2003	% of total 2003	% of private 2003	resources % of total 2003	Per capita \$ 2003	per 1,	000 people 1997–2004 ^a	per 1,000 people 2000-03 ^a	per 1,0 1990	000 people 2000-03 ª
Afghanistan	6.5	2.6	39.5	76.5	45.6	11	0.1	0.2	0.4	0.2	0.4
Albania	6.5	2.7	41.7	99.8	3.4	118	1.4	1.3	5.4	4.0	3.1
Algeria	4.1	3.3	80.8	95.3	0.0	89	0.9	1.1		2.5	
Angola	2.8	2.4	84.2	100.0	6.7	26	0.0 ^b	0.1		1.3	
Argentina	8.9	4.3	48.6	55.6	0.2	305	2.7	3.0		4.6	4.1
Armenia	6.0	1.2	20.2	80.6	17.2	55	3.9	3.6	8.8	9.1	4.4
Australia	9.5	6.4	67.5	67.8	0.0	2,519	2.3	2.5	10.8	9.2	7.4
Austria Azerbaijan	7.5 3.6	5.1 0.9	67.6 23.8	59.2 96.8	0.0 1.9	2,358 32	2.2 3.9	3.4 3.5	9.3 12.0	10.2 10.1	8.3
Bangladesh	3.4	1.1	31.3	85.8	1.9	32 14	0.2	0.3	0.5	0.3	0.3
Belarus	6.4	4.9	75.9	80.5	0.1	116	3.6	4.6	17.5	13.2	11.3
Belgium	9.4	6.3	67.2	66.6	0.0	2,796	3.3	3.9	15.6	8.0	6.9
Benin	4.4	1.9	43.1	90.3	11.5	20	0.1	0.0 ^b		0.8	
Bolivia	6.7	4.3	64.0	79.3	7.3	61	0.4	1.2	1.1	1.3	1.0
Bosnia and Herzegovina	9.5	4.8	50.7	100.0	1.5	168	1.6	1.3	5.7	4.5	3.1
Botswana	5.6	3.3	58.2	28.8	2.9	232	0.2	0.4		1.6	
Brazil	7.6	3.4	45.3	64.2	0.3	212	1.4	2.1	2.6	3.3	2.7
Bulgaria	7.5	4.1	54.5	98.4	1.0	191	3.2	3.6	8.3	9.8	6.3
Burkina Faso	5.6 3.1	2.6 0.7	46.8	98.1 100.0	7.4 14.1	19 3	0.0 ^b 0.1	0.1 0.0 ^b	0.3	0.3 <i>0.7</i>	
Burundi Cambodia	10.9	2.1	23.3 19.3	86.2	18.5	33	0.1	0.0	1.0	2.1	0.5
Cameroon	4.2	1.2	28.9	98.3	3.2	37	0.1	0.2		2.6	0.5
Canada	9.9	6.9	69.9	49.6	0.0	2,669	2.1	2.1	12.2	6.0	3.7
Central African Republic	4.0	1.5	38.6	95.3	2.9	12	0.0 ^b	0.1		0.9	••
Chad	6.5	2.6	39.9	96.3	11.8	16	0.0 ^b	0.0 ^b	0.2	0.7	
Chile	6.1	3.0	48.8	46.2	0.0	282	1.1	1.1	1.7	3.2	2.6
China	5.6	2.0	36.2	87.6	0.1	61	1.5	1.6	2.7	2.6	2.5
Hong Kong, China											
Colombia	7.6	6.4	84.1	47.2	0.0	138	1.1	1.4	1.9	1.4	1.1
Congo, Dem. Rep.	4.0 2.0	0.7 1.3	18.3 64.2	100.0 100.0	15.1 2.2	4 19	0.1 0.3	0.1		1.4 3.3	
Congo, Rep. Costa Rica	7.3	5.8	78.8	88.7	2.7	305	1.3	1.3	2.4	2.5	1.4
Côte d'Ivoire	3.6	1.0	27.6	90.5	3.4	28	0.1	0.1		0.8	1.4
Croatia	7.8	6.5	83.6	100.0	0.6	494	2.1	2.4	7.7	7.4	5.6
Cuba	7.3	6.3	86.8	75.2	0.2	211	3.6	5.9	13.4	5.4	4.9
Czech Republic	7.5	6.8	90.0	83.9	0.0	667	2.8	3.5	13.4	11.3	8.8
Denmark	9.0	7.5	83.0	92.5	0.0	3,534	3.1	2.9	13.6	5.6	4.0
Dominican Republic	7.0	2.3	33.2	70.8	1.5	132	1.5	1.9	3.7	1.9	2.1
Ecuador	5.1	2.0	38.6	88.1	0.9	109	1.5	1.5	3.1	1.6	1.5
Egypt, Arab Rep.	5.9	2.2	37.0	99.0	0.8	64	0.8	0.5	4.9	2.1	2.2
El Salvador	8.1	3.7	46.1	93.5	1.0	183	0.8	1.2	2.0	1.5	
Eritrea Estonia	4.4 5.3	2.0 4.1	45.5 77.1	100.0 88.3	19.6 0.1	8 366	3.5	0.1 3.2	9.8	 11.6	6.0
Ethiopia	5.9	3.4	58.4	78.7	26.0	5	0.0 ^b	0.0 ^b	0.2	0.2	0.0
Finland	7.4	5.7	76.5	81.2	0.0	2,307	2.4	2.6	25.6	12.5	7.2
France	10.1	7.7	76.3	42.2	0.0	2,981	2.6	3.4	10.2	9.7	7.7
Gabon	4.4	2.9	66.6	100.0	0.7	196	0.5	0.3		3.2	
Gambia, The	8.1	3.2	40.0	67.0	21.8	21		0.1 ^b		0.6	
Georgia	4.0	1.0	23.9	98.2	5.3	35	4.9	4.1	7.9	9.8	4.2
Germany	11.1	8.7	78.2	47.9	0.0	3,204	3.1	3.4	13.2	10.4	8.9
Ghana	4.5	1.4	31.8	100.0	15.8	16	0.0 ^b	0.2	0.9	1.5	
Greece	9.9	5.1	51.3	95.4		1,556	3.4	4.4	7.5	5.1	4.7
Guatemala	5.4	2.1	39.7	91.9	3.8	112	0.8	0.9		1.1	0.5
Guinea Piasau	5.4	0.9	16.6	99.4	7.3	22	0.1	0.1	0.6	0.6	
Guinea-Bissau Haiti	5.6 7.5	2.6 2.9	45.8 38.1	80.2 69.5	26.8 12.4	9 26	0.1	0.1 0.2		1.5 0.8	
nulu	1.0	۷.5	20.1	ບອ.ບ	12.4	∠0	0.1	0.2	••	0.0	0.8

Health expenditure, services, and use

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			Hea expen	diture			Phy	ysicians	Health worker density index physicians,	Hospit	al beds
	Total % of GDP 2003	Pul % of GDP 2003	blic % of total 2003	Out of pocket % of private 2003	External resources % of total 2003	Per capita \$ 2003	per 1	1,000 people 1997-2004 ª	nurses, and midwives per 1,000 people 2000–03 ^a	per 1,00 1990	00 people 2000–03 ª
Honduras	7.1	4.0	56.5	85.8	9.3	72	0.7	0.6		1.0	1.0
Hungary	8.4	6.1	72.4	88.9	0.4	684	2.9	3.2	11.9		7.8
India	4.8	1.2	24.8	97.0	1.6	27	0.5	0.6		0.8	0.9
Indonesia	3.1	1.1	35.9	74.3	1.4	30	0.1	0.1	0.7	0.7	
Iran, Islamic Rep.	6.5	3.1	47.3	94.8	0.1	131	0.3	0.4		1.4	1.6
Iraq	2.7	1.4	51.8	100.0	3.8	23	0.6	0.7	3.6	1.7	1.3
Ireland	7.3	5.8	78.9	61.9	0.0	2,860	1.6	2.8	19.0	6.1	4.3
Israel	8.9	6.1	68.2	89.1	3.4	1,514	3.2	3.8	10.3	6.2	6.1
Italy	8.4	6.3	75.1	83.3	0.0	2,139	4.7	4.2	10.5	7.2	4.4
Jamaica	5.3	2.7	50.6	64.7	1.2	164	0.6	0.8	2.5	2.2	1.4
Japan	7.9	6.4	81.0	90.1	0.0	2,662	1.7	2.0	10.4		14.3
Jordan	9.4	4.2	45.2 57.2	74.0	4.2	177	1.3	2.0	4.8	1.8	1.7
Kazakhstan	3.5	2.0	57.3	100.0	1.2	73	4.0	3.5	9.5	13.7	7.7
Kenya Korea, Dem. Rep.	4.3 5.8	1.7 5.3	38.7 91.2	82.6 100.0	15.3 19.1	20 1	0.0 ^b	0.1 3.3	••	1.6	••
Korea, Rep.	5.8 5.6	2.8	91.2 49.4	82.8	0.0	705	0.8	3.3 1.6	5.4	3.1	7.1
Kuwait	3.5	2.7	77.5	91.2	0.0	580	0.8	1.5	5.4	3.1	2.2
Kyrgyz Republic	5.0	2.2	43.6	•			3.4	2.5	10.1	12.0	5.3
Lao PDR	3.2	1.2	38.5	75.5	30.0	 11	0.2			2.6	1.2
Latvia	6.4	3.3	51.3	94.3	0.4	301	4.1	3.0	8.2	14.1	7.8
Lebanon	10.2	3.0	29.3	79.4	0.1	573	1.3	3.3	4.4	1.7	3.0
Lesotho	5.2	4.1	79.7	18.2	8.2	31	0.0 ^b	0.0 ^b			
Liberia	4.7	2.7	56.7	98.5	32.3	6		0.0 ^b			••
Libya	4.1	2.6	62.9	100.0	0.0	171	1.1	1.3		4.2	3.9
Lithuania	6.6	5.0	76.0	96.6	1.3	351	4.0	4.0	12.4	12.5	8.7
Macedonia, FYR	7.1	6.0	84.5	100.0	1.7	161	2.2	2.2	8.1	5.9	4.8
Madagascar	2.7	1.7	63.4	91.7	22.0	8	0.1	0.3	0.4	0.9	0.4
Malawi	9.3	3.3	35.2	42.7	25.1	13	0.0 ^b	0.0 ^b	0.3	1.6	
Malaysia	3.8	2.2	58.2	73.8	0.1	163	0.4	0.7	2.4	2.1	1.9
Mali	4.8	2.8	57.4	89.3	13.7	16	0.1	0.1	0.2		
Mauritania	4.2	3.2	76.8	100.0	4.7	17	0.1	0.1		0.7	
Mauritius	3.7	2.2	60.8	100.0	1.0	172	0.8	1.1	••	2.9	
Mexico	6.2	2.9	46.4	94.2	0.4	372	1.1	1.5	3.9	1.0	1.0
Moldova	7.2	3.9	54.5	96.1	2.5	34	3.6	2.6	9.2	13.1	6.7
Mongolia	6.7	4.3	63.8	91.1	3.2	33	2.5	2.6	6.0	11.5	
Morocco Mozambique	5.1 4.7	1.7 2.9	33.1 61.7	76.1 38.8	1.0 40.8	72 12	0.2 0.0 ^b	0.5 0.0 ^b	1.5 0.3	1.3 0.9	0.8
Mozambique Myanmar	2.8	2.9 0.5	19.4	38.8 99.7	40.8 2.2	394	0.0	0.05	0.3	0.9	0.6
Namibia	6.7	4.7	70.0	19.2	5.3	145	0.1	0.4			•
Nepal	5.3	1.5	27.8	92.2	9.9	143	0.2	0.3	0.3	0.2	
Netherlands	9.8	6.1	62.4	20.8	0.0	3,088	2.5	3.1	16.7	5.8	4.7
New Zealand	8.1	6.3	78.3	72.1	0.0	1,618	1.9	2.2	10.9	8.5	6.1
Nicaragua	7.7	3.7	48.4	95.7	11.2	60	0.7	0.4	1.8	1.8	0.9
Niger	4.7	2.5	53.0	89.2	32.8	9	0.0 ^b	0.0 ^b	0.3		
Nigeria	5.0	1.3	25.5	91.2	5.3	22	0.2	0.3	1.5	1.7	
Norway	10.3	8.6	83.7	95.4	0.0	4,976	2.6	3.1	24.9	4.6	3.8
Oman	3.2	2.7	83.0	56.1	0.0	278	0.6	1.3	4.2	2.1	2.0
Pakistan	2.4	0.7	27.7	98.0	2.5	13	0.5	0.7	1.1	0.6	0.7
Panama	7.6	5.0	66.4	82.2	0.2	315	1.6	1.5	3.2	2.5	2.5
Papua New Guinea	3.4	3.0	88.9	87.2	28.3	23	0.1	0.1	0.6	4.0	
Paraguay	7.3	2.3	31.5	74.6	1.8	75	0.6	1.1	1.4	0.9	1.2
Peru	4.4	2.1	48.3	79.0	3.2	98	1.1	1.2		1.4	1.4
Philippines	3.2	1.4	43.7	78.2	3.8	31	0.1	1.2	7.4	1.4	1.0
Poland	6.5	4.5	69.9	87.8	0.0	354	2.1	2.5	7.7	5.7	5.6
Portugal Puerto Rico	9.6	6.7	69.7	95.7	0.0	1,348	2.8	3.3	7.0	4.1	3.6



2.14 Health expenditure, services, and use

			Hea expen				Physi	cians	Health worker density index physicians, nurses, and	Hospit	al beds
	Total % of GDP 2003	Pu % of GDP 2003	blic % of total 2003	pocket % of private 2003	External resources % of total 2003	Per capita \$ 2003	per 1,0 1990	00 people 1997–2004 ^a	midwives per 1,000 people	per 1,0	00 people 2000-03 ª
Romania	6.1	3.8	62.9	90.4	3.8	159	1.8	1.9	6.2	8.9	6.6
Russian Federation	5.6	3.3	59.0	71.1	0.2	167	4.1	4.3	12.5	13.1	10.5
Rwanda	3.7	1.6	43.5	41.7	54.5	7	0.0 ^b	0.0 ^b	0.2	1.7	
Saudi Arabia	3.3	2.5	75.4	31.0		348	1.4	1.4	4.4	2.5	2.2
Senegal	5.1	2.1	41.8	95.3	15.4	29	0.1	0.1		0.7	
Serbia and Montenegro	9.6	7.2	75.5	85.3	0.5	181	2.0	2.1		5.9	6.0
Sierra Leone	3.5	2.0	58.3	100.0	15.5	7	••	0.0 ^b			
Singapore	4.5	1.6	36.1	97.1	0.0	964	1.3	1.4	5.6	3.6	2.9
Slovak Republic	5.9	5.2	88.3	100.0	0.0	360	2.9	3.1	10.6	7.4	7.2
Slovenia	8.8	6.7	76.3	41.1	0.1	1,218	2.0	2.3	9.4	6.0	5.0
Somalia	2.6	1.2	44.6	100.0	9.3	8		0.0 ^b		0.8	
South Africa	8.4	3.2	38.6	17.1	0.5	295	0.6	0.8	4.6		
Spain	7.7	5.5	71.3	82.0	0.0	1,541	2.3	3.2	6.8	4.6	3.8
Sri Lanka	3.5	1.6	45.0	88.9	2.3	31	0.1	0.5	1.2	2.7	
Sudan	4.3	1.9	43.2	96.3	2.2	21		0.2	1.0	1.1	0.7
Swaziland	5.8	3.3	57.3	42.4	5.5	107	0.1	0.2	3.4		
Sweden	9.4	8.0	85.2	92.1	0.0	3,149	2.9	3.3	13.5	12.4	3.6
Switzerland	11.5	6.7	58.5	76.0	0.0	5,035	3.0	3.6	12.1	19.9	6.0
Syrian Arab Republic	5.1	2.5	48.2	100.0	0.2	59	0.8	1.4	3.3	1.1	1.5
Tajikistan	4.4	0.9	20.8	100.0	14.9	11	2.6	2.0	7.2	10.7	6.1
Tanzania	4.3	2.4	55.4	81.1	21.9	12		0.0 ^b	0.4	1.0	
Thailand	3.3	2.0	61.6	74.8	0.3	76	0.2	0.4		1.6	
Togo	5.6	1.4	24.8	88.0	2.3	16	0.1	0.0 ^b	0.3	1.5	
Trinidad and Tobago	3.9	1.5	37.8	88.6	1.4	316	0.7	0.8		4.0	3.4
Tunisia	5.6	2.8	50.0			126	0.5	1.3		1.9	1.7
Turkey	7.6	5.4	71.6	69.9	0.0	257	0.9	1.4	4.2	2.4	2.6
Turkmenistan	3.9	2.6	67.4	100.0	0.4	89	3.6	4.2		11.5	
Uganda	7.3	2.2	30.4	52.8	28.5	18	0.0 ^b	0.1	0.1	0.9	
Ukraine	5.7	3.8	65.9	78.6	0.1	60	4.3	3.0	11.2	13.0	8.8
United Arab Emirates	3.3	2.5	74.7	70.4	0.0	661	0.8	2.0	6.2	2.6	2.2
United Kingdom	8.0	6.9	85.7	76.7	0.0	2,428	1.4	2.2		5.9	4.2
United States	15.2	6.8	44.6	24.3	0.0	5,711	2.4	2.3	13.2	4.9	3.3
Uruguay	9.8	2.7	27.2	25.0	0.4	323	3.7	3.7	4.5	4.5	1.9
Uzbekistan	5.5	2.4	43.0	95.5	3.0	21	3.4	2.7	13.7	12.5	5.5
Venezuela, RB	4.5	2.0	44.3	95.5	0.1	146	1.6	1.9	2.6	2.7	0.8
Vietnam	5.4	1.5	27.8	74.2	2.6	26	0.4	0.5	1.3	3.8	2.4
West Bank and Gaza								0.8			
Yemen, Rep.	5.5	2.2	40.9	95.5	8.8	32	0.0 ^b	0.3	0.7	0.8	0.6
Zambia	5.4	2.8	51.4	68.2	44.7	21	0.1	0.1			
Zimbabwe	7.9	2.8	35.9	56.7	6.8	40	0.1	0.2	0.6	0.5	
World	10.2 w	5.9 w	60.4 w	43.4 w	0.1 w	588 w	1.6 w	1.5 w	w	3.7 w	w
Low income	4.6	1.3	29.1	95.1	4.4	30	0.5	0.4			
Middle income	6.0	3.0	49.5	77.5	0.5	116	1.6	1.7		3.5	
Lower middle income	5.6	2.5	43.7	81.4	0.6	77	1.4	1.5		2.9	
Upper middle income	6.5	3.7	57.6	72.0	0.3	280	2.4	2.4	7.6	6.6	5.6
Low & middle income	5.8	2.8	46.4	81.6	1.2	79	1.3	1.1		3.1	
East Asia & Pacific	5.0	1.9	39.0	88.3	0.8	64	1.2	1.3	3.0	2.3	2.4
Europe & Central Asia	6.5	4.5	67.3	79.9	0.5	194	3.2	3.0	10.3	10.2	7.6
Latin America & Carib.	6.8	3.3	48.2	75.3	0.6	222	1.4	1.9		2.5	
Middle East & N. Africa	5.6	2.7	50.9	89.2	0.8	92	••	1.2		1.8	
South Asia	4.4	1.1	26.3	96.2	2.7	24	0.5	0.5		0.7	0.9
Sub-Saharan Africa	6.1	2.4	41.2	47.4	5.5	36		0.1		1.2	
High income	11.2	6.7	63.9	37.0	0.0 ^b	3,449	2.3	3.7		6.2	6.4
Europe EMU	9.6	7.1	74.1	57.6	0.0	2,552	3.1	3.9	12.2	8.1	6.6

a. Data are for the most recent year available. b. Less than 0.05.

Health expenditure, services, and use

About the data

National health accounts track financial flows in the health sector, including public and private expenditures, by source 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 to define a taxonomy of health care delivery institutions. The accounting system should be comprehensive and standardized, providing not only accurate measures of financial flows but also information on the equity and efficiency of health financing to inform health policy.

The absence of consistent national health accounting systems in most developing countries makes cross-country comparisons of health spending difficult. Compiling estimates of public health expenditures is complicated in countries where state or provincial and local governments are involved in financing and delivering health care, because the data on public spending often are not aggregated. There are a number of potential data sources related to external resources for health, including government expenditure accounts, government records on external assistance, routine surveys of external financing assistance, and special surveys. Survey data are the major source of information about out of pocket expenditure on health. The data in the table are the product of an effort by the World Health Organization (WHO), the Organisation for Economic Cooperation and Development (OECD), and the World Bank to collect all available information on health expenditures from national and local government budgets, national accounts, household surveys, insurance publications, international donors, and existing tabulations.

Indicators on health services (physicians, health worker density, and hospital beds per 1,000 people) come from a variety of sources (see Data sources). Data are lacking for many countries, and for others comparability is limited by differences in definitions. In estimates of health personnel, for example. some countries incorrectly include retired physicians (because deletions to physician rosters are made only periodically) or 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 WHO receives data on health professionals from ministries of health through its six regional offices, often in cooperation with national statistical

offices. The data are scrutinized using such additional recources as national and international employment surveys, records from professional associations, and other publications. Significant inconsistenties are returned to national authorities for validation and resubmission.

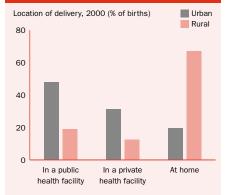
The health worker density index indicates the overall level of health workers (physicians, nurses, and midwives) in the country. Dentists and pharmacists are not included. Comparability of the index across countries is affected by differences in the definition of health workers. Many countries continue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

Definitions

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

2.14a

In Uganda most births in rural areas take place at home



Rural areas lack accessibile medical facilities, as shown by the low share of births in public or private health facilities

Source: Demographic and Health Survey.

Data sources

Data on health expenditure come mostly from the WHO's World Health Report 2006 and from the OECD for its member countries, supplemented by World Bank poverty assessments and country and sector studies. Data are also drawn from World Bank public expenditure reviews, the International Monetary Fund's Government Finance Statistics database, and other studies. Data on out of pocket expenditure in developing countries are drawn largely from household surveys conducted by governments or by statistical or international organizations. Data on physicians are from the WHO's World Health Report 2006 and Global Atlas of the Health Workforce database, OECD, and TransMONEE, supplemented by country data. Data for the health worker density index are from the Joint Learning Initiative's Human Resources for Health. Data on hospital beds are from the WHO's World Health Statistics 2005, OECD's Health Data 2005, and TransMONEE, supplemented by country data.



2.15 Disease prevention coverage and quality

	an im	ess to proved source	impi sanit	ess to roved tation lities	immun ra %	nild nization nte	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of lation 2002		of lation 2002		en ages months ^b DPT 2004	% of children under age 5 with ARI 2000–04 ¢	% of children under age 5 with diarrhea 1998–2004°	% of children under age 5 2000–04 °	% of children under age 5 with fever 2000–04 °	% of registered cases 2003	% of estimated cases 2004
Afghanistan		13		8	61	66	28	48			86	19
Albania	97	97		89	96	97	83	51			91	34
Algeria	95	87	88	92	81	86	52	••			90	105
Angola	32	50	30	30	64	59	58	32	2.3	63.0	68	94
Argentina	94	<u></u>	82		95	90					66	65
Armenia		92		84	92	91	25	48	••		77	44
Australia	100	100	100	100	93	92		••			82 68	33 42
Austria Azerbaijan	100 66	100 77	100	100 55	74 98	83 96	36	40	1.4	1.0	70	42
Bangladesh	71	75	23	48	77	85	20	35			85	44
Belarus	100	100			99	99					73	42
Belgium			••••	•••	82	95					73	65
Benin	60	68	11	32	85	83	29	42	7.4	60.0	81	82
Bolivia	72	85	33	45	64	81	52	54			81	71
Bosnia and Herzegovina	98	98		93	88	84	80	23			94	96
Botswana	93	95	38	41	90	97	14	7			77	67
Brazil	83	89	70	75	99	96			••		83	47
Bulgaria	100	100	100	100	81	90					91	104
Burkina Faso Burundi	39 69	51 79	13 44	12 36	78 75	88 74	36 40	16	2.0 1.3	50.0 31.0	66 79	18 29
Cambodia		34		16	80	85	35	59			93	61
Cameroon	 50	63	21	48	64	73	40	33	1.3	66.1	70	91
Canada	100	100	100	100	95	91					35	58
Central African Republic	48	75	23	27	35	40	32	47	1.5	69.0	59	4
Chad	20	34	6	8	56	50	12	50	0.6	32.0	78	16
Chile	90	95	85	92	95	94					85	114
China	70	77	23	44	84	91					94	63
Hong Kong, China	<u>.</u>				······				···		78	55
Colombia	92	92	82	86	92	89	51	44	0.7		83	17
Congo, Dem. Rep.	43	46 46	18	29 9	64 65	64 67	36 38	17	0.7	45.0	83 69	70 65
Congo, Rep. Costa Rica	••	97	••	92	88	90	•	••	••		94	153
Côte d'Ivoire	 69	84	31	40	49	50	38	34	4.0	57.5	72	38
Croatia					96	96						
Cuba		91	98	98	99	88				••	93	90
Czech Republic					97	98					79	61
Denmark	100	100			96	95					84	78
Dominican Republic	86	93	48	57	79	71	61	53			81	71
Ecuador	69	86	56	72	99	90		••			84	42
Egypt, Arab Rep.	94	98	54	68	97	97	70	29			80	61
El Salvador	67	82	51	63	93	90	62				88	57
Eritrea Estonia	40	57	8	9	84 96	83 94	44	54	4.2	4.0	85 70	14 74
Ethiopia	 25	 22	4	 6	71	80	16	38		3.0	70	36
Finland	100	100	100	100	97	98						
France					86	97						••
Gabon		87		36	55	38	48	44			34	81
Gambia, The		82		53	90	92	75	38	14.7	55.0	75	66
Georgia		76		83	86	78	99				66	79
Germany	100	100			92	97					71	51
Ghana	54	79	43	58	83	80	44	40	4.0	63.0	66	37
Greece					88	88						
Guatemala	77	95	50	61	75 72	84	64	22			91	55
Guinea Guinea-Bissau	42	51 59	17	13 34	73 80	69 80	33 64	44 23	4.0 7.4	56.0 58.0	75 80	52 75
Haiti	 53	59 71	 15	34 34	80 54	80 43	26	23 41	1.4	12.0	80 78	75 49
riuid	55	1	TO	٥4	J4	40	∠∪	-+±		12.0	10	+3

Disease prevention coverage and quality 2.15

	an im	ess to proved source	impr sanit	ess to oved ation lities		ization te	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of ulation 2002		of lation 2002	childre 12–23 r Measles 2004	nonths ^b	% of children under age 5 with ARI 2000–04 °	% of children under age 5 with diarrhea 1998–2004°	% of children under age 5 2000–04 ^c	% of children under age 5 with fever 2000–04 °	% of registered cases 2003	% of estimated cases
Handurae	83	90	49	68	92	89					87	83
Honduras Hungary	99	99	49	95	99	99			••		48	63 47
India	68	86	 12	30	56	64		22		••	86	57
Indonesia	71	78	46	52	72	70	61	61	0.1	1.0	87	53
Iran, Islamic Rep.	91	93	83	84	96	99	93				84	58
Iraq	83	81	81	80	90	81	76				85	20
Ireland					81	89						••
Israel	100	100			96	96					80	34
Italy					84	96					95	58
Jamaica	92	93	75	80	80	77	39	21			53	79
Japan	100	100	100	100	99	99					76	45
Jordan	98	91		93	99	95	72	44			87	79
Kazakhstan	86	86	72	72	99	82		22			75	79
Kenya	45	62	42	48	73	73	46	33	5.0	27.0	80	46
Korea, Dem. Rep.	100	100		59	95	72	93				88	103
Korea, Rep.		92			99	88					82	21
Kuwait					97	98					62	83
Kyrgyz Republic		76		60	99	99					84	62
Lao PDR		43		24	36	45	36	37	18.0	9.0	79	55
Latvia					99	98					74	83
Lebanon	100	100		98	96	92	74				92	82
Lesotho		76	37	37	70	78		29			70	86
Liberia	56	62	38	26	42	31	70				73	58
Libya	71	72	97	97	99	97		••			62	169
Lithuania					98	94					74	89
Macedonia, FYR					96	94					84	73
Madagascar	40	45	12	33	59	61	48	47	0.2	34.0	71	74
Malawi	41	67	36	46	80	89	27	51	2.9	27.0	73	40
Malaysia		95	96		95	99					72	69
Mali	34	48	36	45	75	76	43	45	8.4	38.0	65	19
Mauritania	41	56	28	42	64	70	39	28		33.4	58	43
Mauritius	100	100	99	99	98	98					87	33
Mexico	80	91	66	77	96	98					83	71
Moldova		92		68	96	98	78	52			65	59
Mongolia	62	62		59	96	99	78	66			87	80
Morocco	75	80	57	61	95	97	35	50			86	80
Mozambique		42		27	77	72	51				76	46
Myanmar	48	80	21	73	78	82	66	48			81	83
Namibia	58	80	24	30	70	81	53	39	3.4	14.0	63	88
Nepal	69	84	12	27	73	80	24	43			87	67
Netherlands	100	100	100	100	96	98					86	61
New Zealand	97				85	90					36	59
Nicaragua	69	81	47	66	84	79	57	49		2.0	84	87
Niger	40	46	7	12	74	62	27	43	5.8	48.0	70	46
Nigeria	49	60	39	38	35	25	31	28	1.0	34.0	59	21
Norway	100	100			88	91					97	46
Oman	77	79	83	89	98	99					90	123
Pakistan	83	90	38	54	67	65					75	27
Panama		91		72	99	99					74	133
Papua New Guinea	39	39	45	45	44	46					58	19
Paraguay	62	83	58	78	89	76					85	21
Peru	74	81	52	62	89	87	58	46			89	83
Philippines	87	85	54	73	80	79	55	76			88	73
Poland					97	99					78	56
Portugal					95	95		••			84	78





2.15 Disease prevention coverage and quality

	an im	ess to proved source	impi sanit	ess to roved cation lities	immun ra	ild ization te	Children with acute respiratory infection taken to health provider	Children with diarrhea who received oral rehydration and continued feeding	Children sleeping under treated bednets ^a	Children with fever receiving antimalarial drugs	Tuberculosis treatment success rate	DOTS detection rate
		of ulation 2002		of lation 2002	childre	of en ages months ^b DPT 2004	% of children under age 5 with ARI 2000-04 c	% of children under age 5 with diarrhea 1998–2004°	% of children under age 5 2000–04 ¢	% of children under age 5 with fever 2000–04¢	% of registered cases 2003	% of estimated cases 2004
Romania		57	••	51	97	97			31.0		80	41
Russian Federation	94	96	87	87	98	97					61	13
Rwanda	58	73	37	41	84	89	20	16	5.0	13.0	67	29
Saudi Arabia	90				97	96					79	40
Senegal	66	72	35	52	57	87	27	33	1.7	36.0	70	52
Serbia and Montenegro	93	93	87	87	96	97	97				89	32
Sierra Leone		57		39	64	61	50	39	1.5	61.0	83	36
Singapore					94	94					77	67
Slovak Republic	100	100	100	100	98	99					87	34
Slovenia					94	92					85	66
Somalia		29		25	40	30					90	44
South Africa	83	87	63	67	81	93		37			67	83
Spain					97	96						
Sri Lanka	68	78	70	91	96	97					81	70
Sudan	64	69	33	34	59	55	57	38	0.4	50.0	82	35
Swaziland		52		52	70	83	60	24	0.1	26.0	42	38
Sweden	100	100	100	100	94	99					83	69
Switzerland	100	100	100	100	82	95						
Syrian Arab Republic	79	79	76	77	98	99	66				88	46
Tajikistan		58		53	89	82	51	29	1.9	69.0	86	12
Tanzania	38	73	47	46	94	95		38	10.0	58.0	81	47
Thailand	81	85	80	99	96	98					73	71
Togo	49	51	37	34	70	71	30	25	2.0	60.0	63	17
Trinidad and Tobago	92	91	100	100	95	94	74	31				
Tunisia	77	82	75	80	95	97	43				91	95
Turkey	81	93	84	83	81	85	41	19	••		93	3
Turkmenistan	••	71		62	97	97	51				82	38
Uganda	44	56	43	41	91	87	67	29	0.2		68	43
Ukraine	••	98	99	99	99	99			••			
United Arab Emirates			100	100	94	94					64	17
United Kingdom												
United States	100	100	100	100	93	96					70	85
Uruguay		98		94	95	95					86	86
Uzbekistan	89	89	58	57	98	99	57	33			81	28
Venezuela, RB	••	83		68	80	86	72	51			82	77
Vietnam	72	80	32	41	97	96	71	39	15.8	7.0	92	89
West Bank and Gaza		94		76			65		••		80	1
Yemen, Rep.	69	69	21	30	76	78	47				82	40
Zambia	50	55	41	45	84	80	69	48	6.5	52.0	75	54
Zimbabwe	77	83	49	57	80	85		80			66	42
World	75 v					79 w		w				55 w
Low income	64	75	20	36	64	67		24				47
Middle income	77	83	48	61	87	89						68
Lower middle income	75	81	42	57	86	88						65
Upper middle income	88	93	80	81	91	93		37			•	74
Low & middle income	71	79	37	50	74	77						55
East Asia & Pacific	71	78	30	49	82	87						77
Europe & Central Asia		91	86	82	93	93		22			•	51
Latin America & Carib.	82	89	68	75	92	91						62
Middle East & N. Africa	87	88	69	75	92	93					•	50
South Asia	70	84	16	35	61	67		23			•	42
Sub-Saharan Africa	49	58	32	36	64	64						51
High income		99			93	96						57
Europe EMU					89	96						

a. For malaria prevention only. b. Refers to children who were immunized before 12 months or, in some cases, at any time before the survey (12–23 months). c. Data are for the most recent year available.

Disease prevention coverage and quality

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, some of the data are 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. 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 Joint Monitoring Programme of the WHO and United Nations Children's Fund (UNICEF). 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 safe or adequate, as these characteristics are not tested at the time of the surveys.

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

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

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

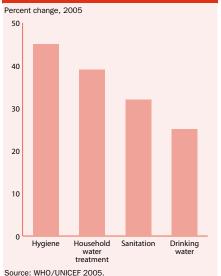
Malaria is endemic to the poorest countries in the world, mainly in tropical and subtropical regions of Africa, Asia, and the Americas. An estimated 300–500 million clinical malaria cases and more than 1 million malaria deaths occur each year—the vast majority in Sub-Saharan Africa and among children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

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

Data on the success rate of tuberculosis treatment are provided for countries that have implemented 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.

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Deaths from diarrhea can be sharply reduced with improvements in drinking water and sanitation



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, 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 1 kilometer of the dwelling. . Access to improved sanitation facilities refers to the percentage of the population with at least adequate access to excreta disposal facilities that can effectively prevent human, animal, and insect contact with excreta. Improved facilities range from simple but protected pit latrines to flush toilets with a sewerage connection. To be effective, facilities must be correctly constructed and properly maintained.

• Child immunization rate is the percentage of children ages 12–23 months who received vaccinations before 12 months or at any time before the survey for four diseases—measles and diphtheria, pertussis (whooping cough), and tetanus (DPT). A child is considered adequately immunized against measles after receiving one dose of vaccine and against DPT after receiving three doses. • Children with acute respiratory infection taken to a health provider refer to the percentage of children under age five with acute respiratory infection in the two weeks prior to the survey who were taken to an appropriate health provider, including hospital, health center, dispensary, village health worker, clinic, and private physician • Children with diarrhea who received oral rehydration

and continued feeding refer to the percentage of children under age five with diarrhea in the two weeks prior to the survey who received either oral rehydration therapy or increased fluids, with continued feeding. • Children sleeping under treated bednets refer to the percentage of children under age five who slept under an insecticidetreated bednet to prevent malaria. • Children with fever receiving antimalarial drugs refer to the percentage of children under age five who were ill with fever in the last two weeks and received any appropriate (locally defined) antimalarial drugs. • Tuberculosis treatment success rate is the percentage of new, registered smear-positive (infectious) cases that were cured or in which a full course of treatment was completed. • DOTS detection rate is the percentage of estimated new infectious tuberculosis cases detected under the directly observed treatment. short course case detection and treatment strategy.

Data sources

Data on water and sanitation are from the WHO and UNICEF's Meeting the MDG Drinking Water and Sanitation Target (www.unicef.org/wes/mdgreport). Data on immunization are from WHO and UNICEF estimates of national immunization coverage. Data on children with acute respiratory infection, children with diarrhea, children sleeping under treated bednets, and children receiving antimalarial drugs are from UNICEF's State of the World's Children 2006, Childinfo, and Demographic and Health Surveys by Macro International. Data on tuberculosis are from the WHO's Global Tuberculosis Control Report 2006.



	Total fo	-	Adolescent fertility rate	Unmet need for contraception	Contraceptive prevalence rate	Tetanus vaccinations		tended by ealth staff	Maternal i rat	-
	births pe	r woman 2004	births per 1,000 women ages 15–19 2004	% of married women ages 15–49 1995–2004 ^a	% of women ages 15–49 1996–2004 ^a	% of pregnant women 2004	% of 1990–92ª	total 2000–04 ª	per 100,000 National estimates 1990–2004 ^a	Modeled estimates
		2004	2004	1995-2004"		2004	1990-92"		1990-2004"	
Afghanistan	8.0				10	35		14	1,600	1,900
Albania	2.9	2.2	16		75	······································		98	23	55
Algeria	4.6 7.1	2.5 6.6	8 141	••	57 6	 75	77	96 45	120	140
Angola Argentina	3.0	2.3	59	······································		•	 96	99	44	1,700 82
Armenia	2.5	1.3	30	12	61	••	90	97	9	55
Australia	1.9	1.8	15				100			8
Austria	1.5	1.4	13		51					4
Azerbaijan	2.7	2.0	31		55			84	25	94
Bangladesh	4.3	3.0	123	11	59	45		13	380	380
Belarus	1.9	1.2	26					100	18	35
Belgium	1.6	1.6	8		••					10
Benin	6.7	5.7	130	27	19	69		66	500	850
Bolivia	4.9	3.7	82	23	58			67	230	420
Bosnia and Herzegovina	1.7	1.3	23		48		97	100		31
Botswana	4.4	3.1	76		48			94	330	100
Brazil	2.8	2.3	89	7	77		72	96	64	260
Bulgaria	1.8	1.3	44		42			99	15	32
Burkina Faso	7.3	6.5	159	29	14	65	••	38	480	1,000
Burundi	6.8	6.8	50		16	45	••	25		1,000
Cambodia	5.5	4.0	48	30	24	51		32	440	450
Cameroon	5.9	4.8	114	20	26	60	58	62		730
Canada	1.8	1.5	14					98		6
Central African Republic	5.6	4.8	126	16	28	42		44	1,100	1,100
Chad	6.7	6.4	192	10	3	42		14	830	1,100
Chile	2.6	2.0	61	••				100	17	31
China	2.1	1.8	5		87			96	51	56
Hong Kong, China	1.3	0.9	5							
Colombia	3.1	2.4	77	6	77	86	82	91	78	130
Congo, Dem. Rep.	6.7	6.7	227		31	58 65		61	1,300	990
Congo, Rep.	6.3 3.2	6.3 2.0	145 75	••		65			33	510
Costa Rica Côte d'Ivoire	3.∠ 6.5	2.0 4.8	123	28	80 15		98	98 68	600	43 690
Croatia	1.6	1.4	15			•		100	000	8
Cuba	1.7	1.5	50	••	73		••	100	34	33
Czech Republic	1.9	1.2	12		72			100		9
Denmark	1.7	1.8	7			•		100	10	5
Dominican Republic	3.3	2.8	91	11	70		93	98	180	150
Ecuador	3.6	2.7	84		66				80	130
Egypt, Arab Rep.	4.3	3.2	43	11	60	71	41	69	84	84
El Salvador	3.7	2.8	85		67			92	170	150
Eritrea	6.2	5.3	93	27	8	62		28		630
Estonia	2.0	1.4	23					100	46	63
Ethiopia	6.9	5.4	90	35	8	45		6	870	850
Finland	1.8	1.8	10					100	6	6
France	1.8	1.9	9						10	17
Gabon	5.3	3.8	106	28	33	45		86	520	420
Gambia, The	5.8	4.5	119		18		44	55	730	540
Georgia	2.1	1.4	33	••	41				52	32
Germany	1.5	1.4	10				••		8	8
Ghana	5.7	4.2	64	34	25	70		47		540
Greece	1.4	1.3	9						1	9
Guatemala	5.6	4.4	112	23	43			41	150	240
Guinea	6.5	5.8	191	24	7	77	31	56	530	740
Guinea-Bissau	7.1	7.1	194		8	56		35	910	1,100
Haiti	5.2	3.8	62	40	27	52	••	24	520	680

Reproductive health 2.16

		ertility te	Adolescent fertility rate	Unmet need for contraception	Contraceptive prevalence rate	Tetanus vaccinations		ttended by ealth staff	Maternal rat	-
	births pe 1990	er woman 2004	births per 1,000 women ages 15–19 2004	% of married women ages 15–49 1995–2004 ^a	% of women ages 15–49 1996–2004 ^a	% of pregnant women 2004	% o 1990-92ª	f total 2000–04 ª	per 100,000 National estimates 1990–2004 ^a	O live births Modeled estimates 2000
Honduras	5.1	3.6	99		62		45	56	110	110
Hungary	1.8	1.3	21					100		16
India	3.8	2.9	73	16	47	80	••	43	540	540
Indonesia	3.1	2.3	54	9	57	54	32	72	310	230
Iran, Islamic Rep.	4.8	2.1	20		74			90	37	76
Iraq	5.9	4.6	40		44	70	••	72	290	250
Ireland	2.1	2.0	14					100	6	5
Israel	2.8	2.9	15	••					5	17
Italy	1.3	1.3	7		60				7	5
Jamaica	2.9	2.4	79	••	65			97	110	87
Japan	1.5	1.3	4				100		8	10
Jordan	5.4	3.4	26	11	56		87	100	41	41
Kazakhstan	2.7	1.8	29	9	66				50	210
Kenya	5.8	5.0	96	25	39	70		42	410	1,000
Korea, Dem. Rep.	2.4	2.0	2					97	110	67
Korea, Rep.	1.6	1.2	3	••	81		98		20	20
Kuwait	3.4	2.5	24	••	50				5	5
Kyrgyz Republic	3.7	2.5	33	12	60			99		110
Lao PDR	6.0	4.6	89		32	30		19		650
Latvia	2.0	1.2	17	••					25	42
Lebanon	3.1	2.3	26	••	63					150
Lesotho	4.8	3.5	37	••	30			60		550
Liberia	6.9	6.8	224	••	10	35		51		760
Libya	4.7	2.9	7				••	01		97
Lithuania	2.0	1.3	21					100	13	13
Macedonia, FYR	2.1	1.7	23		•			99	7	23
Madagascar	6.2	5.1	124	24	27	 55	 57	51	470	550
Malawi	7.0	5.9	158	30	31	70	55	61	1,100	1,800
Malaysia	3.8	2.8	18			•		97	30	41
Mali	7.4	6.8	201	26	. 8	 50	••	41	580	1,200
Mauritania	6.1	5.7	99	32	8	33	40	57	750	1,000
Mauritius	2.3	2.0	32		76	•		98	22	24
Mexico	3.3	2.0	67	••	73			96 95	65	83
•		•					••		44	
Moldova	2.4	1.4	31		62	••	••		•	36
Mongolia	4.0	2.4	53		69			99	99	110
Morocco	4.0	2.5	42	10	63		31	63	230	220
Mozambique	6.2	5.4	102	18	17	60	••	48	410	1,000
Myanmar	4.0	2.3	19		34	85		57	230	360
Namibia	5.9	3.8	53	22	44	67	68	76	270	300
Nepal	5.1	3.5	114	28	38	42	7	15	540	740
Netherlands	1.6	1.7	5		75				7	16
New Zealand	2.2	2.0	24						15	7
Nicaragua 	4.8	3.2	120	15	69			67	83	230
Niger	8.2	7.7	260	17	14	43	15	16	590	1,600
Nigeria	6.7	5.6	142	17	13	51	31	35		800
Norway -	1.9	1.8	10	••	·				6	16
Oman	6.5	3.6	46		32			95	23	87
Pakistan	5.8	4.3	69		28	45	19	23	530	500
Panama	3.0	2.6	86	·	·-			93	70	160
Papua New Guinea	5.1	3.9	60		26	10		41		300
Paraguay	4.7	3.7	65	••	57		67	77	180	170
Peru	3.9	2.8	53	10	69			59	190	410
Philippines	4.3	3.1	36	17	49	70		60	170	200
Poland	2.0	1.2	15					100	4	13
Portugal	1.4	1.4	19					100	8	5
Puerto Rico	2.2	1.9	56							25
					····					



		Total fertility rate fe		Unmet need for contraception	Contraceptive prevalence rate	Tetanus vaccinations		tended by ealth staff	Maternal rat	-
	births per 1990	r woman 2004	births per 1,000 women ages 15–19 2004	% of married women ages 15–49 1995–2004 ^a	% of women ages 15–49 1996–2004 ^a	% of pregnant women 2004	% o 1990-92ª	f total 2000–04 ª	per 100,000 National estimates 1990–2004 ^a	O live births Modeled estimates 2000
Romania	1.8	1.3	35		64			99	31	49
Russian Federation	1.9	1.3	29					99		67
Rwanda	7.4	5.5	47	36	13	76	26	31	1,100	1,400
Saudi Arabia	5.9	4.0	33		21					23
Senegal	6.4	4.8	82	35	11	85	••	58	560	690
Serbia and Montenegro	2.1	1.7	23		58			93	7	11
Sierra Leone	6.5	6.5	179		4	76		42	1,800	2,000
Singapore	1.9	1.2	5						6	30
Slovak Republic	2.1	1.3	21					99	16	3
Slovenia	1.5	1.2	6				100	100	17	17
Somalia	6.8	6.3	69			60		25		1,100
South Africa	3.3	2.7	67	15	56	61			150	230
Spain	1.3	1.3	9						6	4
Sri Lanka	2.5	1.9	19		70			96	92	92
Sudan	5.6	4.2	52		7	37	69	87		590
Swaziland	5.3	4.0	37	••	48			74	230	370
Sweden	2.1	1.8	7	••	••				5	2
Switzerland	1.6	1.4	5						5	7
Syrian Arab Republic	5.2	3.3	34		48				65	160
Tajikistan	5.1	3.6	30		34	•••••••••••••••••••••••••••••••••••••••		71	45	100
Tanzania	6.1	4.8	110	22	25	90	44	46	580	1,500
Thailand	2.2	1.9	48		72			99	24	44
Togo	6.4	5.1	98	32	26	61		61	480	570
Trinidad and Tobago	2.4	1.6	36		38	•••••••••••••••••••••••••••••••••••••••	••	96	450	160
Tunisia	3.5	2.0	7	······································	66		••	90	69	120
•	······								•••••••••••••••••••••••••••••••••••••••	
Turkey	3.0	2.2	41	10	71	41	••	83		70
Turkmenistan	4.2	2.7	16	10	62		••	97	14	31
Uganda 	7.2	7.1	208	35	23	53		39	510	880
Ukraine	1.8	1.2	29		89		••	100	13	35
United Arab Emirates	4.3	2.2	20						3	54
United Kingdom	1.8	1.7	26	·-					7	13
United States	2.1	2.0	50		64				8	17
Uruguay	2.5	2.1	69				••		26	27
Uzbekistan	4.1	2.4	36	14	68			96	34	24
Venezuela, RB	3.4	2.7	91		77			94	68	96
Vietnam	3.6	1.8	20	5	79	85		90	170	130
West Bank and Gaza	6.3	4.9			42			97		••
Yemen, Rep.	7.5	5.9	93	39	23	21	16	27	370	570
Zambia	6.5	5.5	128	27	34	83	51	43	730	750
Zimbabwe	5.2	3.4	92	13	54	70			700	1,100
World	3.1 w	2.6 w			60 w		w	60 w		410 v
Low income	4.7	3.7	95		40			40		682
Middle income	2.6	2.1	32		76			87		142
Lower middle income	2.6	2.1	28		76			86		153
Upper middle income	2.7	2.0	47		69			95		92
Low & middle income	3.4	2.8	62		60			60		450
East Asia & Pacific	2.5	2.0	16		78			86		117
Europe & Central Asia	2.3	1.6	30		69			94		58
Latin America & Carib.	3.2	2.5	78		72		77	87		194
Middle East & N. Africa	4.8	3.0	33		59		42	72		183
South Asia	4.1	3.1	80		46	•		36		564
Sub-Saharan Africa	6.2	5.3	135		22			42		921
High income	1.8	1.7	25		64		41			14
Europe EMU	1.5	1.5	9		••					10

a. Data are for the most recent year available.

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. Complications of pregnancy and childbirth are the leading cause of death and disability among women of reproductive age in developing countries. Reproductive health services will need to expand rapidly over the next two decades, when the number of women and men of reproductive age is projected to increase by about 500 million.

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

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

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

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

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

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

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

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

Definitions

- Total fertility rate is the number of children that would be born to a woman if she were to live to the end of her childbearing years and bear children in accordance with current age-specific fertility rates.
- Adolescent fertility rate is the number of births per 1,000 women ages 15–19. Unmet need for contraception is the percentage of fertile, married women of reproductive age who do not want to become pregnant and are not using contraception.
- Contraceptive prevalence rate is the percentage of women who are practicing, or whose sexual partners are practicing, any form of contraception. It is usually measured for married women ages 15–49 only. Tetanus vaccinations refer to the percentage of pregnant women who receive two tetanus toxoid injections during their first pregnancy and one booster shot during each subsequent pregnancy, with five doses considered adequate for a lifetime.
- Births attended by skilled health staff are the percentage of deliveries attended by personnel trained to give the necessary supervision, care, and advice to women during pregnancy, labor, and the postpartum period; to conduct deliveries on their own; and to care for newborns. Maternal mortality ratio is the number of women who die from pregnancy-related causes during pregnancy and childbirth, per 100,000 live births.

Data sources

Data on fertility rates are compiled and estimated by the World Bank's Development Data Group. Important inputs come from the following sources: the United Nations Population Division's World Population Prospects: The 2004 Revision; census reports and other statistical publications from national statistical offices; and household surveys such as Demographic and Health Surveys. Data on women with unmet need for contraception and contraceptive prevalence rates are from household surveys, including Demographic and Health Surveys by Macro International and Multiple Indicator Cluster Surveys by UNICEF. Data on tetanus vaccinations and births attended by skilled health staff and national estimates of maternal mortality ratios are from UNICEF's State of the World's Children 2006 and Childinfo, and Demographic and Health Surveys by Macro International. Modeled estimates for maternal mortality ratios are from Carla AbouZahr and Tessa Wardlaw's "Maternal Mortality in 2000: Estimates Developed by WHO, UNICEF, and UNFPA" (2003).



		Prevalence of undernourishment		ce of child strition	Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of pop 1990–92	oulation 2001–03	% of childrer Underweight 1995–2004 ^a	n under age 5 Stunting 1995–2004 ^a	% of children under age 5 1995–2004 ^a	% of births 1998–2004 ^a	% of children under 6 months 1998–2004 ^a	% of households 1998–2004 ^a	% of children 6–59 months 2003
Afghanistan			39.3	47.6	4.0			28	86
Albania	5 ^b	6	14.0	35.1	22.4	3	6	62	
Algeria	5	5	10.4	19.1	10.1	7	13	69	
Angola	58	38	30.5	45.2	0.5	12	11	35	68
Argentina	<3	<3	5.4	12.4	9.2	8	••	••	
Armenia	52 ^b	29	2.6	12.9	10.4	7	30	84	
Australia		••	0.0	0.0	5.2	7			
Austria						7			
Azerbaijan	34 ^b	10	6.8	13.3	2.6	11	7	26	
Bangladesh	35	30	47.5	43.0	0.8	36	36	70	87
Belarus	<3 ^b	3				5		55	••
Belgium									••
Benin	20	14	22.9	30.7	1.8	16	38	72	98
Bolivia	28	23	7.6	26.7	5.6	7	54	90	38
Bosnia and Herzegovina	9 ^b	9	4.1	9.7	13.2	4	6	77	
Botswana	23	30	12.5	23.1	6.9	10	34	66	85
Brazil	12	8	5.7	10.5	4.9			88	
Bulgaria	8 ^b	9				10		98	
Burkina Faso	21	17	37.7	38.7	2.9	19	19	45	95
Burundi	48	67	45.1	56.8	0.7	16	62	96	95
Cambodia	43	33	45.2	44.6	2.0	11	12	14	47
Cameroon	33	25	18.1	31.7	5.2	11	21	61	86
Canada						6			
Central African Republic	50	45	24.3	28.4	0.8	14	17	86	84
Chad	58	33	36.7	40.9	1.5	31	2	58	85
Chile	8	4	0.7	1.4	8.1	5	63	100	
China	16	12	7.8	14.2	2.6	4	51	93	
Hong Kong, China						5			
Colombia	17	14	7.0	12.0	3.7	6	26	43	••
Congo, Dem. Rep.	31	72	31.0	38.1	3.9	12	24	72	80
Congo, Rep.	54	34	13.0				4 ^c		89
Costa Rica	6	4	5.1	6.1	6.2	7		••	••
Côte d'Ivoire	18	14	17.2	25.1	2.5	17	5	31	97
Croatia	16 ^b	7	0.6	0.8	5.9	6		90	
Cuba	8	<3	3.9	4.6	••	6	41	88	••
Czech Republic	<3 ^b	<3		••		7	••	••	
Denmark						5			
Dominican Republic	27	27	5.3	8.9	6.5	11	10	18	40
Ecuador	8	5	11.6	26.4		16	35	99	50
Egypt, Arab Rep.	4	3	8.6	15.6	6.7	12	30	56	
El Salvador	12	11	10.3	18.9	3.6	7	24		
Eritrea		73	39.6	37.6	0.7		52	68	52
Estonia	9 ^b	3				4			
Ethiopia		46	47.2	51.5	1.2	15	55	28	65
Finland		••				4			
France						7			
Gabon	10	5	11.9	20.7	3.7	14	6	36	30
Gambia, The	22	27	17.2	19.2	1.5	17	26	8	91
Georgia	44 ^b	13	3.1	11.7	12.7	7	18 ^c	68	<u></u>
Germany						7			
Ghana	37	12	22.1	29.9	2.9	16	53	28	78
Greece					<u></u>	8			
Guatemala	16	23	22.7	49.3	5.4	12	51	67	33
Guinea	39	24	32.7	26.1	2.7	16	23	68	98
Guinea-Bissau	24	37	25.0	30.5	3.3	22	37	2	80
Haiti	65	47	17.2	22.7	2.0	21	24	11	25

	Prevale undernou			ce of child itrition	Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of pop 1990–92	oulation 2001–03	% of childrer Underweight 1995–2004 ^a	n under age 5 Stunting 1995–2004 ª	% of children under age 5 1995–2004 ^a	% of births 1998–2004 ^a	% of children under 6 months 1998–2004 ^a	% of households 1998–2004 ^a	% of children 6–59 months 2003
Honduras	23	22	16.6	29.2	2.2	14	35	80	35
Hungary	<3 ^b	<3				9			
India	25	20	46.7	44.9	2.2	30	37 ^c	50	45 ^d
Indonesia	9	6	28.2	42.2	4.0	9	40	73	62
Iran, Islamic Rep.	4	4	10.9	15.4	4.3	••	44	94	
Iraq			15.9	22.1	3.0	15	12	40	
Ireland						6			
Israel					·••	8		••	
Italy					·	6			
Jamaica	14	10	3.6	4.4	3.8	10		100	••
Japan						8			••
Jordan	4 <3 ^b	7	4.4	8.5	3.5		27	88	
Kazakhstan		8	4.2	9.7	3.0	8	36	83	
Kenya Koroa Dom Pon	39 18	31 35	19.9 23.9	30.3 38.6	3.7 0.6	10 7	13 65	91 40	33 95
Korea, Dem. Rep. Korea, Rep.	<3	<3	···•			4			
Kuwait	24	5	1.7	3.2	5.7	7	c		
Kyrgyz Republic	21 ^b	4	6.7	24.8	6.3			42	••
Lao PDR	29	21	40.4	42.4	1.2	14	23	42 75	64
Latvia	3 ^b	3		42.4	•••••••••••••••••••••••••••••••••••••••	5	••••••••••••	•	
Lebanon	<3	3	3.0	12.2		6	 27 ^c	 87	••
Lesotho	17	12	18.0	46.1	 12.1	14	15	69	75
Liberia	34	49	26.5	39.5	2.3		35		40
Libya	<3	<3	4.7	15.1				••	
Lithuania	4 ^b	<3	••			4			
Macedonia, FYR	15 ^b	7	5.9	6.9	4.9	6	99	80	95
Madagascar	35	38	41.9	47.7	2.0	17	67	75	91
Malawi	50	34	21.9	49.0	4.3	16	44	49	92
Malaysia	3	3	10.6	15.6	3.3	9	°		
Mali	29	28	33.2	38.2	1.5	23	25	74	61
Mauritania	15	10	31.8	34.5			20	2	89
Mauritius	6	6	14.9	9.7	4.0	14	21 ^c		
Mexico	5	5	7.5	17.7	5.3	8		91	
Moldova	5 ^b	11	3.2			5		33	
Mongolia	34	28	12.7	24.6	4.8	7	51	75	87
Morocco	6	6	10.2	18.1	9.2		31	41	
Mozambique	66	45	23.7	41.0	3.0	15	30	54	50
Myanmar	10	5	31.8	32.2	1.6	15	15 ^c	60	87
Namibia	34	23	24.0	23.6	2.2	14	19	63	93
Nepal	20	17	48.3	50.5	0.2	21	68	63	96
Netherlands									
New Zealand						6		83	
Nicaragua	30	27	9.6	20.2	4.7	12	31	97	91
Niger	41	32	40.1	39.7	0.8	13	1	15	95
Nigeria Norway	13	9	28.7	38.3	3.6	14	17	97	27
Norway Oman	••		17.8	10.4	1.0	5	·	61	 97
Oman Pakistan	24	23	17.8 37.8	36.8	2.1	8		61 17	97 95
Panama	24	25 25	37.8 8.1	18.2	4.2	10		95	
Panama Papua New Guinea	21 15	25 13					••	90	1
Paraguay	18	15	4.6			••	22	 88	
Peru	42	12	7.1	 25.4	7.6		67		 6
Philippines	26	19	27.6	32.1	1.0	20	34	 56	76
Poland	<3 ^b	<3				6			
Portugal						8			
	••				••	~		••	

2.17 Nutrition

	Prevalence of undernourishment			ee of child trition	Prevalence of overweight children	Low- birthweight babies	Exclusive breastfeeding	Consumption of iodized salt	Vitamin A supplemen- tation
	% of po	pulation 2001–03	% of children Underweight 1995–2004 ^a	under age 5 Stunting 1995–2004 ^a	% of children under age 5 1995–2004 ^a	% of births 1998–2004 ^a	% of children under 6 months 1998–2004 ^a	% of households 1998–2004 ^a	% of children 6–59 months 2003
Romania	<3 ^b	<3	3.2	10.1	5.5	9		53	
Russian Federation	4 ^b	3	5.5	10.6		6		35	
Rwanda	43	36	24.3	42.6	4.0	9	84	90	86
Saudi Arabia	4	4	14.3				^c		
Senegal	23	23	22.7	25.4	2.2	18	24 ^c	16	83
Serbia and Montenegro	5 ^b	10	1.9	5.1	12.9	4	11 ^c	73	
Sierra Leone	46	50	27.2	33.8		23	4	23	84
Singapore			3.4	2.2	2.2	8			
Slovak Republic	4 ^b	6				7	••		
Slovenia	3 ^b	3				6	••		
Somalia	••		25.8	23.3			9		60
South Africa			11.5	24.9	6.2	15	7	62	
Spain		••							
Sri Lanka	28	22	29.7	13.9	••	22	84	88	
Sudan	31	27	40.7	43.3	3.4	31	16	1	34
Swaziland	14	19	10.3	30.2		9	24	59	80
Sweden						4			
Switzerland	•	•	•	•		6	•		
Syrian Arab Republic	5	4	6.9	18.8		6	 81 ^c	 79	••
Tajikistan	22 ^b	61	*	36.2		15	50	28	••
Tanzania	37	44	29.4	43.8	1.7	13	41	67	91
Thailand	30	21	17.6	13.4	2.8	9	···	63	
	33	25	25.1	21.7	1.5	18	10	67	84
Togo	•	25 11	···•	•			18 2		
Trinidad and Tobago	13 <3	•	5.9	3.6		23 7	47	1 97	···
Tunisia 	• · · · · · · · · · · · · · · · · · · ·	<3	4.0	12.3	4.5				······································
Turkey - · · · ·	<3	3	3.9	16.0	2.2	16	21	64	······································
Turkmenistan	12 ^b	8	12.0	22.3		6	13	100	
Uganda ·	24	19	22.9	39.1	2.6	12	63	95	46
Ukraine	<3 ^b	3	1.0	2.7	20.1	5	22	32	
United Arab Emirates	4	<3	7.0					••	••
United Kingdom					··	8	••		
United States	···		1.6	1.1	5.6	8	••		••
Uruguay	7	3	4.5	···		8			···
Uzbekistan	8 _p	26	7.9	21.1	14.4	7	19	19	93
Venezuela, RB	11	18	4.4	12.8	3.2	9	7 ^c	90	
Vietnam	31	17	28.4	36.5	2.7	9	15	83	99 ^d
West Bank and Gaza		16	4.1	7.3	2.3	••			
Yemen, Rep.	34	37	45.6	51.7	1.9		12	30	36
Zambia	48	47	23.0	46.8	3.0	12	40	77	73
Zimbabwe	45	45	13.0	26.5	7.0	11	33	93	46
World	20 w	16 w	w	W		w	w	W	W
Low income	27	24	43.4	43.1		22	33		61
Middle income	14	10	11.1	26.9					
Lower middle income	15	11	11.2	15.1			43	70	
Upper middle income		4				10	18		
Low & middle income	20	16					36	62	
East Asia & Pacific	17	12	11.5	17.1		11			
Europe & Central Asia	6 ^b	6					22		
Latin America & Carib.	13	10	9.1	19.1		11	••		
Middle East & N. Africa	6	7	14.7	20.0			31	67	
South Asia	26	21	48.5	46.1			38		58
Sub-Saharan Africa	31	32				25	28	56	62
High income							12		
Europe EMU									

a. Data are for the most recent year available. b. Data are for 1993–95. c. Refers to exclusive breastfeeding for less than four months. d. Country's vitamin A supplementation programs do not target children all the way up to 59 months of age.

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

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

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

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

It is estimated that improved breastfeeding practice can save some 1.5 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 on breastfeeding are derived from national surveys.

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

Vitamin A is essential for the functioning of the immune system. A child deficient in vitamin A faces a 25 percent greater risk of dying from a range of childhood ailments such as measles, malaria, and diarrhea. Improving the vitamin A status of pregnant women helps reduce anemia, improves their resistance to infection, and may reduce their risk of dying during pregnancy and childbirth. Giving vitamin A to new mothers who are breastfeeding helps to protect their children during the first months of life. Food fortification with vitamin A is being introduced in many developing countries.

Definitions

• Prevalence of undernourishment is the percentage of the population that is undernourished. • Prevalence of child malnutrition is the percentage of children under age five whose weight for age (underweight) or height for age (stunting) is more than two standard deviations below the median for the international reference population ages 0-59 months. For children up to two years old height is measured by recumbent length. For older children height is measured by stature while standing. The 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 children is the percentage of children under age five whose weight for height is more than two standard deviations above the median for the international reference population of the corresponding age, established by the U.S. National Center for Health Statistics and the WHO. • Low-birthweight babies are the percentage of newborns weighing less than 2,500 grams, with the measurement taken within the first hours of life, before significant postnatal weight loss has occurred. • Exclusive breastfeeding refers to the percentage of children less than six months old who are fed breast milk alone (no other liquids). • Consumption of iodized salt refers to the percentage of households that use edible salt fortified with iodine. • Vitamin A supplementation refers to the percentage of children ages 6-59 months old who received at least one high-dose vitamin A capsule in the previous six months.

Data sources

Data on undernourishment are from www.fao.org/faostat/foodsecurity/index_en.htm. Data on malnutrition and overweight are from WHO's Global Database on Child Growth and Malnutrition. Data on low-birthweight babies, breastfeeding, iodized salt consumption, and vitamin A supplementation are from the WHO's World Health Report 2004 and the United Nations Children's Fund's State of the World's Children 2006.



2.18 Health risk factors and public health challenges

	Prevalence of smoking % of adults Male Female 2000-05a 2000-05a		Incidence of tuberculosis	Prevalence of diabetes	Mortality caused by road traffic injury	Prevalence of HIV					
			per 100,000 people 2004	% of population ages 20–79	per 100,000 people 1998–2003 ª	Total % of population ages 15–49 2001 2003		Female % of population with HIV 2001 2003			
Afahaniatan			···•								
Afghanistan Albania	60	18	333 22	8.2 3.8		••	••		••		
Algeria	32	Op	54	4.1	11.1	<0.1	0.1		15.6		
Angola			259	2.7		3.7	3.9	55.0	59.1		
Argentina	32	25	43	5.4		0.7	0.7	19.2	20.0		
Armenia	62	2	78	8.1	5.6	0.1	0.1	35.0	36.0		
Australia	19	16	6	6.2	8.2	0.1	0.1	6.7	7.1		
Austria	••		14	9.6	11.5	0.2	0.3	22.2	22.0		
Azerbaijan	••	1	75	6.9	6.9		<0.1		••		
Bangladesh	55	27	229	3.9		••			••		
Belarus	53	7	60	6.9	14.3	••					
Belgium	30	25	13	4.2	13.1	0.2	0.2	35.8	35.0		
3enin			87	2.1		1.9	1.9	57.6	56.5		
Bolivia			217	4.8		0.1	0.1	27.5	27.1		
Bosnia and Herzegovina	49	30	53	9.6			<0.1				
Botswana			670	3.6		38.0	37.3	57.6	57.6		
Brazil	22	14	60	5.2		0.6	0.7	37.1	36.9		
Bulgaria	44	23	36	10.0	10.2		0.1		••		
Burkina Faso			191	2.7		4.2	1.8 ^c	56.0	55.6		
Burundi			343	1.3		6.2	6.0	54.5	59.1		
Cambodia			510	2.0		2.7	2.6	30.0	30.0		
Cameroon			179	0.8	<u></u>	7.0	5.5 ^d	56.0	55.8		
Canada	22	17	5	9.0	8.7	0.3	0.3	25.0	23.6		
Central African Republic			322	2.3		13.5	13.5	56.5	54.2		
Chad			279	2.7		4.9	4.8	57.1	55.6		
Chile	48 67	37 4	16	5.6	10.7	0.3 0.1	0.3 0.1	32.0	33.5 22.9		
China Hong China	22	4	101 75	2.7 8.8	19.0	0.1	0.1	20.0 30.8	34.6		
Hong Kong, China Colombia	•••••	•	50	4.3	24.2	0.5	0.1	33.3	34.4		
Congo, Dem. Rep.	••	••	366	2.5		4.2	4.2	56.8	57.0		
Congo, Rep.			377	2.6	······································	5.3	4.9	56.3	56.3		
Costa Rica	29	10	14	6.9	20.1	0.6	0.6	31.8	33.3		
Côte d'Ivoire			393	2.3	20.1	6.7	7.0	56.3	56.6		
Croatia	34	27	41	5.8	11.4		<0.1				
Cuba			10	13.2	13.9	0.1	0.1	31.3	33.3		
Czech Republic	31	20	11	9.5	14.2	<0.1	0.1	35.7	32.0		
Denmark	31	25	8	6.9	8.0	0.2	0.2	17.4	18.0		
Dominican Republic	16	11	91	10.0	41.1	1.8	1.0 ^e	26.4	27.1		
Ecuador			131	4.8	16.9	0.3	0.3	32.6	34.0		
gypt, Arab Rep.	40	18	27	9.8	7.5	<0.1	<0.1	10.9	13.3		
El Salvador	42	15	54	6.2	41.7	0.6	0.7	32.1	34.3		
Fritrea			271	1.9		2.8	2.7	56.4	56.4		
stonia	45	18	46	9.7	14.8	0.7	1.1	32.0	33.8		
Ethiopia	6	Op	353	1.9		4.1	4.4	55.8	55.0		
inland	26	19	9	7.2	7.3	0.1	0.1				
rance	30	21	12	6.2	10.2	0.4	0.4	27.3	26.7		
Gabon			280	2.9		6.9	8.1	56.8	57.8		
Gambia, The			233	2.2		1.2	1.2	55.6	57.1		
Georgia	53	6	82	9.0	6.2	<0.1	0.1		33.3		
Germany	37	28	8	10.2	8.0	0.1	0.1	19.8	22.1		
Shana	7	1	206	3.3		3.1	2.2 ^c	54.8	56.3		
Greece	47	29	19	6.1	19.3	0.2	0.2	20.5	20.0		
Guatemala	21	2	77	5.5		1.1	1.1	41.5	41.9		
Guinea			240	2.0		2.8	3.2	59.0	55.4		
Guinea-Bissau			199	2.0					····		
Haiti	15	6	306	5.7		5.5	5.6	58.3	57.7		

Health risk factors and public health challenges 2.18

Hunduras	Female % of population with HIV 2001 2003 56.3 55.9	
Hunduras	56.3 55.9 	
Hungary 41 28 26 9.7 13.1 0.1 Inclination 47 17 168 5.9 0.8 0.9 1 17an, Islamic Rep. 12 2 2 2 77 3.6 0.1 0.1 0.1 17an, Islamic Rep. 22 2 2 77 3.6 0.1 0.1 0.1 17an, Islamic Rep. 22 2 2 77 3.6 0.1 0.1 0.1 17an, Islamic Rep. 28 26 11 3.4 10.1 0.1 0.1 0.1 17an 17an 17an 17an 17an 17an 17an 17a	39.5 38.0 12.1 13.6	
India	12.1 13.6	5.9
Indonesia 58 3 245 1.9 0.1 0.1 0.1 17 17 17 18 18 19 1.0 1.0 1.1 17 18 19 18 18 19 18 18 19 18 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18	12.1 13.6	
Iran, Islamic Rep. 22 2 27 3.6 0.1 0.1 Iraq 132 7.7 8.4 <0.1	······	
Irealand	10.6 12.3	
Ireland		2.3
Israel 32	31.8 30.8	
Italy 31 17 7 6.6 10.5 0.5 0.5 Jamaica 7 7.2 0.8 1.2 1.2 Japan 47 15 30 6.9 7.0 <0.1		
Jamaica	32.3 32.1	
Japan 47 15 30 6.9 7.0 <0.1 <0.1 2 Jordan 51 8 5 7.0 <0.1	51.4 47.6	
Jordan	22.5 24.2	
Kazakhstan 65 9 151 5.5 0.1 0.2 4 Kenya 21 1 619 2.5 8.0 6.7° 6 Korea, Dem. Rep. 178 5.2 <t< td=""><td>24.2</td><td></td></t<>	24.2	
Kenya 21 1 619 2.5 8.0 6.7° 6 Korea, Dem. Rep. 178 5.2 Korea, Rep. 90 6.4 15.1 <0.1 <0.1 Kwait 26 12.8 23.7 Kyrgyz Republic 51 5 122 4.3 12.9 <0.1 0.1 Lao PDR 59 13 156 1.1 <0.1 0.1 Latvia 51 19 68 9.9 22.7 0.5 0.6 3.6 Lebanon 42 31 11 64 0.1 0.1 Lebanon 696 3.1 29.6 28.9 2.5 Liberia 20 3.7 0.3 Libya <t< td=""><td>34.0 33.5</td><td>3.5</td></t<>	34.0 33.5	3.5
Korea, Dem. Rep. 178 5.2	62.5 65.5	
Korea, Rep. 90 6.4 15.1 <0.1 <0.1 Kuwait 26 12.8 23.7 Kyrgyz Republic 51 5 122 4.3 12.9 <0.1 0.1 Lao PDR 59 13 156 1.1 <0.1 0.1 Latvia 51 19 68 9.9 22.7 0.5 0.6 3 Lebanon 42 31 11 64 0.1 0.1 Lebanon 42 31 31 12 0.2 0.1 0.1 Lebanon 42 31 31 31 31		
Kuwait <	10.7 10.8).8
Kyrgyz Republic 51 5 122 4.3 12.9 <0.1 0.1 Lao PDR 59 13 156 1.1 <0.1	·····	
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Lebanon 42 31 11 6.4 0.1 0.1 Lesotho 696 3.1 29.6 28.9 5 Libya 310 2.0 5.1 5.9 5 Libya 20 3.7 0.3 Lithuania 44 13 63 9.4 19.3 0.1 0.1 Macedonia, FYR 30 4.9 5.1 <0.1 <0.1 Madedgascar 218 2.5 1.3 1.7 5 Malawi 21 5 413 1.7 14.3 14.2 4 Malawi 21 5 413 1.7 14.3 14.2 4 Malawi 21 5 413 1.7 1.8 1.9 5 M		
Lesotho 696 3.1 29.6 28.9 5 Liberia 310 2.0 5.1 5.9 5 Libya 20 3.7 0.3 Lithuania 44 13 63 9.4 19.3 0.1 0.1 Maccedonia, FYR 30 4.9 5.1 <0.1	32.2 33.3	3.3
Liberia 310 2.0 5.1 5.9 5 Libya 20 3.7 0.3 Lithuania 44 13 63 9.4 19.3 0.1 0.1 Macedonia, FYR 30 4.9 5.1 <0.1		
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Libya 20 3.7 0.3 Lithuania 44 13 63 9.4 19.3 0.1 0.1 Macedonia, FYR 30 4.9 5.1 <0.1 <0.1 Madagascar 218 2.5 1.3 1.7 5 Malawi 21 5 413 1.7 14.3 14.2 5 Malaysia 43 2 103 9.4 0.4 0.4 0.4 Mali 281 2.0 1.8 ^f 1.9 5 Mauritania 287 3.5 0.5 0.6 5 Mauritius 32 1 64 10.7 14.7 Mexico 13 5 32 7.4 11.8 0.3 0.3 3 Moldova 34 2 138 9.3 14.1 0.2 Mongolia 68 26 192 1.4 <0.1 <0.1 Morocco 29 0 ^b 110 4.2 0.1 Mozambique 460 3.1 12.1 12.2 5 Myanmar 36 12 171 1.1 1.0 1.2 2 Myanmar 36 12 171 1.1 1.1 1.0 1.2 2 Namibia 23 10 717 3.1 21.3 21.3 5 Nepal 49 24 184 4.1 0.4 0.5 2 New Zealand 24 22 11 7.6 11.5 0.1 0.1	56.3 56.3	5.3
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Mali 281 2.0 1.8f 1.9 5 Mauritania 287 3.5 0.5 0.6 5 Mauritius 32 1 64 10.7 14.7 Mexico 13 5 32 7.4 11.8 0.3 0.3 3 Moldova 34 2 138 9.3 14.1 0.2 Mongolia 68 26 192 1.4 <0.1 <0.1 Morocco 29 0b 110 4.2 0.1 Mozambique 460 3.1 12.1 12.2 5 Myanmar 36 12 171 1.1 1.0 1.2 2 Nepal 49 24 184 4.1 0.4 0.5 2 New Ze	57.1 56.8	3.8
Mauritania 287 3.5 0.5 0.6 5 Mauritius 32 1 64 10.7 14.7 Mexico 13 5 32 7.4 11.8 0.3 0.3 3 Moldova 34 2 138 9.3 14.1 0.2 Mongolia 68 26 192 1.4 <0.1 <0.1 Morocco 29 0b 110 4.2 0.1 Mozambique 460 3.1 12.1 12.2 5 Myanmar 36 12 171 1.1 1.0 1.2 2 Nepal 49 24 184 4.1 0.4 0.5 2 New Zealand 24 22 11 7.6 11.5 0.1 0.1	15.4 16.7	
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Mongolia 68 26 192 1.4 <0.1 <0.1 Morocco 29 0b 110 4.2 0.1 Mozambique 460 3.1 12.1 12.2 5 Myanmar 36 12 171 1.1 1.0 1.2 2 Namibia 23 10 717 3.1 21.3 21.3 5 Nepal 49 24 184 4.1 0.4 0.5 2 Netherlands 36 28 8 3.7 6.4 0.2 0.2 0.2 New Zealand 24 22 11 7.6 11.5 0.1 0.1	32.7 33.1	3.1
Morocco 29 0b 110 4.2 0.1 Mozambique 460 3.1 12.1 12.2 5 Myanmar 36 12 171 1.1 1.0 1.2 2 Namibia 23 10 717 3.1 21.3 21.3 5 Nepal 49 24 184 4.1 0.4 0.5 2 Netherlands 36 28 8 3.7 6.4 0.2 0.2 0.2 New Zealand 24 22 11 7.6 11.5 0.1 0.1		
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Netherlands 36 28 8 3.7 6.4 0.2 0.2 1 New Zealand 24 22 11 7.6 11.5 0.1 0.1	52.6 55.0 20.7 26.7	
New Zealand 24 22 11 7.6 11.5 0.1 0.1	19.4 20.0	
	10.4 20.0	J.U
Nicaragua 5 63 6.1 20.1 0.2 0.2	32.7 33.9	 3 Q
	56.9 56.3	
	58.1 57.6	
Norway 27 25 5 6.7 6.1 0.1 0.1		
Oman 11 11.4 0.1 0.1		
Pakistan 181 8.5 0.1 0.1	6.9 12.2	
	37.3 41.3	
	29.0 30.0	
	27.0 26.0	
	31.4 33.8	
	20.9 22.5	
Poland 40 25 29 9.0 14.8 0.1		
	20.0 19.5	9.5
Puerto Rico 17 10 5 13.2	20.0 19.0	



2.18 Health risk factors and public health challenges

	Prevalence of smoking		Incidence of tuberculosis	Prevalence of diabetes	Mortality caused by road traffic injury	Prevalence of HIV					
	% of a Male 2000–05 ª			% of population ages 20–79	per 100,000 people 1998–2003 ª	Total % of population ages 15–49 2001 2003		Female % of population with HIV 2001 2003			
Romania	32	10	146	9.3	16.8		<0.1				
Russian Federation	60	16	115	9.3	19.4	0.7	1.1	32.1	33.7		
Rwanda	•	•····	371	1.1	•	5.1	5.1	54.5	56.5		
Saudi Arabia	 19	8	40	9.4	••		•	•	•		
Senegal	•		245	2.3		0.8	0.8	 55.3	 56.1		
Serbia and Montenegro	 48	34	33	5.6		0.2	0.8	20.0	20.0		
	•	•	443	2.2	••		•	20.0	20.0		
Sierra Leone			··· ·								
Singapore	24	4	40	12.3	5.2	0.2	0.2	23.5	24.4		
Slovak Republic			19	8.7	11.3	 -0 1	<0.1		••		
Slovenia	28	20	15	9.6	12.1	<0.1	<0.1	<u> </u>			
Somalia			411	2.3			 4F 68	 FC 2			
South Africa	23	8	718	3.4		20.9	15.6 ^e	56.3	56.9		
Spain	39	25	25	9.9	12.8	0.6	0.7	20.0	20.8		
Sri Lanka	23	2	60	2.1		<0.1	<0.1		17.1		
Sudan			220	3.2		1.9	2.3	56.7	57.9		
Swaziland	11	3	1,226	3.0		38.2	38.8	57.9	55.0		
Sweden	17	18	4	7.3	5.9	0.1	0.1	27.3	25.7		
Switzerland	27	23	7	9.5	7.5	0.4	0.4	30.0	30.0		
Syrian Arab Republic			41	6.2		••	<0.1				
ajikistan			177	3.7	5.6		<0.1				
anzania			347	2.3		9.0	7.0 ^d	58.6	56.0		
hailand	49	3	142	2.1		1.7	1.5	32.3	35.7		
ogo			355	2.1		4.3	4.1	56.4	56.3		
rinidad and Tobago			9	7.9		3.0	3.2	50.0	50.0		
unisia	50	2	22	4.6		<0.1	<0.1				
ūrkey	49	18	28	7.0							
- Turkmenistan			65	4.0	10.3		<0.1				
Jganda	25	3	402	1.5		5.1	4.1	59.6	60.0		
Jkraine	53	11	101	9.7	10.8	1.2	1.4	32.0	33.3		
Jnited Arab Emirates	17	1	17	20.1			••				
Jnited Kingdom	27	25	12	3.9	6.1	0.2	0.2	28.2	29.8		
Jnited States	24	19	5	8.0	14.7	0.6	0.6	20.2	25.5		
Jruguay	35	24	28	6.8	10.0	0.3	0.3	32.7	32.8		
Jzbekistan	24	1	117	4.0	9.8	<0.1	0.1	33.3	33.6		
/enezuela, RB			42	5.2	23.1	0.6	0.7	32.4	32.0		
/ietnam	 35	2	176	1.0		0.3	0.4	27.3	32.5		
Vest Bank and Gaza	•	•	23				•	27.0	52.5		
remen, Rep.	••		23 89	7.7		••	0.1				
łambia	 16	1	680	3.0	••	16.7	15.6 ^g	 56.3	 56.6		
	20	2	674	2.6	••		•	56.3	58.1		
Zimbabwe World						24.9	24.6				
World	W	W	139 w	5.1 w	w	1.1 w	1.1 w	29.4 w	30.8 \		
ow income		15	224	4.7		2.1	2.1	41.2	41.1		
/liddle income			114	4.4		0.7	0.7	23.7	25.7		
Lower middle income			114	3.6		0.3	0.3	21.9	24.1		
Upper middle income			112	7.6		2.7	2.6	33.3	34.2		
ow & middle income			162	4.5	•••	1.2	1.2	30.8	32.0		
East Asia & Pacific	67	4	138	2.6	19.0	0.2	0.2	20.2	22.9		
Europe & Central Asia			83	8.3			0.7				
Latin America & Carib.			64	5.9		0.6	0.7	34.0	34.5		
Middle East & N. Africa			54	6.2			0.1				
South Asia	47	18	177	5.9		0.7	0.8	35.5	34.5		
Sub-Saharan Africa			363	2.4		7.3	7.2	57.1	57.3		
ligh income			17	7.6	10.9	0.3	0.4	22.0	24.2		
Europe EMU			13	7.8	9.9	0.3	0.3	24.5	25.0		
	•						•				

a. Data are for the most recent year available. b. Less than 0.5. c. Survey data, 2003. d. Survey data, 2004. e. Survey data, 2002. f. Survey data, 2001. g. Survey data, 2001/02.

Health risk factors and public health challenges 2.18

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

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

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

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

Data for mortality caused by road traffic injury are collected by the WHO based on vital registries. There

is considerable difference in completeness of the vital registry data. In some countries the vital registry system covers only part of the country. In some, not all deaths are registered. In addition, mortality from different causes is difficult to measure. For countries with incomplete vital registry systems, the WHO has used demographic techniques to estimate deaths.

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

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

Definitions

• Prevalence of smoking is the percentage of men and women who smoke cigarettes. The age range varies, but in most countries is 18 and older or 15 and older. • Incidence of tuberculosis is the estimated number of new tuberculosis cases (pulmonary, smear positive, extrapulmonary). • Incidence of tuberculosis is the estimated number of new pulmonary, smear positive, and extrapulmonary tuberculosis cases. • Prevalence of diabetes refers to the percentage of people ages 20–79 who have type 1 or type 2 diabetes. • Mortality caused by road traffic injury refers to the number of deaths per 100,000 people caused by road traffic injury. • Prevalence of HIV is the percentage of people who are infected with HIV.

Data sources

Data on smoking are from the American Cancer Society's *Tobacco Atlas*, 2nd edition. Data on tuberculosis are from the WHO's *Global Tuberculosis Control Report 2006*. Data on diabetes are from the International Diabetes Federation's e-Atlas. Data on mortality caused by road traffic injury are from the WHO and the World Bank's *World Report on Road Traffic Injury Prevention* and the Organisation for Economic Co-operation and Development. Data on HIV are from UNAIDS and the WHO's *2004 Report on the Global AIDS Epidemic*.



	Life expectancy at birth					-		ortality te	Survival to age 65			
	yea 1990	ars 2004	per 1,000 1990	live births	per 1	1,000 2004	Male	,000 Female 1997–2004 ^a	per 1 Male 2002–04 ^a	.,000 Female 2002–04 ^a	% of Male 2003	cohort Female 2003
Afghanistan	45		168		260							
Albania	72	74	37	17	45	19	••		99	56	77	85
Algeria	67	71	54	35	69	40		••	138	121	74	79
Angola	40	41	154	154	260	260			512	462	34	39
Argentina	72	75	26	16	29	18			180	92	75	87
Armenia	68	71	52	29	60	32	5	3	209	95	71	84
Australia	77	80	8	5	10	6			89	50	85	92
Austria	76	79	8	5	10	5			120	59	83	92
Azerbaijan	71	72	84	75	105	90			230	107	59	72
Bangladesh	55	63	100	56	149	77	24	29	252	220	59	62
Belarus	71	68	13	9	17	11			366	131	55	81
Belgium	76	79	8	4	10	5			125	67	82	91
Benin	53	55	111	90	185	152	72	79	325	292	43	50
Bolivia	59	65	89	54	125	69	25	29	262	199	61	69
Bosnia and Herzegovina	72	74	18	13	22	15			159	82	75	86
Botswana	64	35	45	84	58	116		····	823	793	13	18
Brazil	66	71	50	32	60	34			268	139	62	79
Bulgaria	72	72	15	12	19	15	. <u>.</u>		216	91	69	84
Burkina Faso	48	48	113	97	210	192	110	113	427	400	28	32
Burundi	44	44	114	114	190	190	·		534	513	25	28
Cambodia	54	57	80	97	115	141	34	30	391	214	42	49
Cameroon	52	46	85 _	87	139	149	73	72	513	493	35	40
Canada	77	80	7	5	8	6			97	60	84	92
Central African Republic	48	39	102	115	168	193			658	649	24	29
Chad	46	44	117	117	203	200	106	99	500	471	39	44
Chile	74	78	17	8	21	8			136	68	79	89
China Hang China	69 77	71	38	26	49	31	·	••	145	91	73	79
Hong Kong, China	77	82						 1	83	36	85	92
Congo Dom Bon	68 46	73 44	30 129	18 129	36 205	21 205	4	3	191 497	108 471	71 32	84 36
Congo, Dem. Rep.	54	52	83	81	110	108			469	444	36	45
Congo, Rep. Costa Rica	77	79	16	11	110	13	••	••	121	68	82	90
Côte d'Ivoire	52	79 46	103	117	157	194	83	 58	475	457	31	34
Croatia	72	75	103	6	12	7		•	173	70	71	87
Cuba	75	73 77	11	6	13	7	••		132	86	81	88
Czech Republic	71	76	11	4	13	4		•	167	74	76	88
Denmark	75	77	8	4	9	<u>-</u>	••		121	74	80	88
Dominican Republic	66	68	50	27	65	32	9	9	280	151	63	76
Ecuador	69	75	43	23	57	26			188	109	70	81
Egypt, Arab Rep.	63	70	76	26	104	36	 15	16	181	113	70	76
El Salvador	66	71	47	24	60	28			227	142	69	81
Eritrea	48	54	88	52	147	82	55	50	482	405	37	43
Estonia	69	72	12	6	16	8			310	101	60	85
Ethiopia	45	42	131	110	204	166	83	86	453	420	26	31
Finland	75	79	6	3	7	4			133	61	80	91
France	77	80	7	4	9	5			137	61	83	92
Gabon	60	54	60	60	92	91	31	33	418	397	46	51
Gambia, The	50	56	103	89	154	122			335	290	41	47
Georgia	70	71	43	41	47	45			219	84	72	87
Germany	75	78	7	4	9	5			119	61	82	91
Ghana	56	57	75	68	122	112	44	52	351	334	48	52
Greece	77	79	10	4	11	5			115	51	83	91
Guatemala	62	68	60	33	82	45	15	18	304	175	59	72
Guinea	47	54	145	101	240	155	101	98	316	285	32	33
Guinea-Bissau	42	45	153	126	253	203			464	411	34	39
Haiti	49	52	102	74	150	117	52	54	477	460	38	48

	Life expectancy at birth		-		Under-five mortality rate		Child mortality rate		Adult mortality rate		Survival to age 65	
	ye: 1990	ars 2004	per 1,000 1990) live births 2004	per 1	,000 2004	per 1 Male	,000 Female 1997–2004 ^a	Male	.,000 Female 2002-04 ^a	% of Male 2003	cohort Female 2003
							1997-2004	1997-2004				
Honduras	65	68	44	31	59	41		••	259	214	59	73
Hungary	69	73	15	7	17	8			253	108	67	85
India Indonesia	59	63 67	80	62	123	85	25 13	37	241	161	62	65 72
	62 65	•	60	30	91	38		11	221	167	64	72 76
Iran, Islamic Rep.		71	54	32	72 50	38			166	114	72	
Iraq	62 75		40		50		••	••				
Ireland	75	78	8	5	9	6			100	59	80	89
Israel	76 77	79	10	5	12	6			91	49	84	90
Italy	77 71	80	8	4	9	5			96	49	82	91 87
Jamaica	71	71	17	17	20	20			241	194	81	
Japan	79	82	5	3	6	4			95	45	86	94
Jordan	68	72 65	33	23	40	27	5	5	175	134	75 48	81
Kazakhstan 	68	65	53	63	63	73	11	6	351	158	48	71
Kenya	58	48	64	79	97	120	42	39	522	587	28	32
Korea, Dem. Rep.	65	64	42	42	55	55			320	219	55	63
Korea, Rep.	71	77	8	5	9	6			152	59	73	87
Kuwait	75	77	14	10	16	12			91	60	82	88
Kyrgyz Republic	68	68	68	58	80	68	10	11	273	129	57	76
Lao PDR	50	55	120	65	163	83			330	280	45	51
Latvia	69	71	14	10	18	12			300	116	61	85
Lebanon	69	72	32	27	37	31			160	107	71	79
Lesotho	57	36	74	80	104	112			837	758	15	19
Liberia	43	42	157	157	235	235			528	477	33	37
Libya	68	74	35	18	41	20			146	100	73	83
Lithuania	71	72	10	8	13	8	••		303	106	67	87
Macedonia, FYR	72	74	33	13	38	14		<u></u>	145	84	75	85
Madagascar	51	56	103	76	168	123	45	45	335	286	49	55
Malawi	46	40	146	110	241	175	101	102	651	652	19	23
Malaysia	70	73	16	10	22	12			164	94	72	83
Mali	46	48	140	121	250	219	132	125	366	329	25	29
Mauritania	49	53	85	78	133	125	38	38	353	295	43	49
Mauritius	69	73	20	14	23	15			218	115	71	85
Mexico	71	75	37	23	46	28			164	91	75	86
Moldova	68	68	30	23	40	28		••	302	154	59	76
Mongolia	62	65	78	41	108	52	••		252	178	66	72
Morocco	64	70	69	38	89	43	9	11	170	117	68	76
Mozambique	43	42	158	104	235	152	61	64	591	558	25	30
Myanmar	56	61	91	76	130	106			305	208	47	58
Namibia	62	47	60	47	86	63	22	20	600	560	21	25
Nepal	55	62	100	59	145	76	28	40	261	237	58	57
Netherlands	77	79	7	5	9	6			94	66	84	90
New Zealand	75	79	8	5	11	7			99	65	83	90
Nicaragua	64	70	52	31	68	38	10	9	230	155	67	77
Niger	40	45	191	152	320	259	184	202	368	337	30	37
Nigeria	46	44	120	101	230	197	120	123	504	494	32	36
Norway	77	80	7	4	9	4			99	59	84	91
Oman	70	75	25	10	32	13			121	91	79	85
Pakistan	59	65	100	80	130	101			191	162	65	71
Panama	72	75	27	19	34	24			156	87	79	86
Papua New Guinea	52	56	74	68	101	93			406	367	49	53
Paraguay	68	71	33	21	41	24			165	111	70	80
Peru	66	70	60	24	80	29	19	17	193	127	69	79
Philippines	66	71	41	26	62	34	14	9	179	126	70	78
Poland	71	74	19	7	18	8	14		201	78	72	87
Portugal	74	77	11	4	14	5			130	60	78	89
Puerto Rico	75	77				•	••		198	73	77	91
uei to Rico	10	11							720	10	11	эт



	Life expectancy at birth				Under-five Child mo mortality rate rat			-	Adult mortality rate		Survival to age 65	
	ye: 1990	ars 2004	per 1,000 1990	live births	per:	1,000 2004	per 1 Male 1997–2004 ^a	.,000 Female 1997–2004 ^a	per 1 Male 2002-04 ^a	.,000 Female 2002-04 ª	% of Male 2003	cohort Female 2003
Romania	70	71	27	17	31	20			234	101	65	81
Russian Federation	69	65	23	17	29	21			450	166	49	77
Rwanda	31	44	103	118	173	203	105	97	522	462	23	25
Saudi Arabia	68	72	35	21	44	27			157	110	76	83
Senegal	53	56	90	78	148	137	76	74	319	271	38	47
Serbia and Montenegro	72	73	24	13	28	15			172	94	73	83
Sierra Leone	39	41	175	165	302	283			442	387	25	29
Singapore	74	79	7	3	8	3			90	53	83	90
Slovak Republic	71	74	12	6	14	9			209	79	70	86
Slovenia	73	77	8	4	10	4			151	66	77	89
Somalia	42	47	133	133	225	225			409	357	38	45
South Africa	62	45	45	54	60	67	18	13	615	542	26	33
Spain	77	80	8	3	9	5			117	49	83	93
Sri Lanka	71	74	26	12	32	14			139	82	77	85
Sudan	53	57	74	63	120	91			335	288	53	58
Swaziland	57	42	78	108	110	156			862	837	25	29
Sweden	78	80	6	3	7	4			82	52	86	92
Switzerland	77	81	7	5	9	5			87	47	85	93
Syrian Arab Republic	68	74	35	15	44	16			138	97	69	79
Tajikistan	63	64	92	75	119	93			223	149	62	75
Tanzania	53	46	102	78	161	126	61	58	517	516	27	30
Thailand	68	71	31	18	37	21			258	129	67	78
Togo	57	55	88	78	152	140	73	65	388	316	38	43
Trinidad and Tobago	71	70	28	18	33	20			268	175	74	82
Tunisia	70	73	41	21	52	25			141	82	76	83
Turkey	66	70	67	28	82	32	10	13	193	121	69	79
Turkmenistan	63	63	80	80	97	103	19	17	311	161	57	73
Uganda	46	49	93	80	160	138	78	70	527	528	25	28
Ukraine	70	68	19	14	26	18			421	161	57	81
United Arab Emirates	73	79	12	7	14	8			83	55	80	86
United Kingdom	76	79	8	5	10	6			101	63	82	90
United States	75	77	9	7	11	8			144	84	81	90
Uruguay	73	75	20	15	25	17			169	87	74	88
Uzbekistan	69	67	65	57	79	69			252	149	63	77
Venezuela, RB	71	74	24	16	27	19			192	98	75	86
Vietnam	65	70	38	17	53	23	10	7	182	130	68	78
West Bank and Gaza	69	73							146	109	74	84
Yemen, Rep.	55	61	98	82	142	111	33	36	282	237	50	53
Zambia	46	38	101	102	180	182	89	74	690	728	16	21
Zimbabwe	59	37	53	79	80	129	35	31	780	796	18	20
World	65 w	67 w	64 w	54 w	95 w	79 w			222 w	153 w	66 w	73 w
Low income	56	59	94	79	147	122			300	246	54	58
Middle income	68	70	43	30	57	37			202	121	68	78
Lower middle income	67	70	45	32	61	40			182	114	70	78
Upper middle income	69	69	34	23	42	28			289	152	63	78
Low & middle income	63	65	69	59	103	86			241	171	62	70
East Asia & Pacific	67	70	43	29	59	37			169	111	70	77
Europe & Central Asia	69	69	40	28	49	34			316	134	60	80
Latin America & Carib.	68	72	43	27	54	31		•	219	124	69	82
Middle East & N. Africa	64	69	60	44	81	55		-	179	128	69	75
South Asia	59	63	86	66	129	92		•	237	169	61	65
Sub-Saharan Africa	49	46	111	100	185	168		•	489	467	32	36
ligh income	76	79	9	6	11	7			122	65	82	91
Europe EMU	76	79	8	4	9	5		•	117	57	82	91

a. Data are for the most recent year available.

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

The main sources of mortality data are vital registration systems and direct or indirect estimates based on sample surveys or censuses. A "complete" vital registration system—one covering at least 90 percent of vital events in the population—is the best source of age-specific mortality data. But such systems are fairly uncommon in developing countries. Thus estimates must be obtained from sample surveys or derived by applying indirect estimation techniques to registration, census, or survey data. Survey data are subject to recall error, and surveys estimating infant deaths require large samples because households in which a birth or an infant death has occurred during a given year cannot ordinarily be 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 are generally estimates based on vital registration or the most recent census or survey available (see *Primary data documentation*). Extrapolations based on outdated surveys may not be reliable for monitoring changes in health status or for comparative analytical work.

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

Infant and child mortality rates are higher for boys than for girls in countries in which parental gender preferences are insignificant. Child mortality captures the effect of gender discrimination better than does infant mortality, as malnutrition and medical

interventions are more important in this age group. Where female child mortality is higher, as in some countries in South Asia, girls probably have unequal access to resources.

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

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

Definitions

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

Data sources

Data on infant and under-five mortality are the harmonized estimates of the World Health Organization, UNICEF, and the World Bank, based mainly on household surveys, censuses, and vital registration, supplemented by the World Bank's estimates based on household surveys and vital registration. Other estimates are compiled and produced by the World Bank's Human Development Network and Development Data Group in consultation with its operational staff and country offices. Important inputs to the World Bank's demographic work come from the United Nations Population Division's World Population Prospects: The 2004 Revision, census reports and other statistical publications from national statistical offices, and Demographic and Health Surveys by Macro International.



evelopment and economic growth have improved the quality of life for many people, but the gains have been uneven and economic growth has often had negative environmental consequences, with profound impact on poor people. Using the environment wisely is crucial for reducing poverty. Many poor people depend on the environment for their livelihoods. Because poor people control far fewer natural and produced resources, environmental degradation affects them disproportionately. The indicators in this section measure environmental resources and the goods and services produced from them—helping to establish the link between growth and environmental change and pointing the way toward sustainable development.

Environmental changes and their impact

Income derived from the environment is a major source of livelihood for many people, particularly for the rural population—a majority of the people who live on less than \$1 a day. Despite rapid urbanization in most regions, almost half the world's population still lives in rural areas. In South Asia more than 70 percent of people live in rural areas, and in Sub-Saharan Africa more than 60 percent do. An estimated 75 percent of poor people live in rural areas. The sustainability and proper management of natural resources are crucial for maintaining rural livelihoods and safety nets in difficult times. Without proper management of natural resources and environmentally sustainable development, it would be difficult to reverse environmental losses—one of the main Millennium Development Goals.

At the same time, the environment is a source of vulnerability. Increasing use of fossil energy—mainly by industrial economies—and the resulting climate change add to poor people's vulnerability. The adverse impact of environmental change will be most striking in developing countries—and particularly among the poor—because of their high dependence on natural resources, their limited capacity to adapt to a changing climate, and their limited resources to remedy the impact of such changes or to implement mitigating policies.

Low-income families and regions are more vulnerable not only to human-induced environmental hazards but also to natural disasters and environmental risks such as the impact of global climate changes. Water scarcity is already a major problem for the world's poor, and changes in rainfall and temperature associated with climate change will likely make this scarcity worse. Crop yields are expected to decline in most tropical and subtropical regions as rainfall and temperature patterns change with a changing climate (IPCC 2001b, p. 84). The Food and Agriculture Organization estimates that land suitable for rainfed agriculture may shrink by 11 percent in developing countries by 2080 due to climate change (FAO 2005, p. 2). There is also some evidence that disease vectors such as malaria-bearing mosquitoes will spread more widely (IPCC 2001a, p. 455). Global warming may bring an increase in severe weather events like cyclones and torrential rains. The inadequate construction and exposed locations of poor people's dwellings often make poor people the most likely victims of such disasters. Hence mitigating the consequences of environmental changes that affect their livelihoods must be an integral part of poverty reduction efforts.

The following discussion highlights selected issues related to the indicators in the tables in this section, issues with profound impact on the livelihoods of the populace, particularly poor people:

- Agriculture and land use.
- · Water quality and availability.
- Shrinking forests.
- Mix of energy use.

Natural resources—a major source of livelihoods

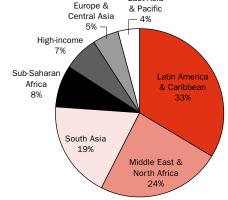
In many developing countries agriculture is still a major source of employment and income. While globally 44 percent of the active workforce is engaged in agriculture, the importance of this sector as a source of employment varies by region and income. About 60 percent of the active workforce is employed in agriculture, fisheries, and livestock in the Sub-Saharan Africa and Asia and Pacific regions, but only 19 percent in Latin America, where the urban population share is as high as in high-income Europe. In high-income countries only 7 percent of the workforce is engaged in these activities.

These variations are even more profound across countries: 2 percent in the United Kingdom and United States, 59 percent in India, 67 percent in China, and 93 percent in Nepal.

Population growth in developing countries will put further pressure on agriculture as rising demand for food requires more land and more forests to be turned to agricultural use. Greater numbers of poor people will be forced to live and work on marginal and fragile lands. In 2002 almost 1.4 billion people were living on fragile lands—more than three-fourths in Africa and Asia (figure 3a). This has an important impact on food production and food security in these regions—particularly in Sub-Saharan Africa, where food production barely keeps up with population growth.







Source: World Bank 2003.

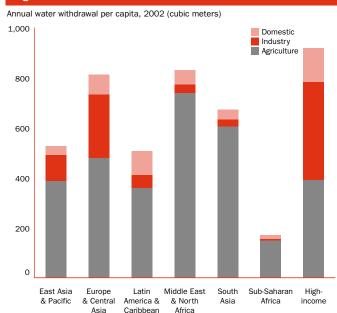
Climate change makes the situation even worse, and the region appears to be the most vulnerable to the consequences of global warming. In the past 30 years Africa has experienced at least one major drought each decade. Changes in rainfall—there are already indications of significant changes in the last decades—could also have serious consequences for parts of Africa that depend on hydroelectricity.

Climate variability and associated floods and droughts increase the risk of crop failure, reducing food security and increasing the incidence of malnutrition and disease. In Ethiopia, for example, the 1984 drought affected 8.7 million people: 1 million people died and millions more suffered from malnutrition and famine (UNEP 2002, p. 218). Nearly 1.5 million livestock also died (FAO 2000). The 1991–92 drought in southern Africa reduced the cereal harvest by more than half and exposed more than 17 million people to the risk of starvation. More than 100,000 people died in the Sahelian drought of the 1970s and 1980s (UNEP 2002, p. 219). Crop failure and livestock losses increase the dependence on imports and foreign aid, reducing economic performance and the ability to cope with future environmental disasters.

Water is life, but water is getting dirtier and scarcer

Water scarcity is a major reason for the low levels of food production in most parts of Africa. Average per capita renewable water resources in Africa are below the world average, and the distribution of surface water and ground water is uneven (figure 3b). By 2020 an estimated two-thirds of the world's

Water withdrawal is skewed toward agriculture in every developing region



Source: Tables 2.1 and 3.5.

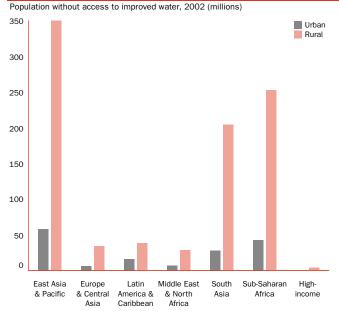
3h

people will be living in water-stressed countries (CSD 1997 as cited in UNEP 2002, p. 150). By then, water use is expected to have increased 40 percent, and 17 percent more water will be required for food production to meet the needs of growing populations (World Water Council 2000; UNEP 2002, p. 151).

Population growth, expansion of irrigated agriculture, and industrial development are all behind the growing demand for water. Globally, agriculture accounts for 70 percent of freshwater withdrawal. Most is used for irrigation, which provides about 40 percent of world food production (CSD 1997 as cited in UNEP 2002). In Africa agriculture uses more than 85 percent of total water withdrawal, and population growth and demand for food are continuing to put more pressure on water availability. Without efficient and comprehensive water resources management that considers all aspects of water use, the projected water scarcity will have an even more profound impact.

Water quality can often be as severe a problem as water availability, but it receives less attention, particularly in developing regions. For many of the world's poorest populations, one of the greatest environmental threats to health remains the use of untreated water. While the share of people with access to an improved water source increased from 75 percent in 1990 to 82 percent in 2002, 1.1 billion people still lack access to safe drinking water (figure 3c) and 2.8 billion lack access to improved sanitation (table 3.10). Most of them are in Africa and Asia. Lack of access to safe water and sanitation results in hundreds of millions of cases of water-related diseases and more than 5 million deaths every year (UNEP 2002, p. 153).





Source: WHO and World Bank database.

Forests are still shrinking—but the rate of net loss is slowing

In developing regions population growth, increasing demand for food, particularly meat and dairy products, and declining growth in agricultural productivity are maintaining the pressure for deforestation. Total forest area in 2005 was just under 4 billion hectares, covering 30 percent of total land area, for an average of 0.62 hectare per capita. But forest area is unevenly distributed. For example, 64 countries with a combined population of 2 billion have less than 0.1 hectare of forest per capita. The 10 most forestrich countries account for two-thirds of total forest area, while 7 countries or territories have no forest at all, and an additional 57 have forest on less than 10 percent of their land area.

Deforestation, mainly for conversion to agricultural land, continues—about 13 million hectares a year. At the same time, forest planting, landscape restoration, and natural expansion of forests have reduced the net loss of forest area. The net change in forest area during 2000–05 is estimated at a loss of 7.3 million hectares a year (an area about the size of Panama or Sierra Leone), an improvement from 8.9 million hectares a year during 1990–2000. Africa and Latin America continued to have the largest net loss of forests, while forest area in Europe continued to expand, although at a slower rate. Asia, which had a net loss in the 1990s, reported a net gain of forests in 2000–05, due primarily to large-scale reforestation reported by China.

Forests contribute directly and indirectly to the livelihoods of many people. Recognizing that, countries in most regions understand the need for more efficient forest management (box 3d). This effort has been very slow in developing regions, however, particularly in Asia and Sub-Saharan Africa.

Energy—the mix affects the impact

Economic growth and energy use move together. Energy, especially electricity, is important in raising people's standard of living. High-income countries use more than five times as much energy per capita as developing countries do, and with only 15 percent of the world's population they use more than half of its energy. Despite high and increasing energy costs, and the Kyoto Protocol, which calls for reduction in carbon dioxide emissions, fossil fuels are still the main source of energy—and their use has been rising faster than that of any other source of energy (figure 3e).

How energy is generated largely determines the resulting environmental damages. Generating energy from fossil fuels produces emissions of carbon dioxide, the main greenhouse gas contributing to global warming and climate change. Human-induced carbon dioxide emissions result primarily from fossil fuel combustion and cement manufacturing, with high-income countries contributing half

(figure 3f). Burning coal releases twice as much carbon dioxide as burning an equivalent amount of natural gas. Sub-Saharan Africa uses coal as its main source of electricity generation (more than two-thirds). So do East Asia and the Pacific and South Asia. Even though the low-income countries contribute less than 8 percent of global carbon dioxide emissions, they are affected by the consequences of climate change. Furthermore, there are local impacts from the type of energy use as well.

Most low-income countries depend on biomass energy for cooking and heating, a health hazard to billions of people. More than 3 million deaths a year are caused by air pollution, mostly due to particulate pollution. Many of these deaths are among children in developing countries, who die of acute respiratory infections due to indoor air pollution resulting from burning fuelwood, crop residues, or animal dung for cooking and heating. Sub-Saharan Africa has the highest

3d

Sustainable management of forests is spreading

Regulatory pressure, social activism, and consumer preferences have encouraged producers and marketers to provide a range of sustainably produced forest products, including timber, coffee, and fruit. Some products are certified as having been produced in an environmentally and socially responsible manner. About 2 percent of forests worldwide are now certified as managed for sustainable yield and for providing wildlife habitat, watershed protection, biodiversity, and other ecological services. While the market share for certified products is small, it is growing rapidly, although developed country regions are far ahead of developing regions in product certification (see figure).

Developing regions lag far behind developed regions in certifying forest area

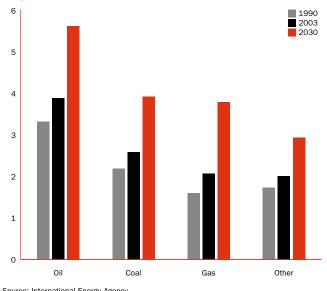
Certified forest area, 2000 (millions of hectares) 50 40 20 10 0 Sub-Saharan Latin America Asia Oceania North Europe & Caribbean Source: FAO 2001

death rate from respiratory disease followed by North Africa and Asia (figure 3g).

In South Africa children living in homes with wood stoves are almost five times more likely than others to develop respiratory infections severe enough to require hospitalization. In

Use of fossil fuels continues to rise faster than that of other source: of energy

Energy use, 1990, 2003, and 2030 (billions of metric tons of oil equivalent)

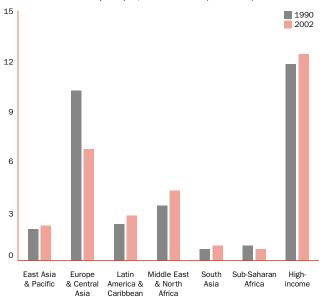


Source: International Energy Agency.

3f

High-income countries are the leading source of carbon dioxide emissions

Carbon dioxide emissions per capita, 1990 and 2002 (metric tons)



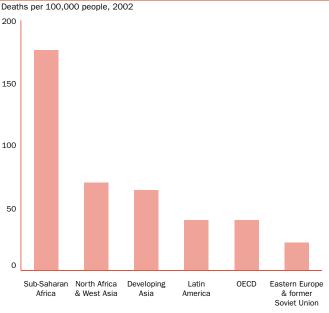
Source: Table 3.8.

Tanzania children under age 5 who die of acute respiratory infection are three times more likely to have been sleeping in a room with an open cookstove than are healthy children. In The Gambia children carried on their mothers' backs as they cook over smoky stoves contract pneumonia at a rate 2.5 times higher than unexposed children (WRI 2005). Efforts to reduce indoor air pollution focus on improved cookstoves (box 3h).

The use of cleaner energy sources is another path toward sustainable energy use. Use of renewable energy is growing, but it is still a very small share of the total (figure 3i). About 4.5 percent of global energy production comes from

modern renewable energy sources, up from 3.2 percent in 1971. Hydropower is the largest renewable energy source, but large-scale hydropower can have major adverse environmental and social impacts. Modern biomass and geothermal energy are the other major renewable sources and have substantial growth potential. Wind and solar energy, while growing rapidly, provide only about 0.02 percent each of the global energy supply.





Source: World Health Organization.

3h

More efficient use of traditional biomass is improving the lives of women

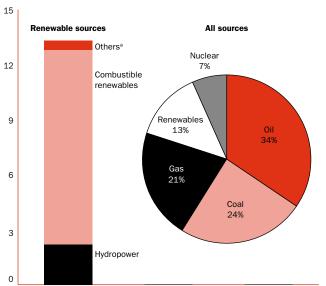
For most poor households in rural Africa and Asia improved biomass cookstoves are the most feasible option for reducing death and disease from traditional biomass cooking. They also conserve biomass resources and reduce the time and energy needed for collecting fuel and cooking, thus freeing women's time for other productive activities. The Upesi stove developed in Kenya, for example, with a clay liner in a mud and stone hearth, uses 40 percent less fuel than the traditional three-stone stove and emits 60 percent less smoke. For higher income rural households, expanding the distribution networks for canisters of liquefied petroleum gas can improve the welfare of women and children.

Source: United Nations 2002.

3i

Use of renewable sources of energy is growing, but is still small

Sources of energy, 2003 (%)



a. Includes wind, solar, and geothermal sources.

Source: International Energy Agency.





Rural population and land use

	Rui	Rural population L						Land	l use			
			average annual	thousand			% of lar	nd area				e land tares
	% of t	total 2004	% growth 1990–2004	sq. km 2004	Fores 1990	st area 2005	Permanen 1990	t cropland 2003	Arable 1990	e land 2003	per 0 1989-91	apita 2001-03
Afghanistan	82			652	2.0	1.3	0.2	0.2	12.1	12.1	0.54	0.31
Albania	64	 56	-1.4	27	28.8	29.0	4.6	4.4	21.1	21.1	0.18	0.19
Algeria	49	41	0.5	2,382	0.8	1.0	0.2	0.3	3.0	3.2	0.28	0.24
Angola	74	64	1.7	1,247	48.9	47.4	0.4	0.2	2.3	2.7	0.28	0.21
Argentina	13	10	-1.0	2,737	12.9	12.1	0.4	0.4	9.7	10.2	0.81	0.74
Armenia	33	36	-0.6	28	12.3	10.0	2.7	2.1	17.7	17.7		0.16
Australia	15	8	-3.5	7,682	21.9	21.3	0.0	0.0	6.2	6.2	2.76	2.49
Austria	34	34	0.4	82	45.8	46.8	1.0	0.9	17.3	16.9	0.19	0.17
Azerbaijan Bangladesh	46 80	50 75	1.6 1.6	83 130	11.3 6.8	11.3 6.7	3.5 2.3	2.7 3.4	18.1 70.2	21.6 61.3	0.09	0.22 0.06
Belarus	34	75 29	-1.5	207	35.6	38.1	0.9	0.6	29.3	26.8	0.09	0.57
Belgium	4	3	-1.6	33	20.6	20.3	0.5 ^a	0.6	23.3 ^a	26.6		
Benin	66	55	2.0	111	30.0	21.3	1.0	2.4	14.6	24.0	0.31	0.33
Bolivia	44	36	0.7	1,084	57.9	54.2	0.1	0.2	1.9	2.8	0.31	0.35
Bosnia and Herzegovina	61	55	-1.4	51		42.7	2.9	1.9	16.6	19.6		0.26
Botswana	58	48	0.2	567	24.2	21.1	0.0	0.0	0.7	0.7	0.29	0.21
Brazil	25	16	-1.6	8,459	61.5	56.5	0.8	0.9	6.0	7.0	0.34	0.33
Bulgaria	34	30	-1.7	111	30.1	32.8	2.7	1.9	34.9	30.0	0.44	0.43
Burkina Faso	86	82	2.5	274	26.2	24.8	0.2	0.2	12.9	17.7	0.41	0.39
Burundi Cambodia	94 87	90 81	1.5 1.9	26 177	11.3 73.3	5.9 59.2	14.0 0.6	14.2 0.6	36.2 20.9	38.6 21.0	0.16 0.38	0.14 0.28
Cameroon	60	48	0.7	465	52.7	45.7	2.6	2.6	12.8	12.8	0.51	0.39
Canada	23	19	-0.4	9,094	34.1	34.1	0.7	0.7	5.0	5.0	1.64	1.46
Central African Republic	63	57	1.3	623	37.3	36.5	0.1	0.2	3.1	3.1	0.64	0.50
Chad	79	75	2.8	1,259	10.4	9.5	0.0	0.0	2.6	2.9	0.54	0.41
Chile	17	13	-0.5	749	20.4	21.5	0.3	0.4	3.7	2.7	0.22	0.13
China ^b	73	60	-0.4	9,327	16.9	21.2	0.8	1.3	13.3	15.3	0.11	0.11
Hong Kong, China	0	0										
Colombia	31	23	-0.4	1,039	59.2	58.5	1.6	1.5	3.2	2.2	0.09	0.05
Congo, Dem. Rep.	72	68	2.4	2,267	62.0	58.9	0.5	0.5	2.9	3.0	0.18	0.13
Congo, Rep.	52 46	46 39	2.4 1.1	342 51	66.6 50.2	65.8 46.8	0.1 4.9	0.2 5.9	1.4 5.1	1.5 4.4	0.20	0.13 0.05
Costa Rica Côte d'Ivoire	60	39 55	1.1	318	32.1	32.7	4.9 11.0	11.3	7.6	10.4	0.08 0.19	0.05
Croatia	46	41	-1.4	56	52.1	38.2	2.0	2.2	21.7	26.1	0.13	0.33
Cuba	26	24	-0.2	110	18.7	24.7	7.4	6.6	27.6	27.9	0.29	0.28
Czech Republic	25	26	0.1	77		34.3		3.1		39.6		0.30
Denmark	15	15	0.1	42	10.5	11.8	0.2	0.2	60.4	53.4	0.50	0.42
Dominican Republic	45	40	0.8	48	28.4	28.4	9.3	10.3	21.7	22.7	0.15	0.13
Ecuador	45	38	0.5	277	49.9	39.2	4.8	4.9	5.8	5.9	0.16	0.13
Egypt, Arab Rep.	57	58	2.1	995	0.0	0.1	0.4	0.5	2.3	2.9	0.04	0.04
El Salvador	51	40	0.3	21	18.1	14.4	12.6	12.1	26.5	31.9	0.11	0.10
Eritrea	84 29	80 30	2.0	101 42	 51.0	15.4 53.9		0.0	26.3	5.6 12.9	••	0.15 0.45
Estonia Ethiopia	29 87	84	-0.7 2.0	1,000		13.0	0.3	0.4 0.7	20.3	11.1		0.45
Finland	39	39	0.4	305	72.9	73.9	0.0	0.0	7.5	7.3	0.46	0.42
France	26	24	-0.3	550	26.4	28.3	2.2	2.0	32.7	33.5	0.32	0.31
Gabon	32	16	-2.6	258	85.1	84.5	0.6	0.7	1.1	1.3	0.31	0.25
Gambia, The	75	74	3.1	10	44.2	47.1	0.5	0.5	18.2	31.5	0.20	0.23
Georgia	45	48	-0.8	69	39.7	39.7	4.8	3.8	11.4	11.5		0.17
Germany	15	12	-1.4	349	30.8	31.7	1.3	0.6	34.3	33.9	0.15	0.14
Ghana	64	54	1.3	228	32.7	24.3	6.6	9.7	11.9	18.4	0.17	0.20
Greece	41	39	0.2	129	25.6	29.1	8.3	8.8	22.5	20.9	0.28	0.25
Guatemala	59 75	53	1.6	108	43.8	36.3	4.5	5.6	12.0	13.3	0.15	0.12
Guinea Rissau	75 76	64 65	1.7	246	30.2	27.4 73.7	2.0	2.7 8.9	3.0	4.5	0.12 0.30	0.12 0.21
Guinea-Bissau Haiti	76 71	62	1.9 0.5	28 28	78.8 4.2	3.8	4.2 11.6	8.9 11.6	10.7 28.3	10.7 28.3	0.30	0.21
ratu	1.7	02	0.5	20	4.2	ა.ი	11.0	71.0	20.3	20.3	0.11	0.10

Rural population and land use 3.1



	Ru	Rural population						Land	d use			
	% of		average annual % growth	thousand sq. km		st area	% of lar Permanen	t cropland	Arable		hec per o	le land tares capita
	1990	2004	1990-2004	2004	1990	2005	1990	2003	1990	2003	1989-91	2001-03
Honduras	60	54	1.9	112	66.0	41.5	3.2	3.2	13.1	9.6	0.30	0.16
Hungary	38	34	-0.9	92	19.5	21.5	2.5	2.1	54.7	50.1	0.49	0.45
India	74	71	1.4	2,973	21.5	22.8	2.2	3.1	54.8	54.0	0.19	0.15
Indonesia	69	53	-0.5	1,812	64.4	48.9	6.5	7.4	11.2	11.6	0.11	0.10
Iran, Islamic Rep. Iraq	44 30	33	-0.6	1,636 437	6.8 1.8	6.8 1.9	0.8 0.7	1.3 0.6	9.3 12.1	9.9 13.2	0.29 0.29	0.23 0.22
Ireland	43	40	0.5	69	6.4	9.7	0.0	0.0	15.1	17.2	0.30	0.22
Israel	10	8	1.6	22	7.1	7.9	4.1	4.0	15.8	15.8	0.07	0.05
Italy	33	33	-0.1	294	28.5	33.9	10.1	9.3	30.6	27.1	0.16	0.14
Jamaica	49	48	0.6	11	31.9	31.3	9.2	10.2	11.0	16.1	0.05	0.07
Japan	37	34	-0.3	365	68.4	68.2	1.3	0.9	13.1	12.1	0.04	0.03
Jordan	28	21	1.8	88	0.9	0.9	1.0	1.2	3.3	3.3	0.09	0.05
Kazakhstan	43	44	-0.4	2,700	1.3	1.2	0.1	0.1	13.0	8.4		1.51
Kenya	75	60	0.9	569	6.5	6.2	0.9	1.0	7.4	8.2	0.18	0.14
Korea, Dem. Rep.	42	39	0.4	120 99	68.1	51.4	1.5	1.7 2.0	19.0	22.4	0.12	0.12
Korea, Rep. Kuwait	26 5	19 4	-1.3 -1.3	18	64.5 0.2	63.5 0.3	1.6 0.1	0.2	19.8 0.2	16.7 0.8	0.05 0.00	0.03
Kyrgyz Republic	62	66	-1.3 1.4	192	4.4	4.5	0.1	0.2	7.0	6.8	0.00	0.01
Lao PDR	85	79	1.9	231	75.0	69.9	0.3	0.4	3.5	4.1	0.19	0.17
Latvia	30	34	-0.1	62	44.7	47.4	0.4	0.5	27.2	29.4		0.78
Lebanon	17	12	-0.4	10	11.8	13.3	11.9	14.0	17.9	16.6	0.07	0.05
Lesotho	83	82	0.8	30	0.2	0.3	0.1	0.1	10.4	10.9	0.20	0.18
Liberia	58	53	2.3	96	42.1	32.8	2.2	2.3	4.2	4.0	0.19	0.12
Libya	20	13	-0.8	1,760	0.1	0.1	0.2	0.2	1.0	1.0	0.42	0.33
Lithuania	32	33	-0.3	63	31.0	33.5	0.9	0.9	47.8	46.7		0.84
Macedonia, FYR	42	40	0.1	25		35.6	2.2	1.8	23.8	22.3		0.28
Madagascar	76	73	2.6	582	23.5	22.1	1.0	1.0	4.7	5.1	0.23	0.17
Malawi	88 50	83	1.6	94	41.4	36.2	1.2	1.5	19.3	26.0	0.19	0.19
Malaysia Mali	76	36 67	-0.1 1.9	329 1,220	68.1 11.5	63.6 10.3	16.0 0.0	17.6 0.0	5.2 1.7	5.5 3.8	0.10 0.23	0.08 0.38
Mauritania	56	37	-0.2	1,025	0.4	0.3	0.0	0.0	0.4	0.5	0.20	0.17
Mauritius	60	56	0.7	2	19.2	18.2	3.0	3.0	49.3	49.3	0.09	0.08
Mexico	28	24	0.7	1,909	36.2	33.7	1.0	1.3	12.6	13.0	0.29	0.25
Moldova	53	54	-0.2	33	9.7	10.0	14.2	9.1	52.8	56.1		0.43
Mongolia	43	43	1.3	1,567	7.3	6.5	0.0	0.0	0.9	0.8	0.65	0.49
Morocco	52	42	0.1	446	9.6	9.8	1.7	2.0	19.5	19.0	0.36	0.30
Mozambique	79	63	1.1	784	25.5	24.6	0.3	0.3	4.4	5.6	0.26	0.22
Myanmar	75	70	1.0	658	59.6	49.0	0.8	1.4	14.6	15.4	0.23	0.20
Namibia	73	67 85	1.9	823	10.6	9.3	0.0	0.0	0.8	1.0	0.47	0.42
Nepal Netherlands	91 40	85 34	1.8 -0.6	143 34	33.7 10.2	25.4 10.8	0.5 0.9	0.9 0.9	16.0 25.9	16.5 26.9	0.12 0.06	0.09 0.06
New Zealand	15	34 14	-0.6 0.6	268	28.8	31.0	5.1	7.0	9.4	26.9 5.6	0.08	0.08
Nicaragua	47	42	1.4	121	53.9	42.7	1.6	1.9	10.7	15.9	0.73	0.37
Niger	84	77	2.7	1,267	1.5	1.0	0.0	0.0	8.7	11.4	1.28	1.15
Nigeria	65	53	1.0	911	18.9	12.2	2.8	3.2	32.4	33.5	0.33	0.24
Norway	28	20	-1.7	306	29.8	30.7			2.8	2.9	0.21	0.19
Oman	38	22	-1.6	310	0.0	0.0	0.2	0.1	0.1	0.1	0.02	0.02
Pakistan	69	66	2.0	771	3.3	2.5	0.6	0.9	26.6	25.2	0.19	0.14
Panama	46	43	1.4	74	58.8	57.7	2.1	2.0	6.7	7.4	0.21	0.18
Papua New Guinea	87	87	2.4	453	69.6	65.0	1.3	1.4	0.4	0.5	0.05	0.04
Paraguay	51	42	1.1	397	53.3	46.5	0.2	0.2	5.3	7.7	0.50	0.53
Peru	31	26	0.4	1,280	54.8	53.7	0.3	0.5	2.7	2.9	0.16	0.14
Philippines	51	38	0.0	298	35.5	24.0	14.8	16.8	18.4	19.1	0.09	0.07
Poland Portugal	39 53	38 45	-0.2 -0.8	306 92	29.2 33.9	30.0 41.3	1.1 8.5	1.0 7.9	47.3 25.6	41.1 17.4	0.38 0.24	0.35 0.16
Puerto Rico	28	45 3	-0.8 -15.0	92	45.6	46.0	5.6	7.9 5.6	25.6 7.3	3.7	0.24	0.16
I GOLLO INICO	20	J	-10.0		40.0	+0.0	٥.٥	5.0	1.3	3.1	0.02	0.01



Rural population and land use

	Ru	Rural population L						Land	d use			
			average annual	thousand	_		% of lar				hec	e land tares
	% of 1990	total 2004	% growth 1990–2004	sq. km 2004	Fores 1990	t area 2005	Permanen 1990	t cropland 2003	Arable 1990	e land 2003	per o 1989–91	2001-03
Romania	47	45	-0.7	230	27.8	27.7	2.6	2.0	41.2	40.9	0.41	0.43
Russian Federation	27	27	-0.7	16,381	49.4	49.4	0.1	0.1	8.1	7.5	0.41	0.43
Rwanda	95	80	0.4	25	12.9	19.5	12.4	10.9	35.7	48.6	0.12	0.03
Saudi Arabia	22	12	-1.6	2,150	1.3	1.3	0.0	0.1	1.6	1.7	0.12	0.16
Senegal	60	50	1.2	193	48.6	45.1	0.1	0.2	12.1	12.8	0.29	0.23
Serbia and Montenegro	49	48	-2.0	102		26.4	3.5	3.2	36.5	33.2		0.42
Sierra Leone	70	60	0.9	72	42.5	38.5	0.8	1.1	6.8	8.0	0.12	0.11
Singapore	0	0		1	3.0	3.0	1.5	1.5	1.5	1.5	0.00	0.00
Slovak Republic	44	42	-0.1	48								
Slovenia	49	49	0.0	20		62.8	1.8	1.4	9.9	8.6		0.09
Somalia	71	65	0.6	627	13.2	11.4	0.0	0.0	1.6	1.7	0.15	0.14
South Africa	51	43	0.5	1,214	7.6	7.6	0.7	0.8	11.1	12.2	0.38	0.33
Spain	25	23	0.3	499	27.0	35.9	9.7	10.0	30.7	27.5	0.40	0.33
Sri Lanka	79	79	1.0	65	36.4	29.9	15.9	15.5	13.5	14.2	0.05	0.05
Sudan	73	60	0.8	2,376	32.2	28.4	0.1	0.2	5.5	7.2	0.50	0.48
Swaziland	77	76	2.6	17	27.4	31.5	0.7	0.8	10.5	10.4	0.24	0.16
Sweden	17	17	0.2	410	66.7	67.1	0.0	0.0	6.9	6.5	0.33	0.30
Switzerland	32	32	0.9	40	28.9	30.5	0.5	0.6	9.8	10.2	0.06	0.06
Syrian Arab Republic	51	50	2.5	184	2.0	2.5	4.0	4.5	26.6	25.0	0.38	0.26
Tajikistan	68	75	2.1	140	2.9	2.9	0.9	0.9	6.1	6.6		0.15
Tanzania	78	64	1.1	884	46.9	39.9	1.0	1.2	4.0	4.5	0.13	0.11
Thailand	71	68	0.8	511	31.3	28.4	6.1	7.0	34.2	27.7	0.32	0.24
Togo	72	64	2.2	54	12.6	7.1	1.7	2.2	38.6	46.2	0.53	0.44
Trinidad and Tobago	31	24	-1.3	5	45.8	44.1	9.0	9.2	14.4	14.6	0.06	0.06
Tunisia	42	36	0.3	155	4.1	6.8	12.5	13.8	18.7	18.0	0.36	0.28
Turkey	41	33	0.3	770	12.6	13.2	3.9	3.5	32.0	30.4	0.44	0.34
Turkmenistan	55	54	1.8	470	8.8	8.8	0.1	0.1	2.9	4.7		0.42
Uganda	89	88	3.1	197	25.0	18.4	9.4	10.9	25.4	26.4	0.28	0.20
Ukraine	33	33	-0.8	579	16.0	16.5	1.9	1.6	57.6	56.1		0.67
United Arab Emirates	17	15	5.2	84	2.9	3.7	0.2	2.3	0.4	0.8	0.02	0.02
United Kingdom	11	11	0.0	242	10.8	11.8	0.3	0.2	27.4	23.4	0.12	0.10
United States	25	20	-0.5	9,159	32.6	33.1	0.2	0.2	20.3	18.9	0.74	0.60
Uruguay	11	7	-2.3	175	5.2	8.6	0.3	0.2	7.2	7.8	0.41	0.40
Uzbekistan	60	63	2.2	425	7.2	7.8	0.9	0.8	10.5	11.1		0.18
Venezuela, RB	16	12	0.0	882	59.0	54.1	0.9	0.9	3.2	3.0	0.14	0.10
Vietnam	80	74	1.0	325	28.8	39.7	3.2	7.1	16.4	20.5	0.08	0.08
West Bank and Gaza												
Yemen, Rep.	79	74	3.3	528	1.0	1.0	0.2	0.3	2.9	2.9	0.12	0.08
Zambia	61	64	2.6	743	66.1	57.1	0.0	0.0	7.1	7.1	0.63	0.47
Zimbabwe	71	65	0.8	387	57.5	45.3	0.3	0.3	7.5	8.3	0.27	0.25
World	57 w	51 w	0.6 w	129,663 s	31.6 w	30.5 w	0.9 w	1.1 w	10.8 w	10.8 w	0.24 w	0.23 w
Low income	74	69	1.6	29,192	27.8	24.8	1.0	1.2	12.9	13.5	0.21	0.17
Middle income	56	47	-0.2	67,543	34.5	33.6	1.0	1.2	9.6	9.7	0.18	0.22
Lower middle income	62	51	-0.2	38,470	32.1	30.7	1.3	1.6	10.0	10.5	0.15	0.17
Upper middle income	31	28	0.1	28,983	37.7	37.3	0.6	0.6	9.0	8.7	0.37	0.45
Low & middle income	63	57	0.7	96,645	32.5	30.9	1.0	1.2	10.5	10.8	0.20	0.20
East Asia & Pacific	71	59	-0.2	15,885	28.8	28.4	2.2	2.8	12.1	13.3	0.12	0.12
Europe & Central Asia	37	36	0.0	23,371	38.2	38.3	0.4	0.4	12.3	11.4		0.57
Latin America & Carib.	29	23	-0.1	20,057	49.0	45.6	0.9	1.0	6.6	7.1	0.30	0.27
Middle East & N. Africa	48	44	1.3	8,955	2.2	2.4	0.7	0.9	5.6	5.8	0.23	0.18
South Asia	75	72	1.6	4,781	16.5	16.8	1.8	2.4	42.6	41.7	0.18	0.14
Sub-Saharan Africa	72	64	1.6	23,596	30.0	26.5	0.8	0.9	6.3	7.5	0.31	0.25
High income	25	22	-0.4	33,018	28.9	29.3	0.7	0.7	11.4	10.8	0.43	0.37
Europe EMU	26	24	-0.3	2,435	33.2	37.0	4.7	4.5	27.1	25.8	0.23	0.21

a. Includes Luxembourg. b. Includes Taiwan, China.

Indicators of rural development are sparse, as few indicators are disaggregated between rural and urban areas (for some that are, see tables 2.7 and 3.10). This table shows indicators of rural population and land use. Rural population is approximated as the midvear nonurban population.

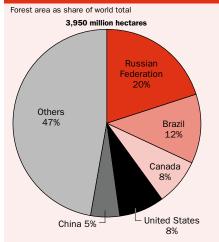
The data in the table show that land use patterns are changing. They also indicate major differences in resource endowments and uses among countries.

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. Because the data reflect changes in 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. Moreover, land use data in countries such as India are based on reporting systems that were designed for 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 may be particularly unreliable because of differences in definitions and irregular surveys (see *About the data* for table 3.4).

3.1b

Five countries had more than half the world's forest in 2005



Source: Food and Agricultural Organization's Global Forest Resources Assessment.

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). • Land area is a country's total area, excluding area under inland water bodies, national claims to the 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. • Forest area is land under natural or planted stands of trees, whether productive or not.

 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.

• 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.

Data sources

Data on urban population shares used to estimate rural population come from the United Nations Population Division's World Urbanization Prospects: The 2005 Revision. The total population figures are World Bank estimates. Data on land area and land use are from the FAO's electronic files. The FAO gathers these data from national agencies through annual questionnaires and by analyzing the results of national agricultural censuses. Data on forest area are from the FAO's Global Forest Resources Assessment.

3.1a

Ten countries with the largest forest area, 2005

Country	Million hectares
Russian Federation	809
Brazil	478
Canada	310
United States	303
China	197
Australia	164
Congo, Dem. Rep.	134
Indonesia	88
Peru	69
India	68

Source: Food and Agricultural Organization's Global Forest Resources Assessment.





3.2 Agricultural inputs

	Agricı laı		_	ated nd	Land (cereal pro		Ferti consui	ilizer mption		ultural oyment	_	ultural ninery
	% land 1989-91			of bland 2001–03	thous hecta 1989–91		per he	d grams ectare le land 2000–02		total oyment 2001–03	per 100	otors O sq. km Die land 2001–03
Afghanistan	58.3	58.3	33.8	33.8			63	19			1	1
Albania	40.9	41.4	58.9	49.6	295	144	1,378	420			195	141
Algeria	16.2	16.8	5.8	6.9	2,807	2,784	157	130		21.1	125	129
Angola	46.1	46.1	2.3	2.3	883	1,372	46	2			35	33
Argentina	46.6	47.0	5.7	5.4	8,557	9,633	61	295	0.3	1.0	103	108
Armenia	••	49.5		51.1	168	194		157	20.5			288
Australia	60.5	58.2	4.0	5.1	12,823	18,360	272	465	5.4	4.4	67	64
Austria	42.7	41.2	0.3	0.3	940	783	2,001	1,533	7.7	5.7	2,378	2,368
Azerbaijan		56.8		72.5	627	794		63	31.4	40.1		169
Bangladesh	76.5	69.5	30.5	54.3	11,083	11,624	1,049	1,738	65.7		6	7
Belarus		43.1		2.3	2,578	2,066		1,325	21.6			111
Belgium	44.0 ^a	46.3	2.3 ^a	4.5	367 ^a	314	4,969 ^a	3,322 ^a	2.7	1.7	1,530 ^a	1,202 ^a
Benin	20.4	30.4	0.6	0.4	658	948	54	154			1	1
Bolivia Bosnia and Herzegovina	32.8	34.2 41.7	5.4	4.1 0.3	620	748 340	37	37 356	1.7		25	20
Botswana	45.9	41.7 45.8	0.3	0.3	203	340 137	22	356 122		12.3	135	289 159
Brazil	28.6	31.2	4.6	4.4	20,101	19,772	653	1,201	23.0	20.2	142	137
Bulgaria	55.7	48.7	30.1	16.5	2,152	1,760	1,698	500	18.9	18.0	135	95
Burkina Faso	35.0	39.2	0.5	0.5	2,743	3,249	59	300	10.5		2	4
Burundi	82.8	90.8	1.2	1.6	218	211	32	33			2	2
Cambodia	30.1	30.1	6.3	7.1	1,860	2,247	9	0		70.2	3	7
Cameroon	19.7	19.7	0.3	0.4	755	863	38	75	60.6		1	1
Canada	7.5	7.4	1.4	1.5	21,446	17,276	470	549	4.3	2.8	165	160
Central African Republic	8.0	8.3	0.0	0.1	110	187	5	3			0	0
Chad	38.4	38.6	0.5	0.8	1,170	1,887	20	49			1	0
Chile	21.3	20.4	51.8	82.4	778	687	1,082	2,386	19.3	13.6	129	272
China	57.0	59.5	36.0	35.4	93,047	79,896	2,222	2,578	55.8	44.7	67	65
Hong Kong, China									0.9	0.2		
Colombia	43.4	44.2	13.1	22.6	1,655	1,195	1,770	2,605	1.3	21.6	98	89
Congo, Dem. Rep.	10.1	10.1	0.1	0.1	1,840	2,049	11	7			4	4
Congo, Rep.	30.8	30.9	0.2	0.4	15	11	24	67			14	14
Costa Rica	55.6	56.1	15.1	20.6	89	58	4,256	6,455	25.9	15.5	248	311
Côte d'Ivoire	59.4	62.4	1.1	1.1	1,401	1,638	152	256			15	12
Croatia		56.2		0.4		701		1,303		15.8		25
Cuba	61.5	60.6	23.2	22.5	233	326	1,771	476	24.9	25.5	256	249
Czech Republic		55.3		0.7		1,557		1,186	11.4	4.7		305
Denmark	65.5	62.9	16.9	19.6	1,564	1,493	2,436	1,393	5.6	3.2	639	540
Dominican Republic	74.0	76.4	15.1	17.2	135	150	859	848	20.3	15.4	22	17
Ecuador	28.3	29.2	27.9	29.0	828	844	465	1,531	7.1	8.5	65	91
Egypt, Arab Rep.	2.6	3.4	100.0	100.0	2,280	2,846	4,181	4,478	37.6	28.0	250	309
El Salvador Eritroa	70.1	82.2 74.6	4.9	5.0	428	330 371	1,392	1,054	9.3	19.9	62	52 8
Eritrea Estonia		74.6 19.0		3.7 0.6	 454	371 267	••	119 432	20.5	6.7	••	889
Ethiopia	••	31.3		2.6		7,233	••	145	••			3
Finland	7.9	7.3	2.8	2.9	 1,144	1,168	1,904	1,353	8.9	5.3	1,059	882
France	55.6	53.9	10.3	13.3	9,244	9,158	3,217	2,221	6.4		799	685
Gabon	20.0	20.0	1.0	13.3	9,244	9,138	3,217	9			50	46
Gambia, The	63.8	77.9	0.7	0.6	92	182	64	26			2	1
Georgia		43.2		44.1	249	332		412		53.8		254
Germany	50.8	48.7	4.0	4.0	6,864	6,983	3,070	2,245	4.1	2.5	1,314	801
Ghana	55.4	64.4	0.7	0.5	1,066	1,376	36	60			15	9
Greece	71.4	65.6	30.3	37.4	1,473	1,278	2,307	1,580	23.8	15.9	752	939
Guatemala	39.5	42.7	6.6	6.4	726	666	999	1,427	49.9	38.7	32	30
Guinea	48.7	50.4	7.2	5.6	603	778	18	32			5	5
Guinea-Bissau	53.2	57.9	4.1	4.6	106	134	22	80			1	1
Haiti	58.0	57.7	7.6	8.4	408	458	32	181			3	2

Agricultural inputs 3.2

	_	ultural ind	_	ated nd		under oduction		tilizer Imption	_	ultural Dyment	_	ultural hinery
		of I area 2001-03		of bland 2001–03		sand ares 2003–05	per h	ed grams lectare ble land 2000–02		f total pyment 2001–03	per 100	ctors O sq. km ole land 2001–03
											•	
Honduras	29.9	26.2	3.8	5.6	475	391	191	1,193	44.1	35.1	31	49
Hungary	70.1	63.7	3.8	4.8	2,827	2,934	1,459	992		6.0	126	246
India Indonesia	60.9 24.1	60.8 24.9	27.6 14.2	32.7 13.3	102,279 13,442	97,569 15,140	739 1,227	1,044 1,321	68.7 55.7	44.8	61 15	141 45
Iran, Islamic Rep.	37.3	37.5	41.1	44.1	9,503	9,013	760	921	26.0	••••••	136	168
Iraq	21.9	22.9	57.3	58.6	9,503	9,013	350	968	20.0		72	80
Ireland	76.2	63.6			306	292	6,609	5,308	14.6	6.8	1,624	1,360
Israel	26.6	26.2	47.0	45.4	111	84	2,877	2,598	4.1	1.9	795	718
Italy	56.4	52.2	21.9	24.9	4,481	4,124	2,135	1,819	8.9	5.1	1,593	2,031
Jamaica	44.0	47.4	11.3	8.8	2	1	2,079	1,258		19.9	252	177
Japan	15.6	14.2	54.3	54.7	2,469	2,001	3,865	3,066	7.2	4.7	4,306	4,588
Jordan	13.3	12.9	16.5	18.8	101	53	663	977			213	212
Kazakhstan		76.9		15.8	22,152	13,794		23	22.5	35.4		22
Kenya	45.7	46.5	1.2	1.8	1,776	2,101	258	320	19.0		24	28
Korea, Dem. Rep.	20.9	24.2	57.5	50.9	1,604	1,296	3,577	1,018			299	241
Korea, Rep.	22.1	19.5	46.8	47.2	1,427	1,093	4,888	4,317	17.4	9.4	215	1,239
Kuwait	7.9	8.6	60.0	77.0	1	2	417	711			222	69
Kyrgyz Republic		56.0		78.3	578	568		213	33.8	48.4		171
Lao PDR	7.2	8.1	15.7	17.6	643	819	18	95			11	12
Latvia	40.8	39.9	1.1	1.1	699	451	995	300	17.6	14.8		305
Lebanon	31.0	32.2	28.2	33.2	41	61	1,510	2,838			175	488
Lesotho	76.3	76.9	0.6	0.9	199	247	161	309			59	61
Liberia	27.1	27.0	0.4	0.5	179	120	25	0		••	8	9
Libya	8.8	8.8	20.2	21.9	418	341	445	349			179	219
Lithuania		55.6		0.2	1,134	880		579		17.7		349
Macedonia, FYR		48.8		9.0		195		502		23.0		954
Madagascar	47.0	47.4	30.1	30.6	1,308	1,423	32	31		78.0	11	12
Malawi	40.1	45.8	1.0	2.3	1,415	1,694	317	400			8	6
Malaysia	22.0	24.0	5.0	4.8	696	699	5,386	6,548	27.4	14.8	153	241
Mali	26.3	28.4	3.7	5.0	2,340	3,275	78	89			10	6
Mauritania	38.7	38.8	12.2	9.8	156	121	95	40			8	8
Mauritius	55.7	55.7	16.0	20.1	1 10 01 1	0	2,867	3,035	15.8	10.0	36	37
Mexico	54.2	56.2	21.6	23.2	10,014	10,946	716	727 86	24.2	17.0	124	131
Moldova Mongolia	80.3	77.1 83.3	5.7	14.0 7.0	676 647	882 185	116	31	33.8	47.9 45.0	 79	223 42
Morocco	67.8	68.0	13.5	15.5	5,545	5,578	369	440	33.6	44.2	7 9 4 5	58
Mozambique	60.8	61.8	2.8	2.7	1,561	2,112	10	53	•••••	•••••	17	14
Myanmar	15.8	16.8	10.2	17.9	5,154	6,827	84	146	67.5		13	10
Namibia	47.0	47.2	0.6	1.0	214	244	0	4	48.2		46	39
Nepal	29.0	29.5	41.6	47.1	3,013	3,333	320	333	82.8		22	24
Netherlands	59.0	57.2	61.0	59.9	192	222	6,506	4,286	4.6	3.0	2,074	1,641
New Zealand	65.3	64.3	7.3	8.5	161	121	1,525	5,704	10.6	8.7	301	507
Nicaragua	52.0	57.5	4.0	2.8	305	502	281	177	38.7	37.0	20	15
Niger	25.9	30.4	0.6	0.5	6,232	7,138	2	3			0	0
Nigeria	79.2	78.8	0.7	0.8	15,596	21,508	135	66	••		8	10
Norway	3.2	3.4			357	326	2,388	2,100	6.3	3.9	1,741	1,498
Oman	3.5	3.5	72.6	88.4	2	2	2,185	2,491			41	50
Pakistan	33.7	34.4	76.8	83.9	11,794	12,507	921	1,377	49.9	45.3	127	154
Panama	28.5	30.0	4.8	6.2	179	208	656	545	28.2	17.7	103	148
Papua New Guinea	2.0	2.3			2	3	671	556			60	53
Paraguay	58.6	62.5	3.0	2.2	447	782	92	319	1.7	32.2	72	55
Peru	16.3	16.6	30.5	27.9	802	1,118	320	759	1.1	0.8	37	36
Philippines	37.3	40.9	15.7	14.5	7,113	6,562	955	1,313	45.2	37.4	19	20
Poland	61.7	56.1	0.7	0.7	8,541	8,276	1,383	1,140	25.3	18.9	815	1,025
Portugal	43.3	41.5	20.2	27.5	832	465	1,152	1,234	18.1	12.6	563	1,029
Puerto Rico	49.0	25.5	34.5	48.2	1	0			3.7	2.0		



3.2 Agricultural inputs

				nd	cereal p	roduction	consu	mption	emplo	yment	macl	hinery
		of area 2001–03		of pland 2001–03		ısand tares 2003–05	per h	ed grams ectare ble land 2000–02	emplo	total pyment 2001–03	per 100 of arak	ctors 0 sq. km ble land 2001–03
					•							
Romania	64.4	64.4	31.1	31.1	5,927	5,655	1,077	355	28.9	38.1	147	178
Russian Federation	75.0	13.2		3.7	59,541	39,476		121	14.1	10.5		52
Rwanda	75.8 56.7	74.8 80.9	0.3	0.7 42.7	250	330	20	48	90.1	 F 4	1 19	1
Saudi Arabia	41.9	42.4	45.6 3.6	42.7	1,009 1,211	646 1,165	1,461 58	1,067 140	••	5.4	2	28 3
Senegal Serbia and Montenegro	41.5	54.8	•	0.8	1,211	2,047		732	••			1,023
Sierra Leone	38.3	39.1	5.2	5.0	462	253	24	5	••		6	1,023
Singapore	3.0	3.0					54,333	25,920	0.4	0.3	620	650
Slovak Republic	5.0	5.0	•	•	•	••••••	04,000	20,020	•	6.0	020	
Slovenia		25.2		1.5		99		4,239		9.3		6,314
Somalia	70.2	70.3	19.2	18.7			18	4,239 5		9.5	21	16
South Africa	79.7	82.0	8.4	9.5	6,192	4,469	573	558		10.7	108	46
Spain	61.1	60.2	16.8	20.3	7,756	6,570	1,282	1,605	11.5	6.0	481	689
Sri Lanka	36.2	36.4	27.5	34.4	810	873	2,127	2,862	44.6	34.7	75	113
Sudan	51.9	56.4	13.7	11.0	5,376	9,365	48	40			7	7
Swaziland	74.3	80.9	22.9	26.0	80	64	697	371			233	222
Sweden	8.3	7.7	4.0	4.3	1,235	1,099	1,148	1,010	3.4	2.1	604	616
Switzerland	50.5	38.1	6.1	5.8	210	164	4,297	2,272	4.3	4.1	2,874	2,644
Syrian Arab Republic	73.5	74.8	12.9	24.1	3,969	3,194	581	718		30.3	129	225
Tajikistan		30.4		68.2	266	391		175	63.4			233
Tanzania	53.7	54.4	3.3	3.5	2,990	3,243	378	31	84.2	82.1	19	19
Thailand	41.9	38.4	20.6	26.6	10,991	11,152	537	1,039	63.2	45.7	33	144
Togo	58.4	66.7	0.3	0.3	625	767	57	74			0	0
Trinidad and Tobago	25.5	25.9	3.3	3.3	6	2	833	631	12.6	7.4	355	360
Tunisia	56.9	62.3	6.7	8.0	1,375	1,377	328	372			86	126
Turkey	51.8	51.0	14.5	19.5	13,679	13,809	736	768	47.4	35.5	278	410
Turkmenistan		69.7		89.1	331	948		543	42.4			256
Uganda	60.6	62.7	0.1	0.1	1,078	1,532	1	14	80.1	69.1	9	9
Ukraine		71.4		6.8	12,542	13,089		154		19.5		124
United Arab Emirates	3.3	6.8	128.1	29.2	1	0	4,247	5,149			55	55
United Kingdom	75.3	70.1	2.4	3.0	3,677	3,039	3,553	3,141	2.2	1.3	762	877
United States	46.6	44.7	11.1	12.7	63,775	57,028	1,006	1,101	2.9	2.5	248	273
Uruguay	84.7	85.5	9.6	14.3	508	567	586	849		4.3	262	241
Uzbekistan		64.2		87.4	1,225	1,753		1,614	40.6			373
Venezuela, RB	24.8	24.5	13.1	16.9	819	1,040	1,579	1,132	13.1	10.0	169	189
Vietnam	20.7	29.3	44.8	33.8	6,549	8,378	1,183	3,172	74.7	61.9	51	245
West Bank and Gaza										14.2		
Yemen, Rep.	33.4	33.5	22.4	31.4	781	638	134	95		••	40	43
Zambia	47.4	47.5	0.6	2.9	929	861	128	84	••		11	11
Zimbabwe	52.1	53.1	3.5	5.2	1,606	1,610	562	443	. 44 7		60	75
World	38.4 w	38.4 w	16.8 w	18.0 w	•	669,691 s					187 w	
Low income Middle income	43.4 36.2	44.6 35.6	21.8 17.9	23.8 17.7	205,135 341,823	230,127 305,289	529 1,124	663 1,057	65.9 46.8	 35.8	47 123	83 130
	···•	•	•	•		208,050	•		•	•••••		
Lower middle income Upper middle income	40.6 30.8	43.1 25.7	22.7 9.04	23.1 8.6	226,040 115,782	97,239	1,324 788	1,431 471	50.5 20.8	40.3 14.2	90 187	105 171
Low & middle income	38.4	38.3	19.3	20.0	546,957	535,416	788 887	910	20.8 50.6	•••••	93	112
East Asia & Pacific	38.4 48.4	50.6	•	•	141,839	133,283	1,767	2,148	56.0	45.1	93 56	73
Europe & Central Asia	38.5	28.6	11.6		137,259	113,303	1,767	345	23.8	20.2	231	184
Latin America & Carib.	38.5	36.1	11.0	11.4	48,262	50,630	602	345 895	23.8 17.9	17.2	121	123
Middle East & N. Africa	22.5	23.0	28.9	32.9	26,822	25,887	651	841	•		113	144
South Asia	54.8	54.7	33.0	39.0	129,072	125,982	745	1,066	66.6	······································	62	130
Sub-Saharan Africa	42.9	44.0	3.6	3.6	63,703	86,332	142	1,000	•	••••••	20	130
High income	38.3	38.5	10.5	11.9	143,926	134,275	1,248	1,208	6.0	3.9	420	436
Europe EMU	50.6	48.4	14.4	16.9	33,599	31,385	2,524	2,040	8.7	4.8	997	980

a. Includes Luxembourg.

Agricultural activities provide developing countries with food and revenue, but they also can degrade natural resources. Poor farming practices can cause soil erosion and loss of soil fertility. Efforts to increase productivity through the use of chemical fertilizers, pesticides, and intensive irrigation have environmental costs and health impacts. Excessive use of chemical fertilizers can alter the chemistry of soil. Pesticide poisoning is common in developing countries. And salinization of irrigated land diminishes soil fertility. Thus inappropriate use of inputs for agricultural production has farreaching effects.

This table provides indicators of major inputs to agricultural production: land, fertilizer, labor, and agricultural machinery. There is no single correct mix of inputs: appropriate levels and application rates vary by country and over time, depending on the type of crops, the climate and soils, and the production process used.

The data shown here and in table 3.3 are collected by the Food and Agriculture Organization (FAO) through annual questionnaires. The FAO tries to impose standard definitions and reporting methods, but exact consistency across countries and over time is not possible. Data on agricultural employment, in particular, should be used with caution. In many countries much agricultural employment is informal and unrecorded, including substantial work performed by women and children.

Fertilizer consumption measures the quantity of plant nutrients. Consumption is calculated as production plus imports minus exports. Because some chemical compounds used for fertilizers have other industrial applications, the consumption data may overstate the quantity available for crops.

To smooth annual fluctuations in agricultural activity, the indicators in the table have been averaged over three years.

Definitions

. Agricultural land refers to the share of land area that is arable, under permanent crops, and under permanent pastures. 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. Land under permanent crops 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. Permanent pasture is land used for five or more years for forage, including natural and cultivated crops. • Irrigated land refers to areas purposely provided with water, including land irrigated by controlled flooding. • Cropland refers to arable land and permanent cropland (see table 3.1). Land under cereal production refers to harvested

areas, although some countries report only sown or cultivated area. • Fertilizer consumption is the quantity of plant nutrients used per unit of arable land. Fertilizer products cover nitrogenous, potash, and phosphate fertilizers (including ground rock phosphate). Traditional nutrients—animal and plant manures—are not included. The time reference for fertilizer consumption is the crop year (July through June). • Agricultural employment refers to employment in agriculture, forestry, hunting, and fishing (see table 2.3 for more detail). • Agricultural machinery refers to wheel and crawler tractors (excluding garden tractors) in use in agriculture at the end of the calendar year specified or during the first quarter of the following year.

3.2a

Irrigated lands have increased in all income groups and most regions, putting further pressure on water resources



Data sources

Data on agricultural inputs are from electronic files that the FAO makes available to the World Bank and that may contain more recent information than those published in the FAO's *Production Yearbook*.





3.3 Agricultural output and productivity

	Crop pro ind			oduction lex		production lex	Cer yie		_	ultural ctivity
	1999–20	01 = 100	1999-20	01 = 100	1999-20	001 = 100	kilog per he		value per w	ulture added rorker 00 \$
	1992-94	2002-04	1992-94	2002-04	1992-94	2002-04	1993-95	2003-05	1992-94	2002-04
Afghanistan					••					
Albania	85.1	100.6	81.1	105.9	78.7	108.9	2,662	3,491	916	1,469
Algeria	85.3	122.9	84.5	113.2	85.4	103.3	774	1,468	1,743	1,983
Angola	67.9	119.4	71.3	113.0	79.4	100.0	323	547	99	168
Argentina	68.8	106.4	76.0	101.4	92.5	92.0	2,821	3,771	7,335	9,311
Armenia	106.2	119.2	103.5	121.8	96.9	123.2	1,646	2,122	1,464	2,717
Australia	60.2	81.6	73.0	91.7	85.4	96.9	1,706	1,960	20,693	27,058
Austria	89.5	99.1	90.9	99.0	96.3	99.6	5,338	5,738	12,882	21,083
Azerbaijan	115.6	122.7	90.8	118.6	88.1	113.6	1,586	2,633	922	1,061
Bangladesh	74.8	104.7	74.0	104.6	80.2	103.2	2,572	3,533	251	309
Belarus	115.1	124.7	127.7	107.2	135.3	99.7	2,377	2,850	1,964	2,612
Belgium	87.8 ^a	106.0	98.4ª	101.3	98.7ª	99.7	6,726 ^a	8,710		
Benin	66.0	125.4	67.9	126.3	92.5	109.2	988	1,147	391	599
Bolivia	68.2	116.4	72.6	111.6	77.5	107.9	1,513	1,857	678	749 5 700
Bosnia and Herzegovina	97.6	101.1	108.7	96.0	109.4	86.6	3,569	3,393	2,951	5,709 409
Botswana	95.8	111.5	111.9	104.8	115.4	103.4	325	514	532	•
Brazil Bulgaria	82.1	119.6	76.9	118.0	73.4	116.8 96.2	2,384	3,149	1,839	3,111 6,639
Burkina Faso	116.1 76.6	110.9 126.6	113.7 79.1	101.7 116.2	117.7 75.6	108.1	2,794 858	3,157 959	2,153 157	166
Burundi	108.0	107.0	108.1	106.3	137.2	100.1	1,329	1,336	115	103
Cambodia	64.1	105.8	66.1	106.3	75.8	103.5	1,529	2,062	276	289
Cameroon	76.2	103.0	78.8	104.2	85.7	103.1	1,034	1,720	720	1,177
Canada	89.1	93.8	84.1	94.8	80.4	103.6	2,647	2,962	29,378	38,509
Central African Republic	76.7	97.7	74.6	106.9	73.7	113.5	902	1,046	292	415
Chad	68.8	110.9	73.9	110.2	84.1	105.4	611	711	189	199
Chile	85.7	110.5	81.5	108.6	76.0	107.0	4,403	5,621	4,235	3,222
China	75.0	110.6	68.5	113.2	61.2	116.1	4,581	5,057	273	373
Hong Kong, China										
Colombia	97.5	107.4	85.7	106.8	82.2	107.1	2,552	3,567	3,207	2,751
Congo, Dem. Rep.	127.8	97.2	124.8	97.5	103.2	99.2	778	767	227	197
Congo, Rep.	83.2	105.1	82.2	107.0	79.6	114.5	770	806	295	337
Costa Rica	77.1	99.6	77.6	101.0	82.8	101.4	3,671	4,001	3,364	4,285
Côte d'Ivoire	73.4	96.2	75.2	100.0	78.1	110.9	946	1,266	608	757
Croatia	83.8	97.2	96.7	98.9	116.4	108.2	4,255	4,179	5,189	9,237
Cuba	82.0	112.6	83.2	108.1	98.9	92.7	1,697	3,076		
Czech Republic	97.1	94.8	111.6	96.6	114.9	95.8	4,099	4,816	3,531	4,543
Denmark	94.4	97.7	96.8	100.6	93.9	102.8	5,833	6,080	22,271	37,443
Dominican Republic	114.7	110.0	104.8	106.1	86.1	103.7	3,739	4,177	2,482	4,169
Ecuador	90.7	95.9	80.4	106.5	70.9	115.3	1,983	2,485	1,027	1,478
Egypt, Arab Rep.	74.3	104.2	72.5	107.7	71.0	115.3	5,920	7,528	1,575	2,007
El Salvador Eritroa	102.7	90.6 67.7	87.9 83.5	102.9 83.2	77.7 76.4	108.5 97.1	1,883 487	2,462 296	1,639 91	1,607
Eritrea Estonia	91.9 115.3	89.9	83.5 161.6	83.2 100.4	76.4 166.6	97.1 101.7	487 1,815	2,274	2,693	56 3,199
Ethiopia	69.7	89.9 106.7	71.5	100.4	78.8	101.7	1,815	2,274 1,261	2,693	3,199
Finland	91.9	100.7	99.2	103.3	101.3	104.3	3,534	3,284	17,815	31,339
France	92.2	98.8	96.0	99.5	97.4	104.3	6,504	6,876	24,724	40,521
Gabon	86.7	101.9	88.6	101.6	88.5	100.4	1,848	1,641	1,535	1,747
Gambia, The	55.5	65.2	59.7	68.7	102.1	102.6	1,129	1,155	204	204
Georgia	119.4	91.9	98.6	100.9	74.5	110.3	1,978	2,152	2,127	1,442
Germany	83.8	95.1	91.8	97.5	96.8	101.0	5,882	6,497	13,908	23,616
Ghana	69.1	117.0	70.2	116.9	90.9	108.7	1,341	1,437	301	341
Greece	93.9	90.4	97.0	92.2	101.0	98.2	3,717	3,699	8,315	9,303
Guatemala	79.8	102.6	78.7	105.5	80.2	100.6	1,873	1,747	2,178	2,275
Guinea	80.5	107.5	80.0	110.7	68.5	111.8	1,178	1,476	175	229
Guinea-Bissau	73.1	104.9	75.9	105.1	86.1	106.6	1,410	1,149	211	224
Haiti	101.9	98.8	95.7	101.9	76.7	111.6	930	824	682	427

Agricultural output and productivity



		oduction dex	1	oduction dex		production dex		real eld	_	ultural ctivity
	1999–20	001 = 100	1999-20	001 = 100	1999-20	001 = 100		rams ectare	value per v	ulture added vorker 00 \$
	1992-94	2002-04	1992-94	2002-04	1992-94	2002-04	1993-95	2003-05	1992-94	2002-04
Honduras	96.6	118.9	90.6	111.9	77.5	105.8	1,393	1,095	992	1,163
Hungary	89.1	99.7	93.6	100.9	101.9	101.9	3,706	4,718	2,825	3,986
India	84.5	100.0	80.8	102.5	74.5	110.5	2,104	2,391	362	391
Indonesia	88.0	112.7	90.3	113.1	99.4	127.3	3,875	4,278	498	564
Iran, Islamic Rep.	83.0	118.1	82.1	113.3	77.6	103.3	1,782	2,411	2,042	2,438
Iraq										2,271
Ireland	89.8	100.3	95.1	96.4	94.8	96.1	6,183	7,390		
Israel	91.5	103.3	81.8	106.5	79.5	113.1	2,678	3,725		
Italy	98.8	92.6	98.4	94.3	95.3	99.4	4,732	5,057	13,672	21,553
Jamaica	102.2	96.7	94.9	97.9	81.9	102.8	1,447	1,162	2,162	1,916
Japan	108.8	95.0	106.9	97.4	107.0	100.2	5,627	5,807	19,958	26,557
Jordan	106.8	136.6	97.1	124.1	92.8	94.1	1,363	1,354	1,810	1,192
Kazakhstan	121.7	108.4	140.6	106.4	178.3	111.6	803	994	1,585	1,420
Kenya	88.8	103.2	86.4	106.4	82.5	110.4	1,711	1,409	301	317
Korea, Dem. Rep.	124.4	108.4	118.5	109.1	113.7	114.2	4,455	3,408		
Korea, Rep.	89.1	91.3	84.2	92.8	80.3	100.4	5,780	6,233	6,257	9,996
Kuwait	39.1	110.6	35.6	122.0	39.2	115.7	5,998	1,975		13,898
Kyrgyz Republic	60.0	102.9	71.0	101.0	101.4	98.4	1,968	2,984	625	942
Lao PDR Latvia	63.4 127.4	115.3 119.4	63.4 186.1	115.9 111.0	72.1 219.0	107.5 101.1	2,447 1,778	3,180 2,225	376 1,566	461 2,415
Lebanon	116.9	94.1	107.4	100.4	68.1	120.4	2,264	2,225	15,726	25,189
Lesotho	74.1	100.8	94.6	100.4	125.8	100.0	855	906	447	495
Liberia	56.9	97.7	72.9	96.2	89.9	107.8	1,106	889	•	433
Libya	81.9	96.9	79.4	101.6	76.7	101.0	683	626		
Lithuania	88.8	113.1	136.5	111.0	154.3	107.8	1,907	3,183		4,280
Macedonia, FYR	90.9	93.3	94.8	96.2	105.8	103.3	2,571	3,053	2,105	3,034
Madagascar	95.4	103.5	93.4	101.8	95.2	97.1	1,939	2,321	183	174
Malawi	57.7	84.3	49.3	87.1	85.2	101.8	1,233	1,150	73	131
Malaysia	78.1	114.0	78.6	113.7	98.8	115.1	3,051	3,293	3,918	4,690
Mali	75.6	107.4	81.8	105.8	85.2	112.9	797	872	205	229
Mauritania	84.4	97.2	81.8	107.6	80.9	109.3	763	1,075	283	282
Mauritius	107.3	101.6	100.4	104.9	82.4	116.8	3,942	3,436	4,034	4,996
Mexico	83.4	103.8	81.6	105.5	78.3	107.8	2,559	2,872	2,295	2,727
Moldova	147.6	112.2	151.4	112.6	170.3	103.2	3,001	2,572	902	732
Mongolia	173.0	107.3	83.3	96.4	81.4	95.9	780	808	697	661
Morocco	95.2	133.4	91.1	122.6	80.7	102.0	864	1,282	1,275	1,582
Mozambique	60.5	106.1	65.5	103.0	91.5	100.9	579	921	98	142
Myanmar	71.7	114.7	71.9	115.2	68.2	115.1	2,895	3,420		
Namibia	68.6	111.4	104.8	109.8	112.0	109.3	299	441	845	1,097
Nepal Netherlands	75.2	111.2	77.2	109.4	82.4	107.3	1,841	2,284	191	208
Netherlands	98.3	97.9	107.4	94.8	106.4	92.6	7,644 5.457	8,036 7,360	27,857	39,358
New Zealand	86.4	101.9	84.3	112.1	85.8 65.3	112.1	5,457	7,360	20,319	27,660
Nicaragua Niger	73.7 73.4	115.3 119.5	69.7 77.9	119.4 116.3	65.3 85.9	119.9 104.7	1,731 311	1,778 394	1,221 165	1,916 172
Nigeria	79.4	103.4	77.9 79.6	103.7	82.8	104.7	1,165	1,057	610	863
Norway	113.4	103.4	101.3	98.6	98.1	97.3	3,768	4,121	23,252	32,779
Oman	69.2	87.3	67.0	89.9	75.3	94.0	2,185	2,332	1,000	1,128
Pakistan	80.3	102.5	77.3	106.0	75.6	109.1	1,946	2,438	603	688
Panama	110.2	104.2	96.7	101.8	80.2	101.1	1,863	1,958	2,450	3,570
Papua New Guinea	83.8	101.6	84.5	105.9	85.3	110.1	2,865	3,539	451	482
Paraguay	81.3	120.7	80.1	110.3	92.5	98.2	2,074	2,245	2,165	2,453
Peru	57.4	108.1	61.3	110.7	70.0	114.1	2,745	3,399	1,169	1,764
Philippines	87.3	109.6	81.5	112.2	67.4	120.7	2,263	2,946	907	1,001
Poland	101.3	91.6	99.2	103.6	99.4	105.0	2,781	3,191	1,026	1,408
Portugal	88.1	98.6	90.4	99.1	88.9	98.2	2,142	2,683	4,414	5,735
Puerto Rico	160.5	114.6	121.6	97.8	113.2	94.1	1,548	1,731		•



3.3 Agricultural output and productivity

		oduction dex		oduction dex		production lex		real eld	_	ultural ctivity
	1999–20 1992–94	001 = 100 2002-04	1999-20 1992-94	001 = 100 2002-04	1999-20 1992-94	001 = 100 2002-04		rams ectare 2003-05	value per v	ulture added vorker 00 \$ 2002-04
D			•						•	•
Romania	94.6	112.2	101.1	110.7	112.7	107.6	2,760	3,255	2,312	3,519
Russian Federation	113.9	116.0	122.0	110.2	142.8	103.2	1,439	1,839	1,746	2,297
Rwanda	86.5	117.6	85.0	117.2	74.3	107.3	1,208	989	183	229
Saudi Arabia	126.0	114.8	100.6	116.0	70.4	104.9	4,264	4,430	8,905	14,284
Senegal	72.3	68.3	74.1	74.9	83.9	98.2	820	1,013	236	235
Serbia and Montenegro	99.8	110.0	106.1	106.0	101.7	94.9	3,385	4,056	<u> </u>	1,446
Sierra Leone	123.0	113.5	114.7	112.3	88.6	105.2	1,181	1,223		
Singapore	116.1	100.0	240.4	69.3	235.0	74.2		<u> </u>	28,729	32,267
Slovak Republic		<u></u>	···		<u></u>	••		<u> </u>		
Slovenia	101.1	110.2	86.4	105.8	83.1	103.6	4,433	5,247	12,494	32,311
Somalia			•••			••••			•••	
South Africa	80.9	102.4	85.2	105.7	93.8	108.2	2,052	2,907	1,764	2,414
Spain	81.6	106.1	83.6	105.3	81.0	107.2	2,267	3,040	12,611	19,132
Sri Lanka	89.4	98.8	94.4	100.0	107.5	109.9	2,993	3,428	713	743
Sudan	80.8	110.8	77.6	107.6	75.4	106.3	479	481	364	688
Swaziland	94.5	100.1	106.1	105.3	140.4	111.9	1,607	1,114	1,040	1,161
Sweden	94.0	102.1	96.3	100.0	97.2	97.7	4,336	4,835	21,654	31,716
Switzerland	112.2	95.3	104.3	100.1	103.3	101.9	6,220	6,150	21,565	22,190
Syrian Arab Republic	83.9	117.1	81.0	122.2	69.6	115.6	1,558	1,786	2,356	2,977
Tajikistan	119.0	132.9	128.5	132.6	176.0	139.2	994	2,252	367	401
Tanzania	87.9	103.6	87.0	105.0	87.7	109.4	1,292	1,469	242	287
Thailand	85.6	106.1	88.6	106.0	98.9	105.5	2,383	2,725	481	599
Togo	81.4	110.3	81.6	104.2	83.6	106.7	816	1,040	360	409
Trinidad and Tobago	116.8	91.9	91.7	122.1	76.1	142.6	3,533	2,722	1,748	2,368
Tunisia	91.5	104.2	84.9	103.0	66.7	99.9	1,069	1,539	2,365	2,415
Turkey	88.1	104.0	90.2	103.2	94.6	101.6	2,068	2,399	1,772	1,793
Turkmenistan	115.6	116.5	68.4	125.2	71.4	121.7	2,215	3,011	1,179	•••
Uganda	81.4	106.6	82.5	107.7	86.1	112.9	1,536	1,667	192	231
Ukraine	127.5	114.0	134.8	108.1	155.5	108.1	2,881	2,436	1,235	1,442
United Arab Emirates	31.8	56.0	34.1	62.2	65.5	116.9	1,485	3,119	11,659	34,739
United Kingdom	102.3	100.3	106.3	98.9	106.1	98.5	6,618	7,097	23,089	26,897
United States	92.2	101.5	88.7	102.7	87.1	102.6	4,836	6,444	22,868	36,863
Uruguay	78.7	112.7	82.2	104.3	88.3	98.3	2,880	4,279	6,213	7,102
Uzbekistan	105.1	109.0	92.6	107.9	103.1	104.7	1,730	3,461	1,263	1,567
Venezuela, RB	79.9	96.0	77.3	98.9	79.2	100.4	2,949	3,329	4,781	5,899
Vietnam	67.0	116.6	70.1	118.3	64.7	124.9	3,463	4,651	225	294
West Bank and Gaza	·····	110.0	***************************************	110.0	0 1.1	121.0	0,100	1,001		
Yemen, Rep.	83.0	100.1	 79.1	107.4	73.7	 115.5	1,102	772	383	 511
Zambia	88.8	100.1	92.5	107.4	87.3	99.2	1,102	1,584	160	206
Zimbabwe	72.0	69.3	75.2	85.7	86.4	100.1	1,064	676	238	242
World	85.0 w	105.7 w	84.8 w	106.2 w	85.7 w	100.1 107.0 w	2,789 w	3,254 w	770 w	242 864 v
Low income	83.0 W	103.7 W	80.6	105.2 W	77.8	107.0 W	1,820	2,083	336	378
Middle income	82.4	•	•	•	83.4	•		2,083 3,318	576	719
	·····	110.2	82.6	110.5		111.0	2,815	•		•
Lower middle income	81.4	111.7	78.0 97.3	112.5 104.3	74.2	114.1	3,217	3,644	456	588
Upper middle income	90.8	104.9	•	•	107.5	102.7	2,028	2,619	2,227	2,650
Low & middle income	83.1	108.1	82.0	109.0	82.0	110.6	2,420	2,787	477	568
East Asia & Pacific	77.0	110.8	72.1	112.4	63.8	116.6	4,031	4,466	4 000	
Europe & Central Asia	105.9	107.1	114.7	106.1	128.8	104.1	1,902	2,331	1,602	1,914
Latin America & Carib.	80.7	111.5	79.1	110.4	78.7	108.9	2,493	3,159	2,234	2,812
Middle East & N. Africa	84.1	113.7	80.9	112.5	74.8	107.7	1,877	2,439	1,589	1,975
South Asia	83.8	101.0	80.3	103.5	75.0	109.8	2,128	2,505	364	401
Sub-Saharan Africa	80.3	103.9	81.7	105.1	85.9	107.1	1,034	1,087	294	341
High income	91.0	98.2	91.1	99.9	91.7	101.2	4,297	5,115	<u>.</u>	
Europe EMU	90.6	97.8	93.3	98.8	96.2	99.7	4,855	5,427	14,186	21,695

a. Includes Luxembourg.

The agricultural production indexes in the table are prepared by the Food and Agriculture Organization (FAO). The FAO obtains data from official and semiofficial reports of crop yields, area under production, and livestock numbers. If data are not available, the FAO makes estimates. The indexes are calculated using the Laspeyres formula: production quantities of each commodity are weighted by average international commodity prices in the base period and summed for each year. Because the FAO's indexes are based on the concept of agriculture as a single enterprise, estimates of the amounts retained for seed and feed are subtracted from the production data to avoid double counting. The resulting aggregate represents production available for any use except as seed and feed. The FAO's indexes may differ from other sources because of differences in coverage, weights, concepts, time periods, calculation methods, and use of international prices.

To ease cross-country comparisons, the FAO uses international commodity prices to value production. These prices, expressed in international dollars (equivalent in purchasing power to the U.S. dollar), are derived using a Geary-Khamis formula applied to agricultural outputs (see Inter-Secretariat Working Group on National Accounts 1993, sections 16.93-96). This method assigns a single price to each commodity so that, for example, one metric ton of wheat has the same price regardless of where it was produced. The use of international prices eliminates fluctuations in the value of output due to transitory movements of nominal exchange rates unrelated to the purchasing power of the domestic currency.

Data on cereal yield may be affected by a variety of reporting and timing differences. The FAO allocates production data to the calendar year in which the bulk of the harvest took place. But most of a crop harvested near the end of a year will be used in the following year. Cereal crops harvested for hay or harvested green for food, feed, or silage, and those used for grazing, are generally excluded. But millet and sorghum, which are grown as feed for livestock and poultry in Europe and North America, are used as food in Africa. Asia, and countries of the former Soviet Union. So some cereal crops are excluded from the data for some countries and included elsewhere, depending on their use.

Agricultural output and productivity

Agricultural productivity is measured by value added per unit of input. (For further discussion of the calculation of value added in national accounts, see About the data for tables 4.1 and 4.2.) Agricultural value added includes that from forestry and fishing. Thus interpretations of land productivity should be made with caution. To smooth annual fluctuations in agricultural activity, the indicators in the table have been averaged over three years.

Definitions

• Crop production index shows agricultural production for each period relative to the base period 1999-2001. It includes all crops except fodder crops. The regional and income group aggregates for the FAO's production indexes are calculated from the underlying values in international dollars, normalized to the base period 1999-2001. The data in this table are three-year averages. • Food production index covers food crops that are considered edible and that contain nutrients. Coffee and tea are excluded because, although edible, they have no nutritive value. • Livestock production index includes meat and milk from all sources, dairy products such as cheese, and eggs, honey, raw silk, wool, and hides and skins. • Cereal yield, measured in kilograms per hectare of harvested land, includes wheat, rice, maize, barley, oats, rye, millet, sorghum, buckwheat, and mixed grains. Production data on cereals refer to crops harvested for dry grain only. Cereal crops harvested for hay or harvested green for food, feed, or silage, and those used for grazing, are excluded. • Agricultural productivity refers to the ratio of agricultural value added, measured in constant 2000 U.S. dollars, to the number of workers in agriculture.

Source: Table 3.3.

The 10 countries with the highest cereal yield in 2003-05—and the 10 with the lowest

Country	Kilograms per hectare	Country	Kilograms per hectare
Belgium	8,710	Eritrea	296
Netherlands	8,036	Niger	394
Egypt, Arab Rep.	7,528	Namibia	441
Ireland	7,390	Sudan	481
New Zealand	7,360	Botswana	514
United Kingdom	7,097	Angola	547
France	6,876	Libya	626
Germany	6,497	Zimbabwe	676
United States	6,444	Chad	711
Korea, Rep.	6,233	Congo, Dem. Rep.	767

Data sources

The agricultural production indexes are prepared by the FAO and published annually in its Production Yearbook. The FAO makes these data and the data on cereal yield and agricultural employment available to the World Bank in electronic files that may contain more recent information than the published versions. For sources of data on agricultural value added, see Data sources for table 4.2.





3.4 Deforestation and biodiversity

	_	e annual station ^a	Mam	nmals	Bi	rds		gher nts ^b	GEF benefits index for biodiversity		onally ed areas	Marine p are	
	thousand sq. km 1990– 2005	% 1990- 2005	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	2005	thousand sq. km 2004 °	% of total land area 2004 ^c	thousand sq. km 2004 ^c	% of surface area 2004°
Afghanistan	295	2.3	144	12	434	17	4,000	1	24.1	2.0	0.3		
Albania	-3	0.0	73	1	303	9	3,031	0	1.3	1.0	3.8	0.3	1.0
Algeria	-325	-1.8	100	12	372	11	3,164	2	19.9	119.1	5.0	0.9	0.0
Angola	1,248	0.2	296	11	930	20	5,185	26	63.4	82.3	6.6	29.1	2.3
Armania	1,494	0.4	375	32	1,038	55	9,372	42	122.9	180.6	6.6	7.8	0.3
Armenia Australia	42 2,817	1.2 0.2	78 376	9 63	302 851	12 60	3,553 15,638	1 56	1.7 635.5	2.1 1,029.4	7.6 13.4	680.8	8.8
Austria	2,817 -57	-0.2	101	5	412	8	3,100	3	2.3	27.3	33.1	000.0	0.0
Azerbaijan	0	0.0	82	11	364	11	4,300	0	5.7	5.3	6.4	1.2	1.4
Bangladesh	7	0.1	131	22	604	23	5,000	12	10.5	1.0	0.4	0.3	0.2
Belarus	-345	-0.5	71	6	226	4	2,100	0	0.1	13.1	6.3		
Belgium ^d	7	0.1	92	9	427	10	1,550	0	0.1			0.0	0.0
Benin	647	2.0	159	6	485	2	2,500	14	1.6	12.6	11.4		
Bolivia	2,703	0.4	361	26	1,414	30	17,367	70	91.9	145.3	13.4		
Bosnia and Herzegovina	17	0.1	78	8	312	8		1	2.5	0.3	0.5		
Botswana	1,183	0.9	169	6	570	9	2,151	0	9.9	104.9	18.5		
Brazil	28,219	0.5	578	74	1,712	120	56,215	381	663.7	566.6	6.7	47.5	0.6
Bulgaria	-199	-0.6	106	12	379	11	3,572	0	6.1	5.0	4.5	0.0	0.0
Burkina Faso	240	0.3	129	6	452	2	1,100	2	1.9	31.5	11.5		
Burundi	91	3.2	116	7	597	9	2,500	2	3.3	1.5	5.7		
Cambodia	1,666	1.3	127	23	521	24		31	25.8	32.7	18.5	1.9	1.1
Cameroon	2,200	0.9	322	42	936	18	8,260	334	88.4	20.9	4.5	3.9	0.8
Cantral African Banublia	0	0.0	211 187	16	472	19 3	3,270	1	147.3	1,023.5	11.3 8.7	362.7	3.6
Central African Republic Chad	299 793	0.1 0.6	104	11 12	663 531	<u> </u>	3,602 1,600	15 2	11.0 14.1	54.2 114.6	9.1		
Chile	-572	-0.4	159	22	445	32	5,284	40	107.3	141.5	18.9	 114.5	15.1
China	-26,766	-1.7	502	80	1,221	82	32,200	443	430.4	727.5	7.8	16.0	0.2
Hong Kong, China	20,100		57	1	306	20		6				0.3	26.5
Colombia	474	0.1	467	39	1,821	86	51,220	222	380.0	106.0	10.2	8.1	0.7
Congo, Dem. Rep.	4,614	0.3	430	29	1,148	30	11,007	65	113.0	113.4	5.0		
Congo, Rep.	170	0.1	166	14	597	4	6,000	35	22.8	22.2	6.5		
Costa Rica	115	0.5	232	13	838	18	12,119	110	73.6	11.7	23.0	4.8	9.4
Côte d'Ivoire	-122	-0.1	229	23	702	11	3,660	105	25.7	19.1	6.0	0.3	0.1
Croatia	-13	-0.1	96	7	365	9	4,288	0	3.6	4.2	7.5	2.5	4.4
Cuba	-437	-2.1	65	11	358	18	6,522	163	89.8	75.9	69.1	31.7	28.6
Czech Republic	-12	-0.1	88	6	386	9	1,900	4	0.9	12.4	16.1		
Denmark	-37	-0.8	81	4	427	10	1,450	3	1.1	14.4	34.0	5.1	11.8
Dominican Republic	0	0.0	36	5	224	16	5,657	30	45.0	25.1	51.9	8.6	17.6
Ecuador	1,976	1.4	341	34	1,515	69	19,362	1	199.4	50.7	18.3	141.0	49.7
Egypt, Arab Rep.	-15 51	-3.5 1.4	118	6 2	481	17 3	2,076	2	21.5 5.5	96.6	9.7	76.7 0.1	7.7 0.4
El Salvador Eritrea	51 45	1.4 0.3	137 70	9	434 537	7	2,911	25 3	6.0	0.1 4.3	0.4 4.3	0.1	
Estonia	-81	-0.4	70 67	4	267	3	1,630	0	0.3	4.3 5.0	4.3 11.8		
Ethiopia	1,409	0.9	288	35	839	20	6,603	22	56.7	169.0	16.9		
Finland	-204	-0.1	80	3	421	10	1,102	1	1.2	28.3	9.3	1.1	0.3
France	-677	-0.5	148	16	517	15	4,630	2	26.1	73.2	13.3	0.5	0.1
Gabon	101	0.1	166	11	632	5	6,651	107	22.8	1.8	0.7	1.0	0.4
Gambia, The	-19	-0.4	133	3	535	2	974	4	0.7	0.2	2.3	0.2	2.0
Georgia	0	0.0	98	11	268	8	4,350	0	4.6	1.6	2.3	0.0	0.1
Germany	-223	-0.2	126	9	487	14	2,682	12	4.4	113.8	32.6	9.1	2.6
Ghana	1,287	1.7	249	15	729	8	3,725	117	13.0	12.7	5.6		
Greece	-302	-0.9	118	11	412	14	4,992	2	20.0	4.6	3.6	2.5	1.9
Guatemala	540	1.1	193	7	684	10	8,681	85	58.9	21.7	20.0	0.1	0.1
Guinea	456	0.6	215	18	640	10	3,000	22	17.0	1.7	0.7		
Guinea-Bissau	96	0.4	101	5	459	1	1,000	4	4.6				
Haiti	7	0.6	41	4	271	15	5,242	28	38.4	0.1	0.4		

Deforestation and biodiversity 3.4

	_	e annual station ^a	Mam	ımals	Bi	rds		(her nts ^b	GEF benefits index for biodiversity	Natio protecte	onally ed areas	Marine p are	
	thousand sq. km 1990 – 2005	% 1990– 2005	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	2005	thousand sq. km 2004 ^c	% of total land area 2004 ^c	thousand sq. km 2004^c	% of surface area 2004 ^c
Honduras	1,825	2.5	201	10	699	6	5,680	111	52.7	7.2	6.4	1.9	1.7
Hungary	-117	-0.7	88	7	367	9	2,214	1	1.2	6.5	7.0		
India	-2,508	-0.4	422	85	1,180	79	18,664	246	291.3	154.6	5.2	16.1	0.5
Indonesia	18,715	1.6	667	146	1,604	121	29,375	383	597.0	373.2	20.6	130.1	6.8
Iran, Islamic Rep.	0	0.0	158	21	498	18	8,000	1	52.2	78.5	4.8	6.2	0.4
Iraq	-12 450	-0.2	102	9	396	18 8		0 1	11.2	0.0	0.0 1.7		
Ireland	-152 -11	-3.5 -0.7	63 115	4 13	408 534	18	950 2,317	0	5.0 5.7	1.2	15.0	0.0	0.0 0.6
Israel Italy	-11 -1,064	-0.7 -1.3	132	13	478	15	5,599	3	28.9	3.3 23.2	7.9	1.5	0.6
Jamaica	-1,064 4	-1.3 0.1	35	5	298	12	3,308	208	32.8		•	8.2	74.5
Japan	55	0.0	171	37	592	53	5,565	12	274.6	 24.8	6.8	10.6	2.8
Jordan	0	0.0	93	7	397	14	2,100	0	2.3	3.0	3.4	0.0	0.1
Kazakhstan	57	0.0	145	15	497	23	6,000	1	36.1	72.9	2.7	0.5	0.0
Kenya	124	0.3	407	33	1,103	28	6,506	103	65.9	45.5	8.0	3.1	0.5
Korea, Dem. Rep.	1,343	1.6	105	12	369	22	2,898	3	4.7	3.1	2.6		
Korea, Rep.	71	0.1	89	12	423	34	2,898	0	12.2	6.8	6.9	3.5	3.5
Kuwait	-2	-6.7	23	1	358	12	234	0	0.9	0.3	1.5	0.3	1.5
Kyrgyz Republic	-22	-0.3	58	6	207	4	4,500	1	7.8	28.9	15.0		
Lao PDR	781	0.5	215	30	704	21	8,286	19	35.7	6.9	3.0		
Latvia	-111	-0.4	68	4	325	8	1,153	0	0.3	8.3	13.4	0.2	0.2
Lebanon	-10	-0.8	70	5	377	10	3,000	0	1.2	0.1	0.5	0.0	0.1
Lesotho	-2	-4.0	59	3	311	7	1,591	1	2.0	0.1	0.2		
Liberia	603	1.5	183	20	576	11	2,200	46	19.5	1.6	1.7	0.6	0.5
Libya	0	0.0	87	5	326	. 7	1,825	1	11.5	1.8	0.1	0.5	0.0
Lithuania	-103	-0.5	71	5	227	4	1,796	0	0.2	6.7	10.7	0.5	0.8
Macedonia, FYR	0	0.0	89	9	291	9	3,500	0	1.5	1.8	7.1		
Madagascar	569	0.4	165	49	262	34	9,505	276	208.7	25.0	4.3	0.2	0.0
Malawi	329	0.9	207	7	658	13	3,765	14	26.1	10.5	11.2	 F 0	
Malaysia Mali	991 1,000	0.4 0.7	337 134	50 12	746 624	40 5	15,500 1,741	683 6	98.5 10.3	18.7 45.2	5.7 3.7	5.0	1.5
Mauritania	99	2.4	94	7	521	5	1,100	0	9.5	17.4	3.7 1.7	15.0	1.5
Mauritius	1	0.3	14	3	137	13	750	87	27.9		•	0.1	4.4
Mexico	3,185	0.5	544	72	1,026	57	26,071	261	503.1	 194.7	10.2	82.1	4.2
Moldova	-7	-0.2	50	4	203	8	1,752	0	0.1	0.5	1.4		
Mongolia	827	0.7	140	13	387	22	2,823	0	29.5	180.2	11.5		
Morocco	-50	-0.1	129	12	430	13	3,675	2	26.5	3.1	0.7	0.5	0.1
Mozambique	500	0.3	228	12	685	23	5,692	46	54.4	65.9	8.4	22.5	2.8
Myanmar	4,665	1.2	288	39	1,047	41	7,000	38	70.5	2.0	0.3	0.2	0.0
Namibia	734	0.8	192	10	619	18	3,174	24	39.1	112.0	13.6	74.0	9.0
Nepal	787	1.6	203	29		31	6,973	7	14.9	12.7	8.9		
Netherlands	-13	-0.4	95	9	444	11	1,221	0	0.6	4.8	14.2	0.8	1.9
New Zealand	-393	-0.5	73	8	351	74	2,382	21	147.8	79.3	29.6	22.7	8.4
Nicaragua	899	1.4	181	6	632	8	7,590	39	23.7	21.6	17.8	1.3	1.0
Niger	453	2.3	123	10	493	2	1,460	2	6.0	97.5	7.7		·······
Nigeria	4,097	2.4	290	25	899	9	4,715	170	43.6	30.1	3.3		
Norway	-171	-0.2	83	9	442	6	1,715	2	10.7	20.9	6.8	1.3	0.4
Oman	0	0.0	74	12	483	14	1,204	6	29.3	43.3	14.0	29.6	9.6
Panama	417	1.7	195	17	625	30	4,950	105	33.6	37.8	4.9	2.2	0.3
Panama Papua New Guinea	55 1 301	0.1	241 260	17 58	904	20	9,915	195	78.0 183.7	16.2	21.7	10.0	13.3
Paraguay Paraguay	1,391 1,788	0.4 0.9	260 168	58 11	720 696	33 27	11,544 7,851	142 10	183.7 22.2	10.4 13.9	2.3 3.5	3.5	0.8
Peru	943	0.9	441	46	1,781	94	17,144	274	241.0	78.1	3.5 6.1	3.4	0.3
Philippines	2,275	2.2	222	50	590	70	8,931	212	224.0	17.0	5.7	16.6	5.5
Poland	-207	-0.2	110	12	424	12	2,450	4	3.8	37.8	12.3	0.7	0.2
Portugal	-456	-1.5	105	15	501	15	5,050	15	25.1	6.0	6.6	2.0	2.2
		-	38	2	310	12	2,493	52	25.1			1.7	19.1



B.4 Deforestation and biodiversity

	Average defores	e annual station ^a	Mam	mals	Bi	rds	_	(her nts ^b	GEF benefits index for biodiversity		onally ed areas	Marine p are	
	thousand sq. km 1990– 2005	% 1990– 2005	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	Total known species 2004	Threatened species 2004	2005	thousand sq. km 2004 °	% of total land area 2004^c	thousand sq. km 2004 ^c	% of surface area 2004^c
Romania	1	0.0	101	15	365	13	3,400	1		10.8	4.7	6.1	2.6
Russian Federation	107	0.0	296	43	645	47	11,400	7	246.4	1,317.3	8.0	301.8	1.8
Rwanda	-108	-3.4	206	13	665	9	2,288	3	7.0	1.5	6.2		
Saudi Arabia	0	0.0	94	9	433	17	2,028	3	22.8	823.3	38.3	5.2	0.2
Senegal	450	0.5	191	11	612	5	2,086	7	8.5	22.3	11.6	0.9	0.4
Serbia and Montenegro	-90	-0.4	96	10	381	10	4,082	1				0.1	0.1
Sierra Leone	193	0.6	197	12	626	10	2,090	47	10.1	1.5	2.1		
Singapore	0	0.0	73	3	400	10	2,282	54	1.0	0.0	4.5	0.0	0.2
Slovak Republic	-5	0.0	87	7	332	11	3,124	2	0.8				
Slovenia	-51	-0.4	87	7	350	7	3,200	0	1.1	1.2	6.0	0.0	0.0
Somalia	767	0.9	182	15	642	13	3,028	17	44.2	5.0	0.8	3.3	0.5
South Africa	0	0.0	320	29	829	36	23,420	75	156.1	67.2	5.5	3.4	0.3
Spain	-2,957	-2.2	132	20	515	20	5,050	14	44.0	42.5	8.5	1.8	0.4
Sri Lanka	278	1.2	123	21	381	16	3,314	280	43.9	8.7	13.5	2.3	3.5
Sudan	5,890	0.8	302	16	952	10	3,137	17	36.4	123.6	5.2	0.3	0.0
Swaziland	-46	-1.0	124	6	490	6	2,715	11	0.9				
Sweden	-107	0.0	85	5	457	9	1,750	3	2.2	37.5	9.1	4.3	1.0
Switzerland	-44	-0.4	93	4	382	. 8	3,030	2	1.7	11.9	29.7	•••••	•
Syrian Arab Republic	-59	-1.6	82	3	350	11	3,000	0	6.2		· · · · · · · · · · · · · · · · · · · 	••	
	-59 -1	0.0	76	7	351	9	5,000	2	4.9	5.9	4.2		•••••
Tajikistan Tanzania			375	34	•	37	•	239		•	29.8		0.2
Tanzania	4,123 963	1.0 0.6	300		1,056 971		10,008	239 84	100.4	263.3	• • • • • • • • • • • • • • • • • • • •	2.3 5.8	•
Thailand			*	36	*	42	11,625	***************************************	53.0	71.0	13.9	······································	1.1
Togo	199	2.9	175	. 7	565	2	3,085	10	2.5	4.3	7.9		
Trinidad and Tobago	6	0.3	116	1	435	2	2,259	1	16.0	0.3	6.0	0.1	1.3
Tunisia - ·	-275	-4.3	78	10	360	9	2,196	0	3.5	0.5	0.3	0.2	0.1
Turkey	-330	-0.3	145	15	436	14	8,650	3	39.6	12.3	1.6	4.5	0.6
Turkmenistan	0	0.0	103	12	318	13	·····	0	13.0	19.7	4.2		
Uganda	865	1.8	360	29	1,015	15	4,900	38	22.1	48.5	24.6		
Ukraine	-201	-0.2	120	14	325	13	5,100	1	2.8	22.6	3.9	3.1	0.5
United Arab Emirates	-45	-1.8	30	5	268	11		0	1.4	0.0	0.0		
United Kingdom	-156	-0.6	103	10	557	10	1,623	13	14.2	50.3	20.8	22.5	9.2
United States	-2,961	-0.1	468	40	888	71	19,473	240	599.1	2,372.2	25.9	909.5	9.5
Uruguay	-401	-4.4	118	6	414	24	2,278	1	9.5	0.5	0.3	0.1	0.0
Uzbekistan	-167	-0.6	91	7	343	16	4,800	1	7.9	8.3	2.0		
Venezuela, RB	2,875	0.6	353	26	1,392	25	21,073	67	178.2	562.8	63.8	21.3	2.3
Vietnam	-2,379	-2.5	279	41	837	41	10,500	145	77.4	12.0	3.7	0.7	0.2
West Bank and Gaza			••										
Yemen, Rep.	0	0.0	74	6	385	14	1,650	159	22.3				
Zambia	4,448	0.9	255	11	770	12	4,747	8	33.4	237.1	31.9		
Zimbabwe	3,129	1.4	222	8	661	10	4,440	17	13.7	46.8	12.1		
World	83,484 s	0.1 w								13,740.8	10.7 w	4,348.9 s	3.0 w
Low income	48,343	0.5								2,203.2	7.7	79.0	
Middle income	42,278	0.1								5,703.8	8.5	1,228.0	1.9
Lower middle income	33,970	0.2						•		2,947.4	7.7	633.5	1.7
Upper middle income	8,308	0.1								2,756.4		594.5	2.1
Low & middle income	90,621	0.2								7,907.0	8.3	1,307.0	1.6
East Asia & Pacific	4,939	-0.2						-		1,454.8		192.1	1.3
Europe & Central Asia	-1,789	0.0								1,610.2	6.9	321.6	1.4
Latin America & Carib.	45,753	0.4								2,228.7	11.1	495.8	2.7
Middle East & N. Africa	-747	-0.5								345.9	4.2	114.7	1.5
				•						•	•••••	·····	•
South Asia	-831	-0.2								228.6	4.8	20.9	0.5
South Asia Sub-Saharan Africa	-831 43.296	-0.2 0.6	·•		<u></u>	·············		•••		228.6	4.8 8.7	20.9 162.0	0.5
South Asia Sub-Saharan Africa High income	-831 43,296 -7,137	-0.2 0.6 -0.1				·····				228.6 2,038.8 5,833.9	4.8 8.7 	20.9 162.0 3,041.9	0.5 6.1

a. Negative numbers indicate an increase in forest area. b. Flowering plants only. c. Data may refer to earlier years. They are the most recent reported by the World Conservation Monitoring Centre in 2004. d. Includes Luxembourg.

Biological diversity is defined in terms of the variability in genes, species, and ecosystems. Faced with mounting threats to biodiversity, the international community has increasingly focused on conserving this diversity. Deforestation is a major cause of loss of biodiversity, and habitat conservation is vital for stemming this loss. Conservation efforts traditionally have focused on protecting areas of high biodiversity.

The estimates of forest area are from the Food and Agriculture Organization's (FAO) Global Forest Resources Assessment, which provides information on forest cover in 2005 and estimates of forest cover in 1990 and 2000. The current survey is the latest global forest assessment and uses a uniform global definition of forest. No breakdown of forest cover between natural forest and plantation is shown in the table because of space limitations. (This breakdown is provided by the FAO only for developing countries.) For this reason the deforestation data in the table may underestimate the rate at which natural forest is disappearing in some countries.

Measures of species richness are among the most straightforward ways to indicate the importance of an area for biodiversity. The number of threatened species is also an important measure of the immediate need for conservation efforts in a geographic area. Global analyses of the status of threatened species have been carried out for few groups of organisms. Only for mammals, birds, and amphibians has the status of virtually all known species been assessed. Threatened species are defined according to the World Conservation Union's (IUCN) classification categories: endangered (in danger of extinction and unlikely to survive if causal factors continue operating), vulnerable (likely to move into the endangered category in the near future if causal factors continue operating), rare (not endangered or vulnerable but at risk), indeterminate (known to be endangered, vulnerable, or rare but not enough information is available to say which), out of danger (formerly included in one of the above categories but now considered relatively secure because appropriate conservation measures are in effect), and insufficiently known (suspected but not definitely known to belong to one of the above categories).

While the number of birds and mammals is fairly well known, it is difficult to make an accurate count of plants. The number of plant species is highly debated. The IUCN's 2004 IUCN Red List of Threatened Plants provides the most comprehensive list of threatened species on a global scale, the result of more than 20 years' work by botanists from around the world. Only 5 percent of plant species have been evaluated, and 70 percent of these are threatened with extinction. Plant species data should be interpreted with caution since they are not necessarily comparable across countries because of differences in taxonomic concepts and coverage. However, they do identify countries that are major sources of global biodiversity and that show national commitments to habitat protection.

Setting priorities for conserving biodiversity requires a broader set of information than species richness. With the support of the World Bank's Development Research Group and in close collaboration with scientific nongovernmental organizations, the Global Environment Facility (GEF) developed the GEF benefits index for biodiversity, a comprehensive indicator of national biodiversity status, to guide its biodiversity priorities. This indicator incorporates information on individual species range maps available from the IUCN for virtually all mammals (4,612), amphibians (5,327), and endangered birds (1,098); country-level data from the World Resources Institute (WRI) for reptiles and vascular plants; country-level data from FishBase for 27.669 fish species; and the ecological characteristics of 867 terrestial ecoregions of the world from World Wildlife Federation (WWF) International. For each country the biodiversity indicator incorporates the best available and comparable information in four relevant dimensions: represented species, threatened species, represented ecoregions, and threatened ecoregions. To combine these dimensions into one measure, the indicator uses dimensional weights that reflect the consensus of conservation scientists in the GEF. IUCN, WWF International, and other nongovernmental organizations. Each unit of the index represents 0.01 percent of the total global biodiversity value,

The table shows information on protected areas, numbers of certain species, and numbers of those species under threat. The World Conservation Monitoring Centre (WCMC) compiles these data from a variety of sources. Because of differences in definitions and reporting practices, cross-country comparability is limited. Compounding these problems, available data cover different periods.

Nationally protected areas are areas of at least 1,000 hectares that fall into one of five management categories defined by the WCMC:

- Scientific reserves and strict nature reserves with limited public access.
- National parks of national or international significance and not materially affected by human activity.
- Natural monuments and natural landscapes with unique aspects.
- Managed nature reserves and wildlife sanctuaries.
- Protected landscapes (which may include cultural landscapes) and areas managed mainly for the sustainable use of natural systems to ensure long-term protection and maintenance of biological diversity.

Designating land as a protected area does not necessarily mean that protection is in force. For small countries that may only have protected areas smaller than 1,000 hectares, this size limit in the definition will result in an underestimate of the extent and number of protected areas.

The dataset on protected areas is tentative and is being revised. Due to variations in consistency and methodology of collection, the quality of the data are highly variable across countries. Some countries update their information more frequently than others, some may have more accurate data on extent of coverage, and many underreport the number or extent of protected areas.

Definitions

· Average annual deforestation refers to the permanent conversion of natural forest area to other uses, including shifting cultivation, permanent agriculture, ranching, settlements, and infrastructure development. Deforested areas do not include areas logged but intended for regeneration or areas degraded by fuelwood gathering, acid precipitation, or forest fires. Negative numbers indicate an increase in forest area. • Mammals exclude whales and porpoises. • Birds are listed for countries included within their breeding or wintering ranges. • Higher plants refer to native vascular plant species. • Threatened species are the number of species classified by the IUCN as endangered, vulnerable, rare, indeterminate, out of danger, or insufficiently known. • GEF benefits index for biodiversity is a composite index of relative biodiversity potential for each country based on the species represented in each country, their threat status, and the diversity of habitat types in each country. • Nationally protected areas are totally or partially protected areas of at least 1,000 hectares that are designated as scientific reserves with limited public access, national parks, natural monuments, nature reserves or wildlife sanctuaries, and protected landscapes. Marine areas, unclassified areas, and litoral (intertidal) areas are not included. The data also do not include sites protected under local or provincial law. Total land area is used to calculate the percentage of total area protected (see table 3.1). • Marine protected areas are areas of intertidal or subtidal terrain—and overlying water and associated flora and fauna and historical and cultural features-which have been reserved by law or other effective means to protect part or all of the enclosed environment.

Data sources

Data on deforestation are from the FAO's Global Forest Resources Assessment 2005. Data on species are from the WCMC's electronic files and the IUCN's 2002 IUCN Red List of Threatened Animals and 1997 IUCN Red List of Threatened Plants. The GEF benefits index for biodiversity is from Kiran Dev Pandey, Piet Buys, Ken Chomitz, and David Wheeler's, "Biodiversity Conservation Indicators: New Tools for Priority Setting at the Global Environment Facility" (2006). Data on protected areas are from the United Nations Environment Programme and WCMC.





	Renewable freshwater			Ar	ınual freshwa withdrawals ^b			Water productivity			
	Flows billion cu. m 2004	Per capita cu. m 2004	billion cu. m 1987–2002	% of internal resources 1987–2002	% for agriculture 1987–2002	% for industry 1987–2002	% for domestic 1987–2002	7 Total 1987–2004	GDP/water use 2000 \$ per cu. r Agriculture 1987–2004		
Afghanistan	55		23.3	42.3	98	0	2				
Albania	27	8,645	1.7	6.4	62	11	27	2.4	1.0	3.7	
Algeria	11	348	6.1	54.0	65	13	22	9.4	1.3	38.4	
Angola	148	9,555	0.4	0.2	60	17	23	30.8	3.3	130.7	
Argentina	276	7,193	29.2	10.6	74	10	17	8.3	0.6	21.6	
Armenia	9	2,998	3.0	32.5	66	4	30	0.8	0.3	6.1	
Australia	492	24,464	23.9	4.9	75	10	15	17.4	0.6	41.2	
Austria	55	6,729	2.1	3.8	1	64	35	93.6	183.0	40.8	
Azerbaijan	8	977	17.3	212.6	68	28	5	0.4	0.1	0.6	
Bangladesh	105	754	79.4	75.6	96	1	3	0.6	0.2	25.3	
Belarus	37	3,786	2.8	7.5	30	47	23	5.0	1.9	3.7	
Belgium	12	1,152									
Benin	10	1,260	0.1	1.3	45	23	32	19.3	15.4	12.1	
Bolivia	304	33,692	1.4	0.5	81	7	13	6.1	1.0	22.5	
Bosnia and Herzegovina	36	9,080									
Botswana	2	1,357	0.2	8.1	41	18	41	29.9	1.8	77.0	
Brazil	5,418	29,460	59.3	1.1	62	18	20	10.5	1.0	12.6	
Bulgaria	21	2,706	10.5	50.0	19	78	3	1.3	0.8	0.4	
Burkina Faso	13	975	0.8	6.4	86	1	13	3.6	1.3	76.7	
Burundi	10	1,382	0.3	2.9	77	6	17	2.5	1.5	9.5	
Cambodia	121	8,738	4.1	3.4	98	1	2	1.0	0.3	52.1	
Cameroon	273	17,022	1.0	0.4	74	8	18	9.8	5.8	24.8	
Canada	2,850	89,134	46.0	1.6	12	69	20	16.4	2.5	7.1	
Central African Republic	141	35,374	0.0	0.0	4	16	80	38.4	517.4	46.8	
Chad	15	1,588	0.2	1.5	83	0	17	7.3	2.9	••	
Chile	884	54,826	12.6	1.4	64	25	11	6.4	0.4	9.1	
China	2,812	2,170	630.3	22.4	68	26	7	2.2	0.4	4.0	
Hong Kong, China			······································	<u> </u>	<u> </u>	···	···	<u> </u>	<u> </u>	···	
Colombia	2,112	47,022	10.7	0.5	46	4	50	8.1	2.0	56.0	
Congo, Dem. Rep.	900	16,114	0.4	0.0	31	17	53	12.1	23.9	15.4	
Congo, Rep.	222	57,173	0.1	0.0	9	22	70	76.0	47.0	233.6	
Costa Rica	112	26,428	2.7	2.4	53	17	30	6.2	0.9	9.9	
Côte d'Ivoire	77	4,299	0.9	1.2	65	12	24	11.0	3.9	19.2	
Croatia	38	8,487						••	<u></u>	••	
Cuba	38	3,390	8.2	21.5	69	12	19				
Czech Republic	13	1,287	2.6	19.6	2 43	57	41	22.5	32.1	13.6 112.4	
Denmark Dominican Republic	6 21	1,110 2,395	1.3 3.4	21.2 16.1	43 66	25 2	32 32	126.8 6.3	6.8 1.1	112.4	
Ecuador	432	33,129	17.0	3.9	82	5	13	1.0	0.1	6.5	
Egypt, Arab Rep.	2	25	68.3	3,794.4	86	6	8	1.6	0.1	8.2	
El Salvador	18	2,625	1.3	7.2	59	16	25	10.7	1.6	21.1	
Eritrea	3	662	0.3	10.7	97	0	3	2.3	0.3	21.1	
Estonia	13	9,423	0.2	1.2	5	38	57	39.5	31.3	26.5	
Ethiopia	122	1,744	5.6	4.6	94	0	6	1.3	0.6	29.2	
Finland	107	20,466	2.5	2.3	3	84	14	50.0	60.5	17.6	
France	179	2,956	40.0	22.4	10	75	16	34.3	8.8	9.4	
Gabon	164	120,382	0.1	0.1	42	8	50	42.1	7.0	274.9	
Gambia, The	3	2,030	0.0	1.0	65	12	23	14.1	5.2	15.7	
Georgia	58	12,866	3.6	6.2	59	21	20	0.9	0.3	1.0	
Germany	107	1,297	47.1	44.0	20	68	12	40.9	2.3	15.9	
Ghana	30	1,399	1.0	3.2	66	10	24	5.5	3.0	14.8	
Greece	58	5,246	7.8	13.4	80	3	16	15.6	1.1	97.2	
Guatemala	109	8,882	2.0	1.8	80	13	7	10.0	2.8	14.5	
Guinea	226	24,561	1.5	0.7	90	2	8	2.2	0.6	39.5	
Guinea-Bissau	16	10,392	0.2	1.1	82	5	13	1.1	0.8	3.9	
Haiti	13	1,548	1.0	7.6	94	1	5	3.7	1.0	56.7	

	Renewabl freshwater			Ar	ınual freshwa withdrawals ^t				Water productivity	
	Flows billion cu. m 2004	Per capita cu. m 2004	billion cu. m 1987–2002	% of internal resources 1987–2002	% for agriculture 1987–2002	% for industry 1987–2002	% for domestic 1987–2002		GDP/water use 2000 \$ per cu. r Agriculture 1987–2004	
Honduras	96	13,610	0.9	0.9	80	12	8	7.3	1.3	16.8
Hungary	6	594	7.6	127.3	32	59	9	6.6	0.8	3.1
India	1,261	1,167	645.8	51.2	87	6	8	0.8	0.2	3.5
Indonesia	2,838	13,043	82.8	2.9	91	1	8	2.2	0.4	145.0
Iran, Islamic Rep.	129	1,918	72.9	56.7	91	2	7	1.6	0.2	26.2
Iraq	35		42.7	121.3	92	5	3	0.5	0.0	10.0
Ireland	49	12,045	1.1	2.3	0	77	23	94.5		
Israel	1	110	2.1	273.3	62	7	31	55.5		
Italy	183	3,170	44.4	24.3	45	37	18	24.7	1.3	17.2
Jamaica	9	3,556	0.4	4.4	49	17	34	20.1	2.5	34.2
Japan	430	3,366	88.4	20.6	63	18	20	53.6	1.2	91.9
Jordan	1	125	1.0	148.5	75	4	21	9.3	0.3	58.0
Kazakhstan	75	5,030	35.0	46.4	82	17	2	0.7	0.1	1.5
Kenya	21	619	1.6	7.6	64	6	30	8.4	3.8	20.0
Korea, Dem. Rep.	67	2,993	9.0	13.5	55	25	20			
Korea, Rep.	65	1,349	18.6	28.7	48	16	36	30.6	2.4	66.7
Kuwait	0	0	0.4		52	2	46	84.0	0.8	2,070.0
Kyrgyz Republic	46	9,121	10.1	21.7	94	3	3	0.1	0.1	1.2
Lao PDR	190	32,878	3.0	1.6	90	6	4	0.6	0.4	2.8
Latvia	17	7,238	0.3	1.8	13	33	53	29.6	8.6	19.0
Lebanon	5	1,356	1.4	28.8	67	1	33	12.9	1.1	368.3
Lesotho	5	2,909	0.1	1.0	20	40	40	18.4	13.9	17.8
Liberia	200	61,717	0.1	0.1	55	18	27	5.4		
Libya	1	105	4.3	711.3	83	3	14	8.7		
Lithuania	16	4,529	0.3	1.7	7	15	78	47.9	41.4	91.3
Macedonia, FYR	5	2,659		<u></u>		<u>-</u>	···	··	<u> </u>	<u> </u>
Madagascar	337	18,606	15.0	4.4	96	2	3	0.2	0.1	1.9
Malawi	16	1,280	1.0	6.3	80	5	15	1.7	0.7	5.0
Malaysia	580	23,298	9.0	1.6	62	21	17	10.5	1.5	24.2
Mali	60	4,572	6.6	10.9	90	1	9	0.4	0.2	11.8
Mauritania	0	134	1.7	425.0	88	3	9	0.7	0.1	7.9
Mauritius	3	2,229	0.6	22.2			30	8.1		
Mexico	409	3,940	78.2	19.1	77	6	17	7.5	0.4	33.2
Mondolio	1	237	2.3	231.0	33 52	58 27	10 21	0.6	0.5 0.9	0.2
Morgolia	35	13,839	0.4	1.3			•	2.3	•	2.1
Morocco Mozambique	29 100	972 5,164	12.6 0.6	43.4 0.6	87 87	3 2	10 11	2.9 7.3	0.6 2.0	31.9 120.3
Myanmar	881	17,611	33.2	3.8	98	1	1	•	•	120.3
Namibia	6	3,066	0.3	4.9	71	5	24	12.4	1.6	69.7
Nepal	198	7,454	10.2	5.1	97		3	0.6	0.2	19.0
Netherlands	11	676	7.9	72.2	34	60	6	47.6	3.3	18.5
New Zealand	327	80,522	2.1	0.6	42	10	48	26.7	5.2	66.0
Nicaragua	190	35,293	1.3	0.7	83	2	15	3.1	0.7	34.4
Niger	4	259	2.2	62.3	95	1	4	0.9	0.4	33.7
Nigeria	221	1,717	8.0	3.6	69	10	21	5.5	2.3	20.7
Norway	382	83,205	2.2	0.6	11	67	23	79.2	14.5	43.6
Oman	1	389	1.4	138.1	90	2	7	16.0	0.3	388.6
Pakistan	52	345	169.4	323.3	96	2	2	0.5	0.1	4.7
Panama	147	46,426	0.8	0.6	28	5	67	14.6	3.8	46.7
Papua New Guinea	801	138,775	0.1	0.0						
Paraguay	94	15,622	0.5	0.5	71	8	20	15.8	4.9	46.5
Peru	1,616	58,631	20.1	1.2	82	10	8	2.8	0.3	7.7
Philippines	479	5,869	28.5	6.0	74	9	17	2.8	0.6	9.2
Poland	54	1,404	16.2	30.2	8	79	13	10.5	4.2	3.7
Portugal	38	3,618	11.3	29.6	78	12	10	9.7	0.4	20.2
Puerto Rico	7	1,823					••	••		••





	Renewabl freshwater				ınual freshwa withdrawals ^b				Water productivity	
	Flows billion cu. m 2004	Per capita cu. m 2004	billion cu. m 1987–2002	% of internal resources 1987–2002	% for agriculture 1987–2002	% for industry 1987–2002	% for domestic 1987–2002	Total 1987–2004	GDP/water use 2000 \$ per cu. r Agriculture 1987–2004	
Romania	42	1,951	23.2	54.8	57	34	9	1.8	0.4	1.7
Russian Federation	4,313	29,981	76.7	1.8	18	64	19	3.7	1.3	2.0
Rwanda	10	1,070	0.2	1.6	68	8	24	14.1	9.1	35.9
Saudi Arabia	2	100	17.3	721.7	89	1	10	11.0	0.6	482.0
Senegal	26	2,266	2.2	8.6	93	3	4	2.1	0.3	17.8
Serbia and Montenegro	44	5,401					•••			
Sierra Leone	160	29,982	0.4	0.2	92	3	5	1.9		
Singapore	1	142								
Slovak Republic	13	2,341								
Slovenia	19	9,349				••	••	••		
Somalia	6	753	3.3	54.8	100	0	0			
South Africa	45	984	12.5	27.9	63	6	31	11.3	0.5	53.0
Spain	111	2,605	35.6	32.0	68	19	13	17.3	0.9	24.9
Sri Lanka	50	2,575	12.6	25.2	95	3	2	1.3	0.2	12.7
Sudan	30	845	37.3	124.4	97	1	3	0.4	0.1	11.2
Swaziland	3	2,357	1.0	39.5	97	1	2	1.4	0.1	37.6
Sweden	171	19,017	3.0	1.7	9	54	37	83.4	16.7	39.4
Switzerland	40	5,467	2.6	6.4	2	74	24	97.1	67.5	36.5
Syrian Arab Republic	7	377	20.0	285.0	95	2	3	1.0	0.3	13.9
Tajikistan	66	10,311	12.0	18.0	92	5	4	0.1	0.0	0.8
Tanzania	84	2,232	5.2	6.2	89	1	10	2.0	0.9	61.7
Thailand	210	3,297	87.1	41.5	95	3	3	1.5	0.1	26.2
Togo	12	1,920	0.2	1.5	45	2	53	8.2	6.5	63.8
Trinidad and Tobago	4	2,951	0.3	8.1	7	26	68	28.1	6.4	55.5
Tunisia	4	422	2.6	62.9	82	4	14	7.9	1.0	55.2
Turkey	227	3,165	37.5	16.5	74	11	15	5.3	1.0	10.4
Turkmenistan	1	285	24.7	1,812.5	98	1	2			
Uganda	39	1,402	0.3	0.8	40	17	43	22.4	18.3	25.2
Ukraine	53	1,119	37.5	70.7	53	35	12	1.0	0.3	0.9
United Arab Emirates	0	35	2.3	1,533.3	68	9	23	34.5	1.5	197.8
United Kingdom	145	2,422	9.5	6.6	3	75	22	157.0	49.0	49.2
United States	2,800	9,535	479.3	17.1	41	46	13	20.9	0.5	9.6
Uruguay	59	17,154	3.2	5.3	96	1	3	5.6	0.4	115.2
Uzbekistan	16	623	58.3	357.0	93	2	5	0.3	0.1	2.5
Venezuela, RB	722	27,652	8.4	1.2	47	7	46	13.2	1.2	83.8
Vietnam	367	4,461	71.4	19.5	68	24	8	0.5	0.2	0.8
West Bank and Gaza	0	13	·							
Yemen, Rep.	4	202	6.6	161.7	95	1	4	1.5	0.2	116.0
Zambia	80	6,987	1.7	2.2	76	8	17	2.0	0.5	6.7
Zimbabwe	12	948	4.2	34.3	79	7	14	1.6	0.3	4.3
World	43,507 s	6,872 w		9.0 w	70 w	20 w	10 w	8.6 w	1.0 w	18.7
Low income	8,095	3,456	1,245.4	15.5	88	5	6	0.8	0.3	7.0
Middle income	25,971	8,611	1,662.3	6.4	71	19	10	3.3	0.6	19.0
Lower middle income	17,807	7,295	1,355.8	7.7	75	17	8	2.5	0.4	17.9
Upper middle income	8,164	14,190	306.4	3.8	53	28	19	7.2	1.4	23.7
Low & middle income	34,066	6,358	2,907.7	8.6	78	13	8	2.3	0.5	14.0
East Asia & Pacific	9,454	5,062	958.9	10.2	74	20	7	2.1	0.5	19.2
Europe & Central Asia	5,255	11,123	383.2	7.5	59	31	10	2.7	1.0	2.9
Latin America & Carib.	13,429	24,619	265.3	2.0	71	10	19	7.6	0.7	26.3
Middle East & N. Africa	228	761	239.8	105.0	89	4	7	2.0	0.3	24.7
South Asia	1,816	1,255	941.1	51.8	90	4	6	0.7	0.2	5.9
Sub-Saharan Africa	3,884	5,353	119.3	3.1	87	3	10	3.1	1.0	21.8
High income	9,441	9,703	899.7	10.4	43	43	15	28.2	2.7	33.6
Europe EMU	910	2,942	199.7	22.3	38	48	15	30.3	5.7	20.3

a. River flows from other countries are not included because of data unreliability. b. Data are for the most recent year available for 1987–2004 (see Primary data documentation).

The data on freshwater resources are based on estimates of runoff into rivers and recharge of groundwater. These estimates are based on different sources and refer to different years, so cross-country comparisons should be made with caution. Because the data are collected intermittently, they may hide significant variations in total renewable water resources from one year to the next. The data also fail to distinguish between seasonal and geographic variations in water availability within countries. Data for small countries and countries in arid and semiarid zones are less reliable than those for larger countries and countries with greater rainfall.

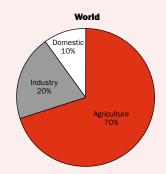
Caution is also needed in comparing data on annual freshwater withdrawals, which are subject to variations in collection and estimation methods. In addition, inflows and outflows are estimated at different times and at different levels of quality and precision, requiring caution in interpreting the data, particularly for water-short countries, notably in the Middle Fast.

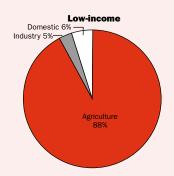
Water productivity is an indication only of the efficiency by which each country uses its water resources. Given the different economic structure of each country, these indicators should be used with proper caution, taking into account the countries' sectoral activities and natural resource endowments.

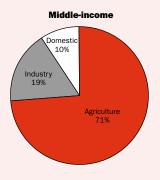
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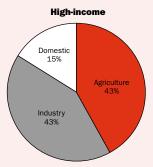
Agriculture uses 70 percent of freshwater globally

Share of annual freshwater withdrawals, most recent year available









Note: Components may not sum to 100 percent because of rounding

Source: Table 3.5.

Definitions

- · Renewable internal freshwater resources flows refer to internal renewable resources (internal river flows and groundwater from rainfall) in the country.
- Renewable internal freshwater resources per capita are calculated using the World Bank's population estimates (see table 2.1). • Annual freshwater withdrawals refer to total water withdrawals, not counting evaporation losses from storage basins. Withdrawals also include water from desalination plants in countries where they are a significant source. Withdrawals can exceed 100 percent of internal renewable resources because river flows from other countries are not included, because extraction from nonrenewable aquifers or desalination plants is considerable, or because there is significant water reuse. Withdrawals for agriculture and industry are total withdrawals for irrigation and livestock production and for direct industrial use (including withdrawals for cooling thermoelectric plants). Withdrawals for domestic uses include drinking water, municipal use or supply, and use for public services, commercial establishments, and homes. • Water productivity is calculated as GDP in constant prices divided by annual total water withdrawal. Sectoral water productivity is calculated as annual value added in agriculture or industry divided by water withdrawal in each sector.

Data sources

Data on freshwater resources and withdrawals are compiled by the World Resources Institute from various sources and published in World Resources 2005 (produced in collaboration with the United Nations Environment Programme, United Nations Development Programme, and World Bank). These data are supplemented by the Food and Agriculture Organization's AQUASTAT data.





Water pollution

Emissions of organic water pollutants Industry shares of emissions of organic water pollutants

	kilogi per 1990		pei	grams r day worker 2003^a	Primary metals 2003 ^a	Paper and pulp 2003 ^a	Chemicals 2003 ^a	% of Food and beverages 2003 ^a	total Stone, ceramics, and glass 2003 ^a	Textiles 2003 ^a	Wood 2003^a	Other 2003 ^a
Afghanistan	5,864	236	0.16	0.21		37.7	17.5	31.1	0.4	13.2		
Albania	34,785		0.14									
Algeria	106,977		0.25									
Angola	4,544		0.19									
Argentina	186,686	149,455	0.20	0.23	4.9	7.2	4.2	71.1	0.0	6.6	1.5	4.3
Armenia	37,900	7,104	0.11	0.28			0.0	77.6		22.4		
Australia	186,110	111,658	0.18	0.18			5.6	77.1	0.2	5.1	5.3	6.5
Austria	94,121	93,463	0.15	0.14	14.6	17.8	10.9	35.6	0.4	4.5	5.3	10.8
Azerbaijan	53,251	17,511	0.15	0.17	17.6	5.5	15.2	41.6	0.3	12.3	1.1	6.2
Bangladesh	171,087		0.17									
Belarus												
Belgium	117,978	102,460	0.16	0.17	13.7	18.0	12.0	40.4	0.2	6.0	2.0	7.5
Benin												
Bolivia	8,404	12,759	0.24	0.25	0.9	20.5	6.6	61.4	0.3	7.1	2.4	0.5
Bosnia and Herzegovina	50,741		0.14									
Botswana	4,509	5,204	0.19	0.18	2.0	7.2	5.1	55.7	0.3	25.8	1.5	2.2
Brazil	780,395		0.19	••••••			•••	•••				
Bulgaria	149,381	97,137	0.11	0.17	8.5	9.9	7.0	45.1	0.2	21.7	2.1	5.3
Burkina Faso		2,598		0.22	3.5	1.1	5.4	73.8	0.1	4.1	10.1	1.7
Burundi	1,570		0.24									
Cambodia	11,823		0.14									
Cameroon	13,989	10,714	0.28	0.20	3.1	6.3	28.3	52.7	0.0	3.6	5.6	0.2
Canada	321,471	313,431	0.17	0.16	9.7	22.8	8.3	38.5	0.1	6.1	5.2	9.1
Central African Republic	998		0.18									
Chad	330	••••		••••••			•	•••••	•		•	•••••
Chile	66,783	72,850	0.22	 0.24	6.9	 11.3	 8.9	 62.7	0.1	5.0	2.6	2.3
China	7,038,131		0.22	0.14	20.4	10.9	14.8	28.1	0.5	15.5	0.9	8.8
Hong Kong, China	86,124	38,698	0.12	0.21	1.4	41.6	3.4	34.5	-	14.4	0.2	4.3
Colombia	93,253	93,879	0.12	0.21	3.1	16.2	9.7	53.2	0.2	14.2	1.0	2.2
Congo, Dem. Rep.	······	93,619		••••••	•••••		•	•••••				
Congo, Rep.	 2,456	······································	 0.32	••	••		••		•••		••	
Costa Rica	27,249	 31,236	0.20	0.22	1.6	10.0	 8.2	 65.7	0.1	10.2	1.3	2.7
Côte d'Ivoire	7,874	31,230	0.22	••••••	.*	·· ·	•	•••••	•		•	•••••
Croatia	80,034	 42,734	0.22	 0.17	6.7	 15.3	 7.6	 47.5	0.2	 12.8	3.6	6.1
Cuba	172,973	42,734	0.25	• • • • • • • • • • • • • • • • • • • •		·· ·	•	••••••	•		•	•••••
Czech Republic	205,102	 158,462	0.23	 0.14	 15.6	7.0	7.9	 43.6	0.3	10.4	3.9	11.2
Denmark	91,871	83,591	0.18	0.17	4.4	29.1	7.9	44.2	0.2	2.2	3.5	8.3
Dominican Republic	47,900	65,591	0.16	0.17		23.1		44.2		2.2	J.J	0.5
Ecuador	25,567	 41,171	0.23	0.28	2.2	10.1	5.6	 73.7	 0.1	5.6	1.4	1.0
		•			•••••		•	•••••	•		•	•
Egypt, Arab Rep. El Salvador	211,531 7.663	186,059 22,760	0.20 <i>0.22</i>	0.20 0.18	10.8 2.1	8.2 10.2	9.0 8.1	50.7 43.5	0.3 0.1	17.7 34.1	0.6 0.5	2.5 1.2
Eritrea		•		••••••	*		•	•••••	•		•	•••••
***************************************	••	••		••				••		••		••
Estonia Ethiopia	 18,593	 22,085	0.23	 0.23	2.3	 11.0	5.5	 61 0	0.3	 17 2	2.0	0.4
		•		· * ······	•		•	61.0	•	17.3	•	•••••
Finland	79,514	68,819	0.18	0.16	9.0	39.6	6.6	27.7	0.2	2.6	4.0	10.1
France	653,455	281,747	0.15	0.10	14.7	31.0	23.0		0.3	9.0	2.8	19.1
Gabon Combin The	2,018	••	0.25							••		
Gambia, The	832		0.34	••				••		••		
Georgia		4 000 445										
Germany		1,020,145	0.12	0.14	9.0	20.9	11.3	38.7	0.2	2.8	2.5	14.5
Ghana	13,667	 EZ 470	0.17									
Greece	63,479	57,178	0.18	0.20	6.3	11.8	9.1	54.0	0.2	13.2	1.5	3.7
Guatemala	16,070	19,253	0.27	0.28	4.9	7.2	6.1	72.8	0.1	6.9	0.8	0.9
Guinea			••		••	••	••			••	••	••
Guinea-Bissau		•••		••					······································	····		
Haiti	5,427		0.20									

Water	pollutio

Emissions of organic	Industry shares of emissions
water pollutants	of organic water pollutants

				grams	Doi:	B			total Stone,			
	kilogr per c 1990			r day vorker 2003^a	Primary metals 2003 ^a	Paper and pulp 2003 ^a	Chemicals 2003 ^a	Food and beverages 2003 ^a	ceramics, and glass 2003 ^a	Textiles 2003 ^a	Wood 2003^a	Other 2003 ^a
Honduras	17,824		0.23									
Hungary	178,002	155,386	0.16	0.16	7.9	11.9	8.4	47.1	0.2	13.8	2.3	8.2
India	1,410,617	-	0.20	0.20	12.4	7.2	9.4	53.9	0.2	12.7	0.4	3.6
Indonesia	495,594	720,326	0.19	0.18	2.6	8.1	9.3	51.5		21.0	5.1	2.2
Iran, Islamic Rep.	102,689	141,982	0.16	0.16	17.2	7.1	10.8	43.8	0.6	12.5	0.8	7.0
Iraq	20,352		0.16									
Ireland	34,610	49,144	0.18	0.15	1.3	14.2	11.4	56.4	0.2	3.1	1.6	11.7
Israel	46,359	51,740	0.16	0.16	3.4	21.5	10.6	45.6	0.1	6.6	1.5	10.5
Italy	358,084	504,492	0.13	0.12	9.4	16.8	10.8	29.9	0.3	15.9	3.7	13.1
Jamaica	18,736		0.29									
Japan		1,279,287	0.14	0.15	7.0	21.9	9.0	43.2	0.2	5.0	1.6	12.0
Jordan	8,325	18,516	0.19	0.19	4.8	17.2	12.0	52.6	0.5	9.7	0.5	2.5
Kazakhstan			·····	·····						···	·····	
Kenya	42,588	54,246	0.23	0.25		11.8	5.7	69.0	0.1	9.9	1.8	1.5
Korea, Dem. Rep.		200 547										
Korea, Rep. Kuwait	369,193	309,517	0.12	0.12	11.4	18.2	12.9	26.0	0.2	14.4	1.4	15.4
	9,052	11,897	0.16	0.17	2.1	16.6	11.1	50.2	0.4	11.6	2.8	5.0
Kyrgyz Republic Lao PDR	30,885	20,801	0.12	0.21	8.5	5.9	3.3	65.6	0.3	11.6	1.0	3.6
Latvia	39,887	 29,166	0.12	0.19	 4.1	14.6	3.2	 55.4	0.1	9.8	9.4	3.2
Lebanon	39,001	14,899	0.12	0.19	0.9	15.6	4.0	60.7	0.5	10.2	4.6	3.3
Lesotho	2,958	3,123	0.16	0.16	1.2	4.0	0.7	39.7	0.1	51.3	0.6	2.2
Liberia	615		0.30					•••••			•	•
Libya								···				··········
Lithuania	53,818	37,477	0.13	0.18	1.0	10.3	5.1	54.8	0.2	18.3	6.1	4.0
Macedonia, FYR	32,419		0.18									
Madagascar	11,043		0.27									
Malawi	10,024	11,805	0.29	0.29	-	16.0	3.7	70.0	-	7.8	1.7	0.5
Malaysia	104,728	170,662	0.13	0.12	7.9	14.4	15.1	34.4	0.2	8.0	7.1	12.8
Mali												
Mauritania												
Mauritius	17,813	17,700	0.16	0.15	0.9	6.6	2.6	32.8	0.1	55.4	0.6	0.9
Mexico	174,266	296,093	0.18	0.20	7.8	12.5	10.4	55.6	0.2	7.5	0.9	4.9
Moldova	55,887	21,409	0.15	0.45		2.0		98.0				
Mongolia	10,160		0.18									
Morocco	41,710	69,060	0.14	0.16	2.2	8.6	6.4	42.1	0.3	36.3	1.2	2.7
Mozambique	20,414	10,230	0.27	0.31	1.1	7.1	2.7	81.2	0.1	5.8	1.4	0.3
Myanmar	7,663	6,159	0.17	0.18	56.5	4.6	13.2	14.9	0.4	2.9	1.7	5.6
Namibia	7,350		0.35									
Nepal	20,894	26,908	0.13	0.16	3.5	9.7	5.9	55.1	1.4	21.7	1.7	0.8
Netherlands	136,686	124,182	0.18	0.18	7.3	26.7	11.3	43.0	0.2	2.3	1.2	7.8
New Zealand Nicaragua	50,243	46,099	0.22 <i>0.27</i>	0.22	3.2	21.7	5.2	57.3	0.1	4.6	3.6	4.1
Niger	10,465						••	••		••		••
Nigeria	52,350	····	 0.23			••	••	·	······································	·•		••••••
Norway	54,996	51,693	0.20	0.19	9.0	31.3	4.7	42.8	0.1	1.4	3.1	7.4
Oman	360	5,739	0.11	0.17	7.3	13.4	10.2	54.0	0.9	8.4	2.4	3.2
Pakistan	104,095		0.18									
Panama	9,700	11,692	0.26	0.32	1.5	13.2	4.6	76.6	0.2	3.2	0.4	
Papua New Guinea	5,729		0.25									
Paraguay	3,250		0.28									
Peru	56,144		0.20									
Philippines	228,301		0.21				••					
Poland	428,894	416,934	0.14	0.16	12.8	11.4	6.3	45.4	0.4	12.7	3.4	7.4
Portugal	147,873	133,570	0.15	0.14	3.9	15.8	4.9	36.2	0.4	26.5	5.5	6.7
Puerto Rico	19,026	15,367	0.15	0.14	1.9	14.9	21.9	34.4	0.2	15.5	1.4	9.7



3.6 Water pollution

Emissions of organic Industry shares of emissions water pollutants of organic water pollutants

% of total kilograms Stone, kilograms per day Primary Paper and Food and ceramics, Other metals per day per worker alua Chemicals and glass Textiles Wood beverages 1990 2003a 1990 2003a 2003a 2003⁸ 2003a 2003a 2003a 2003a 2003^a 2003^a 0.12 Romania 413,864 38,395 0.07 17.6 5.1 28.7 12.5 36.0 Russian Federation 1,911,348 1,518,704 0.13 0.16 18.1 7.7 8.6 48.0 0.4 5.9 2.5 8.6 Rwanda 1,624 0.25 Saudi Arabia 18.476 0.15 Senegal 10,309 6,603 0.32 0.30 5.8 8.4 10.7 70.1 0.1 4.2 0.4 Serbia and Montenegro 137,795 98,696 0.15 0.16 9.9 11.8 8.2 47.4 0.3 12.7 2.2 7.3 Sierra Leone 4,170 0.32 25.9 16.2 22.8 0.1 27.7 Singapore 32,364 33,644 0.09 0.09 1.3 4.1 1.8 Slovak Republic 77,174 45,011 0.13 0.14 4.2 15.0 8.4 44.2 0.4 15.0 1.7 11.0 55,640 Slovenia 38,390 0.16 0.16 33.7 14.7 8.3 23.7 0.2 10.8 2.0 6.4 Somalia 6,177 0.38 261,618 18.0 10.5 36.0 0.1 3.9 5.3 South Africa 221,256 0.17 0.18 15.1 10.9 19.8 320,262 374,589 0.15 6.7 8.9 42.5 0.3 4.0 Spain 0.17 9.3 8.3 Sri Lanka 53,024 88,943 0.19 0.18 0.5 7.0 6.4 52.3 0.2 31.2 1.1 1.1 Sudan Swaziland 6,586 0.33 109,582 103,913 0.15 0.14 35.0 7.8 26.6 3.0 14.8 Sweden 11.3 0.1 1.3 Switzerland 146,038 0.16 3.9 69.8 0.2 Syrian Arab Republic 21,702 15,115 0.22 0.20 4.1 1.5 0.9 19.4 Tajikistan Tanzania 31,125 35,155 0.24 0.25 1.5 9.4 2.7 69.3 0.1 14.0 1.5 1.3 Thailand 291,552 0.17 Togo 9,951 7,945 6.5 11.9 0.2 2.0 Trinidad and Tobago 0.26 0.23 18.8 55.3 3.8 1.3 Tunisia 44,551 54,191 0.18 0.14 2.8 6.5 6.7 35.6 0.4 41.9 1.9 4.1 Turkey 177,264 188,199 0.18 0.16 11.5 7.3 7.7 42.6 0.3 24.4 1.4 4.6 Turkmenistan Uganda 16,728 0.30 Ukraine 692,373 445,758 0.14 0.18 28.1 4.2 7.0 46.8 0.4 5.4 1.1 6.8 United Arab Emirates 5,638 0.14 739,562 615,410 0.15 0.15 6.7 28.5 11.4 33.8 0.2 5.5 2.5 11.3 United Kingdom **United States** 2.565.226 1.897.480 0.15 0.13 9.8 10.9 13.8 40.3 0.2 6.3 4.1 14.5 38,661 16,362 0.23 0.28 1.2 7.2 6.7 75.9 8.2 0.6 Uruguay 0.1 Uzbekistan Venezuela, RB 96,495 94,175 0.21 0.21 13.7 10.4 10.2 53.1 0.3 7.5 1.5 3.1 Vietnam West Bank and Gaza Yemen, Rep. 6,873 13,082 0.27 0.22 5.1 7.6 76.0 0.5 7.6 1.3 1.7 Zambia 15,880 0.23

Note: Industry shares may not sum to 100 percent because data may be for different years.

0.20

37,149

Zimbabwe

a. Data refer to any year from 1993 to 2003.

Emissions of organic pollutants from industrial activities are a major cause of degradation of water quality. Water quality and pollution levels are generally measured in terms of concentration or load-the rate of occurrence of a substance in an aqueous solution. Polluting substances include organic matter, metals, minerals, sediment, bacteria, and toxic chemicals. This table focuses on organic water pollution resulting from industrial activities. Because water pollution tends to be sensitive to local conditions, the national-level data in the table may not reflect the quality of water in specific locations.

The data in the table come from an international study of industrial emissions that may be the first to include data from developing countries (Hettige, Mani, and Wheeler 1998). These data were updated through 2003 by the World Bank's Development Research Group. Unlike estimates from earlier studies based on engineering or economic models, these estimates are based on actual measurements of plant-level water pollution. The focus is on organic water pollution caused by organic waste, measured in terms of biochemical oxygen demand (BOD), because the data for this indicator are the most plentiful and the most reliable for cross-country comparisons of emissions. BOD measures the strength of an organic waste by the amount of oxygen consumed in breaking it down. A sewage overload in natural waters exhausts the water's dissolved oxygen content. Wastewater treatment, by contrast, reduces BOD.

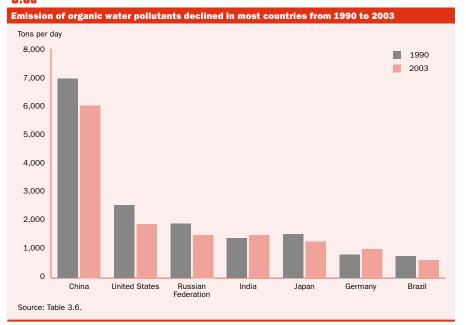
Data on water pollution are more readily available than other emissions data because most industrial pollution control programs start by regulating emissions of organic water pollutants. Such data are fairly reliable because sampling techniques for measuring water pollution are more widely understood and much less expensive than those for air pollution.

Hettige, Mani, and Wheeler (1998) used plant- and sector-level information on emissions and employment from 13 national environmental protection agencies and sector-level information on output and employment from the United Nations Industrial Development Organization (UNIDO). Their econometric analysis found that the ratio of BOD to employment in each industrial sector is about the same across countries. This finding allowed the authors to estimate BOD loads across countries and over time. The estimated BOD intensities per unit of employment were multiplied by sectoral employment numbers from UNIDO's industry database for 1980-98. The estimates of sectoral emissions were then totaled to get daily emissions of organic water pollutants in kilograms per day for each country and year. The data in the table were derived by updating these estimates through 2003.

Definitions

• Emissions of organic water pollutants are measured in terms of biochemical oxygen demand, which refers to the amount of oxygen that bacteria in water will consume in breaking down waste. This is a standard water treatment test for the presence of organic pollutants. Emissions per worker are total emissions divided by the number of industrial workers. • Industry shares of emissions of organic water pollutants refer to emissions from manufacturing activities as defined by two-digit divisions of the International Standard Industrial Classification (ISIC) revision 2: primary metals (ISIC division 37); paper and pulp (34); chemicals (35); food and beverages (31); stone, ceramics, and glass (36); textiles (32); wood (33); and other (38 and 39).

3.6a



Data sources

Data on water pollution come from a 1998 study by Hemamala Hettige, Muthukumara Mani, and David Wheeler, "Industrial Pollution in Economic Development: Kuznets Revisited" (available at www.worldbank.org/nipr). The data were updated through 2003 by the World Bank's Development Research Group using the same methodology as the initial study. Sectoral employment numbers are from UNIDO's industry database.





Energy production and use

	Total e produ						ergy ise					nergy orts ^a
	oil equ	tons of ivalent	thou metric oil equ	tal sand tons of ivalent	rene and % o	oustible wables waste f total	average annual % growth	equiv	Per capita ms of oil valent	average annual % growth	energ	of gy use
	1990	2003	1990	2003	1990	2003	1990-2003	1990	2003	1990-2003	1990	2003
Afghanistan												
Albania	2,449	899	2,662	2,084	13.6	6.8	-1.9	809	674	-1.4	8	57
Algeria	104,439	163,271	23,858	32,998	0.1	0.2	2.5	943	1,036	0.7	-338	-395
Angola	28,652	50,730	6,280	9,115	68.8	66.4	2.9	596	606	0.1	-356	-457
Argentina	48,456	84,318	46,110	59,851	3.7	5.3	2.0	1,415	1,575	0.8	-5	-41
Armenia	263	692	4,298	2,004	0.0	0.1		1,246	660		94	65
Australia	157,712	253,534	87,536	112,645	4.5	4.4	1.9	5,130	5,668	0.8	-80	-125
Austria	8,104	10,025	25,026	33,183	9.9	11.1	2.2	3,246	4,086	1.8	68	70
Azerbaijan	18,150	19,826	16,675	12,290	0.0	0.0		2,259	1,493		-9	-61
Bangladesh	10,758	17,532	12,826	21,682	53.5	36.9	4.0	123	159	1.9	16	19
Belarus	4,103	3,497	39,703	25,797	1.5	4.2		3,886	2,613		90	86
Belgium	12,481	13,381	49,109	59,157	1.4	2.0	1.4	4,927	5,701	1.1	75	77
Benin	1,774	1,584	1,678	2,310	93.2	68.6	2.5	324	292	-0.8	-6	31
Bolivia	4,923	7,728	2,774	4,451	27.2	16.2	3.6	416	504	1.5	-77	-74
Bosnia and Herzegovina	3,642	3,109	4,474	4,453	3.6	4.2		1,130	1,137		19	30
Botswana												
Brazil	97.554	171,139	133,469	193,245	30.8	25.9	2.9	893	1,065	1.4	27	11
Bulgaria	9,613	10,062	28,820	19,510	0.6	3.6	-3.0	3,306	2,494	-2.2	67	48
Burkina Faso	3,013	10,002	20,020	10,010	0.0	5.0	·············	3,300	2,454		01	•
Burundi			••	••••					······································			
Cambodia	••	•••	••				••		••	••	••	••
Cameroon	12,090	 12,135	5,032	6,754	75.9	 78.8	2.3	432	429	-0.1	-140	-80
Canada	273,695	385,291	209,104	260,641	3.9	4.5	1.7	7,524	8,240	0.7	-31	-48
	213,095	365,291	209,104	200,041	3.9	4.5	1.7	1,324	0,240		-31	-40
Central African Republic	••							·····			······································	
Chad	7.000								4 6 4 7			
Chile	7,638	8,336	14,064	26,268	19.0	15.4	4.8	1,067	1,647	3.3	46	68
China	902,689	1,380,786	879,923	1,409,377	22.8	15.5	3.6	775	1,094	2.7	-3	2
Hong Kong, China	43	48	10,662	16,515	0.5	0.3	3.4	1,869	2,428	2.0	100	100
Colombia	48,479	74,363	25,048	28,371	23.2	17.4	1.0	716	642	-0.9	-94	-162
Congo, Dem. Rep.	12,019	16,547	11,903	15,884	84.0	93.5	2.2	315	293	-0.6	-1	-4
Congo, Rep.	9,005	12,112	1,056	1,028	69.4	62.1	-0.2	425	273	-3.4		-1,078
Costa Rica	1,032	1,626	2,025	3,675	36.6	8.2	4.6	658	880	2.2	49	56
Côte d'Ivoire	3,382	6,690	4,408	6,577	72.1	65.7	3.1	348	374	0.5	23	-2
Croatia	4,346	3,745	6,714	8,779	3.8	4.3		1,502	1,976		35	57
Cuba	6,271	6,661	16,535	11,216	33.7	22.3	-3.0	1,569	1,000	-3.5	62	41
Czech Republic	38,474	33,002	47,379	44,117	1.2	2.7	-0.6	4,572	4,324	-0.4	19	25
Denmark	9,996	28,498	17,847	20,755	6.4	10.7	1.2	3,472	3,853	0.8	44	-37
Dominican Republic	1,031	1,546	4,139	7,971	24.2	18.1	5.0	584	923	3.5	75	81
Ecuador	16,474	23,617	6,128	9,105	13.5	7.1	3.1	597	708	1.3	-169	-159
Egypt, Arab Rep.	54,869	60,998	31,895	52,356	3.3	2.6	3.8	573	735	1.9	-72	-17
El Salvador	1,722	2,390	2,535	4,487	48.2	32.1	4.4	496	675	2.4	32	47
Eritrea												
Estonia	4,118	3,661	6,271	4,915	2.9	10.6		4,091	3,631		34	26
Ethiopia	14,158	18,903	15,151	20,509	92.9	91.2	2.3	296	299	0.1	7	8
Finland	12,081	15,976	29,171	37,554		19.5	1.9	5,851	7,204	1.6	59	57
France	111,445	136,003	227,282	271,287	4.9	4.4	1.4	4,006	4,519	0.9	51	50
Gabon	14,630	12,418	1,243	1,685	59.8	58.8	2.3	1,298	1,256		-1,077	-637
Gambia, The												
Georgia	1,470	1,376	8,757	2,727	7.7	23.7		1,642	597		83	50
Germany	186,159	134,520	356,221	347,118	1.4	2.8	-0.2	4,485	4,205	-0.5	48	61
Ghana	4,392	5,991	5,337	8,493	73.1	66.6	3.6	345	400	1.2	18	29
Greece	9,200	9,915	22,181	29,887	4.0	3.3	2.3	2,183	2,709	1.7	59	67
Guatemala	3,390	5,469	4,478	7,293		53.3	3.8	504	608	1.5	24	25
Guinea	•••••••••••	•		•	01.0		··•···········			···•		•
Guinea-Bissau						••		••			••	••
•	1 252	1 672	1 585	2 227	76 5	72 0	27	221	270	1 2		 25
Haiti	1,253	1,673	1,585	2,237	10.5	73.8	2.7	231	210	1.2	21	25

Energy production and use

	7
-5	
U	

	Total e produc						ergy ise					energy ports ^a
	thous metric t oil equi	ons of	Tot: thous metric t oil equi	and ons of	rene and	bustible wables waste of total	average annual % growth	_	Per capita ns of oil valent	average annual % growth	1	% of rgy use
	1990	2003	1990	2003	1990		1990-2003	1990	2003	1990-2003		
Honduras	1,694	1,659	2,416	3,597	62.0	40.9	3.1	496	522	0.4	30	54
Hungary	14,325	10,411	28,553	26,341	1.3	3.1	-0.6	2,755	2,600	-0.4	50	60
India	334,056	453,147	365,377	553,390	48.1	38.2	3.2	430	520	1.5	9	18
Indonesia	162,556	249,955	96,085	161,553	38.8	26.8	4.0	539	753	2.6	-69	-55
Iran, Islamic Rep.	179,738	265,400	68,775	136,443	1.0	0.6	5.3	1,264	2,055	3.7	-161	-95
Iraq	104,933	68,448	19,060	25,750	0.1	0.1	2.3	1,029	•••		-451	-166
Ireland	3,467	1,896	10,424	15,092	1.0	1.1	2.9	2,973	3,777	1.8	67	87
Israel	433	751	12,112	20,638	0.0	0.0	4.1	2,599	3,086	1.3	96	96
Italy	25,312	27,660	148,031	181,026	0.6	1.7	1.6	2,610	3,140	1.4	83	85
Jamaica	485	468	2,943	4,059	16.2	11.3	2.5	1,231	1,543	1.7	84	88
Japan	75,745	84,643	445,336	517,103	1.3	1.3	1.2	3,605	4,053	0.9	83	84
Jordan	162	285	3,498	5,450	0.1	0.1	3.4	1,103	1,027	-0.6	95	95
Kazakhstan	89,007	105,522	79,661	49,829	0.1	0.2		4,846	3,342		-12	-112
Kenya	10,272	13,492	12,479	16,170	78.4	77.5	2.0	533	494	-0.6	18	17
Korea, Dem. Rep.	28,725	18,760	32,874	19,944	2.9	5.1	-3.8	1,670	896	-4.8	13	6
Korea, Rep.	21,908	36,920	92,650	205,300	0.3	0.4	6.1	2,161	4,291	5.3	76	82
Kuwait	50,401	120,722	8,110	22,924	0.1		8.0	3,816	9,566	7.1	-521	-427
Kyrgyz Republic	1,818	1,366	5,066	2,661	0.1	0.2		1,114	528		64	49
Lao PDR												
Latvia	794	1,977	4,258	4,375	13.2	28.9		1,618	1,881		81	55
Lebanon	143	251	2,309	5,956	4.5	2.1	7.3	842	1,700	5.4	94	96
Lesotho	••	••										
Liberia												
Libya	73,173	77,498	11,541	17,963	1.1	0.8	3.4	2,663	3,191	1.4	-534	-331
Lithuania	4,298	5,216	11,017	8,930	2.6	7.6		2,978	2,585		61	42
Macedonia, FYR		••										
Madagascar						••						
Malawi												
Malaysia	48,753	83,843	22,637	56,655	9.4	4.6	7.1	1,269	2,318	4.6	-115	-48
Mali												
Mauritania												
Mauritius												
Mexico	194,783	242,511	124,341	159,935	5.9	5.1	1.9	1,494	1,564	0.4	-57	-52
Moldova	58	61	6,884	3,267	0.5	1.8		1,575	772		99	98
Mongolia		••										
Morocco	773	637	6,725	10,891	4.7	4.1	3.7	281	378	2.3	89	94
Mozambique	6,846	7,990	7,203	8,198	94.4	86.1	1.0	536	430	-1.7	5	3
Myanmar	10,651	18,345	10,683	13,673	84.4	73.5	1.9	262	276	0.4	0	-34
Namibia	218	308	652	1,262		14.5		449	635		67	76
Nepal	5,501	7,795	5,806	8,751	93.4	86.8	3.2	304	336	0.8	5	11
Netherlands	60,447	58,465	66,623	80,829	1.3	2.4	1.5	4,456	4,982	0.9	9	28
New Zealand	12,019	13,171	13,769	17,372	4.0	4.8	1.8	3,993	4,333	0.6	13	24
Nicaragua	1,495	1,805	2,118	3,099	53.3	49.9	2.9	535	588	0.7	29	42
Niger												
Nigeria	150,453	214,580	70,905	97,789	79.8	79.4	2.5	783	777	-0.1	-112	-119
Norway	120,304	233,205	21,492	23,347	4.8	6.6	0.6	5,067	5,100	0.1	-460	-899
Oman	38,313	59,824	4,562	12,492			7.8	2,475	4,975	5.4	-740	-379
Pakistan	34,360	55,494	43,424	69,309		37.3	3.6	402	467	1.2	21	20
Panama	612	689	1,490	2,607	28.3	17.1	4.3	618	836	2.3	59	74
Papua New Guinea												
Paraguay	4,578	6,623	3,083	3,989	72.3	54.4	2.0	731	679	-0.6	-48	-66
Peru	10,596	9,444	9,952	12,003		18.7	1.4	457	442	-0.3	-6	21
Philippines	13,701	22,503	26,159	42,124		24.5	3.7	428	525	1.6	48	47
Poland	99,228	79,969	99,847	93,666	2.2	5.6	-0.5	2,619	2,452	-0.5	1	15
Portugal	3,393	4,340	17,746	25,778		11.0	2.9	1,793	2,469	2.5	81	83



3.7 Energy production and use

	Total energy production thousand metric tons of oil equivalent			Energy use								
			Total thousand metric tons of oil equivalent		Combustible renewables and waste % of total		average annual % growth	Per capita kilograms of oil equivalent		average annual % growth	% of energy use	
	1990	2003	1990	2003	1990	2003	1990-2003	1990	2003	1990-2003	1990	2003
Romania	40,834	28,927	62,403	39,009	1.0	7.5	-3.6	2,689	1,794	-3.1	35	26
Russian Federation	1,118,707	1,106,924	774,823	639,717	1.6	1.0		5,211	4,424		-44	-73
Rwanda						••						
Saudi Arabia	376,342	533,664	64,976	130,783	0.0	0.0	5.4	3,967	5,607	2.7	-479	-308
Senegal	1,362	1,744	2,238	3,193	60.6	53.0	2.7	281	287	0.2	39	45
Serbia and Montenegro	11,835	11,474	15,002	16,235	5.0	4.9		1,435	1,991		21	29
Sierra Leone												
Singapore		140	13,357	22,427			4.0	4,384	5,359	1.5		99
Slovak Republic	5,281	6,401	21,434	18,521	0.8	1.9	-1.1	4,057	3,443	-1.3	75	65
Slovenia	2,765	3,285	5,008	7,021	1.9	6.7		2,508	3,518		57	53
Somalia	·-		<u></u>									
South Africa	114,534	154,480	91,229	118,566	11.4	11.1	2.0	2,592	2,587	0.0	-26	-30
Spain	34,513	32,995	91,073	136,102	4.5	3.5	3.1	2,345	3,240	2.5	62	76
Sri Lanka	4,191	4,294	5,516	8,110	71.0	49.5	3.0	324	421	2.0	24	47
Sudan	8,775	26,974	10,642	16,615	81.7	80.6	3.4	408	477	1.2	18	-62
Swaziland												
Sweden	29,754	31,664	47,566	51,532	11.6	17.1	0.6	5,557	5,754	0.3	37	39
Switzerland	9,830	11,999	25,105	27,075	4.1	6.2	0.6	3,740	3,689	-0.1	61	56
Syrian Arab Republic	22,319	33,989	11,677	17,882	0.0	0.0	3.3	909	986	0.6	-91	-90
Tajikistan	1,553	1,450	9,087	3,187				1,647	501		83	55
Tanzania	9,063	16,027	9,808	17,154	91.0	92.0	4.3	374	465	1.7	8	7
Thailand	26,496	48,255	43,860	88,762	33.4	16.5	5.4	803	1,406	4.3	40	46
Togo	1,203	1,873	1,447	2,598	82.6	71.3	4.5	365	445	1.5	17	28
Trinidad and Tobago	12,612	28,842	6,037	11,096	0.8	0.2	4.7	4,968	8,553	4.2	-109	-160
Tunisia	6,127	6,452	5,536	8,240	18.7	12.7	3.1	679	837	1.6	-11	22
Turkey	25,857	23,635	53,005	78,954	13.6	7.3	3.1	944	1,117	1.3	51	70
Turkmenistan	48,822	58,551	11,314	17,203				2,912	3,662		-332	-240
Uganda												
Ukraine	110,170	75,537	218,376	132,555	0.1	0.2		4,187	2,772		50	43
United Arab Emirates	109,446	159,162	19,618	39,226	0.2	0.0	5.3	11,065	9,707	-1.0	-458	-306
United Kingdom	207,007	246,083	212,176	231,954	0.3	1.2	0.7	3,686	3,893	0.4	2	-6
United States	1,650,464	1,631,383	1,927,628	2,280,791	3.2	3.0	1.3	7,722	7,843	0.1	14	28
Uruguay	1,149	1,161	2,251	2,519	24.3	17.0	0.9	725	738	0.1	49	54
Uzbekistan	40,461	55,735	44,994	52,254				2,092	2,023		10	-7
Venezuela, RB	148,854	179,622	43,918	54,227	1.2	1.0	1.6	2,224	2,112	-0.4	-239	-231
Vietnam	24,711	54,528	24,324	44,260	77.7	53.0	4.6	367	544	3.0	-2	-23
West Bank and Gaza				·····				···				
Yemen, Rep.	9,384	21,895	2,543	5,697	3.0	1.4	6.2	210	289	2.5	-269	-284
Zambia	4,923	6,352	5,470	6,688	73.4	80.8	1.6	653	592	-0.8	10	5
Zimbabwe	8,550	8,532	9,384	9,668		60.5	0.2	888	752	-1.3	9	12
World			8,615,951 t					1,685 v	•		-2	
Low income	816,190	1,148,130	793,735	1,107,697		48.9	2.6	464	501	0.6	-3	-4
Middle income	4,378,339	5,234,462	3,499,414	4,114,859	11.6	10.8	1.3	1,349	1,373	0.1	-25	-27
Lower middle income	2,198,061	3,004,295	1,987,670	2,639,085	17.4	14.6	2.2	953	1,090	1.0	-11	-14
Upper middle income	2,181,284	2,230,191	1,511,828	1,474,925	3.8	3.9	-0.2	2,980	2,574	-1.1	-44	-51
Low & middle income	5,190,966	6,370,660	4,284,003	5,204,041		18.2	1.5	1,008	1,014	0.0	-21	-22
East Asia & Pacific	1,229,840	1,894,782	1,147,328	1,853,770	*	17.7	3.7	722	1,007	2.6	-7	-2
Europe & Central Asia	1,890,157	1,659,437	1,736,190	1,318,474	1.9	2.4	-2.1	3,726	2,794	-2.2	-9	-26
Latin America & Carib.	617,444	865,000	459,196	617,665	18.1	15.0	2.3	1,050	1,148	0.7	-34	-40
Middle East & N. Africa	601,905	768,565	194,412	336,326	1.8	1.3	4.2	861	1,144	2.2	-210	-129
South Asia	392,146	542,802	436,601	666,820	48.7	38.8	3.3	394	474	1.4	10	19
Sub-Saharan Africa	489,789	693,529	321,812	435,623	56.7	57.4	2.3	693	681	-0.1	-52	-59
High income	3,654,490	4,351,438	4,363,308	5,377,597	2.9	3.0	1.6	4,842	5,410	0.9	16	19
Europe EMU	466,633	445,236	1,046,458	1,221,275	3.1	3.9	1.2	3,568	3,964	0.8	55	64

a. A negative value indicates that a country is a net exporter.

In developing countries growth in energy use is closely related to growth in the modern sectors—industry, motorized transport, and urban areas—but energy use also reflects climatic, geographic, and economic factors (such as the relative price of energy). Energy use has been growing rapidly in low- and middle-income countries, but high-income countries still use more than five times as much energy on a per capita basis.

Energy data are compiled by the International Energy Agency (IEA). IEA data for countries that are not members of the Organisation for Economic Cooperation and Development (OECD) are based on national energy data adjusted to conform to annual questionnaires completed by OECD member governments.

Total energy use refers to the use of primary energy before transformation to other end-use fuels (such as electricity and refined petroleum products). It includes energy from combustible renewables and waste—solid biomass and animal products, gas and liquid from biomass, and industrial and municipal waste. Biomass is defined as any plant matter used directly as fuel or converted into fuel, heat, or electricity. (The data series published in World Development Indicators 1998 and earlier editions did not include energy from combustible renewables and waste.) Data for combustible renewables and waste are often based on small surveys or other incomplete information. Thus the data give only a broad impression of developments and are not strictly comparable between countries. The IEA reports (see Data sources) include country notes that explain some of these differences. All forms of energy-primary energy and primary electricity—are converted into oil equivalents. To convert nuclear electricity into oil equivalents, a notional thermal efficiency of 33 percent is assumed; for hydroelectric power 100 percent efficiency is assumed.

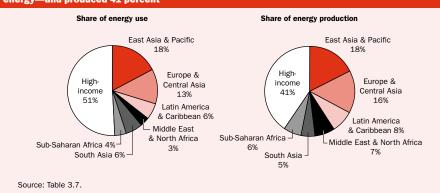
The IEA makes these estimates in consultation with national statistical offices, oil companies, electricity utilities, and national energy experts. The IEA occasionally revises its time series to reflect political changes. Since 1990, for example, it has constructed energy statistics for countries of the former Soviet Union. In addition, energy statistics for other countries have undergone continuous changes in coverage or methodology as more detailed energy accounts have become available in recent years. Breaks in series are therefore unavoidable.

Definitions

. Total energy production refers to forms of primary energy—petroleum (crude oil, natural gas liquids, and oil from nonconventional sources), natural gas, solid fuels (coal, lignite, and other derived fuels), and combustible renewables and waste-and primary electricity, all converted into oil equivalents (see About the data). • Energy use refers to use of primary energy before transformation to other end-use fuels, which is equal to indigenous production plus imports and stock changes, minus exports and fuels supplied to ships and aircraft engaged in international transport (see About the data). • Combustible renewables and waste comprise solid biomass, liquid biomass, biogas, industrial waste, and municipal waste, measured as a percentage of total energy use. • Net energy imports are estimated as energy use less production, both measured in oil equivalents.

3.7a





Data sources

Data on energy production and use come from IEA electronic files. The IEA's data are published in its annual publications, *Energy Statistics and Balances of Non-OECD Countries*, *Energy Statistics of OECD Countries*, and *Energy Balances of OECD Countries*.





Energy efficiency and emissions

	GDP per unit of energy use		Carbon dioxide emissions						Methane emissions		Nitrous oxide emissions	
	per kil	PPP \$ logram juivalent 2003	Tot million me 1990			capita ic tons 2002	2000	nms per PPP \$ GDP 2002	million metric tons of carbon dioxide equivalent 2000	% change 1990–2000	thousand metric tons of carbon dioxide equivalent 2000	
Afghanistan			2.6	0.6	0.2				13.2	53.5	7,482	33.8
Albania	3.8	6.4	7.3	2.6	2.2	0.8	0.7	0.2	0.5	-37.5	52	-5.5
Algeria	5.7	5.6	77.0	92.0	3.0	2.9	0.6	0.5	28.5	40.4	9,196	14.2
Angola	3.7	3.1	4.7	7.7	0.4	0.5	0.2	0.3	15.8	16.2	6,135	20.0
Argentina	6.4	7.2	109.7	133.1	3.4	3.5	0.4	0.3	86.7	7.4	63,384	12.0
Armenia	1.6	5.2	3.7	2.9	1.1	1.0	0.5	0.3	2.8	-20.0	291	-41.1
Australia	4.0	4.8	272.2	355.8	16.0	18.1	0.8	0.7	113.2	0.5	26,974	33.7
Austria	7.1	7.2	57.7	63.6	7.5	7.9	0.3	0.3	9.7	-16.4	2,802	9.8
Azerbaijan		2.3	47.1	28.0	6.4	3.4		1.1	11.9	-23.7	782	-42.2
Bangladesh	9.8	10.4	15.4	34.5	0.2	0.3	0.1	0.2	47.6	8.9	44,800	37.0
Belarus	1.2	2.2	94.6	59.9	9.3	6.0	2.0	1.1	21.6	-10.7	8,318	-34.3
Belgium	4.7	4.9	100.6	91.5	10.1	8.9	0.4	0.3	11.7	-4.1	13,282	0.9
Benin	2.6	3.5	0.7	1.9	0.1	0.3	0.2	0.3	3.3	22.2	2,704	27.4
Bolivia	5.1	4.9	5.5	10.1	0.8	1.2	0.4	0.5	21.3	11.5	5,824	-0.9
Bosnia and Herzegovina	••	5.3	4.7	18.6	1.2	4.7		0.8	1.4	-30.0	556	-51.1
Botswana Brazil	7.3		2.2	4.1	1.5 1.4	2.3 1.8	0.3	0.3 0.2	7.0	12.9 9.1	4,842	9.8 10.9
	2.1	6.9 2.8	202.6 75.3	313.2 41.9	8.6	5.3	0.2 1.2	0.2	297.2 10.0	-63.0	207,696 18,483	-22.4
Bulgaria Burkina Faso	····•	•	1.0	41.9	0.1	0.1	0.1	0.8	8.8	20.6	11,733	-22.4 23.1
Burundi			0.2	0.3	0.0	0.0	0.0	0.1	1.8	20.0	1,212	9.1
Cambodia			0.5	0.6	0.0	0.0	0.0	0.0	68.0	10.4	105	36.4
Cameroon	4.7	4.6	1.6	3.5	0.1	0.2	0.1	0.1	11.8	12.4	9,821	18.5
Canada	3.0	3.4	415.8	516.3	15.0	16.5	0.7	0.6	123.4	57.6	57,464	9.2
Central African Republic			0.2	0.3	0.1	0.1	0.1	0.1	6.6	15.8	5,055	18.1
Chad			0.1	0.1	0.0	0.0	0.0	0.0	9.6	15.7	8,699	21.6
Chile	5.5	5.9	35.3	57.2	2.7	3.6	0.5	0.4	14.5	15.1	7,474	35.6
China	2.1	4.5	2,398.9	3,507.4	2.1	2.7	1.3	0.6	802.9	18.1	644,725	23.8
Hong Kong, China	10.6	10.9	26.2	35.4	4.6	5.2	0.2	0.2				
Colombia	8.4	10.1	56.8	57.3	1.6	1.3	0.3	0.2	55.5	11.7	41,220	48.0
Congo, Dem. Rep.	5.0	2.1	4.0	1.8	0.1	0.0	0.1	0.1	32.9	5.8	17,186	-0.3
Congo, Rep.	2.3	3.3	1.2	2.3	0.5	0.6	0.5	0.7	3.2	18.5	1,031	25.7
Costa Rica	9.7	9.9	2.9	5.8	1.0	1.4	0.2	0.2	3.6	-2.7	3,555	-9.9
Côte d'Ivoire	5.2	3.8	5.4	6.4	0.4	0.4	0.2	0.3	6.5	20.4	2,892	17.7
Croatia	5.0	5.6	16.8	21.1	3.8	4.8	0.5	0.5	3.8	-5.0	3,363	-12.1
Cuba			32.1	23.6	3.0	2.1			9.1	-8.1	9,288	-33.3
Czech Republic	3.1	3.9	135.4	114.4	13.1	11.2	1.0	0.7	10.8	-34.9	8,186	-48.1
Denmark	6.9	7.5	49.8	47.5	9.7	8.9	0.4	0.3	6.0	-3.2	9,331	-15.3
Dominican Republic	7.1	7.4	9.6	21.5	1.4	2.5	0.3	0.4	5.9	11.3	4,287	3.6
Ecuador	5.9	4.9	16.6	24.8	1.6	2.0	0.5	0.6	16.2	18.3	2,878	-2.7
Egypt, Arab Rep.	5.1	5.2	75.4	143.5	1.4	2.1	0.5	0.6	34.3	40.6	15,965	39.4
El Salvador	7.3	6.9	2.6	6.2 0.7	0.5	1.0 0.2	0.1	0.2 0.2	3.2 0.0	18.5	2,208	6.7
Eritrea Estonia	1.6	3.4	 24.9	15.9	 16.2	11.7	 2.4	1.0	2.4	-44.2	444	-57.8
Ethiopia	2.1	2.1	3.0	6.2	0.1	0.1	0.1	0.1	47.5	20.3	12,170	-57.8 65.9
Finland	3.8	3.7	51.2	62.6	10.3	12.0	0.5	0.1	47.3	-33.9	7,302	-14.9
France	5.5	5.7 5.9	362.4	367.7	6.4	6.2	0.3	0.3	59.3	-33.9 -11.0	72,265	-14.9 -16.5
Gabon	4.8	4.9	6.0	3.5	6.3	2.6	1.0	0.2	3.8	22.6	1,847	-0.4
Gambia, The			0.2	0.3	0.2	0.2	0.1	0.4	0.7	16.7	506	3.1
Georgia	1.2	4.1	15.1	3.3	2.8	0.7	1.4	0.3	4.4	-18.5	1,129	-44.4
Germany	4.7	6.1	980.6	850.0	12.3	10.3	0.6	0.4	62.7	-44.2	60,468	-32.1
Ghana	4.6	5.0	3.8	7.5	0.2	0.4	0.2	0.2	7.1	34.0	7,431	63.8
Greece	6.7	7.3	72.2	94.0	7.1	8.5	0.5	0.5	10.9	23.9	11,198	2.4
Guatemala	6.7	6.5	5.1	10.3	0.6	0.9	0.2	0.2	6.2	5.1	5,165	8.1
Guinea			1.0	1.3	0.2	0.2	0.1	0.1	5.7	18.8	2,409	29.4
Guinea-Bissau			0.2	0.3	0.2	0.2	0.2	0.3	0.9	0.0	776	24.4
Haiti	10.4	6.4	1.0	1.8	0.1	0.2	0.1	0.1	3.4	17.2	2,632	6.7

Energy efficiency and emissions 3.8



	•	r unit of gy use				dioxide sions			1	hane sions	Nitrous emis	
	per kil	PPP \$ logram luivalent 2003		ital etric tons 2002		capita ic tons 2002	2000	ams per PPP \$ GDP 2002	million metric tons of carbon dioxide equivalent 2000	% change 1990–2000	thousand metric tons of carbon dioxide equivalent 2000	
Honduras	5.0	4.9	2.6	5.9	0.5	0.9	0.2	0.4	4.9	-2.0	3,540	-0.4
Hungary	4.2	5.6	60.1	56.6	5.8	5.6	0.5	0.4	11.3	-24.7	12,896	136.1
India	4.0	5.3	677.9	1,218.9	0.8	1.2	0.5	0.5	445.3	16.3	398,980	26.4
Indonesia	4.2	4.3	165.7	306.0	0.9	1.4	0.4	0.5	169.2	13.7	38,747	10.1
Iran, Islamic Rep.	3.6	3.2	218.3	359.6	4.0	5.5	0.9	0.9	96.9	67.4	43,768	14.9
Iraq			48.5	79.3	2.6				14.4	6.7	6,461	1.4
Ireland	5.2	9.3	30.6	43.1	8.7	11.0	0.6	0.3	12.9	-0.8	9,787	5.9
Israel	7.0	7.1	33.1	69.5	7.1	10.6	0.4	0.5	11.4	32.6	1,672	20.1
Italy	8.4	8.2	389.6	432.3	6.9	7.5	0.3	0.3	37.0	-7.0	43,522	5.7
Jamaica	3.0	2.5	8.0	10.8	3.3	4.1	0.9	1.1	1.3	8.3	1,251	2.8
Japan	6.5	6.5	1,070.7	1,201.6	8.7	9.4	0.4	0.4	21.8	-17.1 0.7	36,982	-6.3
Jordan Kazakhstan	3.5 <i>1.0</i>	4.0 1.9	10.2 <i>252.7</i>	16.7 147.7	3.2 15.4	3.2 9.9	0.8 <i>3.2</i>	0.8 1.8	7.9 27.3	9.7 -44.9	232 7,830	91.7 -65.0
Kenya	2.2	2.1	5.8	7.2	0.3	0.2	0.2	0.2	21.5	10.8	22,588	3.5
Korea, Dem. Rep.		∠.⊥	244.6	143.0	12.4	6.5	0.2	0.2	33.5	3.4	6,535	-39.9
Korea, Rep.	4.5	4.2	241.2	445.5	5.6	9.4	0.6	0.5	25.0	-1.6	16,094	-39.9 47.7
Kuwait	1.2	1.8	45.2	59.8	21.3	25.6	1.5	1.6	9.9	65.0	159	140.9
Kyrgyz Republic	1.7	3.2	11.0	5.0	2.4	1.0	1.3	0.6	2.2	-24.1	82	12.3
Lao PDR			0.2	1.3	0.1	0.2	0.1	0.1	6.2	8.8	52	26.8
Latvia	3.5	5.3	12.7	6.3	4.8	2.7	0.9	0.3	2.6	-39.5	1,245	-66.0
Lebanon	2.7	3.0	9.1	16.4	3.3	4.7	1.4	1.0	1.3	85.7	1,149	54.6
Lesotho			••						1.2	20.0	1,519	4.5
Liberia			0.5	0.5	0.2	0.1			1.2	-7.7	840	8.8
Libya			37.8	50.3	8.7	9.1			9.6	9.1	2,534	-11.4
Lithuania	2.9	4.3	21.4	12.6	5.8	3.6	0.7	0.4	5.9	-42.2	3,516	167.6
Macedonia, FYR			10.6	10.2	5.5	5.1	0.9	0.9	1.3	0.0	1,063	15.0
Madagascar			0.9	2.3	0.1	0.1	0.1	0.2	18.9	14.6	11,600	11.7
Malawi			0.6	0.8	0.1	0.1	0.1	0.1	3.6	16.1	2,277	13.2
Malaysia	4.4	3.9	55.3	151.4	3.1	6.3	0.6	0.7	30.4	42.7	13,304	14.7
Mali			0.4	0.6	0.1	0.0	0.1	0.1	12.0	9.1	13,764	24.2
Mauritania			2.6	3.1	1.3	1.1	0.9	0.7	4.4	12.8	6,427	13.1
Mauritius			1.5	3.1	1.4	2.6	0.2	0.3	0.3	50.0	856	17.4
Mexico	5.1	5.6	375.2	383.1	4.5	3.8	0.6	0.4	111.7	-0.5	10,027	10.6
Moldova	1.4	1.9	20.9	6.7	4.8	1.6	2.2	1.1	2.6	-40.9	1,576	-59.5
Mongolia Morocco	11.9	10.2	10.0 23.5	8.3 43.6	4.7 1.0	3.4 1.5	3.1 0.3	2.1 0.4	8.2 10.0	17.1 9.9	12,072 15,673	37.2 5.6
Mozambique	1.3	2.5	1.0	43.0 1.5	0.1	0.1	0.3	0.4	11.1	18.1	3,234	9.8
Myanmar		•	4.3	7.6	0.1	0.2			61.1	23.9	12,470	32.2
Namibia	12.3	9.9	0.0	2.2	0.0	1.1	0.0	0.2	4.5	4.7	4,170	-1.5
Nepal	3.4	4.0	0.6	3.8	0.0	0.2	0.0	0.1	16.4	15.5	11,301	15.5
Netherlands	5.2	5.8	139.6	150.6	9.3	9.3	0.4	0.3	21.6	-22.9	17,242	3.0
New Zealand	4.1	4.8	23.6	33.9	6.9	8.6	0.4	0.4	36.2	-5.0	12,411	5.4
Nicaragua	5.3	5.5	2.7	3.9	0.7	0.8	0.2	0.2	5.3	12.8	4,048	7.8
Niger			1.1	1.2	0.1	0.1	0.2	0.1	6.5	25.0	4,999	28.2
Nigeria	1.1	1.3	45.3	52.0	0.5	0.4	0.6	0.5	72.5	41.9	41,556	18.7
Norway	5.1	6.8	46.9	63.1	11.1	13.9	0.4	0.4	7.1	6.0	5,123	0.1
Oman	4.3	2.8	11.2	30.1	6.1	12.1	0.6	0.9	3.7	85.0	1,033	19.3
Pakistan	3.9	4.2	68.0	108.5	0.6	0.8	0.4	0.4	94.7	25.1	84,591	34.0
Panama	7.4	7.6	3.1	6.2	1.3	2.0	0.3	0.4	3.3	10.0	2,694	7.0
Papua New Guinea			2.4	2.5	0.6	0.5	0.3	0.2	3.9	39.3	2,349	18.0
Paraguay	6.5	6.4	2.3	4.1	0.5	0.7	0.1	0.2	12.3	5.1	10,157	1.8
Peru	8.4	11.3	21.7	25.5	1.0	1.0	0.3	0.2	19.6	15.3	21,919	80.2
Philippines	9.1	7.8	43.9	73.7	0.7	0.9	0.2	0.2	34.2	6.9	20,795	33.4
Poland	3.0	4.6	347.6	295.9	9.1	7.7	1.2	0.7	47.2	-21.7	23,921	-22.3
Portugal	7.9	7.2	42.3	62.2	4.3	6.0	0.3	0.3	14.3	2.9	8,073	3.4
Puerto Rico			11.8	13.6	3.3	3.5	0.2	0.1				



Energy efficiency and emissions

	-	r unit of gy use			Carbon emis	dioxide sions				hane ssions	Nitrous emiss	
	per kil	PPP \$ logram quivalent 2003		ital etric tons 2002		capita c tons 2002	2000	ams per PPP \$ GDP 2002	million metric tons of carbon dioxide equivalent 2000	% change 1990–2000	thousand metric tons of carbon dioxide equivalent 2000	
Romania	2.5	4.0	155.1	86.6	6.7	4.0	1.0	0.6	36.1	-16.6	7,160	-66.1
Russian Federation	1.6	1.9	1,984.0	1,430.6	13.3	9.9	1.6	1.3	298.7	-46.0	51,508	-37.1
Rwanda			0.5	0.6	0.1	0.1	0.1	0.1	2.2	-15.4	1,170	-14.2
Saudi Arabia	2.9	2.2	179.9	340.0	11.0	15.0	0.9	1.3	54.4	56.8	8,666	15.2
Senegal	5.0	5.2	3.1	4.2	0.4	0.4	0.3	0.3	8.4	25.4	6,598	38.1
Serbia and Montenegro									9.5	-26.4	6,089	-34.7
Sierra Leone			0.3	0.6	0.1	0.1	0.1	0.3	2.6	8.3	941	30.2
Singapore	3.3	4.5	45.1	57.3	14.8	13.7	1.0	0.6	1.2	71.4	897	460.6
Slovak Republic	2.7	3.7	43.1	36.8	8.1	6.8	0.9	0.6	4.2	-31.2	3,172	-48.9
Slovenia	4.9	5.2	12.3	15.3	6.2	7.7	0.5	0.4	2.5	-7.4	1,978	22.6
Somalia			0.0		0.0							
South Africa	3.8	3.9	285.5	344.8	8.1	7.6	0.8	0.8	37.4	6.6	25,752	1.4
Spain	7.4	7.0	211.8	304.1	5.5	7.4	0.3	0.3	39.6	22.6	30,094	15.2
Sri Lanka	7.3	8.8	3.8	10.3	0.2	0.5	0.1	0.2	13.3	29.1	2,884	19.8
Sudan	2.7	3.7	5.4	8.8	0.2	0.3	0.2	0.2	46.6	17.1	47,090	19.5
Swaziland			0.4	1.0	0.6	0.9	0.1	0.2	1.1	10.0	1,216	11.9
Sweden	4.0	4.6	49.5	51.8	5.8	5.8	0.3	0.2	7.1	-10.1	7,096	-3.6
Switzerland	8.2	8.1	42.7	40.8	6.4	5.6	0.2	0.2	5.0	-10.7	3,720	2.6
Syrian Arab Republic	2.9	3.4	35.8	49.0	2.8	2.8	1.1	0.8	9.7	67.2	9,359	19.7
Tajikistan	0.9	2.1	20.6	4.7	3.7	0.8	2.6	0.8	1.4	7.7	54	14.9
Tanzania	1.4	1.3	2.3	3.6	0.1	0.1	0.2	0.2	31.7	17.8	27,110	16.3
Thailand	5.7	5.0	95.7	231.6	1.8	3.7	0.4	0.6	75.9	4.3	13,083	6.9
Togo	4.3	3.2	0.8	1.7	0.2	0.3	0.1	0.2	2.1	16.7	2,294	15.1
Trinidad and Tobago	1.4	1.2	16.9	41.2	13.9	31.8	2.0	3.4	3.1	24.0	287	-15.8
Tunisia	6.7	8.1	13.3	22.0	1.6	2.3	0.4	0.4	4.8	29.7	5,176	14.4
Turkey	5.8	6.0	143.8	207.7	2.6	3.0	0.5	0.5	97.4	21.1	40,615	-11.7
Turkmenistan	1.6	1.3	28.0	42.1	7.2	9.1	1.5	2.1	27.1	17.3	573	-13.8
Uganda			0.8	1.7	0.1	0.1	0.1	0.1	12.4	25.3	12,891	26.9
Ukraine	1.7	1.9	600.0	306.3	11.5	6.4	1.6	1.3	153.5	-22.4	19,874	-42.8
United Arab Emirates	2.2	2.3	60.7	94.0	34.2	25.0	1.4	1.2	35.2	70.9	136	32.0
United Kingdom	5.9	7.1	569.3	542.7	9.9	9.2	0.5	0.3	51.1	-33.3	43,775	-35.4
United States	3.7	4.5	4,817.5	5,834.5	19.3	20.2	0.7	0.6	613.4	-4.8	429,959	8.2
Uruguay	9.9	10.5	3.9	4.1	1.3	1.2	0.2	0.2	18.3	19.6	673	29.7
Uzbekistan	0.7	0.8	113.4	122.1	5.3	4.8	3.4	3.0	46.2	15.2	13,478	19.1
Venezuela, RB	2.6	2.3	117.3	108.0	5.9	4.3	1.0	0.8	95.1	24.3	6,870	-5.4
Vietnam	3.3	4.4	21.4	66.2	0.3	0.8	0.3	0.4	68.1	15.0	12,873	52.2
West Bank and Gaza												
Yemen, Rep.	3.0	2.8	9.6	13.0	0.8	0.7	1.2	0.8	8.7	89.1	5,591	9.5
Zambia	1.5	1.4	2.4	2.0	0.3	0.2	0.3	0.2	11.2	14.3	5,502	12.8
Zimbabwe	3.1	2.6	16.7	12.4	1.6	1.0	0.6	0.4	11.0	1.9	8,576	-5.0
World	3.9 w	4.7 v	21,254.1 t	24,355.2 t	4.0 w	3.9 w	0.6 w	0.5 t	5,835.0	t –5.5 w	3,454,338	t 3.0 w
Low income	3.5	4.2	1,368.2	1,898.2	0.8	0.8	0.4	0.4	1,367.4	18.3	928,766	26.5
Middle income	3.0	4.2	9,255.9	9,795.3	3.5	3.3	0.9	0.6	3,007.8	8.3	1,528,288	9.7
Lower middle income	3.1	4.6	5,086.8	6,250.2	2.5	2.6	0.8	0.6	2,092.1	15.0	1,231,441	16.3
Upper middle income	2.8	3.5	4,176.7	3,547.9	8.1	6.2	1.0	0.7	916.0	-0.9	297,173	0.8
Low & middle income	3.1	4.2	10,622.4	11,693.5	2.4	2.2	0.8	0.6	4,375.1	9.7	2,456,507	12.1
East Asia & Pacific	2.6	4.6	3,047.9	4,506.5	1.9	2.5	1.0	0.6	1,365.1	17.3	779,925	21.9
Europe & Central Asia	2.1	2.7	4,827.8	3,118.8	10.2	6.7	1.3	1.0	844.1	-20.3	236,256	-19.4
Latin America & Carib.	6.0	6.2	1,038.5	1,264.8	2.4	2.4	0.4	0.3	800.5	7.7	419,712	13.8
Middle East & N. Africa	4.6	4.2	576.5	926.3	2.6	3.2	0.7	0.7	233.0	42.2	118,262	19.0
South Asia	4.2	5.3	768.6	1,378.1	0.7	1.0	0.4	0.4	631.7	17.2	550,313	27.9
Sub-Saharan Africa	2.8	2.8	418.3	511.2	0.8	0.7	0.5	0.4	501.5	15.3	353,802	11.8
	4.7	5.2	10,654.1	12,685.3	11.8	12.8	0.5	0.5	1,432.7	-9.0	960,933	0.9
High income	T.1		10,004.1	12,000.0	11.0	12.0	0.5	0.0	1,702.1	3.0	300,333	

The ratio of GDP to energy use provides a measure of energy efficiency. To produce comparable and consistent estimates of real GDP across countries relative to physical inputs to GDP—that is, units of energy use—GDP is converted to 2000 constant international dollars using purchasing power parity (PPP) rates. Differences in this ratio over time and across countries reflect in part structural changes in the economy, changes in the energy efficiency of particular sectors, and differences in fuel mixes.

Because commercial energy is widely traded, it is necessary to distinguish between its production and its use. Net energy imports show the extent to which an economy's use exceeds its domestic production. Highincome countries are net energy importers; middleincome countries have been their main suppliers.

Carbon dioxide emissions, largely a by-product of energy production and use (see table 3.7), account for the largest share of greenhouse gases, which are associated with global warming. Anthropogenic carbon dioxide emissions result primarily from fossil fuel combustion and cement manufacturing. In combustion, different fossil fuels release different amounts of carbon dioxide for the same level of energy use. Burning oil releases about 50 percent more carbon dioxide than burning natural gas, and burning coal releases about twice as much. Cement manufacturing releases about half a metric ton of carbon dioxide for each metric ton of cement produced.

Methane emissions, largely the result of agricultural activities and industrial production of methane, are expressed in carbon dioxide equivalents using the global warming potential, which allows the different gases to be compared on the basis of their effective contributions. A kilogram of methane is 23 times as

effective at trapping heat in the earth's atmosphere as a kilogram of carbon dioxide within a time horizon of 100 years. The global warming potential of a kilogram of nitrous oxide is nearly 300 times that of a kilogram of carbon dioxide within the same time horizon.

The Carbon Dioxide Information Analysis Center (CDIAC), sponsored by the U.S. Department of Energy, calculates annual anthropogenic emissions of carbon dioxide. These calculations are based on data on fossil fuel consumption (from the World Energy Data Set maintained by the United Nations Statistics Division) and data on world cement manufacturing (from the Cement Manufacturing Data Set maintained by the U.S. Bureau of Mines). Emissions of carbon dioxide are often calculated and reported in terms of their content of elemental carbon. For this table these values were converted to the actual mass of carbon dioxide by multiplying the carbon mass by 3.664 (the ratio of the mass of carbon to that of carbon dioxide). Although the estimates of global carbon dioxide emissions are probably within 10 percent of actual emissions (as calculated from global average fuel chemistry and use), country estimates may have larger error bounds. Trends estimated from a consistent time series tend to be more accurate than individual values. Each year the CDIAC recalculates the entire time series from 1950 to the present, incorporating its most recent findings and the latest corrections to its database. Estimates do not include fuels supplied to ships and aircraft engaged in international transport because of the difficulty of apportioning these fuels among the countries benefiting from that transport.

Definitions

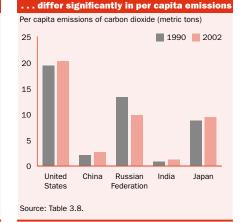
- GDP per unit of energy use is the PPP GDP per kilogram of oil equivalent of energy use. PPP GDP is gross domestic product converted to 2000 constant international dollars using purchasing power parity rates. An international dollar has the same purchasing power over GDP as a U.S. dollar has in the United States. 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. Methane emissions are those stemming from human activities such as agriculture and from industrial methane production.
- Nitrous oxide emissions are those stemming from agriculture, biomass burning, industrial activities, and livestock management.

3.8a

Source: Table 3.8.

Federation

3.8t



Data sources

The underlying data on energy use are from electronic files of the International Energy Agency. Data on carbon dioxide emissions are from the CDIAC, Environmental Sciences Division, Oak Ridge National Laboratory, in the U.S. state of Tennessee. Data on methane and nitrous oxide emissions are compiled by the World Resources Institute.





Sources of electricity

Electricity Sources of production electricitya % of total billion kilowatt hours Coal Nuclear power Hydropower Gas 1990 2003 1990 2003 1990 2003 1990 2003 1990 2003 1990 2003 Afghanistan Albania 3.2 5.2 89.1 98.8 10.9 1.2 Algeria 16.1 29.6 0.8 0.9 5.4 2.3 93.7 96.8 0.8 2.0 86.2 62.2 13.8 37.8 Angola Argentina 51.0 92.1 35.6 1.0 9.7 8.2 36.8 1.3 1.1 39.0 51.7 14.3 Armenia 10.0 5.5 33.8 36.0 43.3 22.9 27.6 36.3 10.6 Australia 154.3 227.9 9.2 7.0 77.1 77.2 2.7 1.0 13.8 Austria 49.3 61.2 63.9 59.4 14.2 15.4 3.8 2.9 15.7 18.3 Azerbaijan 21.8 21.3 8.9 11.6 91.1 35.7 0.5 52.7 7.7 11.4 5.7 4.3 6.7 84.3 87.5 Bangladesh 19.7 0.0 52.1 4.4 Belarus 41.6 26.6 0.0 0.1 47.9 95.5 1.2 Belgium 70.3 83.6 0.4 0.3 28.2 13.9 1.9 7.7 25.9 60.8 56.7 Benin 0.0 0.1 2.6 100.0 97.4 Bolivia 2.1 4.3 55.3 60.3 5.3 19.1 37.6 18.5 Bosnia and Herzegovina 6.5 11.2 52.2 48.0 47.8 50.9 1.1 Botswana Brazil 222.8 364.9 92.8 83.8 2.1 2.4 2.5 3.0 0.0 3.6 1.0 3.7 Bulgaria 42.1 42.3 4.5 7.0 50.3 46.1 2.9 1.9 7.6 4.2 34.8 40.9 Burkina Faso Burundi Cambodia Cameroon 2.7 3.7 98.5 95.8 1.5 4.2 586.9 61.6 57.5 3.0 481.9 19.3 3.4 2.0 5.8 15.1 12.8 Canada 17.1 Central African Republic Chad Chile 18.4 48.8 55.1 46.3 34.4 13.5 7.6 1.3 1.3 35.4 7.9 0.5 China 621.2 1.907.4 20.4 14.9 71.2 79.4 3.0 0.3 0.2 2.3 Hong Kong, China 28.9 98.3 77.7 0.5 35.5 1.7 21.8 36.2 47.1 76.0 76.8 9.8 1.0 0.3 12.4 Colombia 8.1 13.6 Congo, Dem. Rep. 5.6 6.3 99.6 99.7 0.4 0.3 Congo, Rep. 0.5 0.3 99.4 99.7 0.6 0.3 Costa Rica 3.5 7.6 97.5 78.3 2.5 1.8 Côte d'Ivoire 2.0 5.1 36.0 33.3 0.1 63.9 66.7 Croatia 8.9 12.6 48.8 38.7 5.0 19.1 35.8 25.0 15.4 17.2 15.0 15.9 0.6 0.6 91.5 94.3 0.2 0.0 62.3 Czech Republic 62.6 82.8 2.3 1.7 71.8 4.8 0.4 1.0 3.7 20.1 31.2 26.0 46.3 0.1 0.0 90.3 54.7 3.7 5.1 2.7 Denmark 21.2 3.7 13.5 9.4 8.9 21.1 88.6 69.5 0.1 Dominican Republic 1.2 6.3 29.7 Ecuador 11.5 78.5 62.2 21.5 8.1 Egypt, Arab Rep 42.3 91.9 23.5 14.1 36.9 5.7 39.6 79.9 35.8 El Salvador 2.2 4.1 73.5 6.9 40.0 Eritrea Estonia 13.1 10.2 0.0 92.2 4.5 0.4 6.9 0.1 90.0 5.5 Ethiopia 2.3 88.4 99.3 11.6 0.7 1.2 Finland 54.4 84.2 20.0 11.4 33.0 31.8 3.1 1.1 8.6 16.6 35.3 27.0 417.8 8.5 0.7 France 561.7 12.9 10.5 5.3 2.1 1.5 3.1 78.5 Gabon 1.0 1.5 72.1 59.8 11.2 22.8 16.4 16.9 Gambia, The 12.4 7.1 58.3 91.7 5.0 0.4 36.6 7.9 Georgia Germany 547.7 594.3 3.2 3.2 58.8 52.9 1.9 0.8 7.4 9.8 27.8 27.8 5.9 100.0 65.8 0.3 34.2 Ghana 5.7 Greece 34.8 57.9 5.1 8.2 72.4 60.7 22.3 15.1 0.3 13.8 Guatemala 2.3 6.6 76.0 37.8 14.5 9.0 34.8 Guinea Guinea-Bissau 0.6 20.6 52.3 Haiti 0.5 76.5 47.7

Sources of electricity 3.9



	Electri produc	-						ces of ricity ^a				
							% of					
	billion kilow 1990	2003	Hydro 1990	2003	1990	2003	1990	2003	Ga 1990	2003	1990	r power 2003
Honduras	2.3	4.5	98.3	48.0			1.7	51.7				
Hungary	28.4	34.1	0.6	0.5	30.5	27.1	4.8	4.8	15.7	34.8	48.3	32.3
India	289.4	633.3	24.8	11.9	65.3	68.3	4.3	4.6	3.4	11.5	2.1	2.8
Indonesia	33.3	112.9	20.2	8.0	31.5	41.1	42.7	24.9	2.3	20.3		••
Iran, Islamic Rep.	59.1	152.6	10.3	7.3			37.3	16.0	52.5	76.7		
Iraq	24.0	28.3	10.8	1.5			89.2	98.5				
Ireland	14.2	24.9	4.9	2.4	57.4	33.1	10.0	9.9	27.7	52.5		
Israel	20.9	47.0	0.0	0.1	50.1	77.0	49.9	22.9		0.1		
Italy	213.1	283.4	14.8	11.9	16.8	15.6	48.2	26.8	18.6	41.4	0.1	
Jamaica	2.5	7.1	3.6	1.6			92.4	96.9				
Japan	834.5	1,037.7	10.7	9.1	14.4	28.2	29.6	13.2	19.5	24.3	24.2	23.1
Jordan	3.6	8.5	0.3	0.5			87.8	90.7	11.9	8.8		
Kazakhstan	91.6	63.8	8.3	13.5	72.3	69.9	8.8	6.0	10.6	10.6		
Kenya	3.0	4.9	81.6	67.0			7.6	16.8				
Korea, Dem. Rep.	27.7	21.0	56.3	55.7	40.1	39.4	3.6	4.9				
Korea, Rep.	105.4	344.9	6.0	1.4	16.8	38.9	17.9	9.2	9.1	12.3	50.2	37.6
Kuwait	18.5	39.8					54.3	80.0	45.7	20.0		
Kyrgyz Republic	13.2	14.0	77.4	92.7	9.1	3.6			13.6	3.6		
Lao PDR		11.0							10.0	0.0		
Latvia	4.2	4.0	65.8	57.0	2.0	0.6	7.9	2.1	26.3	38.5	•••••	•••••
Lebanon	1.5	10.5	33.3	12.9			66.7	87.1				••
Lesotho					*		•••••	•	•		•••••	
Liberia	<u></u>	••	••	••		••		••			••	
•	10.2	18.9	••	••	••	••	100.0	79.6	••	20.4	••	••
Libya Lithuania	20.7	······	 2.5	1.7		••	12.4	1.7	6.7	13.4	 78.2	82.2
		18.8					••	•	•		• • • • • • • • • • • • • • • • • • • •	•••••
Macedonia, FYR	••	••	••	••	••	••	••	••		••	••	••
Madagascar	····	••••				••		••		••	••	
Malawi		70.4								74.0	••	
Malaysia	23.0	78.4	17.3	7.3	12.3	14.4	50.0	4.3	20.4	74.0		
Mali	···									••		
Mauritania	••	••	••		••	••	••	••	••	••	••	
Mauritius												
Mexico	122.7	218.7	19.1	9.1	6.3	14.3	57.3	32.4	10.6	35.4	2.4	4.8
Moldova	12.5	3.4	2.3	1.9	34.4	5.4	26.4	0.5	36.9	92.2	••	
Mongolia	···											
Morocco	9.6	18.1	12.7	8.0	23.0	67.7	64.4	23.2				
Mozambique	0.5	10.6	62.6	99.7	13.9		23.6	0.3	0.2	0.1		••
Myanmar	2.5	6.2	48.1	36.2	1.6		10.9	6.8	39.3	57.0		
Namibia	1.4	1.5	95.2	96.9	1.5	0.4	3.3	2.7				
Nepal	0.9	2.3	99.9	99.8			0.1	0.2				
Netherlands	71.9	96.8	0.1	0.1	38.2	28.4	4.3	3.0	50.9	58.8	4.9	4.2
New Zealand	32.3	41.1	72.3	57.5	1.5	8.1	0.0	0.0	17.6	24.4		
Nicaragua	1.4	2.7	28.8	11.0			39.8	75.2				
Niger												
Nigeria	13.5	20.2	32.6	38.8	0.1		13.7	22.7	53.7	38.5	••	
Norway	121.6	106.7	99.6	98.9	0.2	0.1	0.0	0.0	0.0	0.3		
Oman	4.5	10.7					18.4	18.0	81.6	82.0		
Pakistan	37.7	80.8	44.9	33.3	0.1	0.2	20.6	15.7	33.6	48.5	0.8	2.2
Panama	2.7	5.6	83.2	50.6			14.7	49.0				
Papua New Guinea												
Paraguay	27.2	51.8	99.9	100.0			0.0					
Peru	13.8	22.9	75.8	80.8		3.3	21.5	9.7	1.7	5.2		
Philippines	25.2	52.9	24.0	14.9	7.7	27.5	46.7	14.2		24.9		
Poland	134.4	150.0	1.1	1.1	97.5	95.1	1.2	1.6	0.1	1.6		
Portugal	28.4	46.5	32.3	33.8	32.1	31.2	33.1	13.2		16.6		
Puerto Rico												





Sources of electricity

Electricity Sources of production electricitya % of total billion kilowatt hours Oil Coal Nuclear power Hydropower Gas 1990 2003 1990 2003 1990 2003 1990 2003 1990 2003 1990 2003 64.3 55.1 24.0 28.8 42.9 6.6 35.1 8.9 Romania 17.7 17.6 Russian Federation 1,116.7 914.3 17.0 17.0 15.3 18.8 9.9 3.0 45.7 44.5 11.9 16.4 Rwanda 56.5 Saudi Arabia 69.2 153.0 53.6 43.5 46.4 Senegal 0.9 2.1 15.7 98.0 74.6 2.0 1.6 36.5 27.9 65.6 69.9 8.0 Serbia and Montenegro 35.4 31.1 1.7 1.6 1.5 Sierra Leone 15.7 100.0 0.0 35.3 34.6 60.8 Singapore Slovak Republic 23.4 31.0 8.0 11.2 32.2 20.6 3.4 2.3 4.9 7.7 51.4 57.7 Slovenia 12.1 14.0 28.2 22.5 36.2 36.4 2.5 0.4 0.2 2.6 32.9 37.1 Somalia 0.0 5.5 South Africa 165.4 229.1 0.6 0.8 94.3 93.5 0.0 5.1 151.2 257.9 16.8 15.9 40.1 29.5 9.3 15.3 35.9 Spain 5.7 1.0 24.0 Sri Lanka 3.2 7.6 99.8 43.5 0.2 56.5 65.3 Sudan 1.5 3.4 63.2 34.7 36.8 Swaziland 2.9 146.0 135.6 1.2 0.8 0.3 0.4 46.7 49.7 Sweden 49.7 39.3 3.1 0.6 54.7 64.9 54.5 53.6 0.1 0.5 0.1 43.2 42.3 Switzerland 1.4 Syrian Arab Republic 11.6 29.5 23.5 9.5 56.0 41.7 20.5 48.9 Taiikistan 18.6 16.5 94.7 97.7 5.3 2.3 Tanzania 1.6 2.7 95.1 93.0 2.7 4.9 4.3 44.2 117.0 25.0 23.5 Thailand 11.3 6.2 15.8 2.7 40.2 73.0 Togo 0.2 0.3 60.1 82.8 39.9 17.2 Trinidad and Tobago 3.6 6.4 0.1 0.1 99.0 99.7 Tunisia 5.8 12.4 0.8 1.3 35.5 8.7 63.7 89.7 Turkey 57.5 140.6 40.2 25.1 35.1 22.9 6.9 6.5 17.7 45.2 10.8 Turkmenistan 14.6 0.0 0.0 100.0 100.0 Uganda Ukraine 279.6 180.2 3.2 5.1 18.1 18.3 9.1 0.5 40.4 30.9 29.2 45.2 United Arab Emirates 17.1 49.5 4.0 0.6 96.0 99.4 317.8 395.9 65.0 10.9 22.4 United Kingdom 1.6 0.8 35.4 1.8 1.6 37.5 20.7 **United States** 3.202.8 4.054.4 8.5 6.9 53.1 51.4 3.4 11.9 16.5 19.1 19.4 4.1 Uruguay 7.4 8.6 94.2 99.4 5.1 0.2 0.0 Uzbekistan 56.4 49.4 12.3 12.8 4.9 2.9 6.9 11.4 75.9 72.9 Venezuela, RB 59.3 91.8 62.3 66.0 11.5 16.4 26.2 17.6 40.9 61.8 23.1 17.7 15.0 6.5 0.1 29.4 Vietnam 8.7 46.4 West Bank and Gaza Yemen, Rep. 1.7 4.1 100.0 100.0 Zambia 8.0 9.6 99.2 99.5 0.5 0.2 0.3 0.4 9.4 8.8 46.7 60.9 53.3 0.2 Zimbabwe 38.9 11.697.4 16.618.4 18.1 15.8 38.0 40.1 11.2 6.8 15.9 World 13.9 19.4 17.2 535.1 Low income 981.1 34.4 23.8 40.9 46.3 7.3 7.2 14.5 20.0 1.2 2.0 3,753.1 35.2 42.4 Middle income 5,818.3 21.5 20.8 15.0 7.3 19.8 21.5 7.6 7.1 Lower middle income 1,817.8 3,591.1 27.4 23.3 37.4 49.4 16.8 7.2 14.0 14.4 5.1 4.5 2,227.2 10.0 1,935.3 16.6 33.2 31.0 13.4 7.4 25.3 32.9 11.3 Upper middle income 16.1 6.4 Low & middle income 4,288.2 6.799.4 23.1 21.2 35.9 42.9 14.0 7.3 19.1 21.3 6.8 East Asia & Pacific 785.8 2,336.8 21.7 14.8 61.3 69.4 12.7 4.4 3.5 8.6 0.2 1.9 Europe & Central Asia 2,143.0 1,946.4 12.9 15.7 31.9 29.8 12.6 3.6 29.2 34.0 12.3 16.8 Latin America & Carib. 607.0 1,037.0 63.7 56.4 3.8 5.4 19.0 14.2 9.5 18.1 2.1 3.0 Middle East & N. Africa 190.0 415.3 12.2 7.4 1.2 3.0 48.2 27.4 38.4 62.2 South Asia 338.8 743.7 27.6 14.7 55.8 58.2 6.1 6.4 8.6 17.4 1.9 2.6 223.5 Sub-Saharan Africa 320.3 18.5 20.1 72.1 68.0 2.2 4.0 3.3 3.5 3.8 4.0 **High income** 7,409.2 9,818.9 15.2 12.1 39.2 38.2 9.6 6.5 10.8 18.1 23.2 22.4 Europe EMU 1,653.6 2,155.1 11.0 10.2 34.4 27.7 9.5 6.4 8.7 17.0 35.5 34.4

a. Shares may not sum to 100 percent because some sources of generated electricity are not shown.

Use of energy is important in improving people's standard of living. But electricity generation also can damage the environment. Whether such damage occurs depends largely on how electricity is generated. For example, burning coal releases twice as much carbon dioxide—a major contributor to global warming—as does burning an equivalent amount of natural gas (see About the data for table 3.8). Nuclear energy does not generate carbon dioxide emissions, but it produces other dangerous waste products. The table provides information on electricity production by source. Shares may not sum to 100 percent because some sources of generated electricity (such as wind, solar, and geothermal) are not shown.

The International Energy Agency (IEA) compiles data on energy inputs used to generate electricity. IEA data for countries that are not members of the Organisation for Economic Co-operation and Development (OECD) are based on national energy data adjusted to conform to annual questionnaires completed by OECD member governments. In addition, estimates are sometimes made to complete major

aggregates from which key data are missing, and adjustments are made to compensate for differences in definitions.

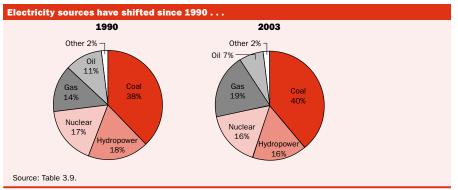
The IEA makes these estimates in consultation with national statistical offices, oil companies, electricity utilities, and national energy experts. The IEA occasionally revises its time series to reflect political changes. Since 1990, for example, it has constructed energy statistics for countries of the former Soviet Union. In addition, energy statistics for other countries have undergone continuous changes in coverage or methodology as more detailed energy accounts have become available in recent years. Breaks in series are therefore unavoidable.

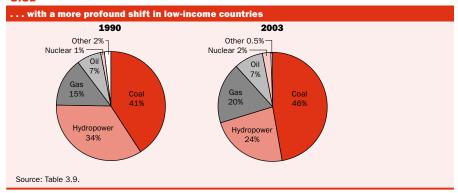
Definitions

Sources of electricity

- Electricity production is measured at the terminals of all alternator sets in a station. In addition to hydropower, coal, oil, gas, and nuclear power generation, it covers generation by geothermal, solar, wind, and tide and wave energy as well as that from combustible renewables and waste. Production includes the output of electricity plants designed to produce electricity only, as well as that of combined heat and power plants. • Sources of electricity refer to the inputs used to generate electricity: hydropower, coal, oil, gas, and nuclear power. • Hydropower refers to electricity produced by hydroelectric power plants.
- Oil refers to crude oil and petroleum products.
- Gas refers to natural gas but not to natural gas liquids. • Nuclear power refers to electricity produced by nuclear power plants.

3.9a





Data sources

Data on electricity production are from the IEA's electronic files and its annual publications Energy Statistics and Balances of Non-OECD Countries, Energy Statistics of OECD Countries, and Energy Balances of OECD Countries.



	Urban population % of total					in u agglom of moi	lation rban erations re than illion	Popula larges				o improved n facilities	
	milli		popu	lation	average annual % growth	popu	total lation	% of u	lation	popu	urban lation	popu	rural lation
	1990	2004	1990	2004	1990-2004	1990	2005	1990	2005	1990	2002	1990	2002
Afghanistan	2.7	<u> </u>	18			11		59		······································		5	<u> </u>
Albania	1.2	1.4	36	44	1.1					99	99		81
Algeria Angola	13.0 2.8	19.2 5.6	51 26	59 36	2.8 5.1	8 15	10 18	15 58	17 48	99 62	99 56	76 19	82 16
Argentina	28.3	34.7	20 87	90	1.4	41	42	39	38	87		47	
Armenia	2.4	1.9	67	64	-1.4	33	35	49	55	96	96		61
Australia	14.5	18.6	85	92	1.8	60	61	25	23	100	100	100	100
Austria	5.1	5.4	66	66	0.4	27	27	41	41	100	100	100	100
Azerbaijan	3.8	4.2	54	50	0.5	24	22	45	44		73		36
Bangladesh	20.6	34.3	20	25	3.7	9	13	32	35	71	75	11	39
Belarus	6.7	7.0	66	71	0.3	16	17	24	24				
Belgium	9.6	10.1	96	97	0.4			10	10				
Benin	1.8	3.7	34	45	5.2					31	58	1	12
Bolivia	3.7	5.8	56	64	3.1	25	31	29	26	49	58	13	23
Bosnia and Herzegovina	1.7	1.8	39	45	0.3					99	99		88
Botswana	0.6	0.9	42	52	3.0					61	57	21	25
Brazil	111.6	153.8	75	84	2.3	33	36	13	12	82	83	37	35
Bulgaria	5.8	5.4	66	70	-0.4	14	13	21	19	100	100	100	100
Burkina Faso	1.2	2.3	14	18	5.0			51	35	47	45	8	. 5
Burundi	0.4	0.7	6	10	5.3					42	47	44	35
Cambodia	1.2	2.6	13	19	5.5	6	8				53		8
Cameroon	4.7	8.4	40	52	4.1	16	23	21	23	43	63	7	33
Canada	21.3	25.8	77	81	1.4	34	37	18	19	100	100	99	99
Central African Republic	1.1	1.7	37	43	3.1	······································				32	47	18	12
Chad	1.3	2.4	21	25	4.5		٠.			27	30	1	0
Chile China	11.0 311.0	14.1 513.0	83 27	87 40	1.8 3.6	35 14	35 15	42 4	39 2	91 64	96 69	52 7	64 29
Hong Kong, China	5.7	6.9	100	100	1.4	100	100	100	100	•	•	1	•
Colombia	24.0	34.5	69	77	2.6	28	34	21	22	95	 96	 52	54
Congo, Dem. Rep.	10.6	18.0	28	32	3.8	28 9	10	32	30	56	43	3	23
Congo, Rep.	1.2	2.1	48	54	4.0			59	53		14	2	2
Costa Rica	1.6	2.6	54	61	3.3		•••••	45	43		89	97	97
Côte d'Ivoire	5.0	8.1	40	45	3.4	17	 19	42	42	52	61	16	23
Croatia	2.6	2.6	54	59	0.2						• • • • • • • • • • • • • • • • • • • •		
Cuba	7.8	8.5	74	76	0.7	20	19	27	26	99	99	95	95
Czech Republic	7.8	7.6	75	74	-0.2	12	11	16	15				
Denmark	4.4	4.6	85	85	0.4	26	20	31	24				
Dominican Republic	3.9	5.2	55	60	2.1	21	22	39	36	60	67	33	43
Ecuador	5.7	8.1	55	62	2.6	26	29	28	29	73	80	36	59
Egypt, Arab Rep.	24.2	30.7	43	42	1.7	22	20	37	36	70	84	42	56
El Salvador	2.5	4.0	49	60	3.4	19	21	39	36	70	78	33	40
Eritrea	0.5	0.9	16	20	4.2	····				46	34	0	3
Estonia	1.1	0.9	71	70	-1.2						93		
Ethiopia	6.5	11.1	13	16	3.8	3	4	28	25	14	19	2	4
Finland	3.1	3.2	61	61	0.3	17	21	28	35	100	100	100	100
France	42.0	46.2	74	76	0.7	23	23	22	21				
Gabon	0.7	1.2	68	84	4.1	···					37		30
Gambia, The	0.2	0.4	25	26	3.6						72		46
Georgia	3.0	2.3	55 85	52	-1.8	22	23	41	45	96	96		69
Germany	67.8	72.9	85 36	88	0.5	40	42	9	9		74		
Ghana	5.6 6.0	9.9	36 50	46 61	4.0 0.9	8 8	9	21	19	54	74	37	46
Greece Guatemala	3.7	6.8 5.7	59 41	61 47	3.2	30	29	51 22	48 17	71	 72	35	52
Guinea	3.7 1.6	3.3	41 25	36	3.2 5.2	 14	 16	56	43	27	72 25	35 13	6
Guinea-Bissau	0.2	0.5	25	35	5.7				40	۷۱	57		23
Haiti	2.0	3.2	29	38	3.3	17	 25	56	63	27	52	11	23
rorti	∠.∪	٥.۷	29	ుం	ა.ა	11	∠:)	20	US	۷۱	52	- 11	

		p	Urban opulation			Populiin ur agglome of more	ban erations e than	Popula larges				o improved n facilities	
	milli			lation	average annual % growth	% of t	ation	% of u	ation	popu	urban lation	popu	rural lation
	1990	2004	1990	2004	1990-2004	1990	2005	1990	2005	1990	2002	1990	2002
Honduras	2.0	3.2	40	46	3.6			36	32	77	89	31	52
Hungary	6.4	6.6	62	66	0.2	19	17	31	25	100	100		85
India	217.0	308.0	26	29	2.5	9	11	6	6	43	58 71	1	18
Indonesia Iran, Islamic Rep.	54.5 30.6	101.6 45.1	31 56	47 67	4.4 2.8	9 22	11 22	14 21	12 16	66 86	86	38 78	38 78
Iraq	12.9	45.1	70	•		29		32		95		48	•
Ireland	2.0	2.4	57	60	1.5			46	41				
Israel	4.2	6.2	90	92	2.8	48	58	43	48	100	100		
Italy	37.8	38.8	67	67	0.2	23	20	12	10				
Jamaica	1.2	1.4	51	52	0.8				·····	85	90	64	68
Japan	77.9	83.8	63	66	0.5	42	44	42	42	100	100	100	100
Jordan	2.3	4.3	72	79	4.5	27	23	37	29	97	94		85
Kazakhstan	9.3	8.4	57	56	-0.8	7	7	12	13	87	87 50	52	52
Kenya	5.8	13.6	25	40	6.1	6	8	24	20	49	56	40	43
Korea, Rep. Korea, Rep.	11.5 31.7	13.8 38.7	58 74	61 81	1.3 1.4	16 49	20 46	22 33	24 25		58		60
Kuwait	2.0	2.4	95	96	1.1	48		51					
Kyrgyz Republic	1.7	1.7	38	34	0.2			38	48		 75		51
Lao PDR	0.6	1.2	15	21	4.7						61		14
Latvia	1.9	1.5	70	66	-1.5			48	47				
Lebanon	2.3	3.1	83	88	2.2	42	52	51	60	100	100		87
Lesotho	0.3	0.3	17	18	1.2					61	61	32	32
Liberia	0.9	1.5	42	47	3.8					59	49	24	7
Libya	3.5	5.0	80	87	2.6	35	36	43	41	97	97	96	96
Lithuania	2.5	2.3	68	67	-0.6		••	••					
Macedonia, FYR	1.1 2.8	1.2	58	60 27	0.7	 8	 10						
Madagascar Malawi	2.8	4.9 2.1	24 12	21 17	3.8 4.6	•		33	36	25 52	49 66	8 34	27 42
Malaysia	8.9	16.0	50	64	4.2	 6	 5	13		94		98	98
Mali	2.1	4.3	24	33	5.1	8	10	35	30	50	59	32	38
Mauritania	0.9	1.9	44	63	5.3					31	64	26	9
Mauritius	0.4	0.5	41	44	1.6					100	100	99	99
Mexico	60.3	78.6	72	76	1.9	32	34	25	24	84	90	20	39
Moldova	2.0	1.9	47	46	-0.3			••			86		52
Mongolia	1.2	1.4	57	57	1.3			48	58		75		37
Morocco	11.6	17.3	48	58	2.9	21	25	23	21	87	83	28	31
Mozambique Myanmar	2.8 10.1	7.1 15.0	21 25	37 30	6.6 2.8	6 7	7 8	27 29	18 26	 39	51 96	14 15	14 63
Namibia	0.4	0.7	27	33	4.1	·	•••••	······································		68	66	8	14
Nepal	1.7	4.1	9	15	6.2					62	68	7	20
Netherlands	9.0	10.8	60	66	1.3	 14	14	12	11	100	100	100	100
New Zealand	2.9	3.5	85	86	1.3	25	28	30	33			88	
Nicaragua	2.1	3.1	53	58	2.8	19	21	35	36	64	78	27	51
Niger	1.4	3.1	16	23	5.8			33	31	35	43	2	4
Nigeria	31.7	61.1	35	47	4.7	11	13	15	18	50	48	33	30
Norway	3.1	3.7	72	80	1.3			22	22				
Oman	1.1	2.0	62	78	3.9			··	<u></u>	97	97	61	61
Pakistan	33.0	52.4	31	34	3.3	16	18	22	22	81	92	19	35
Panama	1.3	1.8	54	57	2.4		••	65	51		89		51
Papua New Guinea	0.5	0.8	13	13	2.5					67 71	67	41	41
Paraguay Peru	2.1 15.0	3.5 20.5	49 69	58 74	3.8 2.2	22 27	28 29	45 39	49 39	71 68	94 72	46 15	58 33
Philippines	29.8	50.4	49	62	3.8	21 14	29 14	27	21	63	81	46	61
Poland	23.2	23.7	61	62	0.2	14	13	15	12	•	•	•	•
Portugal	4.6	5.8	47	55	1.6	30	31	40	34				
Puerto Rico	2.6	3.8	72	97	2.8	44	60	60	62				
		•	•	•			······	······		•	•	•	•

		р	Urban opulation			Popul in ur agglome of more 1 mil	ban erations e than	-	ation in st city			o improved n facilities	
	mil 1990	llions 2004	% of popul 1990		average annual % growth 1990–2004	% of to popul			urban lation 2005		urban lation 2002		rural Ilation 2002
Damania										. 2000		•	
Romania Russian Federation	12.4 108.8	11.9 105.4	53 73	55 73	-0.3 -0.2	9 18	8 20	17 8	15 10	93	86 93	 70	10 70
Rwanda	0.4	1.8	73 5	20	-0.2 11.1					49	56	36	38
Saudi Arabia	12.8	21.1	78	88	3.6	30	 44	 18	 25	100	100	•	•••••
Senegal	3.2	5.7	40	50	4.2	18	20	46	39	52	70	23	34
Serbia and Montenegro	5.4	4.3	51	52	-1.6	11	14	21	26	97	97	77	77
Sierra Leone	1.2	2.1	30	40	3.9			47	45		53		30
Singapore	3.0	4.2	100	100	2.4	99	100	99	100	100	100		
Slovak Republic	3.0	3.1	56	58	0.3					100	100	100	100
Slovenia	1.0	1.0	51	51	0.0								
Somalia	2.0	2.8	29	35	2.6	11	15	39	43		47		14
South Africa	17.2	26.1	49	57	3.0	23	30	11	13	85	86	42	44
Spain	29.3	32.7	75	77	0.8	23	22	16	15				
Sri Lanka	3.6	4.1	21	21	0.9					89	98	64	89
Sudan	6.9	14.2	27	40	5.1	9	12	34	30	53	50	26	24
Swaziland	0.2	0.3	23	24	2.9						78		44
Sweden	7.1	7.5	83	83	0.4	17	19	21	23	100	100	100	100
Switzerland	4.6	5.0	68	68	0.6	-		18	20	100	100	100	100
Syrian Arab Republic	6.3	9.3	49	50	2.8	26	25	25	26	97	97	56	56
Tajikistan	1.7	1.6	32	25	-0.4						71		47
Tanzania	5.7	13.7	22	36	6.3	5	7	23	19	51	54	45	41
Thailand	16.1	20.5	29	32	1.7	11	10	37	32	95	97	74	100
Togo	1.1	2.1	29	36	4.6					71	71	24	15
Trinidad and Tobago	0.8	1.0	69	76	1.2					100	100	100	100
Tunisia	4.7	6.4	58	64	2.1	19	21	33	32	95	90	47	62
Turkey	33.2	47.9	59	67	2.6	22	25	20	20	96	94	67	62
Turkmenistan	1.7	2.2	45	46	2.0						77		50
Uganda	2.0	3.4	11	12	3.9	4	5	38	38	54	53	41	39
Ukraine	34.6	31.9	67	67	-0.6	14	15	7	8	100	100	97	97
United Arab Emirates	1.5	3.7	83	85	6.6			32	26	100	100	100	100
United Kingdom	51.1	53.4	89	89	0.3	24	22	15	14				
United States	188.0	236.2	75	80	1.6	40	42	9	8	100	100	100	100
Uruguay	2.8	3.2	89	93	1.0	41	39	46	42	95	95		85
Uzbekistan	8.2	9.6	40	37	1.1	10	8	25	22	73	73	48	48
Venezuela, RB	16.6	23.0	84	88	2.3	31	34	17	14		71		48
Vietnam	13.4	21.6	20	26	3.4	13	13	30	23	46	84	16	26
West Bank and Gaza													
Yemen, Rep.	2.6	5.3	21	26	5.1	6	8	26	29	59	76	11	14
Zambia	3.3	4.2	39	36	1.6	12	12	30	34	64	68	26	32
Zimbabwe	3.1	4.6	29	35	2.9	10	12	34	33	69	69	40	51
World	2,259.9	3,091.5 s	43 w	49 v	v 2.2 w	w	w	17 w	16 w	76 w	79 w	22 w	35 w
Low income	454.7	717.1	26	31	3.3	10	12	17	17	49	61	10	24
Middle income	1,146.2	1,604.3	44	53	2.4			16	14	79	81	25	41
Lower middle income	797.7	1,187.9	38	49	2.8	16	17	14	12	75	78	22	39
Upper middle income	348.5	416.4	69	72	1.3			20	20	91	91	58	61
Low & middle income	1,600.9	2,321.4	37	43	2.7			16	15	71	74	18	32
East Asia & Pacific	459.5	759.0	29	41	3.6			10	7	65	72	15	35
Europe & Central Asia	293.2	300.4	63	64	0.2	16	18	14	15	94	93	72	63
Latin America & Carib.	310.9	420.8	71	77	2.2	31	34	24	22	83	84	35	44
Middle East & N. Africa	115.5	167.2	52	56	2.6	21	21	28	25	86	89	51	56
South Asia	278.6	409.9	25	28	2.8	10	12	10	11	50	64	5	23
Sub-Saharan Africa	143.2	264.3	28	36	4.4			26	25	53	55	24	26
High income	659.0	770.1	75	78	1.1			20	19				
Europe EMU	216.5	235.5	74	76	0.6	28	27	17	16				

The population of a city or metropolitan area depends on the boundaries chosen. For example, in 1990 Beijing, China, contained 2.3 million people in 87 square kilometers of "inner city" and 5.4 million in 158 square kilometers of "core city." The population of "inner city and inner suburban districts" was 6.3 million, and that of "inner city, inner and outer suburban districts, and inner and outer counties" was 10.8 million. (For most countries the last definition is used.)

Estimates of the world's urban population would change significantly if China, India, and a few other populous nations were to change their definition of urban centers. According to China's State Statistical Bureau, by the end of 1996 urban residents accounted for about 43 percent of China's population, while in 1994 only 20 percent of the population was considered urban. In addition to the continuous migration of people from rural to urban areas, one of the main reasons for this shift was the rapid growth in the hundreds of towns reclassified as cities in recent years. Because the estimates in the table are based on national definitions of what constitutes a city or metropolitan area, cross-country comparisons should be made with caution. To estimate urban populations, UN ratios of urban to total population were applied to the World Bank's estimates of total population (see table 2.1).

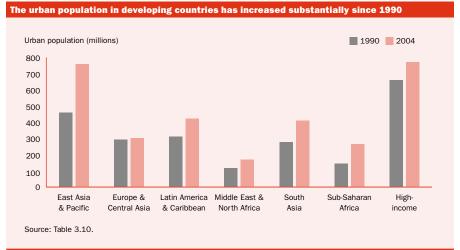
The urban population with access to improved sanitation facilities is defined as people with access to at least adequate excreta disposal facilities that can effectively prevent human, animal, and insect contact with excreta. The rural population with access

is included to allow comparison of rural and urban access. This definition and the definition of urban areas vary, however, so comparisons between countries can be misleading.

Definitions

- Urban population is the midyear population of areas defined as urban in each country and reported to the United Nations (see *About the data*). Population in urban agglomerations of more than 1 million is the percentage of a country's population living in metropolitan areas that in 2000 had a population of more than 1 million. Population in largest city is the percentage of a country's urban population living in that country's largest metropolitan area.
- Access to improved sanitation facilities refers to the percentage of the urban or rural population with access to 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.

3.10a



Data sources

Data on urban population and the population in urban agglomerations and in the largest city are from the United Nations Population Division's *World Urbanization Prospects: The 2005 Revision*. The total population figures are World Bank estimates. Data on access to sanitation in urban and rural areas are from the World Health Organization.



3.11 Urban housing conditions

		Hous si	ehold ze	Overcre	owding	Dura dwe un	lling	Hoi owne		Multi dwell			ancy te
	Census year	1	oer of ople Urban	People overcro dwell % of National	owded ings ^a	Buildin durable s % of National	structure	Privately dwell % of National	lings	% of t	total Urban	dwel	cupied lings total Urban
Afghanistan													
Albania	2001	4.2	3.9					65 ^b	30 ^b			12	13
Algeria	1998	4.9						67				19	
Angola													
Argentina	2001	3.6		19		97				4		16 ^b	
Armenia	2001	4.1	4.0	4	6	93	93	95	90	1	1		
Australia	2001	3.8		1						······			
Austria	1991	2.6		2		••				50	····	13	
Azerbaijan	1999	4.7	4.4		••	 04h		74	62	4	5		
Bangladesh	2001	4.8	4.8			21 ^b	42 ^b	88 ^b	61 ^b				
Belgium	1999		·····	0 ^b		·			····	 32 ^b			
Belgium	2001	2.6						67 50			••	·•	······
Benin Bolivia	1992 2001	5.9 4.2	4.3	40		26 43	 58	59 70	 59	3 ^b	 5 ^b	6	4
Bosnia and Herzegovina					••		•						•
Botswana	2001	4.2	3.9	27	 47	 88	 90 ^b	61	 47	1			
Brazil	2000	3.8	3.7					74	75				•
Bulgaria	2001	2.7	2.7			 79	89	98	98			23	17
Burkina Faso	1996	6.2	5.8	30	53								
Burundi	1990	4.7											
Cambodia	1998	5.2										••	
Cameroon	1987	5.2	5.1	67	77	77		73	48	27	42		
Canada	2001	2.6						64		32		8	
Central African Republic	2003	5.2	5.8	32	36 ^b	78	92	85	74				
Chad	1993	5.1	5.1										
Chile	2002	3.4	3.5			91	92	66	65	13	15	11	10
China	2000	3.4	3.2			82		88	74			1	
Hong Kong, China		••			••	••							
Colombia	1993	4.8		27 ^b		83 ^b		68 ^b		13		10 ^b	
Congo, Dem. Rep.	1984	5.4		55									
Congo, Rep.	1984	10.5			••			76					
Costa Rica	2000	4.0	••	22		88		72		2	3	9	6
Côte d'Ivoire	1998	5.4											
Croatia	2001	3.0			••							12	
Cuba	1981	4.2	4.2		••	·•········	••			15	21	0	0
Czech Republic	2001	2.4				·		52	···········	49	······································	12	
Denmark Dominican Republic	2001	2.2		••	••	97		••			••	11	···
Ecuador Ecuador	2002 2001	3.9 3.5	3.7	30	••	97 81	 88	 68 ^b	 58 ^b	8 9	14	11 12	7
Egypt, Arab Rep.	1996	3.5 4.7	•			•	•			75		•••••	•
El Salvador	1990	4.1		63		67	 83	70	 68	3	 6	11	11
Eritrea	1002						•		•			•••••	•
Estonia	2000	2.4	2.3	3						 72		 13	
Ethiopia	1994	4.8	4.7				23		 54				
Finland	2000	2.2						64		44			
France	1999	2.5						55				7	
Gabon	2003	5.2											
Gambia, The	1993	8.9				18		68					
Georgia	2002	3.5	3.5										
Germany	2001	2.3						43				7	
Ghana	2000	5.1	5.1			45		57		53		5	
Greece	2001	3.0		1									
Guatemala	2002	4.4	4.7			67	80	81	74	2	4	13	11
Guinea													
Guinea-Bissau													
Haiti	1982	4.2		26				92	68			9	19

Urb

oan housing conditions	3.11
venerating Durable Home Multimate	Vacanav

		1	ehold ze	Overcr	owding	Dura dwe un	lling		me rship	Mult dwell		Vaca ra	
	Census year	1	per of ople Urban	overcr dwell	living in owded ings ^a total Urban	Building durable s % of National	structure	dwel	y owned lings total Urban	% of National	total Urban	Unocc dwell % of National	lings
Honduras	2001	4.4				69	85					14	
Hungary	1990	2.7										4	
India	2001	5.3	5.3	77	71	83	81	87	67			6	9
Indonesia	2000	4.0											
Iran, Islamic Rep.	1996	4.8	4.6	33 ^b	26 ^b	72	76	73	67				
Iraq	1997	7.7	7.2			88	96	70	66	4	5	13	15
Ireland	2002	3.0					••			8 ^b			
Israel	1995	3.5											
Italy	2001	2.8										21	
Jamaica	2001	3.5				98 ^b		58 ^b		2 ^b			
Japan 	2000	2.7						61		37			
Jordan	1994	6.2	6.0	1		97	97	69	64	57	67		
Kazakhstan				·									
Kenya	1999	4.6	3.4			35	72	72	25			39	17
Korea, Dem. Rep.	2000	3.8	••	23			••	50		15			••
Korea, Rep.	1993	4.4 6.4					••	••		9b	••		••
Kuwait	1995 1999	4.4	 3.6		••	••	••					11	••
Kyrgyz Republic Lao PDR	1999	6.1	6.1	••	••	49	 77	 96	 86	••	••	••	••
Latvia	2000	3.0	2.6	4	•••	88	•	58	•	74		0	••
Lebanon	2000	•	•				••		•••				••
Lesotho	2001	5.0		 10 ^b	••	••	••	 84		0		••	••
Liberia	1974	4.8		31		20		1					•••
Libya		6.4										7	
Lithuania	2001	2.6		7									
Macedonia, FYR	2002	3.6	3.6 ^b	8 _b		95 ^b	95 ^b	48 ^b				7 ^b	3 ^b
Madagascar	1993	4.9	4.8	64	57		••	81	59				
Malawi	1998	4.4	4.4	30		48	84	86	47				
Malaysia	2000	4.5	4.4							10 ^b	16 ^b		
Mali	1998	5.6											
Mauritania	1988												
Mauritius	2000	3.9	3.8	6	7	91	94	87	81		••	7	6
Mexico	2000	4.4		27 ^b		87		78		6			
Moldova	2003					••							
Mongolia	2000	4.4	4.5							48	56		
Morocco	1982	5.9	5.3	······	<u>.</u>	··			<u></u>	······································		·•	
Mozambique	1997	4.4	4.9	37	28	7	20	92	83	1	1	0	••
Myanmar							••		·······		••		
Namibia	2001	5.3				···			·······				
Nepal	2001	5.4	4.9			••	••	88		••		0	••
Netherlands New Zealand	2001	2.8	••	1 ^b	••	••	••	 65		17	••	10	••
Nicaragua	1995	2.8 5.3	••		••	79	 87	84	 86	0		8	
Niger	2001	6.4	6.0	••	••	··•		77	40	···		···•·······	••
Nigeria	1991	5.0	4.7	••		••	••		•				···········
Norway	1980	2.7		1				67		38			
Oman	2003	7.1											
Pakistan	1998	6.8	6.8			58	86	81					
Panama	2000	4.1		28 ^b		88	98 ^b	80	66 ^b	10 ^b	10 ^b	14	
Papua New Guinea	1990	4.5 ^b	6.5						44		8		••
Paraguay	2002	4.6	4.5	38 ^b	b	95 ^b	98 ^b	79	75	1 ^b	2 ^b	6 ^b	6 ^b
Peru	1993					49	64					7	3
Philippines	1990	5.3	5.3			62		83	76	6	11	4	4
Poland	1988	3.2										1	
Portugal	2001	2.8						76		86			
Puerto Rico	1990	3.3						72				11	



3.11 Urban housing conditions

		House siz		Overcre	owding	Dura dwel un	lling	Ho owne		Mult dwel		Vaca rat	-
	Census year	numb peo National		People overcr dwell % of National	owded ings ^a	Building durable s % of National	structure	Privately dwel % of National	lings	% of National	total Urban	Unocc dwell % of t National	ings
Romania	1992	3.1	3.1			58		87	77	39	71	6	4
Russian Federation	2002	2.8	2.7	7	 5		••			73	86	······································	
Rwanda	1991	4.7				 79	 78	92	 73	19	25	••	••
Saudi Arabia	1992	6.1	••	••		92		42	•		•	••	••
Senegal	1992		••			·· · ·········						••	••
				••						••		••	·····
Serbia and Montenegro	2001	2.9	2.2							••		••	••
Sierra Leone	1985	6.8	••			34		68					••
Singapore	2000	4.4	·····			·							••
Slovak Republic					••		••		••				••
Slovenia	1991	3.1	••		••		••	69	••	37		9	••
Somalia	1975		··········		······································		··········		•••	·		···········	······································
South Africa	2001	4.0								7			••
Spain	1991	3.3		0				78					
Sri Lanka	2001	3.8				93 _p	92 ^b	70 ^b	58 ^b	1	14 ^b	13	1 ^b
Sudan	1993	5.8	6.0					86 ^b	58 ^b	Op	1 ^b		••
Swaziland	1997	5.4	3.7				·····					······································	
Sweden	1990	2.0								54		1	
Switzerland	1990	2.4	2.1					31	24	28	32	11	7
Syrian Arab Republic	1981	6.3	6.0										
Tajikistan	2000												
Tanzania	2002	4.9	4.5 ^b	33 ^b	7 ^b			82 ^b	43 ^b				
Thailand	2000	3.8				93	93	81	62	3		3	
Togo													
Trinidad and Tobago	2000	3.7		9 ^b		98 ^b		74 ^b		17 ^b			
Tunisia	1994	8.0				99		71	89 ^b	6	10 ^b	15	12 ^b
Turkey	1990	5.0						70					
Turkmenistan													
Uganda	1991	4.9	4.0 ^b			21 ^b		80 ^b	24 ^b	Op	2 ^b		
Ukraine	2003												••
United Arab Emirates													
United Kingdom	2001		2.4						69		19		
United States	2000	2.7						66				9	7
Uruguay	1996	3.3	3.4 ^b	22 ^b				57 ^b	57 ^b			13 ^b	13 ^b
Uzbekistan													
Venezuela, RB	2001	4.4						78		14		16	
Vietnam	1999	4.6	4.5			77	89	95	86				
West Bank and Gaza	1997	7.1						78		45			
Yemen, Rep.	1994	6.7	6.8	54 ^b	6 ^b			88 ^b	68 ^b	3 ^b	11 ^b		
Zambia	2000	5.3	5.9					94	30				
Zimbabwe	1992	4.8	4.2					94	30	6			
	-552				•••		•••	٥,			•••••		

a. More than two people per room. b. Data are from previous census.

Urbanization can yield important social benefits, improving access to public services and the job market. At the same time it also leads to significant demands for services. Inadequate living guarters and demand for housing and shelter are major concerns for policymakers. The unmet demand for affordable housing, along with urban poverty, has led to the emergence of slums in many poor countries. Improving the shelter situation requires a better understanding of the mechanisms governing housing markets and the processes governing housing availability. That requires good data and adequate policy-oriented analysis so that housing policy can be formulated in a global comparative perspective and drawn from the lessons learned in other countries. Housing policies and outcomes affect such broad socioeconomic conditions as the infant mortality rate, performance in school, household saving, productivity levels, capital formation, and government budget deficits. A good understanding of housing conditions thus requires an extensive set of indicators within a reasonable framework.

There is a strong demand for quantitative indicators that can measure housing conditions on a regular basis to monitor progress. However, data deficiencies and lack of rigorous quantitative analysis hamper informed decisionmaking on desirable policies to improve housing conditions. The data in the table are from housing and population censuses, collected using similar definitions. The table will incorporate household survey data in future editions. The table focuses attention on urban areas, where housing conditions are typically most severe. Not all the compiled indicators are presented in the table because of space limitations. Additional indicators for more countries will be available in the online version of World Development Indicators and on the companion CD-ROM.

3.11a

Selected housing indica	itors for	smaller eco	nomies				
		Household size	Overcrowding	Durable dwelling	Home ownership	Multiunit dwellings	Vacancy rate
		5126		units	Ownership	uweiiiigs	late
	Census year	number of people	People living in overcrowded dwellings ^a % of total	Buildings with durable structure % of total	Privately owned dwellings % of total	% of total	Unoccupied dwellings % of total
Antigua and Barbuda	2001	3.0		99 ^b	65 ^b	3 ^b	22
Bahamas, The	1990	3.8	12	99	55	13	14
Bahrain	2001	5.9		94 ^b	51	28	6
Barbados	1990	3.5	3	100	76	9	9
Belize	2000	4.6		93	63	4	
Cape Verde	1990	5.1	28	78	72	2	
Cayman Islands	1999	3.1		100	53	38	19
Equatorial Guinea	1993	7.5	14	56 ^b	75	14	
Fiji	1996	5.4		60	65	7	
Guam	2000	4.0	2 ^b	93	48	29	19
Isle of Man	2001	2.4	0		68	16	
Maldives	2000	6.6	••	93		1	15
Marshall Islands	1999	7.8	••	95	72	12	8
Netherlands Antilles	2001	2.9	24 ^b	99	60	16	12
New Caledonia	1989	4.1		77	53	9	13
Northern Mariana Islands	1995	4.9	9 _p	99	33	27	17
Palau	2000	5.7	8	76	79	11	3
Seychelles	1997	4.2	15 ^b	97	78		0
Solomon Islands	1999	6.3	51	23	85	1	
St. Vincent & Grenadines	1991	3.9	••	98	71	7	
Turks and Caicos	1990	3.3	4	96	66	11	
Virgin Islands (U.K.)	1991	3.0	2	99	40	46	
Western Samoa	1991	7.3		42	90	47	30

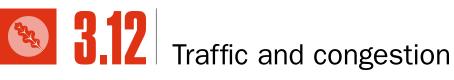
a. More than two people per room. b. Data are from previous census Source: National population and housing censuses

Definitions

. Household size refers to the average number of people within a household. It is calculated by dividing total population by the number of households in the country and in urban areas. • Overcrowding refers to the number of households living in dwellings with two or more people per room as a percentage of the total number of households in the country and in urban areas. • Durable dwelling units refer to the number of housing units in structures made of durable building materials (concrete, stone, cement, brick, asbestos, zinc, and stucco) expected to maintain their stability for 20 years or longer under local conditions with normal maintenance and repair, taking into account location and environmental hazards such as floods, mudslides, and earthquakes as a percentage of total dwellings. • Home ownership refers to the number of privately owned dwellings as a percentage of total dwellings or the number of households that own housing units as a percentage of total households. This category includes privately owned and owner-occupied units, depending on the definition used in the census data. State- and communityowned units, rented, squatted, and rent-free units are not included. • Multiunit dwellings refer to the number of multiunit dwellings, such as apartments, flats, condominiums, barracks, boarding houses, orphanages, retirement houses, hostels, hotels, and collective dwellings, as a percentage of total occupied dwellings. . Vacancy rate refers to the percentage of completed dwelling units that are currently unoccupied. It includes all vacant units, whether on the market or not (such as second homes).

Data sources

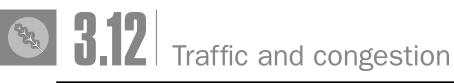
Data on urban housing conditions are from national population and housing censuses.



	Motor vehicles				Passenger cars		Tw whee	-	Roa traf			te matter trations
		_,000 ople		ometer road		.,000 pple	per 1 pec	.,000 pple	million v kilome		weighte microgr	opulation- ed PM10 rams per meter
	1990	2003 ^a	1990	2003 ^a	1990	2003a	1990	2003 ^a	1990	2003a	1990	2002
Afghanistan	3		3		2						34	27
Albania	11	70	3	12	2	47	3	1			93	58
Algeria	55		15		26						123	65
Angola	19		3		14						142	113
Argentina	181	181	27	37	134	140	1		43,119	27,458	105	78
Armenia	5		2		1		2			316		84
Australia	530		11		450		18	18	138,501		22	18
Austria	421	545	30	33	387	501	71	73		49,800	39	37
Azerbaijan	52	57	7	17	36	45	5	1		5,263		64
Bangladesh	1	1	0	1	0	0	1	1			229	157
Belarus	61	168	13	18	59	168	45	51	10,026	5,650	7	9
Belgium	423	527	30	37	385	470	14	31	150,750	156,633	31	28
Benin	3		2		2	·	34				75	51
Bolivia	41	10	6	1	25	3	9	0	1,139		119	92
Bosnia and Herzegovina	114		24		101				••		41	22
Botswana	18	92	3	6	10	38	1	1			40	25
Brazil	88	170	8	17	84	137		28	••		41	35
Bulgaria Burkina Faso	163 4	335	39 3	26	146 2	295	55 <i>9</i>	28	····	285	109 140	69 97
Burundi	••••••		• • • • • • • • • • • • • • • • • • • •		•	••	•		••	••	168	99
Cambodia	••	30	0	31	••	 25	9	 127	314	 7,210	83	51
Cameroon	 10	•	3	*	 6	•	•	•			118	86
Canada	605	 577	20	34	468	 561	12		••	••	25	21
Central African Republic	1		0		1		0		1,494		29	24
Chad	2		0		1		0				103	73
Chile	81	136	13	26	52	89	2	2			85	56
China	5	15	4	11	1	10	3	46		659,390	113 ^b	80 ^b
Hong Kong, China	66	79	253	287	42	59	4	5	8,192	10,781		38
Colombia	39	51	13	19	21	43	8	12	50,945	41,587	37	24
Congo, Dem. Rep.											70	57
Congo, Rep.	18		3		12						126	74
Costa Rica	87	185	7	21	55	103	14	29			50	40
Côte d'Ivoire	24		6		15						94	38
Croatia		324		50		291		22		18,104	52	35
Cuba	37		16		18		19				43	25
Czech Republic	246	391	46	31	228	358	113	75	37,350		70	25
Denmark	368	424	27	32	320	360	9	15	36,304	46,520	29	22
Dominican Republic	75		48		21						44	36
Ecuador	35	53	8	16	31	47	2	2	10,306	19,604	37	28
Egypt, Arab Rep.	29		33		21		6				227	136
El Salvador	33		14		17		0		2,002		46	40
Eritrea	1		1		1						178	109
Estonia	211	386	22	9	154	321	66	6	5,455	6,843	18	17
Ethiopia	1	2	2	4	1	1	0	0		1,495	175	88
Finland	441	450 506	29	30	386	433	12	47	39,750	49,790	24	22
France	494	596	32	40	405	495	55	···	422,000	548,900	18	15 12
Gabon Gambia Tho	32	 8	4 5	3	19 6	6			••		21	13 138
Gambia, The	13 107	63	5 27	16	89	50	5	0	4,620	••	189	138 46
Georgia Germany	405	578	53	206	89 386	50 545	5 18	45	4,620	639,100	204 28	46 22
Ghana	405 8	•	53 4	•	386 5	•	•	•		15,320	28 39	42
Greece	248	435	22	34	171	 331	 120	 229		79,377	70	48
Guatemala	248 21	433 57	22 16	45	11	52 52	10	229 12	 3,243	4,547	64	76
Guinea	4		1		2						87	63
Guinea-Bissau	7		2		4						114	84
Haiti	. 8		14		5				••		69	47

Traffic and congestion 3.12

			otor cles			enger ars		vo- elers	Roa traf			ite matter itrations
		1,000 ople		ometer road		L,000 ople		L,000 pple	million v kilome		weighte microgr	opulation- ed PM10 rams per meter
	1990	2003a	1990	2003 ^a	1990	2003a	1990	2003ª	1990	2003 ^a	1990	2002
Honduras	22	61	10	28	5	52		14	3,288		44	46
Hungary	212	313	21	19	188	274	16	10	22,898	23,260	35	22
India	4	9	2	3	2	6	15	35			109	84
Indonesia	16		10		7		34	59			137	114
Iran, Islamic Rep.	34		14		25		36				85	68
Iraq	14		6		1						150	167
Ireland	270	447	10	11	227	382	6	9	24,205	33,915	25	20
Israel	210	284	74	110	174	231	8	11	18,212	38,273	70	53
Italy	529	610	99	73	476	545	45	125	344,726	65,983	43	33
Jamaica	52		7		43						57	43
Japan	469	582	52	63	283	433	146	105	628,581	790,829	42	33
Jordan	60	99	26	71	44	67	0	0	1,098	526,677	124	69
Kazakhstan	76	96	8	6	50	77		5	18,248	4,087	12	27
Kenya	12	11	5	5	10	8	1	1	5,170		66	38
Korea, Dem. Rep.											203	88
Korea, Rep.	79	304	60	150	48	215	32	36	30,464		83	43
Kuwait	474	332	165		368	326					77	129
Kyrgyz Republic	44	38	10	10	44	38	16	2	5,220	1,992		36
Lao PDR	9		3		6		18				35	25
Latvia	135	329	6	11	106	280	76	10	3,932		30	17
Lebanon	321		183		300		13				41	43
Lesotho	11		4		3				445		176	94
Liberia	14		4		7						57	39
Libya	165		10		96		0				109	121
Lithuania	160	397	12	17	133	364	52	6		2,709	28	22
Macedonia, FYR	132		30		121		1		3,102		36	29
Madagascar	6		2		4				41,500		101	51
Malawi	4		4		2						169	88
Malaysia	124	254	26	75	101	222	167	249			36	28
Mali	3		2		2						144	102
Mauritania	10		3		7						55	42
Mauritius	59	119	35	72	44	88	54	103		78	85	47
Mexico	119	201	41	59	82	133	3	4	55,095		70	43
Moldova	53	78	17	26	48	60	45	3	891	678		41
Mongolia	21	41	1	2	6	26	22	10	340	2,321	22	16
Morocco	37	45	15	23	28	45	1	1		14,242	33	27
Mozambique	4		2		3				1,889		108	44
Myanmar	2		3		1						130	75
Namibia	71	82	1	4	39	42	1	. 2	1,896		74	50
Nepal											67	43
Netherlands	405	427	58	58	368	383	44	25	90,150	109,955	47	40
New Zealand	524	730	19	31	436	613	24	21	······································		16	16
Nicaragua	19	39	5	11	10	16	3	8	108	412	49	32
Niger	6	<u></u>	4		5	<u></u>			178	····	112	86
Nigeria	30		21		12		5		···		172	95
Norway	458	527	22	26	380	424	48	64	28,136	35,047	26	18
Oman	130		9		83	<u></u>	3				163	124
Pakistan	6	8	4	5	4	7	8	11	25,317	205,385	226	165
Panama	75	107	18	27	60	76	2		·•.		58	58
Papua New Guinea	27		6		. 7				<u></u>		12	11
Paraguay	27	88	4	15	16	52					109	103
Peru	128	46	43	16	62	30		9		23,360	98	68
Philippines	10	34	4	13	. 7	9	6	18	6,189	9,548	55	34
Poland	168	354	18	33	138	294	36	22	59,608	138,100	59	39
Portugal	222	463	34	278	162	429	5	56	28,623	47,943	53	31
Puerto Rico	295		79		242					741,445	70	62



			tor cles			enger irs	Tw whee		Ro tra		Particulate matter concentrations		
		_,000 pple	per kilometer of road			.,000 pple	per 1 peo		million kilom		weighte microgr	pulation- d PM10 ams per meter	
	1990	2003 ^a	1990	2003a	1990	2003a	1990	2003a	1990	2003 ^a	1990	2002	
Romania	72	168	11	19	56	144	13	12	23,907	35,675	36	20	
Russian Federation	87	174	14	48	65	140		43		56,455	13	25	
Rwanda	2		1		1						162	100	
Saudi Arabia	165		19		98		0		94.141		105	91	
Senegal	11	14	6	9	8	11	0	0		4,013	99	93	
Serbia and Montenegro	137		31		133		3			.,,	26	17	
Sierra Leone	10	4	4	2	7	2	2	0	996	•	101	69	
Singapore	130	135	142	111	89	100	40	32		 16,133	107	48	
	194	286	57	36	163	252	61	9		10,133	40	20	
Slovak Republic	•••••	•	•	•	•	•			8,127	•	•	•	
Slovenia	306	490	42	25	289	446	8	21	5,620	10,261		33	
Somalia	2		1		1			······································			81	35	
South Africa	139	144	26	24	97	92	8	4			34	24	
Spain	360	558	43	34	309	455	79	37	100,981	224,370	42	40	
Sri Lanka	21	34	4		7	13	24	49	3,468	15,630	97	93	
Sudan	9		22		8		••				291	219	
Swaziland	66	83	18	24	35	40	3	3			117	71	
Sweden	464	504	29	11	426	455	11	24	61,040	58,992	15	14	
Switzerland	491	553	46	57	449	511	114	103	48,660	59,052	37	27	
Syrian Arab Republic	26	36	10	7	10	12		6			151	89	
Tajikistan	3		1		0					1,092		57	
Tanzania	5		2		1						57	38	
Thailand	46		36		14		86		45,769	••	87	77	
Togo	24		11	•	16	•	8		•	•	50	45	
Trinidad and Tobago	117	•	19		98	••		••		••	124	22	
Tunisia	48	 88	19	43	23	 60	••	1	···	 19,231	71	46	
	•••••	•	•	•	•	•				•	•	•	
Turkey	50	90	8	101	34	66	10	15	27,041	52,344	76	56	
Turkmenistan			••									73	
Uganda	2	5	·····	4	1	2	0	3		······································	60	33	
Ukraine	63	137	20	39	63	114	59	28	59,500	13,755	45	29	
United Arab Emirates	121		52		97						233	109	
United Kingdom	400	442	64	42	341	439	14	19	399,000	484,722	25	17	
United States	758	808	30	36	573	482	17	17	2,527,441	4,208,594	30	24	
Uruguay	138		45		122		74				235	154	
Uzbekistan											95	81	
Venezuela, RB	93		25		73				563		22	12	
Vietnam							45				127	66	
West Bank and Gaza													
Yemen, Rep.	34		8		14				8,681			82	
Zambia	14		3		8						133	71	
Zimbabwe	32	50	4	7	29	44	33	4			60	43	
World	118 w	141 w			91 w	100 w					77 w	60 w	
Low income	5	8		**	31 W	6							
***************************************		•		······	•	•		••	····	••	129	89	
Middle income	37	69			24	51			······································		79	62	
Lower middle income	22	39			10	29	••	••			92	70	
Upper middle income	121	187			91	143					50	40	
Low & middle income	25	47			16	35					93	70	
East Asia & Pacific	9	20			4	14	••				112	80	
Europe & Central Asia	97	170			79	142					39	35	
Latin America & Carib.	100	153			72	108					60	43	
Middle East & N. Africa	36				24						126	89	
South Asia	4	10			2	6					131	99	
Sub-Saharan Africa	21				15	••					114	73	
High income	499	623			390	433	••				37	29	
Europe EMU	429	570			379	502					33	27	

a. Data are for 2003 or most recent year available. b. Includes data for Hong Kong, China; Macao, China; and Taiwan, China.

Traffic and congestion

About the data

Traffic congestion in urban areas constrains economic productivity, damages people's health, and degrades the quality of their lives. The particulate air pollution emitted by motor vehicles—the dust and soot in exhaust—is proving to be far more damaging to human health than was once believed. (For information on particulate matter and other air pollutants, see table 3.13.)

In recent years ownership of passenger cars has increased, and the expansion of economic activity has led to the transport by road of more goods and services over greater distances (see table 5.8). These developments have increased demand for roads and vehicles, adding to urban congestion, air pollution, health hazards, traffic accidents, and injuries.

Congestion, the most visible cost of expanding vehicle ownership, is reflected in the indicators in the table. Other relevant indicators—such as average vehicle speed in major cities or the cost of traffic congestion, which takes a heavy toll on economic productivity—are not included because data are incomplete or difficult to compare.

The data in the table—except those on fuel prices—are compiled by the International Road Federation (IRF) through questionnaires sent to national organizations. The IRF uses a hierarchy of sources to gather as much information as possible. The primary sources are national road associations. Where such an association lacks data or does not respond, other agencies are contacted, including road directorates, ministries of transport or public works, and central statistical offices. As a result, the compiled data are of uneven quality. The coverage of each indicator

may differ across countries because of differences in definitions. Comparability also is limited when time-series data are reported. Moreover, the data do not capture the quality or age of vehicles or the condition or width of roads. Thus comparisons over time and between countries should be made with caution.

Estimates of particulate matter concentrations weighted by urban population represent the average annual exposure level of the average urban resident to outdoor particulate matter under 10 microns (PM10). Data for countries and aggregates for regions and income groups are urban-population-weighted PM10 levels in residential areas of cities with more than 100,000 residents; they are available at www.worldbank.org/research. Data for selected cities are in table 3.13.

Significant uncertainties exist around these estimates, and caution should be used in interpreting them. But they do allow for cross-country comparisons of the relative risk of particulate matter pollution that urban residents face. Major sources of urban outdoor particulate matter pollution are emissions from traffic and industrial sources, but nonanthropogenic sources such as dust storms may also be a significant contributor for some cities. Estimates of economic damages from death and illness due to particulate matter pollution are shown in table 3.15.

Definitions

. Motor vehicles include cars, buses, and freight vehicles but not two-wheelers. Population figures refer to the midyear population in the year for which data are available. Roads refer to motorways, highways, main or national roads, and secondary or regional roads. A motorway is a road specially designed and built for motor traffic that separates the traffic flowing in opposite directions. • Passenger cars refer to road motor vehicles, other than two-wheelers, intended for the carriage of passengers and designed to seat no more than nine people (including the driver). • Two-wheelers refer to mopeds and motorcycles. • Road traffic is the number of vehicles multiplied by the average distances they travel. • Particulate matter concentrations refer to fine suspended particulates less than 10 microns in diameter that are capable of penetrating deep into the respiratory tract and causing significant health damage. The state of a country's technology and pollution controls is an important determinant of particulate matter concentrations.

3.12a

The 15 countries with the fewest passenger cars per 1,000 people in 2003—and the 15 with the most

Country	Number of cars	Country	Number of cars
Bangladesh	0.5	New Zealand	613
Ethiopia	1	Canada	561
Sierra Leone	2	Germany	545
Uganda	2	Italy	545
Bolivia	3	Switzerland	511
Gambia, The	6	Austria	501
India	6	France	495
Pakistan	7	United States	482
Kenya	8	Belgium	470
Afghanistan	9	Spain	455
Philippines	9	Sweden	455
China	10	Slovenia	446
Senegal	11	United Kingdom	439
Syrian Arab Republic	12	Finland	433
Sri Lanka	13	Japan	433

Source: Table 3.12.

Data sources

Data on vehicles and traffic are from the IRF's electronic files and its annual *World Road Statistics*. Data on particulate matter concentrations are from Kiran Dev Pandey, David Wheeler, Bart Ostro, Uwe Deichmann, Kirk Hamilton, and Katie Bolt's "Ambient Particulate Matter Concentrations in Residential and Pollution Hotspot Areas of World Cities: New Estimates Based on the Global Model of Ambient Particulates (GMAPS)" (2006).



		City population	Particulate matter	Sulfur dioxide	Nitrogen dioxide
	City	thousands 2005	micrograms per cubic meter 2002	micrograms per cubic meter 1995–2001 ^a	micrograms per cubic meter 1995–2001 ^a
Argentina	Cordoba City	1,592	58		97
Australia	Melbourne	3,663	13		30
	Perth	1,484	13	5	19
	Sydney	4,388	22	28	81
Austria	Vienna	2,190	44	14	42
Belgium	Brussels	1,027	30	20	48
Brazil	Rio de Janeiro	11,469	42	129	
5.1	Sao Paulo	18,333	49	43	83
Bulgaria	Sofia	1,045	76	39	122
Canada	Montreal	3,511	20	10	42
	Toronto Vancouver	5,060 2,125	24 14	17 14	43 37
Chile	Santiago	2,125 5,623	62	29	37 81
China	Anshan	5,623 1,459	92	115	88
Official	Beijing	10,849	99	90	122
	Changchun	3,092	82	21	64
	Chengdu	3,478	95	77	74
	Chongquing	4,975	137	340	70
	Dalian	2,709	55	61	100
	Guangzhu	976	70	57	136
	Guiyang	2,467	78	424	53
	Harbin	2,898	85	23	30
	Jinan	2,654	104	132	45
	Kunming	1,748	78	19	33
	Lanzhou	1,788	101	102	104
	Liupanshui	2,118	65	102	
	Nanchang	1,742	87	69	29
	Pinxiang	1,562	74	75	
	Quingdao	2,431	68	190	64
	Shanghai	12,665	81	53	73
	Shenyang	4,916	112	99	73
	Taiyuan	2,516	98	211	55
	Tianjin	9,346	139	82	50
	Urumqi	1,467 ^b	57	60	70
	Wuhan	6,003	88	40	43
	Zhengzhou Zibo	2,250 2,775	108 82	63 198	95 43
Colombia	Bogota	5,442 ^b	32	136	43
Croatia	Zagreb	908 ^b	37	31	
Cuba	Havana	2,192	28	1	
Czech Republic	Prague	1,164	25	14	33
Denmark	Copenhagen	1,091	23	7	54
Ecuador	Guayaquil	2,387	25	15	
	Quito	1,514	33	22	
Egypt, Arab Rep.	Cairo	11,146	159	69	••
Finland	Helsinki	1,103	23	4	35
France	Paris	9,854	12	14	57
Germany	Berlin	3,328	25	18	26
	Frankfurt	668 ^b	22	11	45
	Munich	2,318	22	8	53
Ghana	Accra	1,970	40		
Greece	Athens	3,238	51	34	64
Hungary	Budapest	1,670	23	39	51
Iceland	Reykjavik	164 ^b	20	5	42
India	Ahmedabad	5,171	98	30	21
	Bangalore	6,532	53		

In many towns and cities exposure to air pollution is the main environmental threat to human health. Long-term exposure to high levels of soot and small particles in the air contributes to a wide range of health effects, including respiratory diseases, lung cancer, and heart disease. Particulate pollution, on its own or in combination with sulfur dioxide, leads to an enormous burden of ill health.

Emissions of sulfur dioxide and nitrogen oxides lead to the deposition of acid rain and other acidic compounds over long distances. Acid deposition changes the chemical balance of soils and can lead to the leaching of trace minerals and nutrients critical to trees and plants.

Where coal is the primary fuel for power plants, steel mills, industrial boilers, and domestic heating, the result is usually high levels of urban air pollution—especially particulates and sometimes sulfur dioxide—and, if the sulfur content of the coal is high, widespread acid deposition. Where coal is not an important primary fuel or is used in plants with effective dust control, the worst emissions of air pollutants stem from the combustion of petroleum products.

The data on sulfur dioxide and nitrogen dioxide concentrations are based on reports from urban monitoring sites. Annual means (measured in micrograms per cubic meter) are average concentrations observed at these sites. Coverage is not comprehensive because not all cities have monitoring systems.

The data on concentrations of particulate matter are estimates, for selected cities, of average annual concentrations in residential areas away from air pollution "hotspots," such as industrial districts and transport corridors. The data have been extracted from a complete set of estimates developed by the World Bank's Development Research Group and Environment Department in a study of annual ambient concentrations of particulate matter in world cities with populations exceeding 100,000 (Pandey and others 2006).

Pollutant concentrations are sensitive to local conditions, and even in the same city different monitoring sites may register different concentrations. Thus these data should be considered only a general indication of air quality in each city, and cross-country comparisons should be made with caution. The current World Health Organization (WHO) air quality guidelines for annual mean concentrations are 50 micrograms per cubic meter for sulfur dioxide and 40 micrograms for nitrogen dioxide. The WHO has set no guidelines for particulate matter concentrations below which there are no appreciable health effects.

		City population	Particulate matter	Sulfur dioxide	Nitrogen dioxide
	City	thousands 2005	micrograms per cubic meter 2002	micrograms per cubic meter 1995–2001 ^a	micrograms per cubic meter 1995–2001 ^a
India	Calcutta	14,299	145	49	34
	Chennai	6,915	44	15	17
	Delhi	15,334	177	24	41
	Hyderabad	6,145	48	12	17
	Kanpur	3,040	128	15	14
	Lucknow	2,589	129	26	25
	Mumbai	18,336	74	33	39
	Nagpur	2,359	65	6	13
Indonesia	Pune	4,485 13.194	55	<u> </u>	••
Indonesia Iran, Islamic Rep.	Jakarta Tehran	7,352	115 68	209	
Ireland	Dublin	1,033	21	209	
Italy	Milan	4.007	36	31	248
	Rome	2,628	35		
	Torino	969 ^b	53	••	
Japan	Osaka	2,626 ^b	37	19	63
	Tokyo	35,327	42	18	68
	Yokohama	3,366	32	100	13
Kenya	Nairobi	2,818	42		
Korea, Rep	Pusan	3,527	44	60	51
	Seoul -	9,592	46	44	60
	Taegu	2,510	50	81	62
Malaysia	Kuala Lumpur	1,392	28	24	
Mexico Netherlands	Mexico City Amsterdam	19,013 1,157	55 40	74 10	130 58
New Zealand	Amsterdam	1,157	40 15	3	20
Norway	Oslo	808	19	8	43
Philippines	Manila	10,432 ^b	42	33	
Poland	Lodz	943	39	21	43
	Warsaw	2,204	43	16	32
Portugal	Lisbon	1,977	28	8	52
Romania	Bucharest	1,764	22	10	71
Russian Federation	Moscow	10,672	25	109	
	Omsk	1,132	27	20	34
Singapore	Singapore	4,372	48	20	30
Slovak Republic	Bratislava	456 ^b	19	21	27
South Africa	Capetown	3,103	15	21	72
	Durban	2,643	29 30	31 19	31
Spain	Johannesburg Barcelona	3,288 4,424	43	11	43
Opain	Madrid	5,145	37	24	66
Sweden	Stockholm	1,729	13	3	20
Switzerland	Zurich	984	26	11	39
Thailand	Bangkok	6,604	83	11	23
Turkey	Ankara	3,593	54	55	46
	Istanbul	9,760	64	120	
Ukraine	Kiev	2,623	38	14	51
United Kingdom	Birmingham	2,215	26	9	45
	London	7,615	23	25	77
	Manchester	2,193	17	26	49
United States	Chicago	8,711	26	14	57
	Los Angeles	12,146	36	9	74
	New York	18,498	22	26	79
Venezuela, RB	Caracas	3,276	17	33	57

a. Data are for the most recent year available. b. Data are for 2000.

Definitions

- City population is the number of residents of the city or metropolitan area as defined by national authorities and reported to the United Nations.
- Particulate matter refers to fine suspended particulates less than 10 microns in diameter that are capable of penetrating deep into the respiratory tract and causing significant health damage. The state of a country's technology and pollution controls is an important determinant of particulate matter concentrations. • Sulfur dioxide is an air pollutant produced when fossil fuels containing sulfur are burned. It contributes to acid rain and can damage human health, particularly that of the young and the elderly. • Nitrogen dioxide is a poisonous, pungent gas formed when nitric oxide combines with hydrocarbons and sunlight, producing a photochemical reaction. These conditions occur in both natural and anthropogenic activities. Nitrogen dioxide is emitted by bacteria, motor vehicles, industrial activities, nitrogenous fertilizers, combustion of fuels and biomass, and aerobic decomposition of organic matter in soils and oceans.

Data sources

Data on city population are from the United Nations Population Division. Data on particulate matter concentrations are from a recent World Bank study by Kiran D. Pandey, David Wheeler, Bart Ostro, Uwe Deichman, Kirk Hamilton, and Kathrine Bolt, "Ambient Particulate Matter Concentration in Residential and Pollution Hotspot Areas of World Cities: New Estimates Based on the Global Model of Ambient Particulates (GMAPS)" (2006). Data on sulfur dioxide and nitrogen dioxide concentrations are from the WHO's Healthy Cities Air Management Information System and the World Resources Institute, which relies on various national sources as well as, among others, the Organisation for Economic Co-operation and Development's OECD Environmental Data Compendium 1999, the U.S. Environmental Protection Agency's National Air Quality and Emissions Trends Report 1995, the Aerometric Information Retrieval System Executive International database, and the United Nations Centre for Human Settlements' Urban Indicators database.



	Environ- mental strategies or action plans	mental assessments, strategies or action action plans in treaties in treaties a strategies or action plans										
			Climate change ^b	Ozone layer	CFC control	Law of the Sea ^c	Biological diversity ^b	Kyoto Protocol	CITES	CCD	Stockholm Convention	
Afghanistan			2002	2004 ^f	2004 ^f		2002		1985 ^f	1995 ^f		
Albania	1993		1995	1999 ^f	1999 ^f	2003 ^f	1994 ^f	2005 ^f	2003 ^f	2000 ^f	2004	
Algeria	2001		1994	1992 ^f	1992 ^f	1996	1995	2005 ^f	1983 ^f	1996		
Angola			2000	2000 ^f	2000 ^f	1994	1998			1997		
Argentina	1992		1994	1990	1990	1995	1994	2001	1981	1997	2005	
Armenia			1994	1999 ^f	1999 ^f	2002 ^f	1993 ^d	2003 ^f		1997	2003	
Australia	1992	1994	1994	1987 ^f	1989	1994	1993		1976	2000	2004	
Austria			1994	1987	1989	1995	1994	2002	1982 ^f	1997 ^f	2002	
Azerbaijan	1998		1995	1996 ^f	1996 ^f		2000 ^e	2000 ^f	1998 ^f	1998 ^f	2004 ^f	
Bangladesh	1991	1990	1994	1990 ^f	1990 ^f	2001	1994	2001 ^f	1981	1996		
Belarus		••	2000	1986 ^d	1988 ^d		1993		1995 ^f	2001 ^f	2004 ^f	
Belgium			1996	1988	1988	1998	1996	2002	1983	1997 ^f		
Benin	1993		1994	1993 ^f	1993 ^f	1997	1994	2002 ^f	1984 ^f	1996	2004	
Bolivia	1994	1988	1995	1994 ^f	1994 ^f	1995	1994	1999	1979	1996 2002 ^f	2003	
Bosnia and Herzegovina Botswana	1990	1991	2000 1994	1992 ^g 1991 ^f	1992 ^g 1991 ^f	1994 ^g 1994	2002 [†] 1995	 2003 ^f	2002 1977 ^f	1996	 2002 ^f	
Brazil		1988	1994	1991 ^r	1991 ^f	1994	1995	2003	1977	1996	2002	
Bulgaria	••	1986	1994	1990 ^f	1990 ^f	1994	1994	2002	1975 1991 ^f	2001 ^f	2004	
Burkina Faso	1993	1994	1994	1989	1989	2005	1993	2002 2005 ^f	1991 1989 ^f	1996	2004	
Burundi	1994	1989	1997	1997 ^f	1997 ^f	•••••	1997	2003	1988 ^f	1997	2005	
Cambodia	1999	1909	1996	2001 ^f	2001 ^f	••	1995 ^f	2001 2002 ^f	1997	1997	2003	
Cameroon	1000	1989	1995	1989 ^f	1989 ^f	1994	1994	2002 ^f	1981 ^f	1997		
Canada	1990	1994	1994	1986	1988	2003	1992	2002	1975	1995	2001	
Central African Republic			1995	1993 ^f	1993 ^f		1995		1980 ^f	1996	2001	
Chad	1990		1994	1989 ^f	1994		1994		1989 ^f	1996	2004	
Chile		1993	1995	1990	1990	1997	1994	2002	1975	1997	2005	
China	1994	1994	1994	1989 ^f	1991 ^f	1996	1993	2002 ^e	1981 ^f	1997	2004	
Hong Kong, China				••								
Colombia	1998	1988	1995	1990 ^f	1993 ^f		1994	2001 ^f	1981	1999		
Congo, Dem. Rep.		1990	1995	1994 ^f	1994 ^f	1995	1996	2005 ^f	1976 ^f	1997	2005 ^f	
Congo, Rep.		1990	1997	1994 ^f	1994 ^f		1994		1983 ^f	1999		
Costa Rica	1990	1992	1994	1991 ^f	1991 ^f	1994	1994	2002	1975	1998		
Côte d'Ivoire	1994	1991	1995	1993 ^f	1993 ^f	1994	1994		1994 ^f	1997	2004	
Croatia	2001	2000	1996	1991 ^d	1991 ^d	1994 ^g	1996	••	2000 ^f	2000 ^d		
Cuba			1994	1992 ^f	1992 ^f	1994	1994	2002	1990 ^f	1997		
Czech Republic	1994		1994	1993 ^d	1993 ^d	1996	1993 ^e	2001 ^e	1993 ^g	2000 ^f	2002	
Denmark	1994		1994	1988	1988	2004	1993	2002	1977	1995 ^f	2003	
Dominican Republic		1995	1999	1993 ^f	1993 ^f		1996	2002 ^f	1986 ^f	1997 ^f		
Ecuador	1993	1995	1994	1990 ^f	1990 ^f		1993	2000	1975	1995	2004	
Egypt, Arab Rep.	1992	1988	1995	1988	1988	1994	1994	2005 ^f	1978	1995	2003	
El Salvador	1994	1988	1996	1992	1992		1994	1998	1987 ^f	1997 ^f	 	
Eritrea	1995		1995	2005 ^f	2005 ^f		1996 ^f	2005 ^f	1994 ^f	1996	2005 ^f	
Estonia	1998		1994	1996 ^f	1996 [†]	2005 [†]	1994	2002	1992 ^f			
Ethiopia	1994	1991	1994	1994 ^f	1994 ^f		1994	2005 ^f	1989 ^f	1997	2003	
Finland	1995		1994	1986 1987 ^e	1988	1996	1994 ^d	2002 2002 ^e	1976 ^f	1995 ^d	2002 ^d 2004 ^e	
France	1990	1000	1994	······	1988 ^e	1996	1994	2002-	1978	1997 1996 ^f	2004-	
Gabon Gambia, The	 1992	1990	1998 1994	1994 ^f 1990 ^f	1994 ^f 1990 ^f	1998 1994	1997 1994	 2001 ^f	1989 ^f 1977 ^f	•	••	
	1992 1998	1989	-	1990 ^f	• • • • • • • • • • • • • • • • • • • •	·····	1994 1994 ^f	2001 ¹ 1999 ^f	•	1996	••	
Georgia Germany			1994 1994	1996	1996 [†] 1988	1996 [†] 1994 ^f	1994	2002	1996 [†] 1976	1999 1996	2002	
Ghana	 1992	 1988	1994	1988 1989 ^f	1988	1994	1993	2002 2003 ^f	1975	1996	2002	
Greece			1995	1989	1989	1994	1994	2003	1975 1992 ^f	1996		
Guatemala	1994	 1988	1994	1987 ^f	1989 ^f	1997	1995	1999	1979	1998 ^f	••	
Guinea	1994	1988	1994	1992 ^f	1989 1992 ^f	1994	1993	2000 ^f	1979	1997		
Guinea-Bissau	1993	1991	1996	2002 ^f	2002 ^f	1994	1995	2000	1990 ^f	1995		
Haiti	1999		1996	2002	2002	1996	1996	2005 ^f		1996	······································	
	1000					1000						

Government commitment 3.14

	Environ- mental strategies or action plans	al assessments, in treaties ^a strategies, or on action plans									
			Climate change ^b	Ozone layer	CFC control	Law of the Sea ^c	Biological diversity ^b	Kyoto Protocol	CITES	CCD	Stockholm Convention
Honduras	1993		1996	1993 ^f	1993 ^f	1994	1995	2000	1985 ^f	1997	2005
Hungary	1995		1994	1988 ^f	1989 ^f	2002	1994	2002 ^f	1985 ^f	1999 ^f	
India	1993	1994	1994	1991 ^f	1992 ^f	1995	1994	2002 ^f	1976	1996	
Indonesia	1993	1993	1994	1992 ^f	1992	1994	1994	2004	1978 ^f	1998	
Iran, Islamic Rep.			1996	1990 ^f	1990 ^f		1996	2005 ^f	1976	1997	
Iraq						1994					
Ireland			1994	1988 ^f	1988	1996	1996	2002	2002	1997	••
Israel			1996	1992 ^f	1992	 100F	1995	2004	1979	1996	••
Italy	1994	••	1994 1995	1988 1993 ^f	1988 1993 ^f	1995 1994	1994 1995	2002 1999 ^f	1979 1997 ^f	1997 1997 ^f	••
Jamaica		······································	1995	1988 ^f	1988	1994	1993 ^d	2002 ^d	1980	1997	2002 ^f
Japan Jordan	1991		1994	1989 ^f	1989 ^f	1995 ^f	1993	2002 ^f	1978 ^f	1996	2002
Kazakhstan		••	1994	1998 ^f	1998 ^f	1990	1993	2003	2000 ^f	1996	2004
Kenya	1994	1992	1993	1988 ^f	1988	1994	1994	2005 ^f	1978	1997	2004
Korea, Dem. Rep.			1995	1995 ^f	1995 ^f	1334	1994 ^e	2005 ^f	1370	2003 ^f	2004 2002 ^f
Korea, Rep.			1994	1992	1992	1996	1994	2003	1993 ^f	1999	2002
Kuwait			1995	1992 ^f	1992 ^f	1994	2002	2005 ^f	2002	1997	
Kyrgyz Republic	1995		2000	2000 ^f	2000 ^f		1996 ^e	2003 ^f		1997 ^f	
Lao PDR	1995		1995	1998 ^f	1998 ^f	1998	1996 ^e	2003 ^f	2004 ^f	1996 ^d	
Latvia			1995	1995 ^f	1995 ^f	2004 ^f	1995	2002	1997 ^f	2002 ^f	2004
Lebanon			1995	1993 ^f	1993 ^f	1995	1994			1996	2003
Lesotho	1989		1995	1994 ^f	1994 ^f		1995	2000 ^f	2003	1995	2002
Liberia			2003	1996 ^f	1996 ^f		2000	2002 ^f	1981 ^f	1998 ^f	2002 ^f
Libya			1999	1990 ^f	1990 ^f		2001		2003 ^f	1996	2005 ^f
Lithuania			1995	1995 ^f	1995 ^f	2003 ^f	1996	2003	2001 ^f	2003 ^f	
Macedonia, FYR			1998	1994 ^g	1994 ^g	1994 ^g	1997 ^f	2004 ^f	2000 ^f	2002 ^f	2004
Madagascar	1988	1991	1999	1996 ^f	1996 ^f	2001	1996	2003 ^f	1975	1997	
Malawi	1994		1994	1991 ^f	1991 ^f		1994	2001 ^f	1982 ^f	1996	
Malaysia	1991	1988	1994	1989 ^f	1989 ^f	1996	1994	2002	1977 ^f	1997	
Mali		1989	1995	1994 ^f	1994 ^f	1994	1995	2002	1994 ^f	1995	2003
Mauritania	1988		1994	1994 ^f	1994 ^f	1996	1996	2005 ^f	1998 ^f	1996	2005
Mauritius	1990	······	1994	1992 [†]	1992 ^f	1994	1992	2001 ^f	1975	1996	2004
Mexico		1988	1994	1987	1988	1994	1993	2000	1991 ^f	1995	2003
Moldova	2002		1995	1996 ^f	1996 ^f		1995	2003 ^f	2001 ^f	1999 ^f	2004
Mongolia	1995		1994	1996 ^f	1996 ^f	1996	1993	1999 ^f	1996 ^f	1996	2004
Morocco		1988	1996	1995	1995		1995	2002 ^f	1975	1996	2004
Myanmar	1994	1000	1995	1994 ^f 1993 ^f	1994 ^f 1993 ^f	1997	1995	2005 ^f 2003 ^f	1981 ^f 1997 ^f	1997 1997 ^f	2005 2004 ^f
Myanmar Namibia	1992	1989	1995 1995	1993 ^f	1993 ^f	1996 1994	1995 1997	2003 ^f	1997	1997	2004 ^r
Nepal	1992	••	1995	1993 ^f	1993 ^f	1994	1997	2005 ^f	1975 ^f	1996	2005
Netherlands	1993		1994	1988 ^f	1988 ^d	1996	1993	2003 2002 ^f	1984	1995 ^d	2002 ^d
New Zealand	1994		1994	1987	1988	1996	1993	2002	1989 ^f	2000 ^f	2002
Nicaragua	1994		1996	1993 ^f	1993 ^f	2000	1995	1999	1977 ^f	1998	2004
Niger		1991	1995	1992 ^f	1992 ^f		1995	2004	1975	1996	
Nigeria	1990	1992	1994	1988 ^f	1988 ^f	1994	1994	2004 ^f	1974	1997	2004
Norway		1994	1994	1986	1988	1996	1993	2002	1976	1996	2002
Oman			1995	1999 ^f	1999 ^f	1994	1995	2005 ^f		1996 ^f	2005
Pakistan	1994	1991	1994	1992 ^f	1992 ^f	1997	1994	2005 ^f	1976 ^f	1997	
Panama	1990		1995	1989 ^f	1989	1996	1995	1999	1978	1996	2003
Papua New Guinea	1992	1993	1994	1992 ^f	1992 ^f	1997	1993	2002	1975 ^f	2000 ^f	2003
Paraguay			1994	1992 ^f	1992 ^f	1994	1994	1999	1976	1997	2004
Peru		1988	1994	1989	1993 ^f		1993	2002	1975	1995	2005
Philippines	1989	1989	1994	1991 ^f	1991	1994	1993	2003	1981	2000	2004
Poland	1993	1991	1994	1990 ^f	1990 ^f	1998	1996	2002	1989	2001 ^f	
Portugal	1995		1994	1988 ^f	1988	1997	1993	2002 ^e	1980	1996	2004 ^d
Puerto Rico											



	Environ- mental strategies or action plans	Biodiversity assessments, strategies, or action plans					Participatior in treaties ^a	1			
			Climate change ^b	Ozone layer	CFC control	Law of the Sea ^c	Biological diversity ^b	Kyoto Protocol	CITES	CCD	Stockholm Convention
Romania	1995		1994	1993 ^f	1993 ^f	1996	1994	2001	1994 ^f	1998 ^f	2004
Russian Federation	1999	1994	1995	1986 ^d	1988 ^d	1997	1995	2004	1992	2003 ^f	
Rwanda	1991		1998	2001 ^f	2001 ^f		1996	2004 ^f	1980 ^f	1998	2002 ^f
Saudi Arabia			1995	1993 ^f	1993 ^f	1996	2001 ^e	2005 ^f	1996 ^f	1997 ^f	
Senegal	1984	1991	1995	1993 ^f	1993	1994	1994	2001 ^f	1977 ^f	1995	2003
Serbia and Montenegro			2001	2001 ^g	2001 ^g	2001 ^g	2002		2002		2002
Sierra Leone	1994		1995	2001 ^f	2001 ^f	1994	1994 ^e		1994 ^f	1997	2003 ^f
Singapore	1993	1995	1997	1989 ^f	1989 ^f	1994	1995		1986 ^f	1999 ^f	2005
Slovak Republic			1994	1993 ^g	1993 ^g	1996	1994 ^e	2002	1993	2001 ^f	2002
Slovenia	1994		1996	1992 ^g	1992 ^g	1995 ^g	1996	2002	2000 ^f	2001 ^f	2004
Somalia				2001 ^f	2001 ^f	1994			1985 ^f	2002 ^f	
South Africa	1993		1997	1990 ^f	1990 ^f	1997	1995	2002 ^f	1975	1997	2002
Spain			1994	1988 ^f	1988	1997	1995	2002	1986 ^f	1996	2004
Sri Lanka	1994	1991	1994	1989 ^f	1989 ^f	1994	1994	2002 ^f	1979 ^f	1998 ^f	
Sudan			1994	1993 ^f	1993 ^f	1994	1995	2004 ^f	1982	1995	
Swaziland			1997	1992 ^f	1992 ^f		1994		1997 ^f	1996	
Sweden			1994	1986	1988	1996	1993	2002	1974	1995	2002
Switzerland			1994	1987	1988		1994	2003	1974	1996	2003
Syrian Arab Republic	1999		1996	1989 ^f	1989 ^f		1996		2003 ^f	1997	2005
Tajikistan			1998	1996 ^f	1998 ^f		1997 ^e			1997 ^f	
Tanzania	1994	1988	1996	1993 ^f	1993 ^f	1994	1996	2002 ^f	1979	1997	2004
Thailand	200 .		1995	1989 ^f	1989		2004	2002	1983	2001 ^f	2005
Togo	1991	••	1995	1991 ^f	1991	1994	1995 ^d	2004 ^f	1978	1995 ^d	2004
Trinidad and Tobago			1994	1989 ^f	1989 ^f	1994	1996	1999	1984 ^f	2000 ^f	2002 ^f
Tunisia	1994	1988	1994	1989 ^f	1989 ^f	1994	1993	2003 ^f	1974	1995	2004
Turkey	1998		2004	1991 ^f	1991 ^f		1997		1996 ^f	1998	
Turkmenistan			1995	1993 ^f	1993 ^f		1996 ^e	1999		1996	
Uganda	1994	1988	1994	1988 ^f	1988	1994	1993	2002 ^f	1991 ^f	1997	2004 ^f
Ukraine	1999		1997	1986 ^d	1988 ^d	1999	1995	2004	1999 ^f	2002 ^f	
United Arab Emirates			1996	1989 ^f	1989 ^f		2000	2005 ^f	1990 ^f	1998 ^f	2002
United Kingdom	1995	1994	1994	1987	1988	1997 ^f	1994	2002	1976	1996	2005
United States	1995	1995	1994	1986	1988				1974	2000	
Uruguay			1994	1989 ^f	1991 ^f	1994	1993	2001	1975	1999 ^f	2004
Uzbekistan			1994	1993 ^f	1993 ^f		1995 ^e	1999	1997 ^f	1995	
Venezuela, RB			1995	1988 ^f	1989		1994		1977	1998 ^f	2005
Vietnam		1993	1995	1994 ^f	1994 ^f	 1994	1994	2002	1994 ^f	1998 ^f	2002
West Bank and Gaza											
Yemen, Rep.	1996	1992	 1996	 1996 ^f	1996 ^f	1994	1996	2004 ^f	1997 ^f	1997 ^f	2004
Zambia	1994		1994	1990 ^f	1990 ^f	1994	1993		1980 ^f	1996	
Zimbabwe	1987		1994	1992 ^f	1992 ^f	1994	1994		1981 ^f	1997	
				······································		•	•				

a. Ratification of the treaty. b. Years shown refer to the year the treaty entered into force in that country. c. Convention became effective November 16, 1994. d. Acceptance. e. Approval. f. Accession. g. Succession.

Government commitment

About the data

National environmental strategies and participation in international treaties on environmental issues provide some evidence of government commitment to sound environmental management. But the signing of these treaties does not always imply ratification, nor does it guarantee that governments will comply with treaty obligations.

In many countries efforts to halt environmental degradation have failed, primarily because governments have neglected to make this issue a priority, a reflection of competing claims on scarce resources. To address this problem, many countries are preparing national environmental strategies—some focusing narrowly on environmental issues, and others integrating environmental, economic, and social concerns. Among such initiatives are conservation strategies and environmental action plans. Some countries have also prepared country environmental profiles and biodiversity strategies and profiles.

National conservation strategies—promoted by the World Conservation Union (IUCN)—provide a comprehensive, cross-sectoral analysis of conservation and resource management issues to help integrate environmental concerns with the development process. Such strategies discuss current and future needs, institutional capabilities, prevailing technical conditions, and the status of natural resources in a country.

National environmental action plans, supported by the World Bank and other development agencies, describe a country's main environmental concerns, identify the principal causes of environmental problems, and formulate policies and actions to deal with them. These plans are a continuing process in which governments develop comprehensive environmental policies, recommend specific actions, and outline the investment strategies, legislation, and institutional arrangements required to implement them.

Biodiversity profiles—prepared by the World Conservation Monitoring Centre and the IUCN—provide basic background on species diversity, protected areas, major ecosystems and habitat types, and legislative and administrative support. In an effort to establish a scientific baseline for measuring progress in biodiversity conservation, the United Nations Environment Programme (UNEP) coordinates global biodiversity assessments.

To address global issues, many governments have also signed international treaties and agreements launched in the wake of the 1972 United Nations Conference on Human Environment in Stockholm and the 1992 United Nations Conference on Environment and Development (the Earth Summit) in Rio

de Janeiro, which produced Agenda 21—an array of actions to address environmental challenges:

- The Framework Convention on Climate Change aims to stabilize atmospheric concentrations of greenhouse gases at levels that will prevent human activities from interfering dangerously with the global climate.
- The Vienna Convention for the Protection of the Ozone Layer aims to protect human health and the environment by promoting research on the effects of changes in the ozone layer and on alternative substances (such as substitutes for chlorofluorocarbons) and technologies, monitoring the ozone layer, and taking measures to control the activities that produce adverse effects.
- The Montreal Protocol for Chlorofluorocarbon Control requires that countries help protect the earth from excessive ultraviolet radiation by cutting chlorofluorocarbon consumption by 20 percent over their 1986 level by 1994 and by 50 percent over their 1986 level by 1999, with allowances for increases in consumption by developing countries.
- The United Nations Convention on the Law of the Sea, which became effective in November 1994, establishes a comprehensive legal regime for seas and oceans, establishes rules for environmental standards and enforcement provisions, and develops international rules and national legislation to prevent and control marine pollution.
- The Convention on Biological Diversity promotes conservation of biodiversity through scientific and technological cooperation among countries, access to financial and genetic resources, and transfer of ecologically sound technologies.

But 10 years after Rio the World Summit on Sustainable Development in Johannesburg recognized that many of the proposed actions have yet to materialize. To help developing countries comply with their obligations under these agreements, the Global Environment Facility (GEF) was created to focus on global improvement in biodiversity, climate change, international waters, and ozone layer depletion. The UNEP, United Nations Development Programme (UNDP), and the World Bank manage the GEF according to the policies of its governing body of country representatives. The World Bank is responsible for the GEF Trust Fund and is chair of the GEF.

Definitions

- Environmental strategies and action plans provide a comprehensive, cross-sectoral analysis of conservation and resource management issues to help integrate environmental concerns with the development process. They include national conservation strategies, national environmental action plans, national environmental management strategies, and national sustainable development strategies. The year shown for a country refers to the year in which a strategy or action plan was adopted. • Biodiversity assessments, strategies, and action plans include biodiversity profiles (see About the data). • Participation in treaties covers nine international treaties (see About the data). • Climate change refers to the Framework Convention on Climate Change (signed in New York in 1992). • Ozone layer refers to the Vienna Convention for the Protection of the Ozone Layer (signed in 1985). • CFC control refers to the Montreal Protocol for Chlorofluorocarbon Control (formally, the Protocol on Substances That Deplete the Ozone Layer, signed in 1987). • Law of the Sea refers to the United Nations Convention on the Law of the Sea (signed in Montego Bay, Jamaica, in 1982). • Biological diversity refers to the Convention on Biological Diversity (signed at the Earth Summit in Rio de Janeiro in 1992). • Kyoto Protocol refers to the protocol on climate change adopted at the third conference of the parties to the United Nations Framework Convention on Climate Change, held in Kyoto, Japan, in December 1997. • CITES refers to the Convention on International Trade in Endangered Species of Wild Fauna and Flora, an agreement between governments to ensure that the survival of wild animals and plants is not threatened by uncontrolled exploitation.
- CCD refers to the United Nations Convention to Combat Desertification, an international convention dedicated to addressing the problems of land degradation in the world's drylands. Adopted in Paris on June 17, 1994, it entered into force on December 26, 1996. Stockholm Convention is an international legally binding instrument designed to protect human health and the environment from persistent organic pollutants. It was adopted on May 22, 2001, and entered into force May 17, 2004.

Data sources

Data on environmental strategies and participation in international environmental treaties are from the Secretariat of the United Nations Framework Convention on Climate Change, the Ozone Secretariat of the UNEP, the World Resources Institute, the UNEP, the Center for International Earth Science Information Network, and the United Nations Treaty Series.



Toward a broader measure of savings

	Gross savings	Consumption of fixed capital	Net savings	Education expenditure	Energy depletion	Mineral depletion	Net forest depletion	Carbon dioxide damage	Particulate emission damage	Adjusted net savings
	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004
Afghanistan		7.7			0.0	-	1.3	0.1	0.1	
Albania	17.1	10.8	6.3	2.8	1.2	0.0	0.0	0.2	0.3	7.4
Algeria	47.6	11.6	36.0	4.5	35.2	0.0	0.1	0.8	0.7	3.6
Angola	18.4	11.5	6.9	3.1	45.0	0.0	0.0	0.3	1.1	-36.3
Argentina	22.2	12.4	9.8	4.3	8.2	0.3	0.0	0.6	2.3	2.7
Armenia	13.7	9.8	3.9	3.0	0.0	0.7	0.0	0.9	3.0	2.4
Australia	19.5	15.0	4.5	4.8	1.5	1.3	0.0	0.4	0.1	6.0
Austria	24.3	14.4	9.9	5.6	0.1	0.0	0.0	0.1	0.5 0.7	14.7
Azerbaijan Bangladesh	26.3 29.0	10.8 8.2	15.5 20.8	3.3 1.9	54.6 2.4	0.0 0.0	0.0 0.7	3.4 0.4	0.7	-40.0 18.7
Belarus	23.6	11.0	12.6	5.4	2.1	0.0	0.0	2.1	0.5	13.8 ^a
Belgium	23.2	15.6	7.5	3.0	0.0	0.0	0.0	0.2	0.3	10.1
Benin	12.5	9.0	3.5	2.4	0.1	0.0	0.0	0.3	0.5	5.1
Bolivia	18.2	10.3	7.9	6.3	15.4	1.0	0.0	0.7	1.0	-3.9
Bosnia and Herzegovina	3.9	10.6	-6.7		0.1	0.0		1.6	0.2	
Botswana	40.0	12.5	27.5	5.6	0.0	2.0	0.0	0.4		30.8 ^a
Brazil	24.0	11.8	12.1	4.1	3.7	1.1	0.0	0.4	0.4	10.7
Bulgaria	16.3	11.6	4.7	3.5	0.2	0.7	0.0	1.4	2.4	3.5
Burkina Faso Burundi	 15.5	8.6 6.8	8.7	2.4 3.7	0.0	0.0	1.2 14.6	0.2 0.3	0.5 0.3	-2.9
Cambodia	19.6	8.9	10.8	1.8	0.0	0.0	0.8	0.3	0.3	-2.9 11.6
Cameroon	15.4	10.0	5.5	3.5	10.8	0.0	0.0	0.2	0.9	-3.0
Canada	20.7 ^b	14.7	6.0	5.2	5.1	0.3	0.0	0.4	0.3	5.2
Central African Republic	14.1	8.3	5.8	1.6	0.0	0.0	0.0	0.1	0.1	7.2
Chad	10.0	13.7	-3.8	1.4	79.1	0.0	0.0	0.0	0.7	-82.2
Chile	22.7	12.5	10.2	3.9	0.2	10.8	0.0	0.5	1.2	1.5
China	42.3	10.4	31.9	2.0	3.0	0.2	0.0	1.4	1.5	27.8
Hong Kong, China	31.7	13.8	17.9	3.7	0.0	0.0	0.0	0.2		21.5ª
Congo Dom Bon	17.6 7.6	11.4 7.3	6.2 0.3	5.0 0.9	7.2 2.8	0.8 0.9	0.0	0.4 0.3	0.1 0.6	2.6 -3.3
Congo, Dem. Rep. Congo, Rep.	36.0	13.3	22.7	3.8	2.8 54.1	0.9	0.0	0.3		-3.3 -27.8 ^a
Costa Rica	17.8	6.1	11.7	4.2	0.0	0.0	0.3	0.2	0.5	14.9
Côte d'Ivoire	15.5	10.2	5.4	4.6	2.9	0.0	0.6	0.3	0.3	5.7
Croatia	24.6	12.9	11.8	4.1	1.0	0.0	0.2	0.5	0.3	13.8
Cuba				8.1					0.2	
Czech Republic	23.6	13.7	9.9	4.2	0.1	0.0	0.0	0.8	0.1	13.0
Denmark	22.7	15.4	7.3	8.1	1.3	0.0	0.0	0.1	0.1	13.9
Dominican Republic	29.3	11.8	17.5	2.2	0.0	2.2	0.0	0.9	0.3	16.3
Ecuador	28.4	11.6	16.8	1.4	19.0	0.1	0.0	0.6	0.2	-1.6
Egypt, Arab Rep. El Salvador	21.1 9.4	10.0 11.3	11.1 -2.0	4.4 2.8	10.6 0.0	0.1	0.3 0.6	1.2 0.3	1.7 0.3	1.6 -0.2
Eritrea	-8.9	8.0	-2.0 -16.9	1.6	0.0	0.0	1.2	0.5	0.6	-0.2 -17.6
Estonia	19.9	13.5	6.4	5.1	0.6	0.0	1.0	1.2	0.1	8.6
Ethiopia	13.5	6.9	6.6	3.0	0.0	0.0	11.9	0.5	0.3	-3.2
Finland	23.7	16.2	7.5	5.9	0.0	0.0	0.0	0.2	0.1	13.1
France	19.0	12.6	6.4	5.2	0.1	0.0	0.0	0.1	0.0	11.2
Gabon	34.6	14.0	20.6	3.3	25.5	0.0	0.0	0.4		-2.0
Gambia, The	19.1	8.6	10.5	2.6	0.0	0.0	0.6	0.5	1.1	10.8
Georgia	18.0	9.9	8.1	4.3	0.6	0.0	0.0	0.7	1.1	10.0
Germany	20.7	14.9	5.7	4.5	0.1	0.0	0.0	0.2	0.1	9.7
Ghana Greece	28.1 17.7	8.7 8.7	19.3 9.0	2.8 3.1	0.1 0.0	0.2 0.0	2.3 0.0	0.5 0.3	0.3 1.0	18.8 10.8
Guatemala	13.4	11.1	2.4	1.6	1.2	0.0	0.0	0.3	0.4	1.2
Guinea	8.0	8.8	-0.8	2.0	0.0	1.9	1.8	0.2	0.4	-3.5
Guinea-Bissau	8.8	7.9	0.9		0.0	0.0	0.0	0.6	1.0	
Haiti	20.1	8.5	11.6	1.5	0.0	0.0	1.0	0.3	0.3	11.5



Toward a broader measure of savings 3.15

	% of GNI 2004	% of		1				damage	damage	savings
		GNI 2004	% of GNI 2004							
Honduras		10.3		3.5	0.0	0.2	0.0	0.6	0.3	
Hungary	15.4	13.8	1.7	5.2	0.5	0.0	0.0	0.4	0.3	5.7
India	23.0	9.3	13.7	4.0	2.5	0.4	0.7	1.3	0.8	12.0
Indonesia	24.6	10.4	14.2	1.1	9.4	1.6	0.0	0.7	0.9	2.6
Iran, Islamic Rep.	39.7	11.0	28.7	4.4	36.0	0.2	0.0	1.7	0.9	-5.6
Iraq					••			••	2.7	••
Ireland	29.9 ^b	11.0	18.9	4.8	0.0	0.0	0.0	0.2	0.1	23.3
Israel	10.0 ^b	14.0	-4.0	7.3	0.0	0.0	0.0	0.4	1.2	1.6
Italy	19.5	13.9	5.6	4.5	0.1	0.0	0.0	0.2	0.3	9.5
Jamaica	26.6	12.1	14.5	5.0	0.0	1.3	0.0	0.9	0.3	17.0
Japan	26.3	14.4	12.0	3.1	0.0	0.0	0.0	0.2	0.6	14.4
Jordan	21.0	10.7	10.3	5.6	0.3	0.1	0.0	1.0	0.9	13.5
Kazakhstan	27.0	12.0	15.0	4.4	39.9	1.6	0.0	3.0	0.5	-25.5
Kenya	13.7	9.0	4.7	6.6	0.0	0.0	0.2	0.4	0.2	10.5
Korea, Dem. Rep.		<u></u>						<u>.</u>	2.0	·•
Korea, Rep.	34.3	13.3	20.9	3.8	0.0	0.0	0.0	0.5	1.3	22.9
Kuwait	47.2 ^b	12.6	34.7	5.0	46.8	0.0	0.0	0.7	2.7	-10.5
Kyrgyz Republic	9.8	9.1	0.7	4.4	1.0	0.0	0.0	1.6	0.2	2.2
Lao PDR	10.7	9.1	1.7	1.3	0.0	0.0	0.0	0.4	0.1	2.5
Latvia										
Lebanon	2.4	12.9	-10.5	2.6	0.0	0.0	0.0	0.6	0.9	-9.3
Lesotho Liberia			26.7	••				 0 E		······
Libya	35.8 	9.2 12.6	26.7		0.0 60.7	0.0 0.0	6.3 0.0	0.5 1.2	0.2	••
Lithuania	15.3	12.8	2.6	5.7	0.5	0.0	0.3	0.5	0.4	6.6
Macedonia, FYR	15.2	11.2	3.9	4.9	0.0	0.0	0.2	1.4	0.3	6.9
Madagascar	17.6	8.1	9.5	2.1	0.0	0.0	0.0	0.4	0.3	10.8
Malawi	_7.9	7.5	-15.4	5.0	0.0	0.0	2.1	0.3	0.3	-13.1
Malaysia	37.3	12.6	24.6	5.1	14.1	0.0	0.0	0.9	0.1	14.5
Mali	11.3	8.9	2.3	2.7	0.0	0.0	0.0	0.1	0.6	4.4
Mauritania	-6.3	8.5	-14.9	3.2	0.0	10.9	0.7	1.5	0.6	-25.3
Mauritius	23.8	12.0	11.8	3.3	0.0	0.0	0.0	0.4		14.8 ^a
Mexico	21.1	12.6	8.6	5.3	7.4	0.1	0.0	0.4	0.6	5.3
Moldova	18.8	8.2	10.6	6.9	0.0	0.0	0.0	1.8	0.7	14.9
Mongolia	40.8	9.3	31.6	8.1	0.9	8.4	0.0	3.8	0.0	26.6
Morocco	28.0	10.7	17.3	6.1	0.0	0.3	0.0	0.6	0.3	22.3
Mozambique	6.6	8.8	-2.2	1.8	0.0	0.0	0.0	0.2	0.4	-1.0
Myanmar				0.8	••	<u> </u>		••	0.6	••
Namibia	39.2	11.1	28.1	7.3	0.0	0.6	0.0	0.3	0.2	34.3
Nepal	26.9	8.1	18.8	2.6	0.0	0.0	2.8	0.4	0.1	18.2
Netherlands	23.6	16.0	7.6	4.9	1.0	0.0	0.0	0.2	0.7	10.6
New Zealand	22.6 ^b	14.8	7.8	7.1	0.8	0.1	0.0	0.3	0.0	13.7
Nicaragua	10.8	10.1	0.7	2.9	0.0	0.0	1.0	0.6	0.1	1.8
Niger	8.0	7.9	0.1	2.3	0.0	0.0	3.0	0.3	0.5	-1.4
Nigeria	32.6	10.9	21.7	0.9	49.1	0.0	0.1	0.6	1.0	-28.2
Norway	32.5	13.7	18.9	7.0	10.9	0.0	0.0	0.1	0.1	14.8
Oman	29.4 ^b	13.4	16.0	4.2	58.8	0.0	0.0	0.8	1.1	-40.6
Panama	23.6	8.2	15.4	2.3 4.4	5.3 0.0	0.0	0.5	0.8	1.4	9.7
Panama Panua Now Guinoa	13.8	12.8	1.1				0.0	0.4 0.5	0.5	4.6
Paraguay	22.9	10.4 10.1	 12.8	4.2	10.7 0.0	25.1 0.0	0.0	0.5	0.7	16.0
Paraguay Peru	19.2	11.7	7.6	2.9	1.5	2.1	0.0	0.4	1.0	5.6
Philippines	34.1	9.2	24.8	2.8	0.3	0.4	0.0	0.5	0.3	25.9
Poland	18.9	12.6	6.3	5.3	0.5	0.4	0.2	0.0	0.3	9.1
Portugal	15.6	18.2	-2.6	5.7	0.0	0.0	0.0	0.9	0.7	2.3
Puerto Rico										



3.15 Toward a broader measure of savings

	Gross savings	Consumption of fixed capital	Net savings	Education expenditure	Energy depletion	Mineral depletion		Carbon dioxide damage	Particulate emission damage	Adjusted net savings
	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004	% of GNI 2004
Romania	18.2	11.7	6.5	3.2	3.3	0.0	0.0	0.9	0.2	5.3
Russian Federation	32.1	7.1	25.0	3.5	29.7	0.6	0.0	2.0	0.6	-4.4
Rwanda	17.7	7.9	9.8	3.5	0.0	0.0	3.7	0.2	0.2	9.1
Saudi Arabia	46.6 ^b	13.0	33.6	7.2	50.1	0.0	0.0	0.9	1.0	-11.1
Senegal	17.2	9.6	7.5	3.4	0.0	0.0	0.2	0.4	1.4	8.9
Serbia and Montenegro	4.6	11.4	-6.8		0.9	0.0		0.3	0.1	
Sierra Leone	11.4	7.9	3.4	1.0	0.0	0.0	4.3	0.4	0.6	-1.0
Singapore	46.6 ^b	15.0	31.7	2.7	0.0	0.0	0.0	0.4	0.9	33.0
Slovak Republic	23.4	21.8	1.6	4.2	0.1	0.0	0.4	0.7	0.1	4.6
Slovenia	25.9	13.6	12.3	5.6	0.0	0.0	0.2	0.3	0.2	17.2
Somalia									0.2	
South Africa	14.7	12.1	2.6	5.3	0.0	0.6	0.3	1.2	0.3	5.6
Spain	23.4	14.5	8.9	4.1	0.0	0.0	0.0	0.2	0.6	12.2
Sri Lanka	19.4	10.3	9.1	2.6	0.0	0.0	0.4	0.4	0.5	10.4
Sudan	15.8	9.9	5.9	0.9	15.1	0.0	0.0	0.3	0.8	-9.4
Swaziland	16.8	11.0	5.8	5.5	0.0	0.0	0.0	0.3	0.2	10.8
Sweden	23.6	12.1	11.6	8.0	0.0	0.1	0.0	0.1	0.0	19.4
Switzerland		13.9		5.0	0.0	0.0	0.0	0.1	0.3	••
Syrian Arab Republic	20.7	10.5	10.1	2.6	38.6	0.1	0.0	1.5	1.0	-28.4
Tajikistan	5.7	8.7	-3.0	2.8	0.4	0.0	0.0	2.0	0.2	-2.8
Tanzania	8.5	8.2	0.3	2.4	0.0	0.1	0.0	0.2	0.3	2.0
Thailand	31.8	11.3	20.5	4.9	2.4	0.0	0.2	1.0	0.6	21.2
Togo	8.6	8.6	0.0	2.6	0.0	0.1	3.0	0.6	0.3	-1.3
Trinidad and Tobago	28.5	12.3	16.2	4.0	46.2	0.0	0.0	2.3	0.0	-28.3
Tunisia	23.5	11.8	11.7	5.9	4.2	0.2	0.1	0.6	0.4	12.1
Turkey	20.0	11.8	8.2	3.5	0.2	0.0	0.0	0.5	1.4	9.4
Turkmenistan	33.6 ^b	10.4	23.3			0.0		4.0	0.6	
Uganda	9.9	8.2	1.7	1.9	0.0	0.0	6.4	0.2	0.0	-2.9
Ukraine	29.9	10.4	19.6	4.4	5.7	0.0	0.0	4.5	0.9	12.8
United Arab Emirates	39.2 ^b	14.1	25.2		29.2	0.0		0.7	2.5	
United Kingdom	14.5	10.3	4.1	5.3	1.1	0.0	0.0	0.2	0.1	8.1
United States	13.4	12.2	1.2	4.8	1.3	0.0	0.0	0.3	0.4	4.0
Uruguay	12.0	12.2	-0.2	2.6	0.0	0.0	0.3	0.3	2.7	-0.8
Uzbekistan	30.2	8.9	21.3	9.4	59.3	0.0	0.0	7.6	0.7	-37.0
Venezuela, RB	35.2	12.2	23.0	4.4	34.7	0.4	0.0	0.9	0.0	-8.6
Vietnam	32.7	9.2	23.6	2.8	9.5	0.0	0.6	1.1	0.5	14.6
West Bank and Gaza										·····
Yemen, Rep.	12.9	10.0	2.9		44.2	0.0	0.0	0.7	0.5	
Zambia	13.3	9.4	3.9	2.5	0.0	3.7	0.0	0.3	1.0	1.4
Zimbabwe	3.2	8.6	-5.5	6.9	0.6	1.3	0.0	1.6	0.4	-2.5
World	20.8 w		8.1 w	4.4 w	2.8 w	0.1 w	0.0 w	0.4 w	0.5 w	8.7 w
Low income	22.7	9.2	13.5	3.4	6.7	0.4	0.7	1.1	0.8	7.3
Middle income	28.3	11.1	17.2	3.6	8.4	0.5	0.0	1.0	0.9	9.8
Lower middle income	32.1	10.8	21.3	2.9	6.5	0.5	0.0	1.1	1.0	15.1
Upper middle income	23.1	11.5	11.6	4.5	11.2	0.6	0.0	0.9	0.7	2.6
Low & middle income	27.5	10.8	16.6	3.5	8.2	0.5	0.1	1.0	0.9	9.4
East Asia & Pacific	39.1	10.5	28.6	2.3	4.1	0.4	0.0	1.2	1.2	23.9
Europe & Central Asia	23.4	10.7	12.7	4.1	12.0	0.3	0.0	1.4	0.7	2.3
Latin America & Carib.	22.7	12.1	10.6	4.4	7.2 27.3	1.1	0.0	0.5	0.6	5.6 -6.2
Middle East & N. Africa	30.0	11.2	18.8	4.5		0.1	0.1	1.2	0.9	
South Asia	23.6	9.1	14.4	3.6	2.7	0.3	0.7	1.2	0.8	12.4
Sub-Saharan Africa	17.1	10.9	6.2	3.9	9.8	0.4	0.6	0.7	0.5	-2.0
High income	19.4	13.2	6.2	4.6	1.4	0.0	0.0	0.3	0.4	8.7

a. Adjusted net savings do not include particulate emission damage. b. World Bank staff estimate.

Adjusted net savings measure the change in value of a specified set of assets, excluding capital gains. If a country's net savings are positive and the accounting includes a sufficiently broad range of assets, economic theory suggests that the present value of social welfare is increasing. Conversely, persistently negative adjusted net savings indicate that an economy is on an unsustainable path.

The table provides a test to check the extent to which today's rents from a number of natural resources and changes in human capital are balanced by net savings, that is, this generation's bequest to future generations.

Adjusted net savings are derived from standard national accounting measures of gross savings by making four adjustments. First, estimates of capital consumption of produced assets are deducted to obtain net savings. Second, current public expenditures on education are added to net savings (in standard national accounting these expenditures are treated as consumption). Third, estimates of the depletion of a variety of natural resources are deducted to reflect the decline in asset values associated with their extraction and harvest. And fourth, deductions are made for damages from carbon dioxide and particulate emissions.

The exercise treats public education expenditures as an addition to savings effort. The adjustment made to savings goes in the right direction. However, because of the wide variability in the effectiveness of government education expenditures, these figures cannot be construed as the value of investments in human capital. The reader should bear in mind that current expenditure of \$1 on education does not necessarily yield \$1 of human capital. The calculation should also consider private education expenditure, but data are not available for a large number of countries.

While extensive, the accounting of natural resource depletion and pollution costs still has some gaps. Key estimates missing on the resource side include the value of fossil water extracted from aquifers, net depletion of fish stocks, and depletion and degradation of soils. Important pollutants affecting human health and economic assets are excluded because no internationally comparable data are widely available on damage from ground-level ozone or from sulfur oxides.

Estimates of resource depletion are based on the calculation of unit resource rents. An economic rent represents an excess return to a given factor of production—in this case the returns from resource extraction or harvest are higher than the normal rate of return on capital. Natural resources give rise to rents because they are not produced; in contrast, for produced goods and services competitive forces will expand supply until economic profits are driven to zero. For each type of resource and each country, unit resource rents are derived by taking the difference between world prices and the average unit extraction or harvest costs (including a "normal" return on capital). Unit rents are then multiplied by the physical quantity extracted or harvested in order to arrive at a depletion figure. This figure is one of a range of depletion estimates that are possible, depending on the assumptions made about future quantities, prices, and costs, and there is reason to believe that it is at the high end of the range. World prices are used in order to reflect the social opportunity cost of depleting minerals and energy. Researchers should keep this in mind when using the depletion estimates. In general, the data on energy and mineral depletion should not be considered a substitute for energy and mineral gross domestic product.

A positive net depletion figure for forest resources implies that the harvest rate exceeds the rate of natural growth; this is not the same as deforestation, which represents a change in land use (see *Definitions* for table 3.4). In principle, there should be an addition to savings in countries where growth exceeds harvest, but empirical estimates suggest that most of this net growth is in forested areas that cannot be exploited economically at present. Because the depletion estimates reflect only timber values, they ignore all the external and nontimber benefits associated with standing forests.

Pollution damage from emissions of carbon dioxide is calculated as the marginal social cost per unit multiplied by the increase in the stock of carbon dioxide. The unit damage figure represents the present value of global damage to economic assets and to human welfare over the time the unit of pollution remains in the atmosphere.

Pollution damage from particulate emissions is estimated by valuing the human health effects from exposure to particulate matter pollution in urban areas. The estimates are calculated as willingness to pay to avoid mortality and morbidity from cardiopulmonary disease and lung cancer in adults and acute respiratory infections in children that is attributable to particulate emissions.

For a detailed methodological note, see www. worldbank.org/data.

Definitions

• Gross savings are the difference between gross national income and public and private consumption. plus net current transfers. • Consumption of fixed capital represents the replacement value of capital used up in the process of production. • Net savings are gross savings minus the value of consumption of fixed capital. • Education expenditure refers to public current operating expenditures in education, including wages and salaries and excluding capital investments in buildings and equipment. • Energy depletion is the product of unit resource rents and the physical quantities of energy extracted. It covers coal, crude oil, and natural gas. • Mineral depletion is the product of unit resource rents and the physical quantities of minerals extracted. It refers to tin, gold, lead, zinc, iron, copper, nickel, silver, bauxite, and phosphate. • Net forest depletion is the product of unit resource rents and the excess of roundwood harvest over natural growth. • Carbon dioxide damage is estimated to be \$20 per ton of carbon (the unit damage in 1995 U.S. dollars) times the number of tons of carbon emitted. • Particulate emission damage is the willingness to pay to avoid mortality and morbidity attributable to particulate emissions. • Adjusted net savings are net savings plus education expenditure and minus energy depletion, mineral depletion, net forest depletion, and carbon dioxide

Data sources

and particulate emissions damage.

Gross savings are derived from the World Bank's national accounts data files, described in the Economy section. Consumption of fixed capital is from the United Nations Statistics Division's National Accounts Statistics: Main Aggregates and Detailed Tables, 1997, extrapolated to 2004. Data on education expenditure are from the United Nations Statistics Division's Statistical Yearbook 1997 and from the United Nations Educational, Scientific, and Cultural Organization Institute for Statistics online database. Missing data are estimated. The wide range of data sources and estimation methods used to arrive at resource depletion estimates are described in a World Bank working paper, "Estimating National Wealth" (Kunte and others 1998). The unit damage figure for carbon dioxide emissions is from Fankhauser (1995). The estimates of damage from particulate emissions are from Pandey and others (2006). The conceptual underpinnings of the savings measure appear in Hamilton and Clemens (1999).



he world economy continued to recover in 2004 from the slowdown of 2000–01. Gross domestic product (GDP) rose 4.1 percent, more than a full percentage point higher than in 2003 and the fastest rate of growth of global output in 15 years. High-income economies grew at an average annual rate of 3.4 percent, while developing countries averaged a remarkable 7.1 percent, the highest rate of growth since 1970.

The recovery has been widespread throughout the developing world. East Asia and Pacific grew fastest—9 percent over 2003. But all regions grew at nearly 6 percent or higher, except Sub-Saharan Africa, which grew at 4.8 percent. Fourteen countries registered growth rates of 10 percent or higher, and only four countries experienced negative growth (figure 4a). Many of the fastest growing economies are oil and gas producers and exporters, which benefited from the run-up in energy prices. Iraq's GDP increased more than 40 percent after four years of falling output, and Chad's grew by 30 percent.

Factors contributing to growth in 2004

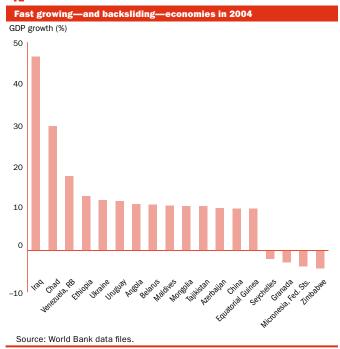
The high growth throughout the developing world in 2004 was due in part to increased prices of primary commodities and supportive monetary conditions. Increases in the prices of oil, metals and minerals, and agricultural commodities boosted growth in a wide range of commodity producers. Oil prices rose 30 percent in 2004 even as production increased. While higher oil revenues were responsible for strong economic performance by oil producers, the impact on oil-importing countries was cushioned by increased volumes and prices of other primary commodities. For example, Brazil, an oil-importing country, achieved a growth rate of 4.9 percent in 2004. Argentina, Brazil, and South Africa saw their barter terms of trade improve by 10–20 percent over 2000 (table 6.2).

Meanwhile, global short-term interest rates declined sharply as major central banks reduced policy rates to support economic expansion. Inflation rates remained low, however, because of improved fiscal and monetary discipline. The median inflation rate was below 10 percent in all regions, well below the average of about 15 percent or higher in 1990 in three regions (table 4b). The number of countries with double-digit inflation was 38, the same as in 2003 despite the oil price hikes. The combination of reduced global interest rates and stable or falling inflation led to substantial declines in real interest rates (table 4c).

Long-term growth trends

Although growth was higher in most regions in 2000–04 than in the preceding decade, the continuing recovery in Sub-Saharan Africa remains one of the most remarkable stories of the past five years (figure 4d). By 2004 the region had experienced five years of continuous positive growth in per capita incomes, after two decades of decline (except for a slight increase in 1997). Increasing prices of primary commodities, particularly oil, but also important agricultural crops, get much of the credit. Oil and natural gas producers achieved very rapid growth, including Chad and Equatorial Guinea, where GDP rose more than 10 percent, and Nigeria, where GDP increased 6 percent. Countries left out of the commodity boom such

4a



as Central African Republic, Côte d'Ivoire, Eritrea, and Niger have done less well, with growth below 2 percent. Average rates of investment have also risen: from 17 percent of GDP in 2000 to 19 percent in 2004, reversing the falling trend of the 1980s and 1990s.

But even at this broad regional level Sub-Saharan Africa's macroeconomic indicators remain weak, with the lowest

4b

Inflation, median annual growth of GDP deflator (%)												
Region	1990	1995	2000	2003	2004							
East Asia	5.8	7.9	2.5	3.9	5.7							
Europe & Central Asia	14.8	46.4	8.5	4.7	6.1							
Latin America & Caribbean	21.2	11.0	5.2	6.5	7.6							
Middle East & North Africa	17.0	9.4	9.8	5.9	9.6							
South Asia	8.5	9.1	4.6	4.5	5.0							
Sub-Saharan Africa	9.7	10.7	6.1	6.5	6.0							

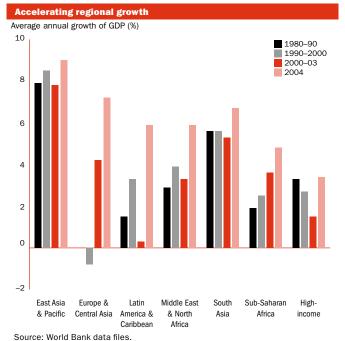
Source: World Bank data files and table 4.14.

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Real interest rates (%)										
Country	2000	2001	2002	2003	2004					
Brazil	44.7	46.7	47.8	45.3	43.2					
China	3.7	3.7	4.7	2.6	-1.2					
India	8.2	8.4	7.4	8.0	5.4					
Japan	3.6	3.3	3.2	3.2	4.0					
Mexico	4.3	6.5	1.2	-1.5	1.1					
Russian Federation	-9.6	1.2	0.2	-0.9	-5.6					
United States	6.9	4.4	3.0	2.2	1.7					

Note: Real interest rates are computed as the difference between the prime rate charged by banks and the rate of inflation measured by the growth of the GDP deflator. Source: World Bank data files and table 4.13.

4d



regional gross savings rates, at 16 percent of GDP, and the highest government consumption rate, at 17 percent. And despite a few years of economic growth, Sub-Saharan Africa still has the highest poverty rate in the world. A large proportion of the population in more than half the countries in Sub-Saharan Africa is still in need of food aid according to the World Food Programme.

Strong growth of 5 percent in Europe and Central Asia in 2000–04 was also assisted by higher oil prices. GDP in the Middle East and North Africa rose 3.8 percent over the period, about the same as in the 1980s and 1990s, again driven by increasing oil prices. But East Asia and Pacific, which has grown at about 8 percent a year during the past 20 years, continues to be the top performer. The region's exceptional performance was due largely to rapid growth in China. Similarly strong performance by India enabled South Asia to grow at nearly 6 percent over the same period. Despite rapid growth in 2004, Latin America and the Caribbean is the only region that failed to improve on growth rates of the 1990s because of low or negative growth in 2001 and 2002.

In achieving consistently high rates of growth over a long period, India and China have become more important in the world economy, as both consumers and producers. Growth has brought increasing demand for energy inputs, and growing imports of fuel have been blamed for rising fuel prices. But too much may be made of this. While China and India are now among the top 10 fuel importers and account for a large share of the increased demand for oil, they remain relatively small consumers compared with the major industrial countries. China and India accounted for only about 11 percent of the global increase in fuel imports between 2000 and 2004,

4e

		Fuel imports (\$ billions)			el imports as shar erchandise impor (%)	Increase in fuel imports (%)	Share of global increase in fuel imports (%)	
Economy	1995	2000	2004	1995	2000	2004	2000-04	2000-04
Brazil	7	9	12	12.1	15.1	18.8	40	1
China	5	21	48	3.9	9.2	8.5	131	7
India	8	19	34	23.8	36.7	34.6	78	4
Japan	54	77	99	16.1	20.4	21.7	28	6
United States	63	140	216	8.2	11.1	14.2	55	20
European Union	136	219	347	6.5	8.8	9.4	59	33
World	386	690	1,075	7.4	10.4	11.5	56	100

whereas the United States alone accounted for 20 percent (table 4e). And in both China and India the share of fuel in merchandise imports has declined slightly since 2000.

Changes from the last edition

Interest and exchange rate indicators (table 5.7), which used to appear in section 5, *States and markets*, have moved to the *Economy* section, resulting in an additional table on monetary indicators (table 4.14), while the table showing growth in merchandise trade and terms of trade (table 4.4) has moved to section 6, *Global links* (table 6.2). *Economy* now shows the growth of exports and imports of goods and services from the national accounts data. Household final

consumption expenditure in dollar terms has been dropped from table 4.8. However, these data are still available on the *World Development Indicators* CD-ROM and World Development Indicators Online database. In table 4.8 gross savings, which has been changed to conform to the System of National Accounts definition, now includes net income as well as transfers. In table 4.14 the food price index data, which were inconsistent with the consumer price index data from the International Monetary Fund's *International Financial Statistics*, were replaced by wholesale price index data from the *International Financial Statistics*. Total debt service ratios replace public and publicly guaranteed debt service ratios in table 4.17.



China's data revision

Recently, the national accounts of China have been revised by the National Bureau of Statistics (NBS), incorporating new information from the 2005 National Economic Census. The earlier economic census was taken in 1993.

As the information from the 2005 census has been incorporated, the revised national accounts have for the first time been able to capture the growing private sector, including the services industry. The revised accounts show not only that the size of the economy is larger, but also that it is growing at a slightly higher rate then previously shown.

The NBS has not only revised the estimates for 2004, but has also revised time series back to 1993. So far, however, revised data are available only for production. The old data are retained here for the expenditure accounts, and the differences are shown as a statistical discrepancy. As a result of this large statistical discrepancy final household consumption is larger than it will be when the final set of data is released. While the constant price series for the years before 1993 were scaled upward using the previous growth rates to yield a consistent series for calculating long-term growth trends, the current price series contains a break in the series in 1993, as current price data beyond 1993 are unadjusted.

As a result of the revision, Chinese GDP for 2004 is about \$1.93 trillion, some 17 percent higher than earlier published estimates. In real terms the economy grew at 10.1 percent, slightly higher than the previously published growth data. By the revised value-added estimates the service sector accounts for 41 percent of the economy, up from earlier estimates of 37 percent, and the industrial sector has declined from 49 percent to 46 percent, and agriculture from 14 percent to 13 percent. By the old data China's manufacturing sector was the fastest growing sector, contrary to trends in emerging economies like India, where the service sector has been growing faster. Now though still lower, the service sector is growing at almost the same rate as the manufacturing sector, nearly 10 percent in 2004.

China was ranked sixth in the global economy based on gross national income (GNI) in the last two editions of the *World Development Indicators*. The revised GNI estimates move China ahead of France to become the fifth largest economy in 2004 and, according to projections, will move it ahead of the United Kingdom next year to become the fourth largest. While still a lower-middle-income country, China has a more important role in the global economy than many of the largest industrial countries. For example, China is the fourth largest receiver of foreign direct investment, its reserves are second only to those of Japan, and its merchandise exports in dollar terms exceed all countries except Germany and the United States.



4.a

Recent economic performance												
	Gross domestic product		Exports of goods and services and services		GDP deflator		Current account balance		Total reserves ^a			
		e annual owth 2005	average annual % growth 2004 2005		average annual % growth 2004 2005		% growth 2004 2005		% of GDP 2004 2005		\$ millions	months of import coverage 2005
Algeria	5.2	5.3	3.4	6.0	13.3	17.8	10.2	14.9		18.3	56,461	24.9
Argentina	9.0	7.5	8.2	15.1	39.8	18.6	9.2	8.2	2.2	-0.1		
Armenia	7.0	13.9	14.8	22.0	8.5	17.2	0.6	3.1	-5.3	-3.6	755	4.2
Azerbaijan	10.2	24.3	10.7	76.1	23.3	18.2	6.4	12.0	-30.4	-5.2	1,178	3.3
Bangladesh	6.3	5.4	12.5	11.9	10.6	10.7	4.2	5.0	-0.5	-0.5	2,944	2.5
Bolivia	3.6	3.9	16.1	5.5	5.4	12.5	8.5	5.3	3.3	2.0	1,798	6.8
Bosnia and Herzegovina	6.2	5.3	8.9	11.5	2.8	5.2	2.9	2.5	-22.5	-23.9	2,668	4.0
Botswana	4.9	3.8	-0.3	19.5	2.7	12.0	4.8	9.3		8.9	5,865	19.3
Brazil	4.9	2.5	18.0	21.5	14.3	11.2	8.2	6.0	1.9	2.0	62,779	6.0
Bulgaria	5.6	5.6	13.1	4.7	14.1	11.4	4.2	3.6	-8.5	-14.9	8,701	4.6
Cameroon	4.3	3.9	1.7	3.1	4.1	4.8	0.4	-0.6		-2.4	124	0.3
Chile	6.1	5.2	22.0	5.1	-2.3	5.1	6.6	2.4	1.5	0.5	15,047	5.5
China	10.1	9.9	28.4	24.4	22.5	17.7	6.9	5.9	3.6	5.6	818,900	13.0
Colombia	4.1	4.0	10.2	15.5	16.7	16.7	7.1	5.1	-1.0	-1.1	14,956	6.7
Congo, Dem. Rep.	6.3	7.0					5.9	22.1		-4.2	360	1.2
Congo, Rep.	3.6	9.2	8.1	14.9	62.1	16.4	6.9	7.2		4.9	75	0.2
Costa Rica	4.2	3.5	7.1	6.8	7.8	13.1	11.6	10.8	-4.5	-4.7	2,080	2.2
Côte d'Ivoire	1.6	-0.3	15.7	-1.5	12.6	4.4	0.8	3.9	2.0	3.0	330	3.4
Croatia	3.8	3.7	5.4	6.1	3.5	3.5	3.3	3.4	-4.8	-3.8	9,082	5.1
Ecuador	7.0	3.3	15.1	4.2	9.8	5.3	4.1	2.8	-0.5	0.3	2,147	2.9
Egypt, Arab Rep.	4.2	4.9	27.6	25.6	22.0	30.7	11.5	5.4	5.0	3.3	19,302	8.0
El Salvador	1.5	2.5	6.6	3.3	3.4	3.3	4.3	4.0	-3.9	-3.6	2,139	3.1
Estonia	7.8	5.6	16.0	5.7	14.6	2.0	3.1	-1.5	-12.7	-6.5	1,780	2.4
Gabon	1.4	2.2	3.3	-5.8	3.8	1.8	7.0	8.9		7.0		
Ghana	5.8	5.8	3.5	4.0	4.5	7.3	14.1	14.8	-2.7	-1.3	1,747	3.9
Guatemala	2.7	3.2	12.4	5.8	15.8	5.3	8.2	6.0	-4.3	-4.1	3,375	4.0
India	6.9	8.5	7.9	26.6	47.1	34.6	5.3	4.2		-3.7	142,489	7.2
Indonesia	5.1	5.9	8.5	14.5	25.0	15.2	7.1	7.5	1.2	1.0	47,088	5.1
Iran, Islamic Rep.	5.6	5.9	12.2	27.5	5.0	12.8	16.6	17.6		6.4	47,410	9.4
Jamaica	0.9	1.8					12.6	16.0	-5.7	-7.8	1,975	5.8
Jordan	7.7	7.5	13.0	8.7	27.4	8.1	5.2	4.0	-0.2	-10.4	5,396	5.8
Kazakhstan	9.4	9.4	10.5	11.5	14.5	13.9	9.9	16.1	1.3	5.3	7,070	3.4
Kenya	4.3	5.0	19.8	22.2	15.3	40.6	6.9	5.7	-2.4	-9.3	2,327	2.3
Latvia	8.3	6.0	9.3	7.5	15.6	4.5	7.2	0.3	-13.0	-8.5		
Lebanon	6.3	1.0	23.4	-4.0	7.1	0.0	2.9	1.0		-18.1	10,556	12.3
Lesotho	2.3	0.0	0.7	5.5	1.5	3.7	1.7	2.1	-5.8	-5.5	447	3.8

	Gross domestic product				Imports of goods and services		GDP deflator		Current account balance		Total reserves ^a	
	average annual % growth 2004 2005		average annual % growth 2004 2005		average annual % growth 2004 2005		% growth 2004 2005		% of GDP 2004 2005		\$ millions 2005	months of import coverage 2005
Lithuania	6.7	6.0	11.7	8.6	12.1	7.7	3.3	-0.7	-7.8	-4.4	3,041	2.6
Macedonia, FYR	2.9	3.6	11.7	11.0	10.6	-0.8	1.5	3.4	-7.8	-0.9	1,328	4.3
Malawi	6.7	2.6	-4.6	8.9	-5.3	12.7	11.6	15.3		-14.3	159	1.8
Malaysia	7.1	5.0	16.3	8.1	20.7	6.4	6.2	1.5		13.8	80,739	7.1
Mauritius	4.2	4.0	-1.7	1.7	2.0	0.0	6.0	5.4	-1.8	-0.4	1,485	4.7
Mexico	4.4	3.0	11.5	9.1	10.2	7.3	6.1	5.4	-1.1	-1.1	70,158	3.3
Moldova	7.3	7.0	8.3	15.3	0.4	27.0	8.0	7.0	-2.7	-5.5	597	2.7
Morocco	4.2	1.5	4.7	3.4	8.8	6.0	1.5	2.0	1.9	0.1	18,671	9.2
Nicaragua	5.2	4.0	15.8	9.9	9.4	12.1	10.2	12.0	-17.0	-18.0	782	2.7
Nigeria	6.0	4.0	3.1	-3.7	2.3	26.1	19.9	26.6	17.0	9.8	26,400	8.4
Pakistan	6.4	7.8	-1.5	16.9	-8.6	38.5	7.8	9.3	-0.8	-3.2	10,143	3.0
Panama	6.2	6.0	6.7	18.1	8.1	15.5	0.5	1.8	-8.2	-7.9	677	0.7
Paraguay	4.0	3.2	4.1	0.1	5.5	6.0	9.2	10.0	0.3	-0.3	981	3.9
Peru	4.8	6.7	14.7	14.2	10.4	9.9	5.7	3.5	0.0	1.3	14,097	14.0
Philippines	6.1	5.1	14.1	2.3	5.9	1.8	6.1	6.0	2.5	1.6	18,400	3.8
Poland	5.4	3.2	10.2	11.3	8.7	5.3	2.9	1.7	-4.3	-1.6	42,571	5.2
Romania	8.3	4.5	15.9	5.4	18.3	15.7	15.8	12.1	-7.6	-8.9	21,395	5.7
Russian Federation	7.1	6.4	12.3	2.5	23.5	19.2	18.1	19.7	10.3	11.3	182,200	17.5
Senegal	6.2	5.7	4.8	5.8	6.0	5.2	1.9	2.5		-7.6	1,092	3.5
Serbia and Montenegro	8.2	4.8	38.2	22.0	38.1	4.0	8.9	17.3		-9.0	5,900	6.2
Slovak Republic	5.5	6.0	11.5	9.0	12.7	8.7	4.6	1.6		-6.3	15,400	5.3
South Africa	3.7	5.0	2.9	11.3	12.9	9.5	5.9	4.3	-3.3	-4.2	658	3.5
Sri Lanka	5.4	5.3	7.8	7.5	9.3	8.7	9.4	9.7	-3.2	-5.6	2,571	2.9
Swaziland	2.1	1.8	1.1	-3.4	1.4	1.7	5.3	4.5	4.8	-1.6	230	1.1
Syrian Arab Republic	2.0	3.8	13.3	-9.2	27.0	6.7	10.5	9.6	0.9	1.2	4,790	5.8
Thailand	6.2	4.5	9.6	4.6	13.5	8.5	3.3	7.5	4.1	-2.1	52,066	5.3
Trinidad and Tobago	6.2	6.7	14.3	9.1	25.4	17.2	12.5	122.4		18.8	3,893	7.0
Tunisia	5.8	5.0	5.2	3.4	3.7	4.7	3.0	2.5	-2.0	-2.6		
Turkey	8.9	6.0	12.5	5.0	24.7	10.6	9.9	7.7	-5.1	-6.2	52,433	5.4
Uganda	5.7	5.6	6.2	5.7	3.7	9.5	6.0	9.0	-2.9	-1.2	1,326	6.0
Ukraine	12.1	2.4	13.8	4.0	8.6	-9.0	15.1	15.0	10.5	2.7	19,395	5.5
Uruguay	11.9	6.0	22.9	16.2	29.7	21.0	7.4	5.0	-0.8	-0.8	2,837	6.8
Uzbekistan	7.7	7.0	21.8	11.5	19.3	7.3	15.1	15.9		9.5	2,889	7.9
Venezuela, RB	17.9	9.0	11.8	9.0	60.0	18.3	31.2	16.2	12.6	18.1	35,667	12.3
Zambia	4.7	5.1	12.6	16.3	10.3	18.1	20.2	18.9		-11.9	303	1.4

Note: Data for 2005 are the latest preliminary estimates and may differ from those in earlier World Bank publications. a. International reserves including gold valued at London gold price. Source: World Bank staff estimates.





4.1 Growth of output

	average annual % growth 1990-2000 2000-04		Agriculture Industry			Manufa	cturing	Services		
			average annual % growth 1990–2000 2000–04		average annual % growth 1990–2000 2000–04		average annual % growth 1990–2000 2000–04		average annual % growth 1990–2000 2000–04	
Afghanistan ^a		16.8								
Albania	3.5	5.4	4.3	5.1	-0.5	4.8	••	••	7.0	7.7
Algeria	1.9	4.8	3.6	7.5	1.8	3.7	-2.1	-0.2	1.9	5.5
Angola ^a	1.6	8.1	-1.4	13.7	4.4	8.6	-0.3	11.3	-2.3	4.3
Argentina	4.3	-0.1	3.5	1.2	3.8	1.3	2.7	1.7	4.5	-1.2
Armenia	-1.9	11.3	0.4	5.0	-7.9	12.6	-4.3	8.4	-5.8	15.8
Australia	3.9	3.5	3.6	-2.8	2.9	3.7	2.2	2.4	4.3	3.7
Austria	2.4	1.2	1.6	0.6	2.7	1.8	2.7	0.8	2.3	0.9
Azerbaijan	-6.3	10.6	-2.1	6.7	-0.8	12.8	-12.0	9.5	-2.3	8.2
Bangladesh ^a	4.8	5.2	2.9	2.4	7.3	7.1	7.2	6.4	4.5	5.5
Belarus	-1.7	6.8	-4.0	6.1	-1.8	9.7	-0.7	10.2	-0.4	4.7
Belgium	2.1	1.4	2.8	1.3	1.7	0.3	2.8	0.3	1.9	1.8
Benin ^a	4.8	4.5	5.8	5.7	4.1	6.5	5.8	5.9	4.2	2.7
Bolivia ^a	4.0	2.6	2.9	3.3	4.1	2.3	3.8	2.8	4.3	2.2
Bosnia and Herzegovina		4.9		0.0		3.2		4.1	70	5.0
Botswana	4.9	5.5	-1.2	1.5	3.6	5.2	4.3	1.6	7.8	4.5
Brazil	2.9	2.0	3.3	5.4	2.6	2.1	1.5	3.1	3.0	-1.1
Bulgaria Burkina Faso	-1.8 4.0	4.8 5.2	3.0 4.2	1.8 5.1	-5.0 2.3	5.3 <i>2.7</i>	1.6	8.2 <i>2.2</i>	-5.2 4.5	4.9 11.9
Burundi	-2.6	2.7	-1.6	1.9	2.3 -5.6	2.1	-8.0	2.2	-2.0	11.9
Cambodia ^a	-2.6 7.1	6.3	3.9	2.8	-5.6 14.3	14.2	-8.0 18.6	14.6	-2.0 7.1	3.9
Cameroon	1.7	4.5	5.5	6.0	-0.9	6.9	1.2	8.6	0.2	2.3
Canada	3.1	2.6	1.1	-1.5	3.2	0.5	4.5	-0.6	3.0	3.5
Central African Republic	2.0	-2.0	3.8	3.0	0.7	4.6	-0.2	4.0	-0.3	-16.0
Chad	1.9	14.1	4.4		2.2				1.0	6.2
Chile ^a	6.6	3.7	-2.7	-0.5	7.1	7.6	6.7	2.8	6.8	1.7
China ^{a, b}	10.6	9.4	4.1	3.4	13.7	10.6			10.2	9.8
Hong Kong, China	4.1	3.2		-1.0		-3.6		-6.9		4.3
Colombia ^a	2.8	2.9	-2.6	1.2	1.5	3.9	-2.5	2.7	4.5	2.7
Congo, Dem. Rep.	-4.9	3.6	1.2		-9.0		-13.4		-11.5	
Congo, Rep. ^a	1.2	3.1	1.0	5.5	3.2	1.4	-3.0	12.7	-0.6	4.2
Costa Rica	5.3	3.9	4.1	1.6	6.2	2.7	6.7	2.1	4.6	5.1
Côte d'Ivoire ^a	3.3	-0.7	3.3	0.5	5.7	-3.5	4.9	-4.0	2.4	-0.2
Croatia	0.6	4.5	-3.0	0.2	-2.5	5.5	-3.3	3.5	2.2	5.2
Cuba ^a	4.2		5.2		6.6	••	6.3		2.5	••
Czech Republic	1.1	2.8	2.4	1.2	-0.2	4.1	3.8	6.0	1.7	2.0
Denmark	2.5	1.1	2.9	0.2	2.4	-0.8	2.1	0.1	2.5	1.7
Dominican Republic ^a	6.1	2.4	3.8	6.9	7.1	-1.1	4.9	0.0	6.0	2.5
Ecuador ^a	1.9	4.2	-1.7	2.9	2.7	5.5	1.5	2.2	2.4	3.6
Egypt, Arab Rep.	4.7	3.4	3.1	3.7	5.1	2.3	6.4	2.9	4.1	4.1
El Salvador ^a	4.8	1.9	1.2	0.2	5.2	2.5	5.2	2.5	4.0	1.9
Eritrea	5.7	3.3	1.5	-0.5	15.0	4.1	10.6	6.6	5.7	2.0
Estonia Ethiopia	0.2	7.0	-3.4	-2.0	-3.3	10.5	5.9	11.6	3.1	5.9
Ethiopia Finland	4.2 2.6	3.6	1.9	0.9	3.7	4.4	3.7	2.5 0.9	6.5	4.3
Finland France	2.0	2.3 1.5	1.8 2.0	-0.6 -0.6	3.9 1.0	1.8	5.8	0.9	2.2	2.5 1.6
France Gabon ^a	2.8	1.6	-1.4	-0.6 5.1	2.5	1.0 2.7	0.6	••	3.9	-0.1
Gambia, The	3.0	3.8	3.3	-0.2	1.0	7.3	0.9	4.2	3.9	-0.1 5.9
Georgia	-7.2	7.2	-11.0	-0.2 2.6	-8.1	10.5	-7.0	5.9	-0.3	8.2
Germany	1.8	0.6	-0.2	-0.1	-0.1	-0.1	-7.0 -0.1	-0.4	-0.3 2.9	1.3
Ghana ^a	4.3	4.9	3.4	5.0	2.6	4.1	-3.2	2.0	5.7	5.0
Greece	2.2	4.2	0.5	-0.3	1.0	4.0	2.0	2.7	2.6	4.9
Guatemala ^a	4.2	2.3	2.8	2.1	4.3	1.4	2.8	1.1	4.7	2.7
Guinea	4.4	2.9	4.6	4.5	4.7	3.2	4.1	2.0	3.6	1.8
Guinea-Bissau	1.2	-1.2	3.9	3.3	-3.1	14.1	-2.0	14.6	-0.6	4.9
Haiti ^a	-1.5	-0.4	-7.4	-1.2	3.2	0.5	-8.4	-2.2	-1.2	-0.3
			•							

Growth of output

	1	

	Gross domestic prod	estic product Agriculture Industry					ecturing	Services		
	average annual % growth 1990–2000 2000– (9	average annual % growth 1990-2000 2000-04		e annual rowth 2000-04	average % gr 1990–2000	e annual owth 2000-04	average % gro 1990–2000		
Llanduras				1990-2000			•			
Honduras	3.2 3.3 1.6 4.0	-	<i>4.4</i> 5.5	3.6 3.5	2.2 3.3	4.0 7.9	<i>3.8</i> 4.5	3.8 1.2	<i>3.6</i> 3.9	
Hungary India	6.0 6.2		2.0	6.3	6.2	7.9	4.5 6.5	8.0	8.2	
Indonesia ^a	4.2 4.6	-	3.9	5.3	3.8	6.7	5.1	4.0	5.7	
Iran, Islamic Rep.	3.5 6.0		5.2	-3.3	8.3	4.9	10.7	8.9	4.9	
Iraq	11.4		-3.6		-17.0		-12.8		5.9	
Ireland	7.5 5.1	·····								
Israel	5.3 1.0	-								
Italy	1.6 0.8	·····	-0.8	1.1	0.2	1.5	-0.9	1.7	1.2	
Jamaica ^a	0.9 1.5		-1.4	-1.0	1.8	-2.3	0.2	2.3	1.6	
Japan	1.3 0.9		-2.2	-0.1	-0.1	0.8	0.7	2.2	0.6	
Jordan	5.0 5.5	-3.0	11.6	5.2	9.3	5.6	11.4	5.0	4.3	
Kazakhstan	-4.1 10.3	-8.0	4.9	-9.3	11.5	2.7	9.2	-1.5	10.2	
Kenya	2.2 2.7	1.9	1.9	1.2	3.5	1.3	2.5	3.2	3.1	
Korea, Dem. Rep.										
Korea, Rep. ^a	5.8 4.7		-1.0	6.0	6.2	7.3	6.6	5.6	4.0	
Kuwait ^a	4.7 4.7	·····	15.1	0.3	1.9	-0.1	2.5	2.7	4.5	
Kyrgyz Republic	-4.1 4.5		4.1	-10.3	2.4	-7.5	3.6	-4.9	6.6	
Lao PDR	6.5 6.0	-	3.3	11.1	10.8	11.7	10.9	6.6	6.4	
Latvia	-1.6 7.4		2.7	-8.7	8.6	-7.8	8.1	2.6	7.4	
Lebanon	5.8 4.4	-	2.7	-3.8	4.2	-5.2	4.4		3.5	
Lesotho	3.9 3.1	······································	-1.8	5.1	4.7	6.6	3.9	4.4	3.2	
Liberia	4.1 -8.7		·•	<u> </u>	····	••			••	
Libya Lithuania	5.5 -2.7 7.5		2.7	3.3	10.5	5.7	9.6	5.5	6.4	
Macedonia, FYR	-0.8 0.7		-0.6	-2.9	0.4	-5.4	-1.3	1.0	1.3	
Madagascar	2.0 0.9		1.3	2.4	-0.2	2.0	-1.3 1.4	2.4	0.3	
Malawi	3.7 2.9		1.8	2.0	0.1	0.5	-0.8	1.6	2.5	
Malaysia ^a	7.0 4.4	-	3.4	8.6	4.2	9.5	4.4	7.3	4.7	
Mali	4.1 6.3	·····	5.1	6.4	5.9	-1.4	5.3	3.0	5.9	
Mauritania	4.6 4.7	·····	-0.3	3.5	4.3	-1.9	-6.3	5.5	6.7	
Mauritius	5.2 4.4	-0.5	2.8	5.4	2.9	5.3	2.0	6.4	6.1	
Mexico ^a	3.1 1.5	1.5	2.6	3.8	0.0	4.4	-0.6	2.9	2.1	
Moldova	-9.6	-11.2	1.3	-13.6	9.5	-7.1	8.8	0.7	6.0	
Mongolia ^a	3.5 5.2	3.7	-3.3	2.3	8.4	-9.7	14.3	0.5	6.9	
Morocco ^a	2.3 4.7	-0.8	12.6	3.2	3.6	2.7	3.5	2.8	3.5	
Mozambique	6.4 8.8	4.8	8.9	12.8	11.8	18.6	15.2	4.8	7.5	
Myanmar ^a	7.0 .			10.5		7.9		7.2		
Namibia	4.0 4.7		1.2	2.4	7.3	2.6	6.7	4.5	4.5	
Nepal	4.9 2.5		3.3	7.2	0.7	8.9	-1.4	6.2	2.3	
Netherlands	2.9 0.5		0.1	1.5	-0.6	2.3	-1.4	3.3	1.0	
New Zealand	3.2 4.0		2.5	2.5	3.6	2.2	3.1	3.4	4.2	
Nicaragua ^a	3.7 2.5		2.5	3.9	3.2	3.5	3.8	3.0	3.3	
Niger ^a	2.4 4.1	·····	6.4	2.0	3.1	2.6	3.9	1.9	4.3	
Nigeria	2.5 5.4	·····	5.3	1.0	5.1	1.1	8.8	3.1	6.1	
Norway Oman ^a	4.0 1.6 4.5 3.0		0.4 2.2	3.8 3.9	-0.2 -0.5	1.6 6.0	9.3	4.0 5.0	2.6 5.9	
oman ^a Pakistan	3.8 4.1	·····	1.3	3.9 4.1	-0.5 5.3	3.8	9.3 8.0	5.0 4.4	5.9 4.8	
Panama	4.7 3.3		4.2	6.0	1.5	2.7	-2.1	4.4	3.6	
Panama Papua New Guinea	4.7 3.3		2.2	5.6	-3.6	5.5	-2.1 -1.1	4.5 1.5	3.6 1.4	
Paraguay	2.2 1.4	-	6.1	3.2	-3.0 -1.9	0.7	-1.1 -0.4	1.6	0.1	
Peru ^a	4.6 3.7	-	2.6	5.0	5.0	3.8	2.6	4.2	2.8	
Philippines ^a	3.4 3.9		2.4	3.5	2.4	3.0	3.9	4.0	5.8	
Poland	4.6 2.8		······	7.3	2.3	10.0	5.2	4.6	2.9	
Portugal	2.7 0.3		0.9	3.0	-1.2	2.4	-0.1	2.2	1.3	
Puerto Rico ^a	4.2 .		0.0				V.±			



4.1 Growth of output

	Gross domes	stic product	Agric	uiture	Indu	stry	Manufa	cturing	Services		
	average % gro 1990–2000			e annual rowth 2000-04	average % gro 1990–2000		average % gro 1990–2000		average % gro 1990–2000		
Romania	-0.6	5.9	-1.9	8.9	-1.2	5.9			0.9	5.6	
Russian Federation	-4.7	6.1	-4.9	5.4	-7.1	6.2			-1.7	6.0	
Rwanda	-0.3	5.2	2.6	4.7	-3.7	6.1	-6.0	5.8	-1.2	5.4	
Saudi Arabia ^a	2.1	3.4	1.6	1.1	2.2	3.6	5.6	5.5	2.2	3.6	
Senegal ^a	3.2	4.4	2.9	0.0	4.1	6.8	3.1	5.9	3.0	5.1	
Serbia and Montenegro	1.5	4.7		-5.5		1.2			••	7.2	
Sierra Leone ^a	-6.1	7.2	-13.0		-4.5		6.1		-2.9		
Singapore ^a	7.7	2.9	-2.6	-1.1	8.8	1.2	7.9	3.2	7.5	3.7	
Slovak Republic ^a	1.9	4.6	2.7	3.6	2.4	5.2	6.6	5.7	5.7	4.4	
Slovenia	2.7	3.2	-0.5	-1.2	1.6	3.9	1.4	4.7	3.2	3.3	
Somalia					••		••		••		
South Africa	2.1	3.2	1.0	-0.4	1.1	2.0	1.6	1.7	2.7	4.1	
Spain	2.6	3.0	1.2	-0.4	2.1	2.8		1.0	2.8	3.1	
Sri Lanka	5.3	3.7	1.8	0.4	7.0	2.5	8.1	2.0	5.7	5.6	
Sudan	5.4	6.0	9.2		5.8		4.4		2.7		
Swaziland	3.3	2.3	1.2	-0.3	3.8	2.0	2.9	1.8	3.6	3.5	
Sweden	2.2	2.0	-0.7	2.5	4.2	3.1	8.5		1.8	1.4	
Switzerland	1.0	0.6	-2.0		0.4		1.2		1.2		
Syrian Arab Republic ^a	5.0	3.5	5.8	3.3	8.7	-4.7			2.0	9.0	
Tajikistan	-10.4	10.0	-6.8	12.3	-10.8	10.9	-10.0	11.0	-4.0	5.6	
Tanzania ^c	2.9	6.8	3.2	4.9	3.1	8.9	2.7	7.6	2.7	5.9	
Thailand ^a	4.2	5.4	1.0	3.2	5.7	6.9	6.9	7.2	3.8	4.3	
Togo	3.5	2.6	4.0	2.7	1.8	8.2	1.8	7.6	3.9	-0.2	
Trinidad and Tobago ^a	3.2	7.2	2.7	-6.8	3.5	12.0	4.9	6.0	2.9	5.1	
Tunisia	4.7	4.3	2.3	3.7	4.6	3.0	5.5	3.0	5.3	5.1	
Turkey	3.8	4.2	1.4	0.6	4.1	3.4	4.9	5.2	4.0	4.4	
Turkmenistan	-4.8		-5.7		-3.4				-5.4		
Uganda	7.1	5.8	3.7	3.9	12.2	7.0	14.1	5.0	8.2	7.2	
Ukraine	-9.3	8.6	-5.6	3.0	-12.9	10.8	-11.2	14.0	-8.1	8.8	
United Arab Emirates	4.8	7.9	13.2	1.7	3.0	5.5	11.9	6.5	7.2	8.2	
United Kingdom	2.7	2.3	-0.2	1.2	1.5	-0.1			3.5	2.9	
United States	3.5	2.5	3.7	-0.7	3.7	0.0		0.6	3.4	2.5	
Uruguay	3.4	-1.2	2.8	6.0	1.1	-2.1	-0.1	-0.8	4.6	-2.2	
Uzbekistan	-0.2	4.8	0.5	6.7	-3.4	3.6	0.7	2.0	0.4	4.3	
Venezuela, RB ^a	1.6	-1.2	1.3	-0.4	1.2	-2.8	4.5	-2.1	-0.1	1.4	
Vietnam ^a	7.9	7.2	4.3	3.6	11.9	10.1	11.2	11.2	7.5	6.6	
West Bank and Gaza	3.4	-13.3	-3.4	-10.7	-0.6	-22.0	4.1	-16.2	4.7	-9.7	
Yemen, Rep.a	6.0	3.6	5.6	5.3	7.5	2.8	3.7	2.5	5.4	3.1	
Zambia ^a	0.5	4.4	4.2	1.3	-4.2	8.9	0.8	5.9	2.5	4.0	
Zimbabwe	2.1	-5.9	4.3	-9.0	0.4	-10.1	0.4	-11.1	2.9	-7.5	
World	2.9 w	2.5 w	1.8 w	2.1 w	2.4 w	1.4 w	W	1.0 w	3.1 w	2.3 w	
Low income	4.7	5.5	3.1	2.7	4.9	6.0	5.8	6.5	5.9	6.7	
Middle income	3.8 5.2	4.7 6.0	2.0	3.4	4.3 6.4	5.6		••	3.9 5.1	4.1	
Lower middle income	······			•••••	······	7.3			·- -	5.4	
Upper middle income Low & middle income	2.1 3.9	2.7 4.8	0.3 2.3	2.2 3.2	1.5 4.3	2.5 5.6	4.5	2.1	2.8 4.2	2.7 4.4	
East Asia & Pacific	3.9 8.5	4.8 8.1	3.4	3.4	11.0	9.1	••	••	4.2 8.0	8.4	
Europe & Central Asia	-0.8	5.0	-1.7	3.4	-3.0	5.3		••	0.8	4.8	
Latin America & Carib.	3.3	1.6	1.8	3.3	-3.0 3.2	1.4	2.9	1.1	3.3	4.8 0.7	
Middle East & N. Africa	3.9	3.8	2.9	5.1	2.1	1.4	3.7	5.2	3.3 4.7	4.5	
South Asia	5.6	5.8	3.1	1.9	6.2	6.1	6.6	6.5	7.1	7.5	
Sub-Saharan Africa	2.5	3.9	3.3	3.6	1.9	4.0	1.9	2.3	2.7	3.9	
High income	2.5	2.0	1.0	-1.3	1.9	0.3	1.5	2.3 0.7	3.0	2.0	
Europe EMU	2.1	1.3	1.3	-0.4	1.0	0.6	1.8	-0.2	2.5	1.6	

a. Components are at producer prices. b. China has revised its national accounts data from 1993 onwards. Data before 1993 are linked to the revised data on the basis of earlier growth rates. c. Data cover mainland Tanzania only.

About the data

An economy's growth is measured by the change in the volume of its output or in the real incomes of its residents. The 1993 United Nations System of National Accounts (1993 SNA) offers three plausible indicators for calculating growth: the volume of gross domestic product (GDP), real gross domestic income, and real gross national income. The volume of GDP is the sum of value added, measured at constant prices, by households, government, and industries operating in the economy. This year's edition of *World Development Indicators* continues to measure growth of the economy by the change in GDP measured at constant prices.

Each industry's contribution to growth in the economy's output is measured by growth in the industry's value added. In principle, value added in constant prices can be estimated by measuring the 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. This double-deflation method, recommended by the 1993 SNA and its predecessors, requires detailed information on the structure of prices of inputs and outputs.

In many industries, however, value added is extrapolated from the base year using single volume indexes of outputs or, more rarely, inputs. Particularly in the services industries, including most of government, value added in constant prices is often imputed from labor inputs, such as real wages or number of employees. In the absence of well-defined measures of output, measuring the growth of services remains difficult.

Moreover, technical progress can lead to improvements in production processes and in the quality of goods and services that, if not properly accounted for, can distort measures of value added and thus of growth. When inputs are used to estimate output, as is the case for nonmarket services, unmeasured technical progress leads to underestimates of the volume of output. Similarly, unmeasured improvements in the quality of goods and services produced lead to underestimates of the value of output and value added. The result can be underestimates of growth and productivity improvement and overestimates of inflation. These issues are highly complex, and only a few high-income countries have attempted to introduce any GDP adjustments for these factors.

Informal economic activities pose a particular measurement problem, especially in developing countries, where much economic activity may go unrecorded. Obtaining a complete picture of the economy requires estimating household outputs produced for home use, sales in informal markets, barter exchanges,

and illicit or deliberately unreported activities. The consistency and completeness of such estimates depend on the skill and methods of the compiling statisticians and the resources available to them.

Rebasing national accounts

When countries rebase their national accounts, they update the weights assigned to various components to better reflect the current pattern of production or uses of output. The new base year should represent normal operation of the economy—that is, it should be a year without major shocks or distortions. Some developing countries have not rebased their national accounts for many years. Using an old base year can be misleading because implicit price and volume weights become progressively less relevant and useful.

To obtain comparable series of constant price data, the World Bank rescales GDP and value added by industrial origin to a common reference year. This year's *World Development Indicators* continues to use 2000 as the reference year. Because rescaling changes the implicit weights used in forming regional and income group aggregates, aggregate growth rates in this year's *World Development Indicators* are not comparable with those from earlier publications with different base years.

Rescaling may result in a discrepancy between the rescaled GDP and the sum of the rescaled components. Because allocating the discrepancy would cause distortions in the growth rates, the discrepancy is left unallocated. As a result, the weighted average of the growth rates of the components generally will not equal the GDP growth rate.

Growth rates of GDP and its components are calculated using constant price data in the local currency. Regional and income group growth rates are calculated after converting local currencies to constant price U.S. dollars using an exchange rate in the common reference year. The growth rates in the table are average annual compound growth rates. Methods of computing growth rates and the alternative conversion factor are described in *Statistical methods*.

Changes in the System of National Accounts

World Development Indicators adopted the terminology of the 1993 SNA in 2001. Although many countries continue to compile their national accounts according to the SNA version 3 (referred to as the 1968 SNA), more and more are adopting the 1993 SNA. Some low-income countries still use concepts from the even older 1953 SNA guidelines, including valuations such as factor cost, in describing major economic aggregates. Countries that use the 1993 SNA are identified in *Primary data documentation*.

Definitions

 Gross domestic product (GDP) at purchaser prices is the sum of gross value added by all resident producers in the economy plus any product taxes (less subsidies) not included in the valuation of output. It is calculated without deducting for depreciation of fabricated capital assets or for depletion and degradation of natural resources. Value added is the net output of an industry after adding up all outputs and subtracting intermediate inputs. The industrial origin of value added is determined by the International Standard Industrial Classification (ISIC) revision 3. • Agriculture corresponds to ISIC divisions 1-5 and includes forestry and fishing. • Industry covers mining, manufacturing (also reported separately), construction, electricity, water, and gas (ISIC divisions 10-45). • Manufacturing corresponds to industries belonging to ISIC divisions 15-37. • Services correspond to ISIC divisions 50-99. This sector is derived as a residual (from GDP less agriculture and industry) and may not properly reflect the sum of services output, including banking and financial services. For some countries it includes product taxes (minus subsidies) and may also include statistical discrepancies.

Data sources

National accounts data for most developing countries are collected from national statistical organizations and central banks by visiting and resident World Bank missions. Data for highincome economies come from data files of the Organisation for Economic Co-operation and Development (for information on the OECD's national accounts series, see its Annual National Accounts for OECD Member Countries: Data from 1970 Onwards). The World Bank rescales constant price data to a common reference year. The complete national accounts time series is available on the World Development Indicators 2006 CD-ROM. The United Nations Statistics Division publishes detailed national accounts for UN member countries in National Accounts Statistics: Main Aggregates and Detailed Tables and publishes updates in the Monthly Bulletin of Statistics.





4.2 Structure of output

	Gross dome	stic product	Agric	ulture	Indu	ıstry	Manufa	cturing	Services		
	\$ mi	llions	% of	f GDP	% of	GDP	% of	GDP	% of	GDP	
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	
Afghanistan ^a		5,761									
Albania	2,102	7,590	36	25	48	19	••	11	16	56	
Algeria	62,045	84,649	11	10	48	57	11	7	41	34	
Angola ^a	10,260	19,493	18	9	41	58	5	4	41	33	
Argentina	141,352	153,014	8	10	36	36	27	24	56	54	
Armenia	2,257	3,079	17	23	52	37	33	23	31	40	
Australia	310,518	637,327	4	3	29	26	14	12	67	71	
\ustria	164,984	292,328	4	2	32	31	21	20	64	67	
Azerbaijan	8,858	8,523	29	12	33	55	19	9	38	32	
Bangladesh ^a	30,129	56,585	30	21	22	27	13	16	48	52	
Belarus	17,370	22,889	24	11	47	40	39	32	29	50	
Belgium	197,176	352,312	2	1	33	25		18	65	73	
Benin ^a	1,845	4,075	36	37	13	15	8	9	51	48	
Bolivia ^a	4,868	8,773	17	16	35	31	19	14	49	54	
Bosnia and Herzegovina		8,533		12		28		13		61	
Botswana	3,792	8,974	5	3	61	51	5	5	34	47	
Brazil	461,952	603,973	8	10	39	40	25	11	53	50	
Bulgaria	20,731	24,131	17	11	49	31		19	34	58	
Burkina Faso	3,120	4,824	28	31	20	20	15	14	52	49	
Burundi	1,132	657	56	51	19	20	13		25	29	
ambodia ^a	1,115	4,884		33		29		22		38	
Cameroon	11,152	14,391	25	44	30	16	15	8	46	40	
Canada	574,192	977,968	3		32		17		65		
Central African Republic	1,488	1,307	48	56	20	22	11		33	23	
Chad	1,739	4,221	29	64	18	8	14	6	53	29	
Chile ^a	30,323	94,105	9	4	42	45	20	19	50	52	
China ^{a, b}	354,644	1,931,710	27	13	42	46	33		31	41	
Hong Kong, China	75,433	163,005	0	0	25	11	18	4	74	89	
Colombia ^a	40,274	97,718	17	12	38	31	21	14	45	58	
Congo, Dem. Rep.	9,350	6,628	31	58	29	19	11	4	40	22	
Congo, Rep. ^a	2,799	4,343	13	6	41	57	8	6	47	37	
Costa Rica	5,713	18,496	18	9	29	29	22	21	53	63	
Côte d'Ivoire ^a	10,796	15,475	33	22	23	21	21	17	44	58	
Proatia	24,778	34,311	10	8	34	30	28	19	56	62	
Cuba ^a											
Czech Republic	34,880	107,015	6	3	49	38		26	45	59	
)enmark	133,360	241,437	5	2	27	25	18	16	69	73	
Oominican Republic ^a	7,074	18,673	13	11	31	26	18	13	55	63	
cuador ^a	10,356	30,282	13	7	38	31	19	10	49	62	
gypt, Arab Rep.	43,130	78,796	19	15	29	37	18	18	52	48	
El Salvador ^a	4,801	15,824	17	10	27	31	22	24	55	60	
ritrea	477	925	31	15	12	24	8	11	57	61	
stonia	5,010	11,239	17	4	50	29	42	18	34	67	
thiopia	8,609	8,003	49	47	13	10	8		38	44	
inland	136,962	185,923	7	3	34	31	23	23	59	66	
rance	1,239,256	2,046,646	4	3	27	22		14	70	76	
abon ^a	5,952	7,229	7	8	43	61	6	5	50	31	
ambia, The	317	415	29	32	13	14	7	5	58	54	
eorgia	7,738	5,202	32	18	34	25	24	19	35	57	
iermany	1,707,383	2,740,551	2	1	38	29	28	23	61	70	
ihana ^a	5,886	8,869	45	38	17	25	10	9	38	37	
Greece	84,073	205,215	11	7	28	23		12	61	70	
iuatemala ^a	7,650	27,451	26	23	20	19	15	13	54	58	
Guinea	2,818	3,870	24	25	33	37	5	4	43	38	
Guinea-Bissau	244	280	61	63	19	12	8	9	21	25	
					_~		_	-			

Structure of output

	Gross dome	stic product	Agric	ulture	Indu	ıstry	Manufa	ecturing	Serv	ices
	\$ mil 1990	llions 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004
Honduras	3,049	7,371	22	14	26	31	16	20	51	56
lungary	33,056	100,685	15	3	39	31	23	23	46	66
ndia	316,937	691,163	31	21	28	27	17	16	41	52
ndonesia ^a	114,426	257,641	19	15	39	44	21	28	42	41
ran, Islamic Rep.	120,404	163,445	24	11	29	42	12	12	48	48
raq	48,422	12,602		9		70		2		21
reland	47,299	181,623	9	3	35	41	28	31	56	56
srael	52,490	116,879								
aly	1,102,380	1,677,834	4	3	34	28	25	20	63	70
amaica ^a	4,592	8,865	8	6	46	33	21	14	59	62
apan	3,039,693	4,622,771	3	1	39	31	27	21	58	68
ordan	4,020	11,515	8	3	28	29	15	19	64	68
(azakhstan	26,933	40,743	27	8	45	40	9	16	29	52
(enya	8,591	16,088	30	27	19	17	12	11	51	56
(orea, Dem. Rep.										
(orea, Rep. ^a	263,776	679,674	9	4	42	41	27	29	50	56
(uwait ^a	18,428	55,718	1	1	52	59	12	3	47	41
(yrgyz Republic	2,674	2,205	34	37	36	21	28	14	30	42
ao PDR	866	2,452	61	47	15	28	10	20	24	26
atvia	7,447	13,571	22	4	46	23	35	13	32	73
ebanon	2,838	21,768		7		21		13		72
esotho	615	1,312	24	18	33	41	 14	19	44	42
iberia	384	492	54	43	17	6		6	29	51
ibya	28,905	29,119								
ithuania	10,506	22,263	27	6	31	34	21	21	42	60
/lacedonia, FYR	4,478	5,355	9	13	45	28	36	16	47	59
// Madagascar	3,081	4,364	29	29	13	16	11	14	59	55
/lalawi	1,881	1,879	45	39	29	17	20	11	26	44
Malaysia ^a	44,024	118,318	15	10	42	50	24	31	43	40
Mali	2,421	4,863	46	36	16	26	9	3	39	39
Mauritania	1,020	1,534	30	18	29	34	10	10	42	48
Mauritius	2,383	6,034	13	6	33	30	25	21	54	64
Mexico ^a	262,710	676,497	8	4	28	26	21	18	64	70
Moldova	3,593	2,595	36	21	37	24		17	27	55
Mongolia ^a	5,555	1,612	17	21	30	30		5	52	49
Morocco ^a	25,784	50,031	18	16	32	30	18	17	50	54
Mozambique	2,463	6,086	37	22	18	31	10	13	45	47
Myanmar ^a	2,700	0,000	57		11		8		32	
lamibia	2,350	5,712	12	10	38	32	14	 14	50	 58
lepal	3,628	6,707	52	40	16	23	6	9	32	37
letherlands	294,761	578,979	5	2	31	26	19	15	65	72
lew Zealand	43,618	98,944	7	•••••	28	•	19	•	65	
licaragua ^a	1,009	4,555	37	19	25 25	31	20	20	56	 50
liger ^a	2,481	3,081	35	40	25 16	17	7	7	49	43
ligeria	28,472	72,053	33	40 17	41	57	6	4	26	43 27
lorway	116,108	250,052	4	2	36	39	13	4 11	61	21 59
lman ^a	116,108	250,052	3	2	54	56	3	8	43	59 42
					•		•	•	•	
akistan	40,010	96,115	26	22	25 15	25	17	18	49 75	53
anama	5,313	13,733	10	8	15 20	18	10	8	75	74 20
apua New Guinea	3,221	3,909	29	29	30	42	9	9	41	29
araguay	5,265	7,343	28	27	25	24	17	14	47	49
eru ^a	26,294	68,637	9	10	27	30	18	16	64	60
Philippines ^a	44,312	84,567	22	14	35	32	25	24	44	54
oland	58,976	242,293	8	3	50	33		20	42	64
ortugal -	71,462	167,716	9	4	32	27	22	17	60	70
uerto Rico ^a	30,604		1		42		40		57	



4.2 Structure of output

Romania Russian Federation Rwanda Saudi Arabia ^a Senegal ^a Serbia and Montenegro Sierra Leone ^a Singapore ^a	\$ mi 1990 38,299 516,814 2,584 116,778	illions 2004 73,167	% of 1990	GDP						
Russian Federation Rwanda Saudi Arabia ^a Senegal ^a Serbia and Montenegro Sierra Leone ^a	38,299 516,814 2,584	73,167	1990			GDP	% of		% of (
Russian Federation Rwanda Saudi Arabia ^a Senegal ^a Serbia and Montenegro Sierra Leone ^a	516,814 2,584			2004	1990	2004	1990	2004	1990	2004
Rwanda Saudi Arabia ^a Senegal ^a Serbia and Montenegro Sierra Leone ^a	2,584		24	14	50	37	34	31	26	49
Saudi Arabia ^a Senegal ^a Serbia and Montenegro Sierra Leone ^a	···•	581,447	17	5	48	35			35	60
Senegal ^a Serbia and Montenegro Sierra Leone ^a	116 770	1,845	33	41	25	22	18	10	43	38
Serbia and Montenegro Sierra Leone ^a	110,110	250,557	6	4	49	59	9	10	46	37
Sierra Leone ^a	5,699	7,775	20	17	19	20	13	12	61	63
		23,997		19		36		22		45
Singapore ^a	650	1,075	47		19		5		34	
	36,901	106,818		0		35		29		65
Slovak Republic ^a	15,485	41,094	7	4	59	30		19	34	67
Slovenia	17,413	32,182	6	3	42	37	34	27	52	61
Somalia	917		66				5			
South Africa	112,014	212,777	5	3	40	32	24	20	55	65
Spain	526,471	1,039,927	7	4	34	29		16	59	67
Sri Lanka	8,032	20,055	26	18	26	27	15	15	48	55
Sudan	13,167	21,098		39		25		6		36
Swaziland	882	2,396	13	13	 42	47	 35	39	 45	40
Sweden	240,153	346,412	3	2	32	29	***************************************	21	64	69
Switzerland	235,808	357,542	3	1	33	29	22	20	64	70
Syrian Arab Republic ^a	12,309	24,022	28	23	24	27	20		48	50
	···•			•	38	•	•		-	
Tajikistan Tanzania	2,629	2,073	33	24	•	31	25	22	29	45
Tanzania ^c	4,259	10,851	46	45	18	17	9	7	36	39
Thailand ^a -	85,345	161,688	13	10	37	44	27	35	50	46
Togo	1,628	2,061	34	41	23	23	10	9	44	36
Trinidad and Tobago ^a	5,068	12,544	3	1	45	47	13	7	52	52
Tunisia 	12,291	28,185	16	13	30	28	17	18	55	60
Turkey	150,642	302,786	18	13	30	22	20	14	52	65
Turkmenistan	3,232	6,167	32	21	30	45		21	38	34
Uganda	4,304	6,822	57	32	11	21	6	9	32	47
Ukraine	81,456	64,828	26	12	45	37	39	23	30	51
United Arab Emirates	33,653	104,204	2	3	64	55	8	13	35	42
United Kingdom	989,524	2,124,385	2	1	35	26	23		63	73
United States	5,757,200	11,711,834	2	1	28	22	19	15	70	77
Uruguay	9,287	13,215	9	11	33	29	27	21	58	60
Uzbekistan	13,361	11,960	33	31	33	25	22	10	34	44
Venezuela, RB ^a	47,027	110,104	6	5	61	52	15	18	34	44
Vietnam ^a	6,472	45,210	39	22	23	40	12	20	39	38
West Bank and Gaza		3,454		6		12		10	••	82
Yemen, Rep. ^a	4,828	12,834	24	14	27	38	9	5	49	49
Zambia ^a	3,288	5,402	21	21	51	27	36	12	28	52
Zimbabwe	8,784	4,696	17	18	33	23	23	14	50	60
World		t 41,290,409 t	6 w	4 w	33 w	28 w	22 w	18 w	61 w	68 w
Low income	609,821	1,239,169	32	23	26	28	15	15	42	49
Middle income	3,238,587	7,156,777	16	10	39	37	25	18	46	53
Lower middle income	1,656,377	4,165,291	19	12	39	41	27	• • • • • • • • • • • • • • • • • • • •	42	46
Upper middle income	1,582,075	2,991,524	10	6	39	32	22	20	51	62
Low & middle income	3,849,026		18	12	37	36	23	18	45	52
East Asia & Pacific	665,783	2,650,867	25	13	40	45	30	·····	35	42
Europe & Central Asia	···•		25 16	13	43	32	***************************************	10	41	60
	1,107,862	1,769,739		•	•	•		19	-	
Latin America & Carib.	1,101,298	2,021,995	9	9	36	34	22	16	55 40	58
Middle East & N. Africa		547,496	19	12	33	39	14	14	49	49
South Asia	401,923	880,212	31	21	27	27	17	16	43	52
Sub-Saharan Africa	298,442	523,310	20	16	34	32	17	15	47	52
High income Europe EMU	17,887,372	32,900,093 9,500,919	3 4	2 2	33 33	26 27	22	18 19	65 63	<i>72</i> 71

a. Components are at producer prices. b. China has revised its national accounts data from 1993 onwards. Data before 1993 are not comparable with the later data. c. Data cover mainland Tanzania only.

About the data

An economy's gross domestic product (GDP) represents the sum of value added by all producers in that economy. Value added is the value of the gross output of producers less the value of intermediate goods and services consumed in production, before taking account of the consumption of fixed capital in the production process. The United Nations System of National Accounts calls for estimates of value added to be valued at either basic prices (excluding net taxes on products) or producer prices (including net taxes on products paid by producers but excluding sales or value added taxes). Both valuations exclude transport charges that are invoiced separately by producers. Total GDP shown in the table and elsewhere in this book is measured at purchaser prices. Value added by industry is normally measured at basic prices. When value added is measured at producer prices, this is noted in Primary data documentation.

While GDP estimates based on the production approach are generally more reliable than estimates compiled from the income or expenditure side, different countries use different definitions, methods, and reporting standards. World Bank staff review the quality of national accounts data and sometimes make adjustments to improve consistency with international guidelines. Nevertheless, significant discrepancies remain between international standards and actual practice. Many statistical offices, especially those in developing countries, face severe limitations in the resources, time, training, and budgets required to produce reliable and comprehensive series of national accounts statistics.

Data problems in measuring output

Among the difficulties faced by compilers of national accounts is the extent of unreported economic activity in the informal or secondary economy. In developing countries a large share of agricultural output is either not exchanged (because it is consumed within the household) or not exchanged for money.

Agricultural production often must be estimated indirectly, using a combination of methods involving estimates of inputs, yields, and area under cultivation. This approach sometimes leads to crude approximations that can differ from the true values over time and across crops for reasons other than climatic conditions or farming techniques. Similarly, agricultural inputs that cannot easily be allocated to specific outputs are frequently "netted out" using equally crude and ad hoc approximations. For further discussion of the measurement of agricultural production, see *About the data* for table 3.3.

Ideally, industrial output should be measured through regular censuses and surveys of firms. But in most developing countries such surveys are infrequent, so earlier survey results must be extrapolated using an appropriate indicator. The choice of sampling unit, which may be the enterprise (where responses may be based on financial records) or the establishment (where production units may be recorded separately), also affects the quality of the data. Moreover, much industrial production is organized in unincorporated or owner-operated ventures that are not captured by surveys aimed at the formal sector. Even in large industries, where regular surveys are more likely, evasion of excise and other taxes and nondisclosure of income lower the estimates of value added. Such problems become more acute as countries move from state control of industry to private enterprise, because new firms enter business and growing numbers of established firms fail to report. In accordance with the System of National Accounts, output should include all such unreported activity as well as the value of illegal activities and other unrecorded, informal, or small-scale operations. Data on these activities need to be collected using techniques other than conventional surveys of firms.

In industries dominated by large organizations and enterprises, such as public utilities, data on output, employment, and wages are usually readily available and reasonably reliable. But in the services industry the many self-employed workers and one-person businesses are sometimes difficult to locate, and they have little incentive to respond to surveys, let alone to report their full earnings. Compounding these problems are the many forms of economic activity that go unrecorded, including the work that women and children do for little or no pay. For further discussion of the problems of using national accounts data, see Srinivasan (1994) and Heston (1994).

Dollar conversion

To produce national accounts aggregates that are measured in the same standard monetary units, the value of output must be converted to a single common currency. The World Bank conventionally uses the U.S. dollar and applies the average official exchange rate reported by the International Monetary Fund for the year shown. An alternative conversion factor is applied if the official exchange rate is judged to diverge by an exceptionally large margin from the rate effectively applied to transactions in foreign currencies and traded products.

Definitions

• Gross domestic product (GDP) at purchaser prices is the sum of gross value added by all resident producers in the economy plus any product taxes (less subsidies) not included in the valuation of output. It is calculated without deducting for depreciation of fabricated assets or for depletion and degradation of natural resources. Value added is the net output of an industry after adding up all outputs and subtracting intermediate inputs. The industrial origin of value added is determined by the International Standard Industrial Classification (ISIC) revision 3. • Agriculture corresponds to ISIC divisions 1-5 and includes forestry and fishing. • Industry covers mining, manufacturing (also reported separately), construction, electricity, water, and gas (ISIC divisions 10-45). • Manufacturing corresponds to industries belonging to ISIC divisions 15-37. • Services correspond to ISIC divisions 50-99. This sector is derived as a residual (from GDP less agriculture and industry) and may not properly reflect the sum of services output, including banking and financial services. For some countries it includes product taxes (minus subsidies) and may also include statistical discrepancies.

Data sources

National accounts data for most developing countries are collected from national statistical organizations and central banks by visiting and resident World Bank missions. Data for high-income economies come from data files of the Organisation for Economic Co-operation and Development (for information on the OECD's national accounts series, see its Annual National Accounts for OFCD Member Countries: Data from 1970 Onwards). The complete national accounts time series is available on the World Development Indicators 2006 CD-ROM. The United Nations Statistics Division publishes detailed national accounts for UN member countries in National Accounts Statistics: Main Aggregates and Detailed Tables and publishes updates in the Monthly Bulletin of Statistics.





4.3 Structure of manufacturing

	Manufac value a	_	beve	od, rages, obacco	1	es and hing	and tra	Machinery and transport equipment		icals		her cturing ^a
	\$ mill 1990	ions 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002
Afghanistan					•	•		-				•
Albania		393	 24	········	33						44	
Algeria	6,452	4,109	13		17	•			•••		70	••••••
Angola	513	404								••		·••
Argentina	37,868	20,763	20	······································	10		13		12		46	
Armenia	681	483				•						
Australia	38,871	44,802	18	15	6	12	20	25	7	7	49	42
Austria	31,439	37,308	15	20	7	17	28	18	8	9	43	37
Azerbaijan	1,561	463	•	•	•	•	•	•	•	•	•	•••••
Bangladesh	3,839	7,278	 24		38		7		 17		 15	
Belarus	6,630	3,790	•	*	•••••	•		•	•	•		••••••
Belgium	5,000	41,434	17	 18	7	 15		24	13	 7	62	37
Benin	145	244				•				•		
Bolivia	826	1,039	 28		5		1		3	••	63	
Bosnia and Herzegovina		559	12		15		18	••	7	••	49	
Botswana		233	51	 19	12	4	*	········	•	••	36	77
Brazil	89,966	53,032	14	•	12	•	27			••	48	•••••
Bulgaria	89,900	2,391	22		9	••	19		5	••	45	••
Burkina Faso	460	394	1	 1	8	17	13	3	•	••	90	80
Burundi	134		83	•	9	•	•	•	2	••	7	•••••
Cambodia	58	 755	•			••			•	••		••
Cameroon	1,581	845	 61		-13		1		5	••	 46	
	91,671	118,620	15	17	-13 6	9	26	21	10	7	44	46
Canada Central African Republic	154	110,020	58	17	6		20		6	•	28	·
Chad	239	263	•	········	•••••		***************************************		•		*	
Chile	5,613	12,348	 25	 25	8	18	. 5	12	10	8	 52	37
Chinab	116,573	12,340	25 15	25 15	15	12	24	32	13	0 12	34	28
	12,639	7,033	8	11	36	20	21	25	2	3	33	41
Hong Kong, China			31	21	15	4	9	•	14		31	71
Colombia	8,034	10,783	•		•	•		4	•	••		
Congo, Dem. Rep.	1,029	220					···			••	 2F	••
Congo, Rep.	234	158	58 47		4		3 7				35	
Costa Rica	1,107	3,277	47	45	8	5	*	6	9	11	30	33
Côte d'Ivoire	2,257	1,949	38	26	7	13	8	9		••	47	52
Croatia	6,475	3,771	22		15 <i>5</i>		20		8	••	36	••
Cuba			67		•		1			••	27	
Czech Republic		17,407										
Denmark Denminian Banublia	20,757	23,862	22	21	4	7	24	25	12	8	39	38
Dominican Republic	1,270	3,393			10			1				 er
Ecuador Egypt Arch Bon	1,988	2,663	22	11	10	3	5	1	8	1	56	85
Egypt, Arab Rep.	7,296	16,250	19 <i>36</i>		16 <i>14</i>	27	9 4		14 <i>24</i>		43 23	
El Salvador	1,043	3,318	•	44	••	27	*	3 2	•	9	*	17
Entrea	35	66 1 085	53	55	18	11	2	•	18	6	9	26
Estonia Ethiopia	1,985	1,085	••			•••		·······		••		••
Ethiopia	624	27.24.2		17	13		2	10	2		83	
Finland	27,531	27,212	13	17	4	12	24	19	8	7	52	45
France		192,279	13 45	13 <i>28</i>	6 2	12 <i>4</i>	31 1	22 3	9 7	7 2	41 45	45 63
Gabon Gambia Tho	332	234	45	•	•••••	•	•	•	•	•	•	63
Gambia, The	18	19	••							••		••
Georgia	1,773	599										
Germany	456,405	410,644		8		2		41		10		38
Ghana	575	556		38		11		4		8		39
Greece		13,845	22	24	20	21	12	13	10	8	36	35
Guatemala	1,151	2,985	38	41	11	10	4	4	18	14	29	31
Guinea	126	128										
Guinea-Bissau	19	20		<u></u>			······	··········		••		·••
Haiti		268	51		9						40	

Structure of manufacturing

		Manufacturing value added		Food, Textiles and beverages, clothing and tobacco				ninery ansport oment	Chen	nicals	Other manufacturing ^a		
	\$ mil 1990	lions 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% o	f total 2002	
Hungary	443 6,613	1,172 12,449	45 14	33 12	10 9	3 13	3 26	0 10	6 12	7	36 39	64 58	
Hungary India	48,808	72,681	12	2	15	27	26	17	14	5	34	49	
Indonesia	23,643	59,471	28	23	15	17	12	22	9	10	37	28	
Iran, Islamic Rep.	14,503	13,938	12	36	20	30	20	9	8	2	40	23	
Iraq		319	20	51	16	53	4	25	11	7	49	-35	
Ireland	11,982	34,732	27	35	4	20	29	11	17	5	24	29	
Israel			14	20	9	15	32	17	9	6	37	42	
Italy	247,917	216,177	8	9	13	13	35	27	7	8	37	44	
Jamaica	853	1,071	41	29	5	3		2		4	54	63	
Japan	810,232	811,829	9	10	5	0	40	9	10	11	37	70	
Jordan	520	1,393	28	27	7	9	4	5	15	17	47	42	
Kazakhstan	1,941	3,566											
Kenya	864	1,299	39	37	10	19	10	7	9	10	33	28	
Korea, Dem. Rep.													
Korea, Rep.	64,605	129,449	11	27	12	20	32	6	9	10	36	37	
Kuwait	2,142	1,031	4	10	3	5	2	5	3	3	88	76	
Kyrgyz Republic	706	210											
Lao PDR	85	344	••										
Latvia	2,474	1,128	••	27	••	11	••	10	••	4		49	
Lebanon		2,114	••									••	
Lesotho Liberia	71	128 27	••			•••	••	•••	••	•••	•••		
Libya			••	49	••	3	••	2	••	10	••	36	
Lithuania	2,164	2,398	···		·······	•		•		•		••••••	
Macedonia, FYR	1,411	589	20		26		14		9		31		
Madagascar	314	518	39	11	36	35	3	6	8	1	14	48	
Malawi	313	197	38	62	10	12	1	1	18	8	33	17	
Malaysia	10,665	29,095	13	9	7	4	31	41	11	8	39	38	
Mali	200	98											
Mauritania	94	112											
Mauritius	491	922	30		46		2		4		17		
Mexico	49,992	110,667	22	25	5	4	24	27	18	15	32	28	
Moldova		247		59		10		6				25	
Mongolia		70	33		37		1		1		27		
Morocco	4,753	6,067	22	33	17	18	8	8	12	13	41	28	
Mozambique	230	493	12	49	2	15	7	5		3	79	29	
Myanmar													
Namibia	292	314	·					<u> </u>	<u> </u>				
Nepal	209	432	37	45	31	19	1	2	5	10	26	23	
Netherlands	52,330	56,954	21	19	3	14	25	33	17	12	35	23	
New Zealand	7,574	8,037	28	3	8	12	13	10	7	5	44	71	
Nicaragua	170	721	56	53	10	8	0	0	6	10	28	29	
Niger	163	143	37 15		29 46		12				34		
Nigeria	1,562	2,075	15 19		46	10	13		4		22		
Norway Oman	13,450 343	18,563 1,564	18 	1 9	2	10 2	25	21 3	9	3 5	46	65 82	
Pakistan	6,184	10,440	24	23	28	2	9		 15	11	 25	59	
Panama	502	974	51	52	26 8	7	2	3	8	4	31	35	
Papua New Guinea	289	241	12	21	o	0		3		4	88	73	
Paraguay	883	775	56	45	 16	18		1		5	29	32	
Peru	3,926	8,149	23		11		 8		9		49		
Philippines	11,003	17,735	39	38	11	10	13	8	12	12	26	33	
Poland	,	29,220	21	20	9	19	26	23	7	6	37	32	
Portugal	13,630	18,319	15	19	21	23	13	10	6	9	45	40	
Puerto Rico	12,126	27,099	16	8	5	2	18	18	44	61	17	12	



4.3 Structure of manufacturing

		Manufacturing value added		Food, Textiles and beverages, clothing and tobacco			and tra	ninery ansport oment	Chen	nicals	Other manufacturing ^a		
	\$ m 1990	illions 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% of 1990	total 2002	% o	f total 2002	
Romania	9,152	16,141	19		18		14		4		45		
Russian Federation	0,102			19		2		24		 5		50	
Rwanda	473	194				2	10			2	90	97	
Saudi Arabia	10,049	19,460	7		1		4		39		50	100	
Senegal	747	626	60		3		5		9		23		
Serbia and Montenegro		2,596		36		6		14		11		33	
Sierra Leone	28	21					•••						
Singapore		22,942	4	2	3	1	53	52	10	22	29	23	
Slovak Republic		4,811	••										
Slovenia	5,200	5,170	12	10	15	9	16	17	9	13	48	50	
Somalia	41		86	50	3	3					12	47	
South Africa	24,043	19,885	15	16	8	13	18	15	9	9	50	48	
Spain		108,351	18	17	8	22	25	18	10	11	39	33	
Sri Lanka	1,077	2,320	51	39	24	31	4	6	4	4	17	21	
Sudan		930	16		4		0		21		59		
Swaziland	250	283	69		8		1		0		22		
Sweden		43,749	10	11	2	8	33	30	9	2	47	49	
Switzerland	49,484	53,226	10		4		34				53		
Syrian Arab Republic	2,508		35	35	29	43		2	••	1	36	19	
Tajikistan	653	415											
Tanzania ^c	361	660	51	42	3	27	7	3	11	3	29	26	
Thailand	23,217	42,739	24	23	30	14	19	4	2	25	26	34	
Togo	162	134	60	10	7	13					33	77	
Trinidad and Tobago	681	692	31		3		3		19		44		
Tunisia	2,075	3,910	19	35	20	11	5	5	4	20	52	30	
Turkey	26,882	21,912	16	31	15	23	16	8	10	6	43	32	
Turkmenistan		647											
Uganda	230	535	61	19	14	1	3	2	6	1	16	79	
Ukraine	31,517	7,582											
United Arab Emirates	2,643	10,268		5		2		6		4		84	
United Kingdom	206,719	220,429	13	12	5	11	32	32	11	10	38	36	
United States	1,040,600	1,463,300	12	12	5	8	31	30	12	10	40	39	
Uruguay	2,597	2,145	31		18		9		10		32		
Uzbekistan		782											
Venezuela, RB	6,921	15,270	17	28	5	5	5	4	9		64	64	
Vietnam	793	7,218		30		21		15		6		28	
West Bank and Gaza		341	••										
Yemen, Rep.	449	507		50		5		0				44	
Zambia	1,048	385	44		12		7		9		29		
Zimbabwe	1,799	3,692	28	28	19	18	10	3	6	5	38	48	
World	4,528,705	t 5,446,980 t											
Low income	83,631	123,365											
Middle income							•			•			
Lower middle income													
Upper middle income	265,244	386,586											
Low & middle income East Asia & Pacific												, . <u></u>	
Europe & Central Asia													
Latin America & Carib.	204,350	258,603		•	•	•	•	•	•	•	•	•	
Middle East & N. Africa		56,686											
South Asia	60,476	93,715		***************************************			***************************************	***************************************	•	•	***************************************		
Sub-Saharan Africa	43,316	40,599		•	•	•	•	•	•	•	•	•	
High income	3,627,337	4,286,603											
Europe EMU	838.928	1,159,441											

a. Includes unallocated data. b. China has revised its national accounts data from 1993 onwards. Data before 1993 are not comparable with the later data. c. Data cover mainland

Structure of manufacturing

About the data

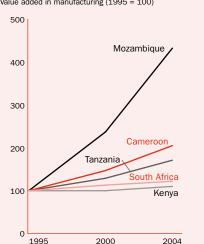
The data on the distribution of manufacturing value added by industry are provided by the United Nations Industrial Development Organization (UNIDO). UNIDO obtains data on manufacturing value added from a variety of national and international sources, including the United Nations Statistics Division, the World Bank, the Organisation for Economic Co-operation and Development, and the International Monetary Fund. To improve comparability over time and across countries, UNIDO supplements these data with information from industrial censuses, statistics supplied by national and international organizations, unpublished data that it collects in the field, and estimates by the UNIDO Secretariat. Nevertheless, coverage may be less than complete, particularly for the informal sector. To the extent that direct information on inputs and outputs is not available, estimates may be used, which may result in errors in industry totals. Moreover, countries use different reference periods (calendar or fiscal year) and valuation methods (basic or producer prices) to estimate value added. (See also About the data for table 4.2.)

The data on manufacturing value added in U.S. dollars are from the World Bank's national accounts files. These figures may differ from those used by UNIDO to calculate the shares of value added by industry, in part because of differences in exchange rates. Thus estimates of value added in a particular industry calculated by applying the shares to total

4.3a

Manufacturing growth trends for selected Sub-Saharan countries

Value added in manufacturing (1995 = 100)



Mozambique had impressive growth in the manufacturing sector with over 15 percent growth between 1995 and 2004. By contrast, South Africa-with the largest manufacturing sector in the region-had modest growth of slightly more than 1.5 percent over the same period.

Source: World Bank data files.

manufacturing value added will not match those from UNIDO sources. The classification of manufacturing industries in the table accords with the United Nations International Standard Industrial Classification (ISIC) revision 2. First published in 1948, the ISIC has its roots in the work of the League of Nations Committee of Statistical Experts. The committee's efforts, interrupted by the Second World War, were taken up by the United Nations Statistical Commission, which at its first session appointed a committee on industrial classification. The latest revision, ISIC revision 3, was completed in 1989, and many countries have now switched to it. But revision 2 is still widely used for compiling cross-country data. Concordances matching ISIC categories to national systems of classification and to related systems such as the Standard International Trade Classification are readily available.

In establishing a classification system, compilers must define both the types of activities to be described and the organizational units whose activities are to be reported. There are many possibilities, and the choices made affect how the resulting statistics can be interpreted and how useful they are in analyzing economic behavior. The ISIC emphasizes commonalities in the production process and is explicitly not intended to measure outputs (for which there is a newly developed Central Product Classification). Nevertheless, the ISIC views an activity as defined by "a process resulting in a homogeneous set of products" (United Nations 1990 [ISIC, series M, no. 4, rev. 3], p. 9).

Firms typically use a multitude of processes to produce a final product. For example, an automobile manufacturer engages in forging, welding, and painting as well as advertising, accounting, and many other service activities. In some cases the processes may be carried out by different technical units within the larger enterprise, but collecting data at such a detailed level is not practical, nor would it be useful to record production data at the very highest level of a large, multiplant, multiproduct firm. The ISIC has therefore adopted as the definition of an establishment "an enterprise or part of an enterprise which independently engages in one, or predominantly one, kind of economic activity at or from one location . . . for which data are available . . . " (United Nations 1990, p. 25). By design, this definition matches the reporting unit required for the production accounts of the UN System of National Accounts.

Definitions

• Manufacturing value added is the sum of gross output less the value of intermediate inputs used in production for industries classified in ISIC major division 3. • Food, beverages, and tobacco correspond to ISIC division 31. • Textiles and clothing correspond to ISIC division 32. • Machinery and transport equipment correspond to ISIC groups 382-84. • Chemicals correspond to ISIC groups 351 and 352. • Other manufacturing covers wood and related products (ISIC division 33), paper and related products (ISIC division 34), petroleum and related products (ISIC groups 353-56), basic metals and mineral products (ISIC divisions 36 and 37), fabricated metal products and professional goods (ISIC groups 381 and 385), and other industries (ISIC group 390). When data for textiles and clothing, machinery and transport equipment, or chemicals are shown in the table as not available, they are included in "other manufacturing."

Data on value added in manufacturing in U.S. dollars are from the World Bank's national accounts files. Data used to calculate shares of value added by industry are provided to the World Bank in electronic files by UNIDO. The most recent published source is UNIDO's International Yearbook of Industrial Statistics 2005. The ISIC system is described in the United Nations' International Standard Industrial Classification of All Economic Activities, Third Revision (1990). The discussion of the ISIC draws on Jacob Ryten's paper "Fifty Years of ISIC: Historical Origins and Future Perspectives" (1998).





4.4 Structure of merchandise exports

	Mercha expo		Food		_	Agricultural raw materials		Fuels		and tals	Manufactures	
	\$ mill 1990	ions 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004
Afghanistan	235	420										
Albania	230	596		6		 4		3	•	6		 82
Algeria	12,930	32.298	0	0	0	0	96	97	0	0	3	2
Angola	3,910	13,850	0		0		93		6		0	
Argentina	12,353	34,453	56	48	4	2	8	16	2	4	29	29
Armenia		705		12		2		3		21		62
Australia	39,752	86,423	22	19	10	4	20	19	20	16	26	25
Austria	41,265	117,417	3	6	4	3	1	3	3	3	88	84
Azerbaijan		3,615		4		1		82		1		10
3angladesh	1,671	8,150	14	8	7	2	1	0	0	0	77	90
3elarus		13,752		8		3		27		1		60
Belgium	117,703 ^a	306,509	9 ^a	9	2 ^a	1	3 ^a	6	4 ^a	3	77 ^a	81
3enin	288	672	15	41	56	49	15	0	0	0	13	9
Bolivia	926	2,129	19	27	8	2	25	38	44	19	5	14
Bosnia and Herzegovina	276	1,789										
Botswana	1,784	3,467										
Brazil	31,414	96,475	28	28	3	4	2	5	14	9	52	54
Bulgaria	5,030	9,918		10		2		8		12		62
Burkina Faso	152	445	••	16		72		3		1		8
Burundi	75	47	••	92		1		0	<u>.</u>	2		5
Cambodia	86	2,798		1		2		0		0		97
Cameroon	2,002	2,700	20	19	14	24	50	47	7	5	9	5
Canada	127,629	316,547	9	7	9	5	10	17	9	5	59	60
Central African Republic	120	120	31	2	24	25	0	0	1	36	44	37
Chad	188	2,200				··						
Chile	8,372	32,025	24	21	9	8	1	3	55	54	11	13
China [†]	62,091	593,329	13	4	3	1	8	2	2	2	72	91
Hong Kong, China ^b	82,390	265,670	4	1	1	1	1	0	1	1	92	96
Colombia	6,766	16,224	33	17	4	5	37	38	0	. 1	25	38
Congo, Dem. Rep.	2,326	1,413	••						•••••			
Congo, Rep. Costa Rica	981	3,900		33	. 5	3		0	1	1		
	1,448 3,072	6,297 6,475	58	56		<u> </u>	1	13	1	1	27	63 <i>20</i>
Côte d'Ivoire			 13	9	. 6	4	9	13	5	<i>0</i> 3	 68	<i>2</i> 0 72
Croatia Cuba	<i>4,597</i>	8,022 2,192	•	•			•	•	•	•	•	•••••
Czech Republic	5,100 <i>12,170</i>	2,192 68,657	••	3	••	2	••	3	••	2	••	90
Denmark	36,870	68,657 76,821	 27	3 19	3	3	3		 1	1	60	90 66
Dominican Republic	2,170	5,750	21 21	***************************************	0	•	0		0		78	00
Ecuador	2,170	7,634	44	 31	1	5	52	 54	0	0	2	9
Egypt, Arab Rep.	3,477	7,634	10	10	10	7	29	43	9	4	42	31
El Salvador	582	3,295	57	32	10	1	29	43	3	3	38	60
Eritrea	16	3,293	•	•	•••••	•	•••••	•	•	•	•	- 50
Estonia		5,945				 8		4	··	3		 77
Ethiopia	298	639		62		26		0		1		11
Finland	26,571	61,334	 2	2	10	6	1	4	4	3	83	83
rance	216,588	448,714	16	11	2	1	2	3	3	2	77	83
Gabon	2,204	3,490		1		10		76		6		7
Gambia, The	31	22		63		7		1		2		27
Georgia		649	•••	32		2		4	•••••	25		37
Germany	421,100	912,261	 5	4	1	1	1	2	3	2	89	84
Ghana	897	2,580	51	72	15	10	9	0	17	4	8	14
Greece	8,105	15,198	30	20	3	3	7	7	7	8	54	59
Guatemala	1,163	2,938	67	45	6	4	2	8	0	0	24	42
Guinea	671	700		2		1		0		72		25
Guinea-Bissau	19	81										
Haiti	160	391	14		1		0		0		85	
Data for Taiwan, China	67,245	182,424	4	1	2	1	1	3	1	2	93	93

Structure of merchandise exports

4	- 4

	Merch: expo	I	Fo	ood	Agricult mate		Fu	els	1	s and tals	Manuf	actures
	\$ mil	lions	% of	total	% of	total	% of	total	% of	total	% of	f total
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Honduras	831	1,537	82	63	4	4	1	0	4	6	9	27
Hungary	10,000	54,857	23	7	3	1	3	2	6	2	63	88
ndia	17,969	75,595	16	10	4	1	3	9	5	7	70	73
ndonesia	25,675	72,330	11	14	5	6	44	18	4	7	35	56
ran, Islamic Rep.	19,305	44,446		4		0		85		1		9
raq	12,380	17,810										
reland	23,743	104,281	22	. 8	2	0	1	0	. 1	1	70	86
srael	12,080	38,520	8	3	3	1	1	0	2	1	87	94
taly	170,304	349,153	6	7	1	1	2	2	1	1	88	88
amaica	1,158	1,390	19	23	0	0	1	3	9	10	70	65
apan	287,581	565,807	1	0	1	0	0	0	1	2	96	93
ordan	1,064	3,887	10	14	1	0	0	1	33	12	56	72
(azakhstan ,		20,093		4		1		65		14		16
Kenya	1,031	2,693	49	40	6	12	13	23	3	4	30	21
Korea, Dem. Rep.	1,857	1,380										
Korea, Rep.	65,016	253,845	3	1	1	1	1	4	1	2	94	92
Kuwait	7,042	28,729	1		0		93		0		6	
(yrgyz Republic	<u></u>	719		18		12		19		7		43
.ao PDR	79	361										
.atvia		3,951		9		19		5		3		61
_ebanon	494	1,747		19		2		0		10		68
esotho	62	726										
iberia	868	235	••									
ibya	13,225	20,844	1		0		95				4	
ithuania		9,269	24	11	6	4	8	25	1	2	59	58
Macedonia, FYR	1,199	1,661		15		1		5	<u> </u>	2		77
Madagascar	319	990	73	61	4	6	1	4	8	5	14	22
Malawi	417	441	91	78	2	5	0	0	0	. 0	. 7	16
Malaysia	29,452	126,503	12	8	14	2	18	12	2	1	54	76
Mali 	359	1,123	36		62				0		2	
Mauritania	469	410						••				
Mauritius • ·	1,194	2,004	32	27	1	0	1	0	0	0	66	71
Mexico	40,711	189,083	12	5	2	1	38	12	6	2	43	80
Moldova 		986	••	53		7		2		2		36
Mongolia -	661	880		3		13		3		43		38
Morocco	4,265	9,739	26	19	3	2	4	2	15	8	52	69
Mozambique •	126	1,504		19		6		16		55		3
Myanmar 	325	2,850	51		36		0		. 2		11	
lamibia 	1,085	1,833		48		1		1		. 7		41
lepal	204	756	13	21	3	1		0	0	4	83	74
letherlands	131,775	358,187	20	15	4	3	10	9	3	3	59	70
lew Zealand	9,394	20,373	45 77	49	18	11	4	1	5	4	26	31
licaragua	330	756	77	85	14	2	0	1	1	1	8	11
liger	282	370		30		4		2		55		8
ligeria	13,596	23,657	1	0	1	0	97	98	0	0	1	2
lorway	34,047	81,752	7	6	2	1	48	64	10	7	32	19
)man	5,508	13,342	1	4	0	0	92	83	1	1	5	12
akistan	5,615	13,379	9	10	10	2	1	3	0	0	79	85
Panama	340	944	75	84	1	1	0	1	1	4	21	10
Papua New Guinea	1,177	2,532	22	21	9	3	0	22	58	49	10	6
Paraguay	959	1,626	52	75	38	12	0	0	0	1	10	13
Peru	3,230	12,547	21	24	3	2	10	6	47	47	18	20
Philippines	8,117	39,689	19	6	2	1	2	1	8	2	38	55
Poland	14,320	74,854	11	8	2	1	10	5	8	4	54	81
Portugal Puerto Rico	16,417	35,767	7	. 8	6	2	3	3	. 3	2	80	85





Structure of merchandise exports

		nandise ports	Fo	ood	1 -	cural raw erials	Fu	els		and tals	Manufactures	
	\$ mi	illions 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% oi	f total 2004
D						•						
Romania	4,960	23,485	1	3	3	3	18	7	4	5 8	73	82 21
Russian Federation		183,452	••	1	••	3		50		•		
Rwanda	110	99		52		. 7		7		23		10
Saudi Arabia	44,417	126,230	1	1	0	0	90	86	1	0	8	12
Senegal	761	1,529	53	35	3	3	12	19	9	4	23	39
Serbia and Montenegro	2,929	3,979	19	23	3	4	6	3	10	12	62	57 -
Sierra Leone	138	139		92		1			······	0	<u></u> -	7
Singapore ^b	52,730	179,547	5	2	3	0	18	9	2	1	72	84
Slovak Republic	6,355	27,548	••	4		1		7		3		86
Slovenia	6,681	15,831	7	3	2	1	3	2	3	4	86	90
Somalia												
South Africa	23,549	46,029	8°	9	4 ^c	2	7 ^c	9	10 ^c	22	29 ^c	58
Spain	55,642	178,607	15	14	2	1	4	4	2	2	75	77
Sri Lanka	1,912	5,757	34	21	6	2	1	0	2	3	54	74
Sudan	374	3,778	60	10	38	6		81	0	0	2	2
Swaziland	556	1,900	••	15		8		1		0		76
Sweden	57,540	122,537	2	3	7	4	3	4	3	3	83	81
Switzerland	63,784	118,527	3	3	1	0	0	0	3	3	94	93
Syrian Arab Republic	4,212	4,930	14	15	4	4	45	68	1	1	36	11
Tajikistan		915										
Tanzania	331	1,338		53		13		2		12		20
Thailand	23,068	97,414	29	14	5	5	1	2	1	1	63	75
Togo	268	771	23	24	21	16	0	0	45	13	9	47
Trinidad and Tobago	1,960	6,349	5	4	0	0	67	60	1	0	27	35
Tunisia	3,526	9,685	11	11	1	1	17	10	2	1	69	78
Turkey	12,959	63,121	22	9	3	1	2	2	4	2	68	85
Turkmenistan		3,870										
Uganda	152	635	••	64		15		5	••	0		15
Ukraine		32,672		13		2		9	••	8		67
United Arab Emirates	23,544	82,750	2		0	-	7		78		12	
United Kingdom	185,172	346,863	7	6	1	1		9	3	3	79	76
United States	393,592	818,775	11	7	4	2	3	2	3	2	75 75	82
Uruguay	1,693	2,950	40	55	21	8	0	4	0	1	39	32
Uzbekistan	······································	4,280		•	······································	*	•	*	•	•	*	32
	17.407		·· •		0	0	80		7	···	10	10
Venezuela, RB Vietnam	17,497 2,404	34,210 25,625	2	1 23	U	2	ου	85 <i>2</i> 1	7	3	TO	12 53
•	2,404	25,625	••	•••••		•		•	•	1		23
West Bank and Gaza		4.450					74					
Yemen, Rep.	692	4,150	8	4	1	0	74	92	1	0	15	3
Zambia	1,309	1,576		16		10	1	2		62		10
Zimbabwe	1,726	1,520	44	31	7	16	1	2	16	23	31	28
World		t 9,145,027 t	10 w	7 w	3 w	2 w	9 w	8 w	3 w	3 w	73 w	77 w
Low income	71,042	212,988	15	15	4	3	27	28	······	3	49	50
Middle income	549,007	2,259,406	17	9	4	2	22	17	5	5	50	64
Lower middle income	274,053	1,229,532	17	10	4	2	16	13	5	4	55	68
Upper middle income	276,680	1,029,873	17	8	6	2	27	21	8	5	42	60
Low & middle income	621,233	2,472,407	17	9	4	2	20	17	6	5	51	64
East Asia & Pacific	155,928	966,841	15	6	6	2	13	6	3	2	60	80
Europe & Central Asia ^d		623,360		5		2		24		5		57
Latin America & Carib.	143,296	463,326	21	16	3	2	30	19	10	7	36	56
Middle East & N. Africa	81,103	170,601		6		1		70		2		20
South Asia	27,754	104,394	16	11	5	1	2	6	4	5	71	76
Sub-Saharan Africa	68,368	143,866		16	••	5		38		10		31
Sub-Saharan Africa High income	68,368 2,849,973	143,866 6,672,648	 8	16 6	3	5 2	 6	<i>38</i> 5		10 3	 77	31 81

Note: Components may not sum to 100 percent because of unclassified trade.

a. Includes Luxembourg. b. Includes re-exports. c. Refers to the South African Customs Union (Botswana, Lesotho, Namibia, South Africa, and Swaziland).

44

Structure of merchandise exports

About the data

Data on merchandise trade are from customs reports of goods movement into or out of an economy or from reports of the financial transactions related to merchandise trade recorded in the balance of payments. Because of differences in timing and definitions, estimates of trade flows from customs reports are likely to differ from those based on the balance of payments. Moreover, several international agencies process trade data, each correcting unreported or misreported data, and this leads to other differences in the available data

The most detailed source of data on international trade in goods is the Commodity Trade (Comtrade) database maintained by the United Nations Statistics Division. In addition, the International Monetary Fund (IMF) collects customs-based data on exports and imports of goods. The value of exports is recorded as the cost of the goods delivered to the frontier of the exporting country for shipment—the free on board (f.o.b.) value. Many countries report trade data in U.S. dollars. When countries report in local currency, the United Nations Statistics Division applies the average offcial exchange rate for the period shown.

Countries may report trade according to the general or special system of trade (see *Primary data documentation*). Under the general system exports comprise outward-moving goods that are (a) goods wholly or partly produced in the country; (b) foreign goods, neither transformed nor declared for domestic consumption in the country, that move outward from customs storage; and (c) goods previously included as imports for domestic consumption but subsequently exported without transformation. Under the special system exports comprise categories a and c. In some compilations categories b and c are classified as re-exports. Because of differences

in reporting practices, data on exports may not be fully comparable across economies.

The data on total exports of goods (merchandise) in this table come from the World Trade Organization (WTO). The WTO uses two main sources, national statistical offices and the IMF's International Financial Statistics. It supplements these with the Comtrade database and publications or databases of regional organizations, specialized agencies, economic groups, and private sources (such as Eurostat, the Food and Agriculture Organization, and country reports of the Economist Intelligence Unit). In recent years country Web sites and direct contacts through email have helped to improve the collection of up-to-date statistics for many countries, reducing the proportion of estimated figures. The WTO database now covers most of the major traders in Africa, Asia, and Latin America, which together with the high-income countries account for nearly 95 percent of total world trade. There has also been a remarkable improvement in the availability of reliable figures for countries in Europe and Central Asia.

The shares of exports by major commodity group are from Comtrade. The values of total exports reported here have not been fully reconciled with the estimates of exports of goods and services from the national accounts or those from the balance of payments.

The classification of commodity groups is based on the Standard International Trade Classification (SITC) revision 1. Most countries now report using later revisions of the SITC or the Harmonized System. Concordance tables are used to convert data reported in one system of nomenclature to another. The conversion process may introduce some errors of classification, but conversions from later to earlier systems are generally reliable.

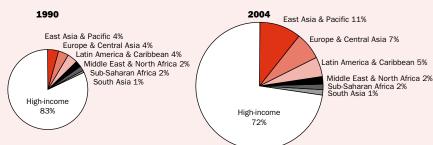
Definitions

- Merchandise exports are the f.o.b. value of goods provided to the rest of the world, valued in U.S. dollars. Food corresponds to the commodities in SITC sections 0 (food and live animals), 1 (beverages and tobacco), and 4 (animal and vegetable oils and fats) and SITC division 22 (oil seeds, oil nuts, and oil kernels). Agricultural raw materials correspond to SITC section 2 (crude materials except fuels) excluding divisions 22, 27 (crude fertilizers and minerals excluding coal, petroleum, and precious stones), and 28 (metalliferous ores and scrap).
- Fuels correspond to SITC section 3 (mineral fuels).
- Ores and metals correspond to the commodities in SITC divisions 27, 28, and 68 (nonferrous metals). Manufactures correspond to the commodities in SITC sections 5 (chemicals), 6 (basic manufactures), 7 (machinery and transport equipment), and 8 (miscellaneous manufactured goods), excluding division 68.

4.4a

Developing economies' share of world merchandise exports continues to increase





Developing economies' share of world merchandise exports increased by 11 percentage points from 1990 to 2004. East Asia and Pacific was the biggest gainer, capturing an additional 7 percentage points.

Source: World Trade Organization data files.

Data sources

The WTO publishes data on world trade in its Annual Report. The IMF publishes estimates of total exports of goods in its International Financial Statistics and Direction of Trade Statistics, as does the United Nations Statistics Division in its Monthly Bulletin of Statistics. And the United Nations Conference on Trade and Development publishes data on the structure of exports and imports in its Handbook of International Trade and Development Statistics. Tariff line records of exports and imports are compiled in the United Nations Statistics Division's Comtrade database.





4.5 Structure of merchandise imports

	Merchandise imports		Fo	Food		Agricultural raw materials		Fuels		and tals	Manufa	actures
	\$ mil 1990	lions 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004	% of 1990	total 2004
Afghanistan	936	2,300										
Albania	380	2,268		19		1		8	<u></u>	2		70
Algeria	9,780	18,199	24	22	5	2	1	1	2	1	68	74
Angola	1,578	6,500										
Argentina	4,076	22,320	4	2	4	1	8	3	6	2	78	91
Armenia		1,318		22		1		17		1		59
Australia	41,985	109,376	5	5	2	1	6	9	1	1	84	82
Austria	49,146	117,765	5	6	3	2	6	10	4	4	81	78
Azerbaijan		3,516		12	<u></u>	1		11		2		74
Bangladesh	3,618	12,026	19	19	5	9	16	8	3	2	56	62
Belgium	140 7008	16,346	 408	10	 na	2	 oa	28	 ea	4		55 77
Belgium	119,702 ^a	285,450 865	10 ^a	8 24	2 ^a 4	1 5	8 ^a	9 17	6 ^a	4	68 ^a	77 53
Benin Bolivia	265 687	865 1,842	<i>38</i> 12	12	2	2	<u>1</u>	17 7	1	<u>1</u> 1	<i>56</i> 85	53 79
Bosnia and Herzegovina	687 360	1,842 5,907										
Botswana Botswana	1,946	3,340		<u></u>			<u></u>					······································
Brazil	22,524	65.921	9	5	3	2	27	19	5	4		70
Bulgaria	5,100	14,424	8	5	3	1	36	4	4	6	49	69
Burkina Faso	536	1,155		12		1		24		1		62
Burundi	231	176		9		1		16		1		72
Cambodia	164	3,170		8		2		10		0		79
Cameroon	1,400	2,100	19	18	0	2	2	18	1	1	78	61
Canada	123,244	279,779	6	6	2	1	6	7	3	3	81	81
Central African Republic	154	150	19	23	1	5	7	11	2	4	71	56
Chad	285	770										
Chile	7,742	24,871	4	7	2	1	16	21	1	2	75	68
China [†]	53,345	561,230	9	4	6	4	2	8	3	7	80	77
Hong Kong, China	84,725	272,893	8	3	2	1	2	2	2	2	85	92
Colombia	5,590	16,746	7	11	4	2	6	2	3	2	77	82
Congo, Dem. Rep.	1,739	1,873										
Congo, Rep.	621	1,720										
Costa Rica	1,990	8,268	8	9	2	1	10	9	2	2	66	79
Côte d'Ivoire	2,097	3,783		22		1		17		1		48
Croatia Cuba	<i>4,500</i> 4,600	16,583 5,286	12 12	8	4 3	1	10 32	12	4 1	2	70 46	76
Czech Republic		69,510		5				7		4		
Denmark	<i>12,880</i> 33,333	68,191	12	12	3	2	7	5	2	2	73	83 77
Dominican Republic	3,006	7,845										
Ecuador	1,861	7,861	9	9	3	1	2	7	2	1	84	 81
Egypt, Arab Rep.	12,412	12,831	32	22	7	5	3	8	2	4	56	50
El Salvador	1,263	6,269	14	18	3	2	15	14	4	1	63	65
Eritrea	351	650										
Estonia		8,728		9		4		7		2		79
Ethiopia	1,081	3,080		21		1		12		2		64
Finland	27,001	50,824	5	6	2	3	12	12	4	7	76	70
France	234,436	465,454	10	8	3	2	10	11	4	3	74	77
Gabon	918	1,280		24		1		3		1		70
Gambia, The	188	200		38		2		11		1		49
Georgia		1,847		21		0		17	<u></u>	1		59
Germany	355,686	716,926	10	7	3	1	8	9	4	3	72	69
Ghana	1,205	4,320	11	21	1	1	17	2	0	2	70	74
Greece	19,777	52,577	15	11	3	1	8	13	3	3	70	72
Guatemala	1,649	7,808	10	12	2	1	17	14	2	1	69	71 52
Guinea Guinea-Bissau	723 86	690 86	••	23		1		22		1		53
Haiti	332	1,306				••		••				
†Data for Taiwan, China	54,782		7	4	 5	2	11	13	6	6	69	76
Data ioi Taiwali, Cillia	54,102	168,444	ı	4	0	_	11	12	O	O	09	10

Structure of merchandise imports 4.5

		andise orts	Fo	ood	-	cural raw erials	Fu	els	Ores met		Manuf	actures
	\$ mi	llions	% of	total	% of	total	% of	total	% of	total	% o1	f total
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Honduras	935	3,916	10	16	1	1	16	16	1	1	71	66
Hungary	10,340	59,332	8	4	4	1	14	7	4	3	70	84
ndia	23,580	97,339	3	4	4	3	27	35	8	5	51	53
ndonesia	21,837	54,895	5	10	5	5	9	20	4	4	77	61
ran, Islamic Rep.	20,322	34,705		11		2		6		2		79
raq	7,660	21,302										
reland	20,669	60,651	11	8	2	1	6	5	2	1	76	78
srael	16,793	42,864	8	6	2	1	9	11	3	2	77	80
taly	181,968	351,034	12	9	6	3	11	10	5	4	64	70
lamaica	1,928	3,772	15	15	1	1	20	18	1	1	61	63
lapan	235,368	454,543	15	12	7	2	24	22	9	6	44	57
lordan	2,600	8,189	26	17	1	1	18	19	1	2	52	58
Kazakhstan		12,781		7		1		13		2		77
Kenya	2,223	4,553	9	10	3	2	20	24	2	2	66	61
Korea, Dem. Rep.	2,930	2,540		••						••		
Korea, Rep.	69,844	224,463	6	5	8	2	16	22	7	7	63	63
Kuwait	3,972	12,005	17		1		1		2		79	
Kyrgyz Republic	••	941		13		2		27		3		54
_ao PDR	185	506										
_atvia		7,005		11		3		12		2		70
_ebanon	2,529	9,397		18		2		16		2		62
_esotho	672	1,400				••						
_iberia	570	900										
_ibya	5,336	5,650	24	17	2	1	0	1	1	1	73	81
_ithuania		12,283	12	8	5	2	44	19	2	2	35	68
Macedonia, FYR	1,206	2,875		14		1		13		2		58
Madagascar	651	1,230	11	14	1	0	17	23	1	0	69	62
Malawi	575	792	9	13	1	1	11	3	1	1	78	82
Malaysia	29,258	105,287	7	6	1	1	5	6	4	4	82	81
Mali	602	1,320	26		1		19		1		53	
Mauritania	388	400										
Mauritius	1,618	2,778	12	18	3	2	8	13	1	1	76	66
Mexico	43,548	206,423	15	6	4	1	4	4	3	3	64	85
Moldova		1,774		12		6		21		1	•	61
Mongolia	924	990		14	·· · ······	1		20		1		65
Morocco	6,922	17,625	10	11	6	3	17	17	6	3	61	67
Mozambique	878	1,970		11		1		12		0		43
Myanmar	270	2,220	13		1		5		0		 81	
Namibia	1,163	2,435		15		1		10		4		69
Nepal	672	1,870	15	17	7	5	9	16	2	4	67	59
Netherlands	126,098	319,330	13	10	2	2	10	12	3	3	71	73
New Zealand	9,501	23,201	7	8	1	1	8	6	3	2	81	82
Nicaragua	638	2,212	19	17	1	. 0	19	19	1	0	59	64
Niger	388	560		34		4		19		1	•	44
vigeria	5,627	11,096	 6	15	1	1	0	16	2	2	 67	66
Vorway	27,231	48,082	6	7	2	2	4	4	6	6	82	80
Oman	2,681	8,865	19	14	1	0	4	2	1	4	69	76
Pakistan	7,411	17,949	17	11	4	6	21	22	4	3	54	58
anama	1,539	3,530	12	14	1	1	16	12	1	1	70	72
Papua New Guinea	1,193	1,680	18	14 16	0	1	7	13	1	0	70	72 69
	1,193	2,652	8	9	0	1	14			1	77	74
Paraguay Peru	1,352 2,634		24	13	2	2		16 19	1	1		74 66
	·····	10,101	*	13	2	*	12	*	3	2	61	79
Philippines	13,042	42,345	10	•••••		1	15	11			53	
Poland	11,570	89,174	12	6	4	2	13	9	5	3	58	80
Portugal Puerto Rico	25,263	54,914	12	12	4	2	11	11	2	2	71	72





4.5 Structure of merchandise imports

		handise ports	Fo	od	_	ural raw erials	Fu	els	Ores met		Manuf	actures
	\$ n	nillions	% of	total	% of	total	% of	total	% of	total	% of	total
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Romania	7,600	32,664	12	6	4	1	38	12	6	3	39	78
Russian Federation		96,307		17		1		3		3		69
Rwanda	288	285		12		4		16		2		67
Saudi Arabia	24,069	44,576	15	16	1	1	0	0	3	3	81	79
Senegal	1,219	2,710	29	28	2	2	16	18	2	2	51	49
Serbia and Montenegro	4,634	11,752	9	11	3	2	23	17	3	3	62	67
Sierra Leone	149	286		23		8		40		1		29
Singapore	60,774	163,854	6	3	2	0	16	15	2	1	73	80
Slovak Republic	6,670	29,471		5		1		13		3		78
Slovenia	6,142	17,197	9	6	4	3	11	8	4	5	67	78
Somalia												
South Africa	18,399	57,100	8 ^b	5	2 ^b	1	1 ^b	14	1 ^b	2	75 ^b	69
Spain	87,715	249,308	11	10	3	1	12	11	4	3	71	74
Sri Lanka	2,688	7,973	19	12	2	1	13	15	1	3	65	69
Sudan	618	4,075	13	16	1	1	20	3	0	1	66	78
Swaziland	663	2,000		18		2		13		1		64
Sweden	54,264	99,324	6	8	2	2	9	10	3	3	79	75
Switzerland	69,681	111,603	6	6	2	1	5	5	3	4	84	84
Syrian Arab Republic	2,400	6,287	31	17	2	4	3	7	1	3	62	64
Tajikistan	2,.00	1,375				•	•	•	•			
Tanzania	1,027	2,490	•	 15	••	2	••	16	••	1	•	 66
Thailand	33,045	95,353	5	5	. 5	3	9	12	4	3	 75	76
Togo	581	1,050	22	18	1	1	8	23	1	2	67	56
Trinidad and Tobago	1,109	4,894	19	9	1	1	11	27	6	3	62	59
Tunisia	5,513	12,738	11	9	4	3	9	10	4	3	72	76
			8	3	4	3	•	15	5	6	61	70 72
Turkey	22,302	97,540	•	•		•	21					
Turkmenistan		3,320					••		.			
Uganda :	288	1,491		17		2		10		2		70
Ukraine		28,996	······	6		1	••	39	···········	3	···	48
United Arab Emirates	11,199	47,640	17		0		6		4		72	
United Kingdom	222,977	463,467	10	9	3	1	6	6	4	2	75	77
United States	516,987	1,525,516	6	4	2	1	13	14	3	2	73	75
Uruguay	1,343	3,114	7	9	4	4	18	24	2	2	69	62
Uzbekistan		3,392										
Venezuela, RB	7,335	14,995	11	15	4	2	3	1	4	2	77	80
Vietnam	2,752	31,091		6		3		11		3		77
West Bank and Gaza												
Yemen, Rep.	1,571	4,190	27	28	1	1	40	13	1	1	31	56
Zambia	1,220	2,143		7		1		11		3		79
Zimbabwe	1,847	2,550	4	19	3	2	16	14	2	10	73	54
World		9,376,651 t	9 w	7 w	3 w	2 w	11 w	11 w	4 w	3 w	71 w	74 v
Low income	81,953	252,827		11		3		22		3		61
Middle income	509,902	2,161,147	10	7	4	2	9	9	3	4	70	77
Lower middle income	277,830	1,187,304	10	7	5	3	9	12	3	5	71	73
Upper middle income	228,653	973,843	11	7	3	2	8	7	4	3	70	79
Low & middle income	593,527	2,413,971	10	7	4	2	10	11	4	4	69	75
East Asia & Pacific	160,502	903,670	8	 5	5	3	5	9	3	6	77	77
Europe & Central Asia ^c	164,871	631,428		7		2	•	10	•	4		75
Latin America & Carib.	120,374	436,972	12	7	3	2	10	. 8	3	3	 66	80
Middle East & N. Africa	79,941	160,252		17		3	70	8		2		68
	·····•	···•	Ω	•	1	•					54	. *
South Asia	39,124	140,502	8	8	4	4	24	28	6	4	54	56
Sub-Saharan Africa	57,641	141,150		12		1		14		2		67
High income	2,943,378	6,962,657	9	7	3	2	11	12	4	3	71	74
Europe EMU	1,255,515	2,744,049	11	. 8	3	2	9	10	4	3	71	73

Note: Components may not sum to 100 percent because of unclassified trade.

a. Includes Luxembourg. b. Refers to the South African Customs Union (Botswana, Lesotho, Namibia, South Africa, and Swaziland).

Structure of merchandise imports

About the data

Data on imports of goods are derived from the same sources as data on exports. In principle, world exports and imports should be identical. Similarly, exports from an economy should equal the sum of imports by the rest of the world from that economy. But differences in timing and definitions result in discrepancies in reported values at all levels. For further discussion of indicators of merchandise trade, see About the data for tables 4.4 and 6.2.

The value of imports is generally recorded as the cost of the goods when purchased by the importer plus the cost of transport and insurance to the frontier of the importing country—the cost, insurance, and freight (c.i.f.) value, corresponding to the landed cost at the point of entry of foreign goods into the country. A few countries, including Australia, Canada, and the United States, collect import data on a free on board (f.o.b.) basis and adjust them for freight and insurance costs. Many countries collect and report trade data in U.S. dollars. When countries report in local currency, the United Nations Statistics Division applies the average official exchange rate for the period shown.

Countries may report trade according to the general or special system of trade (see *Primary data documentation*). Under the general system imports include goods imported for domestic consumption and imports into bonded warehouses and free trade zones. Under the special system imports comprise goods imported for domestic consumption (including transformation and repair) and withdrawals for domestic consumption from bonded warehouses and free trade zones. Goods transported through a country en route to another are excluded.

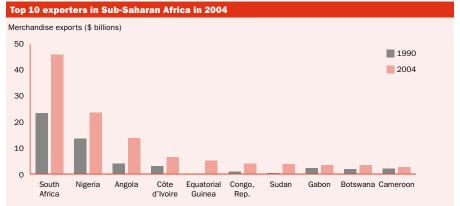
The data on total imports of goods (merchandise) in this table come from the World Trade Organization (WTO). For further discussion of the WTO's sources and methodology, see *About the data* for table 4.4. The shares of imports by major commodity group are from the United Nations Statistics Division's Commodity Trade (Comtrade) database. The values of total imports reported here have not been fully reconciled with the estimates of imports of goods and services from the national accounts (shown in table 4.8) or those from the balance of payments (table 4.15).

The classification of commodity groups is based on the Standard International Trade Classification (SITC) revision 1. Most countries now report using later revisions of the SITC or the Harmonized System. Concordance tables are used to convert data reported in one system of nomenclature to another. The conversion process may introduce some errors of classification, but conversions from later to earlier systems are generally reliable. Shares may not sum to 100 percent because of unclassified trade.

Definitions

- Merchandise imports are the c.i.f. value of goods purchased from the rest of the world valued in U.S. dollars. Food corresponds to the commodities in SITC sections 0 (food and live animals), 1 (beverages and tobacco), and 4 (animal and vegetable oils and fats) and SITC division 22 (oil seeds, oil nuts, and oil kernels). Agricultural raw materials correspond to SITC section 2 (crude materials except fuels) excluding divisions 22, 27 (crude fertilizers and minerals excluding coal, petroleum, and precious stones), and 28 (metalliferous ores and scrap).
- Fuels correspond to SITC section 3 (mineral fuels).
- Ores and metals correspond to the commodities in SITC divisions 27, 28, and 68 (nonferrous metals). Manufactures correspond to the commodities in SITC sections 5 (chemicals), 6 (basic manufactures), 7 (machinery and transport equipment), and 8 (miscellaneous manufactured goods), excluding division 68.

4.5a



Sub-Saharan economies accounted for about 6 percent of developing economy exports and 1.6 percent of world exports.

Note: No data are available for Equatorial Guinea for 1990.

Source: World Trade Organization data files.

Data sources

The WTO publishes data on world trade in its Annual Report. The International Monetary Fund publishes estimates of total imports of goods in its International Financial Statistics and Direction of Trade Statistics, as does the United Nations Statistics Division in its Monthly Bulletin of Statistics. And the United Nations Conference on Trade and Development publishes data on the structure of exports and imports in its Handbook of International Trade and Development Statistics. Tariff line records of exports and imports are compiled in the United Nations Statistics Division's Comtrade database.





4.6 Structure of service exports

	Comm service (Transı	Transport		il	Insurance and financial services		Computer, information, communications, and other commercial services	
	\$ mill 1990	ions 2004	% of commerci 1990	ial services 2004	% of commercia	al services 2004	% of commercia	ıl services 2004	% of commercia	al services 2004
Afghanistan	1									
Albania	32	695	20.0	9.9	11.1	75.2	2.2	3.4	66.7	11.5
Algeria	479		41.7	••	13.4		5.9		39.0	
Angola	65	323	48.8	5.5	20.6	20.4	4.6	••	26.1	74.1
Argentina	2,264	5,065	51.1	22.2	39.9	50.6	0.0	0.0	9.0	27.1
Armenia	17	238		30.9		35.9		5.0		28.3
Australia	9,833	24,774	35.5	23.6	43.2	51.3	4.2	5.0	17.2	20.1
Austria	22,755	48,297	6.4	19.4	59.0	31.7	2.9	6.1	31.7	42.9
Azerbaijan		453		45.4		14.4		1.7		38.6
Bangladesh	296	420	13.0	18.4	6.4	15.9	0.1	4.5	80.6	61.1
Belarus	185	1,729	54.1	58.9	13.3	16.6	1.0	0.2	31.6	24.3
Belgium	26,646 ^a	50,459	27.5 ^a	25.5	14.0ª	18.2	18.2ª	7.6	40.3 ^a	48.7
Benin	109	163	33.4	8.8	50.2	65.4	6.9	0.5	9.5	25.3
Bolivia	133	384	35.8	30.0	43.6	46.0	10.0	12.4	10.6	11.6
Bosnia and Herzegovina		825		3.7		59.2		1.7		35.4
Botswana	183 3,706	647	20.4 36.4	10.7 21.2	64.1 37.3	70.6 27.7	8.2 3.1	<i>5.5</i> 4.5	7.3 23.2	<i>13.2</i> 46.5
Brazil	837	11,615 4,083	27.5	29.1	38.2	52.4	3.1	1.6	31.2	16.9
Bulgaria Burkina Faso	34	4,083	27.5 37.1	29.1 14.6	34.1	61.6	***************************************	0.4	28.9	23.4
Burundi	7	2	38.7	31.6	51.4	32.2	1.6	0.4	8.3	35.6
Cambodia	50	759		13.7	51.4	79.5			6.3	6.9
Cameroon	369		42.6		14.4		9.4		33.6	0.5
Canada	18,350	46,370	23.0	18.3	34.7	27.6	0.1	9.7	42.3	44.4
Central African Republic	17		50.9		16.0		18.8		14.3	
Chad	23		18.4		34.1		0.2		47.3	
Chile	1,786	5,872	40.0	56.2	29.8	18.6	4.9	3.1	25.3	22.1
China	5,748	62,056	47.1	19.5	30.2	41.5	4.0	0.8	18.7	38.3
Hong Kong, China		54,175		29.8		15.4		8.9		46.0
Colombia	1,548	2,179	31.3	31.2	26.2	47.3	17.1	1.4	25.5	20.0
Congo, Dem. Rep.										
Congo, Rep.	65	79	53.9	3.6	12.9	25.1		0.7	33.2	70.6
Costa Rica	583	2,206	16.3	11.1	48.9	66.1		0.4	34.8	22.3
Côte d'Ivoire	425	631	62.4	22.2	12.1	12.0	8.3		17.2	65.8
Croatia	2,216	9,619	29.2	10.2	59.1	72.5	1.4	0.6	10.3	16.7
Cuba										
Czech Republic	4,679	9,656	26.5	29.2	33.3	43.3	9.6	4.4	30.6	23.1
Denmark	12,731	36,304	32.5	47.1	26.2	15.6	2.3		39.0	37.4
Dominican Republic	1,086	3,463	5.6	2.9	66.9	91.8	0.2	0.1	27.3	5.2
Ecuador	508	847	47.6	40.2	37.0	43.4	9.3	0.3	6.1	16.1
Egypt, Arab Rep.	4,812	14,046	50.1	28.6	22.9	43.6	1.0	0.8	26.1	27.0
El Salvador	301	921	26.2	37.2	25.3	36.6	7.5	4.6	41.1	21.6
Eritrea	73	0.706	85.7 74.7		1.0	 24 F			13.3	
Estonia Ethionia	<i>200</i> 261	2,786 799	<i>74.7</i> 80.7	43.2 46.3	13.7 2.1	31.5 21.7	0.1 0.7	1.4 0.5	11.5 16.6	24.0
Ethiopia	4,562	799 9,792	80.7 38.4	46.3 24.5	25.8	21.7	0.7	1.8	16.6 35.6	31.6 52.6
Finland France	4,562 74,948	109,518	21.7	23.4	25.8	37.2	14.8	2.7	36.4	36.8
Gabon	74,946 214	109,518	33.4	50.7	1.4	8.7	5.8	30.8	59.4	9.8
Gambia, The	53	101	8.8		87.9	0.7	0.1	00.0	3.3	0.0
Georgia		492		50.8		35.9		5.6		7.8
Germany	50,561	133,856	29.2	24.8	28.3	20.6	1.0	6.8	41.5	47.8
Ghana	79	684	49.2	20.0	5.6	68.2	2.7	1.1	42.6	10.7
Greece	6,514	32,986	4.9	50.1	39.7	38.6	0.1	1.1	55.2	10.3
Guatemala	313	1,063	7.4	8.2	37.6	73.0	2.0	6.4	53.1	12.4
Guinea	91	31	14.2	21.8	32.6	0.1	0.1	0.4	53.2	77.8
Guinea-Bissau	4	5	5.4	15.5		37.0		15.0	94.6	32.5
Haiti	43	116	19.8	••	78.9	80.2	1.3			19.8
	•		•		•		•			

Structure of service exports

	h
	U

	Commo service o		Transp	oort	Trave	el	Insuran financial		communic	nformation, ations, and mmercial lices
	\$ mill 1990	ions 2004	% of commerci	al services	% of commerci	al services 2004	% of commer 1990	cial services 2004	% of comme 1990	rcial services 2004
Honduras	121	593	35.1	12.1	24.0	66.8	12.9	3.1	28.0	18.0
Hungary	2,677	10,255	1.6	13.0	36.8	39.3	0.2	2.8	61.4	44.9
India	4,610	39,638 ^b	20.8	13.3	33.8	16.8	2.7	3.5	42.7	66.4
Indonesia	2,488	17,331	2.8	13.2	86.5	27.7	0.0	1.8	10.7	57.4
Iran, Islamic Rep.	343		10.5	••	8.2		6.4		74.9	
Iraq				••						
Ireland	3,286	52,158	31.1	4.5	44.4	8.2	0.0	29.1	24.5	58.2
Israel	4,546	14,830	30.8	21.5	30.7	16.1	-0.3	0.1	38.8	62.3
Italy	48,579	82,484	21.0	16.9	33.9	42.9	5.5	3.2	39.6	37.0
Jamaica	975	2,262	18.0	22.0	77.0	63.6	1.4	1.6	3.6	12.8
Japan 	41,384	94,933	40.4	33.9	7.9	11.9	-0.4	5.8	52.1	48.5
Jordan	1,430	2,036	26.0	20.9	35.8	65.3			38.3	13.8
Kazakhstan		1,807		46.3		39.1	0.7	1.2	71	13.4
Kenya Karaa Dom Pan	774	1,150	32.1	48.9	60.2	43.0	0.7	1.2	7.1	6.8
Korea, Dem. Rep. Korea, Rep.	9,155	40,047	34.7	 56.0	34.5	14.3	0.1	2.9	30.7	26.8
Kuwait	1,054	2,067	87.5	84.7	12.5	8.7	•	3.8	30.7	20.8
Kyrgyz Republic	9	193	25.1	26.4	3.8	39.3		1.1	 71.1	33.3
Lao PDR	11	127	74.8	18.0	24.3	82.0	0.9			33.3
Latvia	290	1,752	94.9	56.6	2.5	15.2		7.2	2.6	21.0
Lebanon		-,	••		••					
Lesotho	34	56	14.1	1.1	51.2	60.4		4.7	34.7	33.8
Liberia	32		84.6		15.4					••
Libya	83	351	83.8	18.0	7.7	62.1		17.1	8.5	2.9
Lithuania	198	2,431	83.6	55.7	10.9	31.9		0.5	5.5	11.9
Macedonia, FYR		384		29.3		18.7		2.0		50.0
Madagascar	129	202	32.1	28.5	31.3	37.5	0.3	1.7	36.4	32.3
Malawi	37	49	46.1	32.7	42.6	67.3	0.1		11.2	0.0
Malaysia	3,769	13,459	31.8	20.6	44.7	43.8	0.1	2.5	23.5	33.1
Mali	71	208	31.0	20.5	54.3	61.6	4.9	1.5	9.8	16.4
Mauritania	14		35.3		64.7					
Mauritius	478	1,449	33.0	25.7	51.1	59.1	0.1	1.7	15.8	13.5
Mexico	7,222	13,931	12.4	9.8	76.5	77.2	4.6	6.2	6.5	6.8
Moldova		325		43.9		29.2		1.2		25.7
Morgola	48 1,871	329 6,304	41.8 9.6	32.7 16.3	10.4 68.4	56.2 62.2	4.6 0.8	1.2	43.2 21.2	9.9 20.0
Morocco Mozambique	1,871	246	9.6	32.5	00.4	38.7	•••••	1.5 0.8	38.7	28.1
Myanmar	94	232	10.3	36.8	20.9	36.2	0.5		68.3	27.0
Namibia	106	463		7.1	81.0	87.5	5.9		13.1	5.5
Nepal	166	356	3.6	9.1	65.6	64.7		0.1	30.8	26.1
Netherlands	28,478	71,784	45.4	27.0	14.6	14.4	0.8	1.7	39.2	56.9
New Zealand	2,415	7,753	43.4	19.1	42.7	65.4	-0.3	0.7	14.2	14.8
Nicaragua	34	254	19.2	14.4	35.5	73.9	0.0	1.0	45.4	10.7
Niger	22	57	5.2	8.9	59.5	48.5	13.5	1.3	21.8	41.3
Nigeria	965	3,336	3.9	20.2	2.5	0.6	0.3	0.2	93.3	79.0
Norway	12,452	25,893	68.7	57.5	12.6	11.3	0.4	4.0	18.3	27.2
Oman	68	830	15.3	34.7	84.7	62.4		0.4		2.5
Pakistan	1,218	1,697	59.3	54.2	12.0	10.5	1.4	3.5	27.3	31.9
Panama	907	2,690	64.9	57.0	18.9	24.2	3.8	9.7	12.4	9.1
Papua New Guinea	198	285	11.2	7.5	12.0	1.8	0.5	1.8	76.3	88.9
Paraguay -	404	556	18.3	15.6	21.1	12.1		5.9	60.5	66.4
Peru	714	1,795	43.4	21.2	30.4	60.1	11.2	4.6	15.0	14.2
Philippines	2,897	4,101	8.5	27.3	16.1	49.1	0.5	1.4	74.9	22.2
Poland	3,200	13,437	57.3	31.3	11.2	43.4	4.0	1.7	27.6	23.6
Portugal Puerto Rico	5,054	14,596	15.6	19.6	70.4	53.5	0.7	2.4	13.3	24.5





4.6 Structure of service exports

		mercial e exports	Tran	sport	Tra	avel		nce and services	communic	information, ations, and mmercial ices
	\$ m 1990	illions 2004	% of comme 1990	rcial services	% of comme 1990	rcial services 2004	% of commerce 1990	rcial services 2004	% of comme	rcial services 2004
Romania	610	3,590	50.5	43.4	17.4	14.0	5.6	2.8	26.6	39.8
Russian Federation		20,164		38.6		25.9		2.5	20.0	32.9
Rwanda	31	72	56.1	29.8	32.8	60.4	1.0		10.0	9.9
Saudi Arabia	3,027	5,852								
Senegal	356	488	19.2	15.7	42.8	42.7	0.5	2.0	37.6	39.7
Serbia and Montenegro										
Sierra Leone	45	61	9.7	2.3	76.2	94.8	••	0.8	14.1	2.1
Singapore	12,719	41,077	17.5	35.6	36.6	12.4	0.7	9.5	45.3	42.5
Slovak Republic	1,939	3,270	23.7	43.2	19.8	26.4	•••	2.3	56.5	28.1
Slovenia	1,219	3,449	22.6	29.1	55.0	47.1	1.2	0.8	21.2	22.9
Somalia										
South Africa	3,291	8,066	21.6	17.1	55.8	70.3	10.8	4.5	11.9	8.1
Spain	27,649	84,105	17.2	16.6	67.2	53.6	4.3	3.1	11.3	26.7
Sri Lanka	425	1,506	39.7	41.4	30.2	34.1	4.2	3.3	25.9	21.2
Sudan	134	35	14.1	27.4	15.7	60.7	0.5	2.5	69.7	9.5
Swaziland	102	485	24.5	5.5	29.2	19.6		60.3	46.3	14.7
Sweden	13,453	38,320	35.8	20.8	21.7	16.1	9.1	5.2	33.5	57.9
Switzerland	18,325	41,544	16.3	10.1	40.4	25.0	23.7	33.1	19.6	31.8
Syrian Arab Republic	740	2,222	29.8	9.5	43.3	81.0		1.2	27.0	8.3
Tajikistan		81		64.8		1.5		5.4		28.4
Tanzania	131	845	19.9	9.1	36.4	70.4	0.5	6.9	43.1	13.7
Thailand	6,292	18,932	21.1	23.0	68.7	53.1	0.2	0.7	10.0	23.3
Togo	114	72	26.9	29.8	50.8	20.5	13.7	1.2	8.6	48.6
Trinidad and Tobago	322	672	50.7	36.7	29.4	37.0		16.1	19.9	10.2
Tunisia	1,575	3,520	23.0	26.0	64.8	56.0	1.5	2.4	10.7	15.6
Turkey	7,882	23,806	11.7	13.7	40.9	66.7		2.4	47.4	17.2
Turkmenistan										
Uganda		436		11.1		61.1		10.8		17.0
Ukraine		6,041		66.9		18.9		0.7		13.5
United Arab Emirates										
United Kingdom	53,830	179,649	25.2	16.7	29.0	15.7	16.4	22.5	29.4	45.1
United States	132,880	321,837	28.1	17.3	37.9	29.2	3.5	8.7	30.5	44.8
Uruguay	460	959	36.9	34.9	51.8	51.5	1.0	6.8	10.3	6.9
Uzbekistan										
Venezuela, RB	1,121	1,008	40.9	35.1	44.3	47.3	0.2	0.2	14.7	17.4
Vietnam		2,948								
West Bank and Gaza										
Yemen, Rep.	82	292	27.2	15.8	48.8	47.6			24.0	36.7
Zambia	94		68.9		13.6		4.1		13.4	
Zimbabwe	253		44.3		25.3	••	1.2		29.2	
World	815,710 t	2,190,577 t	28.5 w	24.3 w	34.6 w	28.5 w	4.7 w	6.7 w	38.5 w	41.7 w
Low income	13,854	67,030	24.7	19.5	23.1	19.7	2.0	3.0	50.4	58.1
Middle income	96,848	358,642	29.6	23.3	45.0	46.8	3.1	2.7	22.3	27.3
Lower middle income	46,348	197,288	32.3	22.8	39.3	40.8	3.3	1.6	25.2	34.9
Upper middle income	51,220	161,008	26.4	23.8	52.1	53.6	2.7	3.9	18.8	18.7
Low & middle income	110,619	423,636	29.2	23.5	43.0	45.6	3.0	2.6	24.9	28.4
East Asia & Pacific	22,615	129,117	32.3	19.9	43.5	42.2	2.0	1.0	22.2	37.0
Europe & Central Asia		121,538		34.1		35.5		2.4		28.1
Latin America & Carib.	26,062	61,844	25.8	19.4	56.2	58.4	4.1	4.3	13.9	17.9
Middle East & N. Africa			31.1		29.3		3.4		36.4	
South Asia	6,847	44,325	26.8	22.1	28.2	17.4	2.3	3.7	42.7	56.8
Sub-Saharan Africa	9,561	24,238	25.7	18.1	31.6	40.2	5.4	2.9	37.9	39.2
High income	701,271	1,767,896	28.3	24.5	32.1	24.0	5.2	7.8	42.2	45.2
Europe EMU	311,131	723,009	27.1	22.5	30.3	27.7	5.9	5.6	36.7	45.1
,	-		•							• · · · · · · · · · · · · · · · · · · ·

a. Includes Luxembourg. b. World Trade Organization estimate.

About the data

Balance of payments statistics, the main source of information on international trade in services, have many weaknesses. Some large economies—such as the former Soviet Union—did not report data on trade in services until recently. Disaggregation of important components may be limited, and it varies significantly across countries. There are inconsistencies in the methods used to report items. And the recording of major flows as net items is common (for example, insurance transactions are often recorded as premiums less claims). These factors contribute to a downward bias in the value of the service trade reported in the balance of payments.

Efforts are being made to improve the coverage, quality, and consistency of these data. Eurostat and the Organisation for Economic Co-operation and Development, for example, are working together to improve the collection of statistics on trade in services in member countries. In addition, the International Monetary Fund (IMF) has implemented the new classification of trade in services introduced in the fifth edition of its Balance of Payments Manual (1993).

Still, difficulties in capturing all the dimensions of international trade in services mean that the record is likely to remain incomplete. Cross-border intrafirm service transactions, which are usually not captured in the balance of payments, have increased in recent years. One example of such transactions is transnational corporations' use of mainframe computers around the clock for data processing, exploiting time zone differences between their home country and the host countries of their affiliates. Another important dimension of service trade not captured

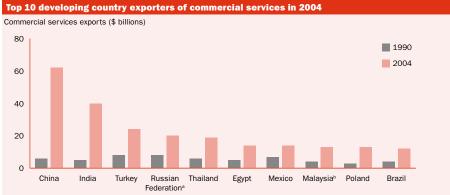
by conventional balance of payments statistics is establishment trade—sales in the host country by foreign affiliates. By contrast, cross-border intrafirm transactions in merchandise may be reported as exports or imports in the balance of payments.

The data on exports of services in this table and on imports of services in table 4.7, unlike those in editions before 2000, include only commercial services and exclude the category "government services not included elsewhere." The data are compiled by the IMF based on returns from national sources. Data on total trade in goods and services from the IMF's Balance of Payments database are shown in table 4.15.

Definitions

• Commercial service exports are total service exports minus exports of government services not included elsewhere. International transactions in services are defined by the IMF's Balance of Payments Manual (1993) as the economic output of intangible commodities that may be produced, transferred, and consumed at the same time. Definitions may vary among reporting economies. • Transport covers all transport services (sea, air, land, internal waterway, space, and pipeline) performed by residents of one economy for those of another and involving the carriage of passengers, movement of goods (freight), rental of carriers with crew, and related support and auxiliary services. Excluded are freight insurance, which is included in insurance services; goods procured in ports by nonresident carriers and repairs of transport equipment, which are included in goods; repairs of harbors, railway facilities, and airfield facilities, which are included in construction services: and rental of carriers without crew, which is included in other services. • Travel covers goods and services acquired from an economy by travelers in that economy for their own use during visits of less than one year for business or personal purposes. Travel services include the goods and services consumed by travelers, such as meals, lodging, and transport (within the economy visited), including car rental. • Insurance and financial services cover freight insurance on goods exported and other direct insurance such as life insurance, financial intermediation services such as commissions, foreign exchange transactions, and brokerage services; and auxiliary services such as financial market operational and regulatory services. • Computer, information, communications, and other commercial services include such activities as international telecommunications and postal and courier services; computer data; news-related service transactions between residents and nonresidents; construction services; royalties and license fees; miscellaneous business, professional, and technical services; and personal. cultural, and recreational services.

4.6a



The top 10 developing country exporters accounted for about 55 percent of developing country commercial service exports and 11 percent of world commercial service exports.

- a. Data are for 1994 and 2004.
- b. Data are for 1990 and 2003.

Source: International Monetary Fund data files and staff estimates

Data sources

Data on exports of commercial services are from the IMF. The IMF publishes balance of payments data in its *International Financial Statistics* and *Balance of Payments Statistics Yearbook*.





4.7 Structure of service imports

	Commo service i		Trans	port	Trav	/el	Insuran financial		Computer, i communica other cor serv	ntions, and nmercial
	\$ milli 1990	ons 2004	% of commerc	cial services 2004	% of commerc 1990	cial services 2004	% of commer 1990	cial services 2004	% of commer 1990	cial services 2004
Afghanistan	97		85.9	••			9.5		4.6	
Albania	29	734	26.3	21.3		66.6	2.9	3.6	70.8	8.5
Algeria	1,155		58.1		12.9		9.8		19.2	
Angola	1,288	4,803	38.3	18.3	3.0	0.8	2.6	4.9	56.1	76.1
Argentina	2,876	6,596	32.6	24.8	40.7	44.9		3.8	26.7	26.5
Armenia	40	305	89.2	58.7	0.9	21.2	9.9	6.7	0.0	13.4
Australia	13,388	25,613	33.9	36.3	31.5	36.7	4.8	4.2	29.8	22.8
Austria	14,104	46,195	8.4	13.7	54.9	24.4	4.6	6.1	32.1	55.8
Azerbaijan		2,702		10.7		4.7		1.4		83.3
Bangladesh Belarus	554 <i>125</i>	1,835	71.1 <i>34.0</i>	77.3 24.8	14.1 44.6	8.8 51.9	6.6 12.3	7.8 1.7	8.3 9.2	6.1 21.5
	125 25,924 ^a	1,009 48,234	34.0 23.3 ^a	24.8	44.6 21.1 ^a	28.9	12.3 14.8 ^a	7.9	9.2 40.8 ^a	40.3
Belgium Benin	25,924	48,234 244	23.3° 46.9	70.0	12.8	28.9 8.7	14.8° 5.7	7.9 13.4	34.6	40.3 7.9
Bolivia	291	578	61.7	34.8	20.6	25.6	10.0	20.5	7.6	19.2
Bosnia and Herzegovina	291	438		45.2	20.0	28.4		14.0	7.0	12.4
Botswana	371	652		38.1	 15.0	35.2	5.5	4.2	22.0	22.5
Brazil	6,733	16,111	44.4	27.6	22.4	17.8	2.7	7.1	30.5	47.4
Bulgaria	600	3,225	40.5	47.1	31.5	29.6	4.5	3.7	23.5	19.7
Burkina Faso	196	135	64.7	65.1	16.6	16.1	5.1	14.7	13.6	4.2
Burundi	59	38	62.6	52.6	29.0	38.3	6.3	4.1	2.2	5.0
Cambodia	64	462	24.5	62.8		10.3		5.0	75.5	22.0
Cameroon	1,018		45.3		27.5		7.2	••	20.1	
Canada	27,479	56,571	21.1	21.6	39.8	28.3		12.2	39.2	38.0
Central African Republic	166		49.7		30.6		8.9		10.7	
Chad	223		45.1		31.2		4.4	••	19.2	
Chile	1,982	6,401	47.4	50.3	21.5	13.9	3.3	10.9	27.9	24.8
China	4,113	71,602	78.9	34.3	11.4	26.7	2.3	8.8	7.4	30.2
Hong Kong, China		30,016		25.9		44.0		5.8		24.3
Colombia	1,683	3,987	34.9	40.5	27.0	32.4	13.7	8.6	24.4	18.6
Congo, Dem. Rep.									<u></u>	
Congo, Rep.	748	537	18.4	12.6	15.2	9.8	1.6	8.1	64.9	69.6
Costa Rica	540	1,293	41.2	39.8	28.8	31.4	6.0	6.3	24.0	22.6
Côte d'Ivoire	1,518	1,880	32.1	48.5	11.1	19.1	4.7		52.0	32.4
Croatia	1,088	3,583	30.5	19.0	34.4	23.4	3.7	3.6	31.4	54.1
Cuba Czech Republic	2 701	0.120	 19.8	16.5		 25.0		10 5		46.0
Denmark	<i>3,701</i> 10,106	9,130 33,401	38.3	43.4	<i>14.2</i> 36.5	25.0 21.8	14.0 1.6	12.5	<i>52.0</i> 23.6	34.8
Dominican Republic	435	1,159	40.0	55.9	33.1	26.7	4.1	9.6	22.9	7.8
Ecuador	755	1,735	41.6	47.9	23.2	22.5	8.1	3.8	27.2	25.7
Egypt, Arab Rep.	3,327	7,470	44.0	40.0	3.9	16.8	4.6	8.2	47.5	35.0
El Salvador	296	1,056	45.9	45.8	20.6	22.7	12.1	12.9	21.5	18.6
Eritrea	1									
Estonia	123	1,707	76.3	42.4	 15.4	23.4	0.3	1.4	8.0	32.7
Ethiopia	348	938	76.5	62.4	3.3	6.4	3.4	5.1	16.9	26.1
Finland	7,432	12,129	26.1	27.9	37.2	23.3	1.8	1.6	34.8	47.3
France	59,560	96,452	29.4	27.2	20.7	29.6	19.2	4.9	30.7	38.3
Gabon	984	821	23.2	32.3	13.9	23.6	5.3	5.7	57.6	38.4
Gambia, The	35		65.1		23.1		9.0	••	2.8	
Georgia		437		46.8		33.7		9.9		9.6
Germany	83,338	191,706	20.6	21.1	46.9	36.8	1.0	4.7	31.6	37.4
Ghana	226	881	55.1	45.6	5.9	21.2	11.2	5.3	27.8	27.9
Greece	2,756	13,560	34.0	52.5	39.5	21.2	5.4	5.0	21.0	21.3
Guatemala	363	1,247	41.0	50.7	27.4	31.3	3.4	12.2	28.2	5.8
Guinea	243	195	57.5	47.3	12.2	12.8	5.5	12.7	24.9	27.2
Guinea-Bissau	17	36	54.5	59.4	19.8	37.1	5.6	1.0	20.0	2.6
Haiti	71	244	47.9	97.5	52.1	••		••		2.5

Structure of service imports 4.7



	Comm service		Tran	sport	Tra	avel		ice and services	communic other co	information, ations, and mmercial rices
	\$ mil 1990	lions 2004	% of comme 1990	rcial services 2004	% of comme	rcial services 2004	% of comme 1990	cial services	% of comme	rcial services
Honduras	213	736	45.4	49.0	17.6	28.5	15.0		22.0	22.5
Hungary	2,264	10,239	8.8	15.3	25.9	27.8	1.0	5.8	64.4	51.1
India	5,943	40,950 ^b	57.5	36.7	6.6	13.8	5.8	6.5	30.1	43.1
Indonesia	5,898	28,265	47.4	19.5	14.2	12.4	4.0	3.4	34.5	64.7
Iran, Islamic Rep.	3,703		47.3		9.2		10.8		32.8	
Iraq										
Ireland	5,145	64,461	24.3	3.5	22.6	8.0	1.9	16.1	51.2	72.4
srael	4,825	12,342	39.6	35.2	29.7	22.7	4.4	3.5	26.3	38.7
Italy	46,602	80,412	23.7	24.4	22.1	25.4	10.4	4.7	43.9	45.5
Jamaica	667	1,677	47.9	38.6	17.0	17.1	6.7	9.3	28.4	35.0
Japan	84,281	134,013	30.8	31.9	27.9	28.5	2.1	4.6	39.3	35.0
Jordan	1,118	1,972	52.0	56.1	30.1	26.6	5.2	8.3	12.7	9.1
Kazakhstan		4,933		17.7		15.4		2.6	10 F	64.4
Kenya Koroa Dom Bon	598	675	66.2	49.1	6.4	15.9	8.9	10.5	18.5	24.4
Korea, Dem. Rep. Korea, Rep.	10,050	 49,641	39.8	36.1	27.5	24.2	0.3	1.2	32.4	38.6
Kuwait	2,805	6,135	31.9	36.1	65.5	60.2	1.2	1.6	1.4	2.2
Kyrgyz Republic	2,303 51	226	74.1	39.2	0.8	22.2	7.6	14.3	17.6	24.3
Lao PDR	25	5	73.0	99.0		1.0	6.4		20.6	0.0
Latvia	120	1,164	82.3	35.5	10.9	32.4	4.8	5.8	2.1	26.3
Lebanon	••									
_esotho	48	86	67.9	64.6	24.7	35.3	5.6		1.7	0.1
Liberia	74		60.8		33.7		5.6			
Libya	926	1,603	41.9	40.2	45.8	37.6	4.1	5.5	8.3	16.7
Lithuania	177	1,578	90.7	42.1	6.9	40.3	••	1.7	2.4	16.0
Macedonia, FYR		440		42.5	<u></u>	12.4		3.9		41.3
Madagascar	172	405	43.5	58.4	23.4	15.8	3.5	3.6	29.5	22.2
Malawi	268	222	81.8	50.1	5.9	35.2	8.7	0.0	3.7	14.7
Malaysia	5,394	17,323	46.9	36.1	26.9	16.4		3.5	26.2	44.0
Mali	352	478	57.4	65.3	15.8	10.0	1.9	5.7	24.9	19.0
Mauritania	126		76.9		18.3		3.1		1.7	
Mauritius	407	1,005	51.6	46.7 11.1	23.0	25.4 36.2	5.5 6.2	6.1	19.9	21.9
Mexico Moldova	10,063	19,250 352	25.0	33.0	54.9	38.2	•	42.0 1.3	14.0	10.8 27.6
Mongolia	155	496	 56.2	40.2	0.8	38.8	6.3	8.2	36.8	12.8
Morocco	940	2,805	58.3	49.0	19.9	20.5	6.0	2.9	15.9	27.6
Mozambique	206	511	57.7	37.3		26.2	4.3	1.6	38.1	34.9
Myanmar	73	444	35.4	51.2	22.6	6.5	2.5		39.5	42.4
Namibia	341	376	46.9	36.1	17.9	23.3	6.8	5.5	28.5	35.1
Vepal	159	364	40.8	36.1	28.5	42.3	3.2	4.5	27.5	17.1
Netherlands	28,995	68,564	37.7	20.0	25.4	23.8	1.0	2.4	35.9	53.8
New Zealand	3,251	6,806	40.6	36.3	29.5	34.6	2.5	3.8	27.5	25.3
Nicaragua	73	375	70.7	56.5	20.1	22.8	7.9	3.6	1.4	17.2
Viger	209	175	68.3	76.7	10.4	12.6	4.3	2.1	17.1	8.5
Nigeria	1,901	4,969	33.6	29.5	30.3	23.4	3.1		32.9	47.2
Norway	12,247	23,988	44.6	36.2	30.0	35.0	1.7	3.8	23.7	25.1
Oman	719	2,740	36.6	37.1	6.5	22.5	4.1	9.4	52.8	31.1
Pakistan	1,863	5,089	67.0	40.4	23.1	24.9	1.4	3.3	8.6	31.5
Panama	666	1,402	66.6	55.2	14.8	17.0	10.2	13.1	8.4	14.6
Papua New Guinea	393	662	35.6	26.1	12.8	5.8	4.0	7.3	47.6	60.8
Paraguay	361	323	61.6	52.8	19.8	22.1	11.4	16.8	7.3	8.3
Peru	1,070	2,628	43.5	41.7	27.6	23.6	10.9	8.8	18.0	25.9
Philippines	1,721	5,081	56.9	48.1	6.5	25.9	3.4	5.5 E 1	33.2	20.5
Poland	2,847 3,772	12,272 9,464	52.4 48.5	24.0 30.5	14.9 23.0	31.3 29.2	1.0 5.1	5.1 4.3	31.8 23.5	39.6 36.0
Portugal Puerto Rico	3,112	9,404	40.3	30.5	23.0	29.2	5.1	4.3	23.3	30.0





4.7 Structure of service imports

		mercial imports	Tran	sport	Tra	avel		nce and services	Computer, information, communications, and other commercial services		
	\$ m 1990	illions 2004	% of comme 1990	rcial services	% of comme 1990	rcial services 2004	% of comme	rcial services 2004	% of comme 1990	rcial services 2004	
Romania	787	3,829	65.5	39.2	13.1	14.1	7.3	5.9	14.1	40.9	
Russian Federation		32,766		11.9	13.1	48.0		5.7		34.5	
Rwanda	94	136	69.0	64.5	23.7	23.2	***************************************	•••••	7.3	12.3	
Saudi Arabia	12,677	11,057	18.1	30.1	•••••	•••••	2.2	3.3	7.5	66.6	
Senegal	368	567	60.1	56.8	12.4	9.8	8.8	11.1	18.7	22.3	
Serbia and Montenegro	300	307		30.0	12.7		***************************************	•••••	10.7		
Sierra Leone	67	84	29.5	34.4	32.7	35.3	4.8	6.1	33.0	24.2	
Singapore	8,575	40,470	41.0	38.2	21.0	19.2	9.1	7.0	29.0	35.6	
	··•····		•		•		***************************************	•		•	
Slovak Republic	1,666	3,012	17.3	29.8	13.1	19.0	2.5	8.7	69.6	42.4	
Somalia	1,034	2,581	42.5	23.4	27.3	33.8	2.5	2.2	27.8 57.6	40.7	
Somalia	122		38.2		 24 F		4.2	76	57.6		
South Africa	3,594	9,079	40.2	50.6	31.5	29.5	11.6	7.6	16.7	12.3	
Spain	15,197	57,016	30.9	27.3	28.0	21.3	6.3	5.5	34.9	45.9	
Sri Lanka	620	1,872	64.2	60.6	11.9	15.8	6.8	5.9	17.1	17.7	
Sudan	202	1,023	31.9	82.2	25.4	17.2	4.9	0.2	37.8	0.5	
Swaziland	171	517	6.1	14.0	20.6	10.0		49.0	73.4	27.0	
Sweden	16,959	32,908	23.2	15.2	37.1	30.8	7.9	2.8	31.7	51.2	
Switzerland	11,093	23,653	33.7	22.0	53.0	37.1	1.4	4.9	12.0	36.0	
Syrian Arab Republic	702	1,813	54.5	55.2	35.5	35.9	4.4	3.5	5.7	5.4	
Tajikistan		205		77.4		1.7		8.1		12.8	
Tanzania	288	963	58.0	24.9	7.9	43.8	6.2	8.8	27.9	22.5	
Thailand	6,160	22,948	58.1	47.3	23.3	19.7	5.5	5.6	13.3	27.4	
Togo	217	204	56.9	72.8	18.4	3.5	9.1	11.8	15.6	11.9	
Trinidad and Tobago	460	335	51.7	48.2	26.6	32.0	9.9	0.0	11.9	19.8	
Tunisia	682	1,869	51.4	52.9	26.2	18.2	7.4	7.7	15.0	21.2	
Turkey	2,794	10,299	32.2	42.1	18.6	24.5		11.8	49.2	21.6	
Turkmenistan		••									
Uganda	195	679	58.3	38.6		17.9	6.5	9.7	35.2	33.8	
Ukraine		4,695		34.7		21.2		11.5		32.6	
United Arab Emirates											
United Kingdom	44,713	140,060	33.2	24.3	41.0	40.3	2.4	5.5	23.4	29.9	
United States	97,950	263,598	36.3	29.5	38.9	26.4	4.5	13.2	20.4	30.9	
Uruguay	363	649	48.2	45.2	30.7	29.8	1.5	6.4	19.6	18.5	
Uzbekistan							••				
Venezuela, RB	2,390	4,271	33.5	42.1	42.8	25.2	4.3	6.9	19.4	25.9	
Vietnam		3,698									
West Bank and Gaza											
Yemen, Rep.	639	1,004	27.6	49.4	9.9	12.5	5.4	8.7	57.1	29.4	
Zambia	370		76.8		14.6		5.3		3.3	20.7	
Zimbabwe	460		51.8		14.4		3.4		30.4		
World		2,117,904 t		27.9 w	32.5 w	28.4 w	5.0 w	8.5 w	32.4 w	35.8 w	
Low income	23,328	84,535	55.6	44.3	13.4	18.0	5.0 w	6.0	26.2	32.3	
Middle income	104,787	387,261	48.7	30.8	25.3	27.7	4.1	13.2	22.1	28.4	
Lower middle income	50,060	221,076	61.7	37.4	25.3 15.8	23.2	4.1	7.4	18.2	32.0	
Upper middle income	56,000	166,327	34.4	23.7	35.6	32.6	3.8	19.4	26.4	24.4	
	128,523	468,869	49.3	31.7	24.1	27.3	4.2	12.8	22.5	28.3	
Low & middle income	- -							•		•	
East Asia & Pacific	25,043	160,657	65.5	36.8	15.8	23.9	2.6	7.4	16.2	32.0	
Europe & Central Asia	37,010	113,048	30.9	26.6	19.2	30.0	6.2	7.5	44.2	35.9	
Latin America & Carib.	33,523	74,822	34.0	24.5	40.8	30.4	5.9	24.7	19.6	20.5	
Middle East & N. Africa	18,678		49.2		16.3		6.9		27.7		
South Asia	9,262	50,739	60.5	44.9	10.7	16.3	5.3	6.3	23.5	32.5	
Sub-Saharan Africa	18,321	38,142	45.1	44.7	22.6	24.3	7.6	6.5	25.5	24.7	
High income	700,780	1,652,657	30.8	27.0	34.8	28.7	5.2	7.4	34.8	37.6	
Europe EMU	300,933	708,916	26.3	23.3	31.1	28.5	7.7	5.2	35.0	43.9	

a. Includes Luxembourg. b. World Trade Organization estimate.

4.7

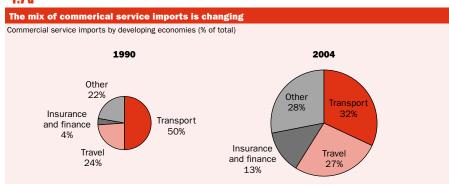
Structure of service imports

About the data

Trade in services differs from trade in goods because services are produced and consumed at the same time. Thus services to a traveler may be consumed in the producing country (for example, use of a hotel room) but are classified as imports of the traveler's country. In other cases services may be supplied from a remote location; for example, insurance services may be supplied from one location and consumed in another. For further discussion of the problems of measuring trade in services, see *About the data* for table 4.6.

The data on exports of services in table 4.6 and on imports of services in this table, unlike those in editions before 2000, include only commercial services and exclude the category "government services not included elsewhere." The data are compiled by the International Monetary Fund (IMF) based on returns from national sources.

4.7a



Between 1990 and 2004 travel, insurance and finance, and other services displaced transport as the most important service imports for developing economies.

Source: International Monetary Fund data files.

Definitions

• Commercial service imports are total service imports minus imports of government services not included elsewhere. International transactions in services are defined by the IMF's Balance of Payments Manual (1993) as the economic output of intangible commodities that may be produced, transferred, and consumed at the same time. Definitions may vary among reporting economies. • Transport covers all transport services (sea, air, land, internal waterway, space, and pipeline) performed by residents of one economy for those of another and involving the carriage of passengers, movement of goods (freight), rental of carriers with crew, and related support and auxiliary services. Excluded are freight insurance, which is included in insurance services; goods procured in ports by nonresident carriers and repairs of transport equipment, which are included in goods; repairs of harbors, railway facilities, and airfield facilities, which are included in construction services: and rental of carriers without crew, which is included in other services. • Travel covers goods and services acquired from an economy by travelers in that economy for their own use during visits of less than one year for business or personal purposes. Travel services include the goods and services consumed by travelers, such as meals, lodging, and transport (within the economy visited), including car rental. • Insurance and financial services cover freight insurance on goods imported and other direct insurance such as life insurance, financial intermediation services such as commissions, foreign exchange transactions, and brokerage services; and auxiliary services such as financial market operational and regulatory services. • Computer, information, communications, and other commercial services include such activities as international telecommunications, and postal and courier services; computer data; news-related service transactions between residents and nonresidents; construction services; royalties and license fees; miscellaneous business, professional, and technical services; and personal.

Data sources

cultural, and recreational services.

Data on imports of commercial services are from the IMF. The IMF publishes balance of payments data in its *International Financial Statistics* and *Balance of Payments Statistics Yearbook*.





4.8 Structure of demand

	House final cons expend	umption	General government final consumption expenditure		Gross capital formation		Exports of goods and services		Imports of goods and services		Gross savings	
	% of (GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% o 1990	f GDP 2004
Afghanistan					•							
Albania	61	89	19	9	 29	24		21	23	43	21	17
Algeria	57	39	16	15	29	33	23	40	25	26	26	46
Angola	36	73	35	a	12	12	39	71	21	55	9	16
Argentina	77	63	3	11	14	19	10	25	5	18	13	21
Armenia	46	82	18	11	47	20	35	39	46	53		14
Australia	59	60	19	18	22	25	17	18	17	21	18	19
Austria	57	56	19	18	24	22	38	51	37	46	24	24
Azerbaijan	51	58	18	12	27	55	44	50	39	74		24
Bangladesh	86	76	4	6	17	24	6	16	14	21	14	31
Belarus	47	57	24	20	27	28	46	69	44	74	29	24
Belgium	55	54	20	23	22	20	71	84	69	81	24	24
Benin	87 	77	11	14	14	20	14	15	26	26	10	13
Bolivia	77	68	12	15	13	12	23	31	24	26	10	17
Bosnia and Herzegovina		84		25		21		26		55		4
Botswana	33	28	24	34	37	31	55	40	50	32	43	39
Brazil	59	55	19	19	20	21	8	18	7	13	19	23
Bulgaria	60	68	18	19	26	24	33	58	37	69	16	16
Burkina Faso	82	82	13	13	18	19	11	9	24	23	13	6
Burundi Cambodia	95 91	98 80	11 7	8 5	15 8	11 26	8 6	9 65	28 13	25 76	6	15 19
Cameroon	67	72	13	12	18	17	20	26	17	26	16	15
Canada	56	56	23	20	21	20	26	38	26	34	18	23
Central African Republic	86	75	15	12	12	18	15	12	28	16	0	14
Chad	98	55	10	5	7	25	14	52	28	36	-3	6
Chile	62	58	10	12	25	23	35	36	31	30	23	22
China ^b	50	49 ^c	12	10	35	39	19	34	16	31	39	42
Hong Kong, China	58	59	7	10	28	22	132	193	124	184	34	32
Colombia	66	62	9	20	19	19	21	21	15	22	22	17
Congo, Dem. Rep.	79	91	12	5	9	13	30	19	29	22	1	7
Congo, Rep.	62	33	14	16	16	24	54	85	46	57	7	27
Costa Rica	61	66	18	15	27	22	35	47	41	49	17	17
Côte d'Ivoire	72	71	17	8	7	11	32	48	27	38	-4	15
Croatia	75	58	24	20	10	30	78	48	86	56	-16	24
Cuba												
Czech Republic	49	50	23	23	25	28	45	72	43	72	28	22
Denmark	49	48	26	27	20	20	36	44	31	38	22	23
Dominican Republic	80	73	4	5	25	21	34	50	44	49	22	27
Ecuador	68	65	11	9	21	28	33	27	32	29	11	27
Egypt, Arab Rep.	73	71	11	12	29	17	20	29	33	29	21	21
El Salvador	89	91	10	11	14	16	19	27	31	44	. 4	9
Eritrea	104	97	22	54	8	22	11	13	45	86	10	-9
Estonia	51	58	16	19	27	31	60	78	54	86	40	19
Ethiopia	74	83	19	17	12	21	8	19	12	40	10	13
Finland -	51	53	22	22	29	19	23	37	24	32	24	24
France	57	56	22	24	22	20	21	26	23	26	20	19
Gabon Combin The	50 76	52	13	7	22	25	46	61	31	40	24	30
Gambia, The	76	75 72	14	11	22	24	60	42	72 46	52 48	5	18
Georgia	65 57	72 50	10	15	31	29 17	40	31	46 25	48		18
Germany	57 85	59 76	20	19	24	17	25	38	25	33	23 7	21
Ghana	85 72	76 66	9 15	16 17	14	28 26	17 18	35 21	26 28	54 30	22	28 18
Greece		92	15 7	4	23	*	•	•	•	•	•	······································
Guatemala Guinea	84 73	92 86	9	6	14 18	18 11	21 31	18 21	25 31	32 23	10 11	13 8
Guinea Guinea-Bissau	73 87	86 88	10	14	30	11	10	35	31	23 49	15	9
	81	88 95	8	14 4	13	12 27	•	•	20	49 39	15 6	······································
Haiti	от	90	. 0	4	TO	21	18	12	∠∪	39	U	21

Structure of demand 4.8

	Household final consumption expenditure		General government final consumption expenditure		Gross capital formation		of goo	orts ds and ices	Imports of goods and services		Gross savings	
	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004
Honduras	67	74	14	14	23	29	36	37	40	54	14	21
Hungary	61	69	11	10	25 25	29	31	64	29	68	26	15
ndia	66	68	12	11	24	24	7	19	9	23	22	23
ndonesia	59	65	9	8	31	23	25	31	24	27	28	24
ran, Islamic Rep.	62	49	11	12	29	37	22	32	24	30	27	40
raq												
reland	58	45	16	15	21	25	57	80	52	65	23	23
srael	56	59	30	29	25	17	35	44	45	49	22	
taly	58	60	20	19	22	20	20	27	20	26	20	19
Jamaica	65	72	13	14	26	31	48	41	52	58	19	25
Japan	53	57	13	18	33	24	10	12	10	10	34	27
Jordan	74	93	25	16	32	24	62	48	93	80	22	21
Kazakhstan	52	55	18	12	32	24	74	55	75	46		25
Kenya	63	70	19	17	24	18	26	26	31	32	19	14
Korea, Dem. Rep.												
Korea, Rep.	52	52	12	14	38	30	28	44	29	40	37	34
Kuwait	57	38	39	21	18	14	45	60	58	33		
Kyrgyz Republic	71	79	25	17	24	14	29	43	50	53	4	9
Lao PDR							12	29	25	42		
_atvia	53	63	9	20	40	33	48	44	49	60	56	18
_ebanon	140	82	25	17	18	21	18	21	100	41	22	2
_esotho	138	94	14	22	53	42	17	48	122	105	60	28
Liberia		91		10		12		35		48		29
_ibya	48	58	24	17	19	14	40	47	31	36		
Lithuania	57	67	19	16	33	24	52	54	61	61		15
Macedonia, FYR	72	79	19	20	19	22	26	40	36	61	10	15
Madagascar	86	80	8	9	17	28	17	32	28	48	9	17
Malawi	72	95	15	17	23	11	24	27	33	49	14	-8
Malaysia	52	43	14	13	32	23	75	121	72	100	30	35
Mali	80	78	14	10	23	20	17	28	34	36	15	11
Mauritania	69	104	26	15	20	22	46	29	61	70	18	 _7
Mauritius	64	62	13	14	31	24	64	56	71	56	26	24
Mexico	70	69	8	12	23	21	19	30	20	32	20	21
Moldova	76	90	a	15	25	25	48	51	51	82	58	21
Mongolia	57	57	34	19	38	37	24	75	53	87	7	41
Morocco	65	60	16	21	25	25	27	33	33	39	25	28
Mozambique	92	78	14	10	22	20	8	30	36	38	2	6
Myanmar	89		a		13		3		5		12	
Namibia	51	49	31	25	34	26	52	46	67	45	35	40
Vepal	84	76	9	11	18	26	11	18	22	31	10	27
Vetherlands	50	49	24	25	23	21	55	65	51	60	25	23
New Zealand	61	60	19	18	20	23	27	29	27	29	16	18
Nicaragua	59	89	44	10	19	28	25	26	46	54	-4	10
Niger	84	82	15	12	8	16	15	16	22	26	-2	8
Nigeria	56	38	15	22	15	22	43	55	29	37	19	27
Norway	49	45	21	22	23	19	40	44	34	30	25	33
Oman	46	45	22	23	12	18	47	57	28	43		
Pakistan	74	73	15	8	19	17	16	16	23	15	22	23
Panama	57	68	18	13	17	21	87	63	79	65	24	13
Papua New Guinea	59		25		24		41	71	49	60	9	
Paraguay	77	73	6	7	23	22	33	36	40	37	20	23
Peru	74	69	8	10	23 17	19	16	21	14	18	16	18
Philippines	72	72	10	10	24	17	28	52	33	51	20	37
Poland	48	64	19	18	26	20	29	39	22	41	16	19
Portugal	63	63	16	21	28	24	33	31	40	38	28	15
	·······•	•	•	· 		•••••	••	•	•	•	•••••	•••••
Puerto Rico	65		15		17		72		70			



4.8 Structure of demand

	Household final consumption expenditure		General government final consumption expenditure		Gross capital formation		Exports of goods and services		Imports of goods and services		Gross savings	
	% of G 1990	DP 2004	% of 1990	GDP 2004	% of 1990	GDP 2004	% of 9	GDP 2004	% of •	GDP 2004	% of 1990	GDP 2004
Romania	66	70	13	15	30	25	17	37	26	47	22	18
Russian Federation	49	50	21	17	30	21	18	35	18	22	36	31
Rwanda	84	84	10	13	15	21	6	10	14	27	11	17
Saudi Arabia	47	30	29	23	15	19	41	53	32	25	18	29
Senegal	76	77	15	13	14	23	25	28	30	41	6	17
Serbia and Montenegro		93		18		17		24		52		5
Sierra Leone	84	87	8	14	10	16	22	23	24	39	3	11
Singapore	47	41	10	11	36	18					45	
Slovak Republic	54	56	22	20	33	26	27	77	36	80		23
Slovenia	53	54	17	20	17	27	91	60	79	61	24	26
Somalia	112		a		16		10		38		17	
South Africa	57	63	20	20	18	18	24	27	19	27	20	14
Spain	60	58	16	18	27	28	16	26	20	29	24	23
Sri Lanka	77	76	10	8	23	25	29	36	38	46	17	19
Sudan		71		12		20		18		21		15
Swaziland	73	65	18	25	19	18	75	84	87	92	27	17
Sweden	49	48	27	28	24	16	30	46	29	38	22	24
Switzerland	57	61	11	12	31	20	36	44	34	37	34	29
Syrian Arab Republic	69	64	14	14	17	21	28	35	28	34	15	20
Tajikistan	74	101	9	9	25	9	28	46	35	65	24	6
Tanzania ^d	81	78	18	13	26	19	13	19	38	29	8	9
Thailand	57	57	9	11	41	27	34	71	42	66	33	31
Togo	71	86	14	10	27	18	34	34	45	47	20	9
Trinidad and Tobago	59	58	12	9	13	20	45	60	29	48	21	27
Tunisia	58	63	16	16	33	25	44	45	51	48	27	22
Turkey	69	67	11	13	24	26	13	29	18	35	24	20
Turkmenistan	49	52	23	14	40	26		66		57		34
Uganda	92	77	8	15	13	23	7	14	19	28	1	10
Ukraine	57	55	17	18	28	19	28	61	29	54	36	30
United Arab Emirates	38	48	16	13	21	22	66	82	41	65		
United Kingdom	63	65	20	21	20	17	24	25	27	28	15	15
United States	67	71	17	16	18	18	10	10	11	14	15	13
Uruguay	70	74	12	11	12	13	24	30	18	28	14	12
Uzbekistan	61	56	25	17	32	20	29	40	48	33	3	30
Venezuela, RB	62	50	8	13	10	22	40	36	20	20	27	34
Vietnam	84	65	12	6	13	36	36	66	45	74	-2	32
West Bank and Gaza		84		53		3		10		49		-13
Yemen, Rep.	74	78	18	13	15	17	14	25	20	34	28	12
Zambia	64	69	19	13	17	26	36	20	37	27	7	13
Zimbabwe	63	74	19	21	17	13	23	36	23	44	16	3
World	60 w	<i>62</i> w	17 w	17 w	23 w	21 w	19 w	24 w	19 w	24 w	22 w	20 w
Low income	70	69	13	11	21	23	13	24	17	27	18	22
Middle income	60	58	13	14	26	26	22	35	21	33	26	28
Lower middle income	58	56	14	13	29	29	19	33	19	31	28	32
Upper middle income	63	61	13	14	23	22	25	38	23	35	21	22
Low & middle income	61	60	13	13	25	25	21	33	20	32	25	27
East Asia & Pacific	53	52	12	10	34	34	24	43	23	40	35	39
Europe & Central Asia	56	60	17	16	27	23	24	42	24	42	25	23
Latin America & Carib.	67	62	12	14	19	21	17	26	15	23	20	22
Middle East & N. Africa	66	59	15	14	26	26	26	34	34	34	24	30
South Asia	69	69	11	11	23	23	9	19	12	22	21	24
Sub-Saharan Africa	64	65	18	18	18	19	27	32	26	33	16	16
High income	60	63	18	18	23	20	19	23	19	23	22	19
Europe EMU	57	57	20	20	24	20	27	37	28	34	22	21

a. Data on general government final consumption expenditure are not available separately; they are included in household final consumption expenditure. b. China has revised its national accounts data from 1993 onwards, but revised expenditure data are not available. The data shown here are based on earlier series. c. Includes the difference between the old and the new GDP series. d. Data cover mainland Tanzania only.

About the data

Gross domestic product (GDP) from the expenditure side is made up of household final consumption expenditure, general government final consumption expenditure, gross capital formation (private and public investment in fixed assets, changes in inventories, and net acquisitions of valuables), and net exports (exports minus imports) of goods and services. Such expenditures are recorded in purchaser prices and include net taxes on products.

Because policymakers have tended to focus on fostering the growth of output, and because data on production are easier to collect than data on spending, many countries generate their primary estimate of GDP using the production approach. Moreover, many countries do not estimate all the separate components of national expenditures but instead derive some of the main aggregates indirectly using GDP (based on the production approach) as the control total.

Household final consumption expenditure (private consumption in the 1968 System of National Accounts, or SNA) is often estimated as a residual, by subtracting from GDP all other known expenditures. The resulting aggregate may incorporate fairly large discrepancies. When household consumption is calculated separately, many of the estimates are based on household surveys, which tend to be one-year studies with limited coverage. Thus the estimates quickly become outdated and must be supplemented by estimates using price- and quantity-based statistical procedures. Complicating the issue, in many developing countries the distinction between cash outlays for personal business and those for household use may be blurred. World Development Indicators includes in household consumption the expenditures of nonprofit institutions serving households.

General government final consumption expenditure (general government consumption in the 1968 SNA) includes expenditures on goods and services for individual consumption as well as those on services for collective consumption. Defense expenditures, including those on capital outlays (with certain exceptions), are treated as current spending.

Gross capital formation (gross domestic investment in the 1968 SNA) consists of outlays on additions to the economy's fixed assets plus net changes in the level of inventories. It is generally obtained from reports by industry of acquisition and distinguishes only the broad categories of capital formation. The 1993 SNA recognizes a third category of capital formation: net acquisitions of valuables. Included in gross capital formation under the 1993 SNA guidelines are capital outlays on defense establishments that may be used by the general public, such as schools, airfields, and hospitals, and intangibles such as computer software and mineral exploration outlays. Data on capital formation may be estimated from direct surveys of enterprises and administrative records or based on the commodity flow method using data from production, trade, and construction activities.

The quality of data on fixed capital formation by government depends on the quality of government accounting systems (which tend to be weak in developing countries). Measures of fixed capital formation by households and corporations—particularly capital outlays by small, unincorporated enterprises—are usually unreliable.

Estimates of changes in inventories are rarely complete but usually include the most important activities or commodities. In some countries these estimates are derived as a composite residual along with household final consumption expenditure. According to national accounts conventions, adjustments should be made for appreciation of the value of inventory holdings due to price changes, but this is not always done. In highly inflationary economies this element can be substantial.

Data on exports and imports are compiled from customs reports and balance of payments data. Although the data from the payments side provide reasonably reliable records of cross-border transactions, they may not adhere strictly to the appropriate definitions of valuation and timing used in the balance of payments or correspond to the change-of-ownership criterion. This issue has assumed greater significance with the increasing globalization of international business. Neither customs nor balance of payments data usually capture the illegal transactions that occur in many countries. Goods carried by travelers across borders in legal but unreported shuttle trade may further distort trade statistics.

Gross savings represent the difference between disposable income and consumption and replace gross domestic savings, a concept used by the World Bank and included in previous editions of *World Development Indicators*. The change was made to conform to the SNA concepts and definitions. For further discussion of the problems in compiling national accounts, see Srinivasan (1994), Heston (1994), and Ruggles (1994). For an analysis of the reliability of foreign trade and national income statistics, see Morgenstern (1963).

Definitions

• Household final consumption expenditure is the market value of all goods and services, including durable products (such as cars, washing machines, and home computers), purchased by households. It excludes purchases of dwellings but includes imputed rent for owner-occupied dwellings. It also includes payments and fees to governments to obtain permits and licenses. World Development Indicators includes in household consumption expenditure the expenditures of nonprofit institutions serving households, even when reported separately by the country. In practice, household consumption expenditure may include any statistical discrepancy in the use of resources relative to the supply of resources. • General government final consumption expenditure includes all government current expenditures for purchases of goods and services (including compensation of employees). It also includes most expenditures on national defense and security but excludes government military expenditures that potentially have wider public use and are part of government capital formation. • Gross capital formation consists of outlays on additions to the fixed assets of the economy, net changes in the level of inventories, and net acquisitions of valuables. Fixed assets include land improvements (fences, ditches, drains, and so on); plant, machinery, and equipment purchases; and the construction of roads, railways, and the like, including schools, offices, hospitals, private residential dwellings, and commercial and industrial buildings. Inventories are stocks of goods held by firms to meet temporary or unexpected fluctuations in production or sales, and "work in progress." . Exports and imports of goods and services are the value of all goods and other market services provided to, or received from, the rest of the world. They include the value of merchandise, freight, insurance, transport, travel, royalties, license fees, and other services, such as communication, construction, financial, information, business, personal, and government services. They exclude compensation of employees and investment income (factor services in the 1968 SNA) as well as transfer payments. • Gross savings are calculated as gross national income less total consumption, plus net transfers.

Data sources

National accounts indicators for most developing countries are collected from national statistical organizations and central banks by visiting and resident World Bank missions. Data for high-income economies come from Organisation for Economic Co-operation and Development data files (see the OECD's Annual National Accounts for OECD Member Countries: Data from 1970 Onwards). The United Nations Statistics Division publishes detailed national accounts for UN member countries in National Accounts Statistics: Main Aggregates and Detailed Tables and updates in the Monthly Bulletin of Statistics.





Growth of consumption investment, and trade

		consu	nold final umption nditure		General go final cons expend	umption	Gross of formation	-	Goods and services				
	average		Per ca	annual	average		average		Fue	% g	e annual rowth	orts	
	% gro 1990–2000		% gro 1990–2000		% gro		% gro		1990-2000				
Afghanistan													
Albania	4.3	2.5	5.2	2.1	2.4	0.7	25.8	3.3	17.9	16.9	15.8	16.8	
Algeria	-0.1	6.4	-1.9	4.8	3.6	3.1	-0.9	11.9	3.3	4.1	-1.1	9.0	
Angola													
Argentina	2.7	-1.7	1.5	-2.6	2.2	-1.0	7.4	-1.4	8.7	4.9	15.6	-7.3	
Armenia	-0.5	9.0	1.0	9.5	-1.7	6.6	26.2	13.3	-18.4	26.7	-12.5	15.7	
Australia	3.6	4.2	2.8	2.9	2.8	2.9	6.3	11.0	7.2	-0.2	8.1	9.4	
Austria	1.9	0.7	1.5	0.2	2.5	0.4	2.1	0.4	5.5	4.7	5.0	3.6	
Azerbaijan	1.5	12.1	0.4	11.2	-1.7	6.1	42.9	48.5	6.8	11.1	15.5	33.0	
Bangladesh	2.6	4.8	0.4	2.8	4.7	12.6	9.2	7.8	13.1	6.7	9.7	2.8	
Belarus	-0.5	11.5	-0.3	12.0	-1.9	0.4	-7.5	12.5	-4.8	10.1	-8.7	12.8	
Belgium	1.9	1.3	1.6	0.9	1.5	2.6	2.3	0.3	4.7	2.4	4.5	2.4	
Benin	2.6	13.5	-0.7	10.0	4.4	9.5	12.2	6.4	1.8	4.4	2.1	3.7	
Bolivia	3.6	2.0	1.4	0.0	3.6	2.5	8.5	-4.8	4.5	9.8	6.0	3.9	
Bosnia and Herzegovina Botswana	2.7	3.7	0.6	 3.5	7.1	8.7	2.5	4.7 16.4	4.7	5.3 -5.8	3.8	2.3 -0.4	
Brazil ^a	4.8	-0.2	3.3	-1.6	-0.4	4.3	3.4	-0.2	6.1	-3.8 12.4	11.1	-0.4 -1.6	
Bulgaria	-3.7	-0.2 5.0	-3.0	5.9	-0. 4 -8.5	3.7	-4.9	12.5	3.9	9.1	2.7	11.7	
Burkina Faso	4.2	3.6	1.3	0.3	-0.5	2.6	7.0	7.7	0.0	7.5	1.4	13.2	
Burundi	-2.3		-3.5		-2.1		0.4		7.9	10.6	1.1		
Cambodia ^a	6.0	2.8	3.4	0.7	7.2	4.4	10.9	23.4	21.7	13.9	14.8	12.7	
Cameroon	3.1	6.1	0.7	4.1	0.7	6.5	0.4	7.8	3.2	1.5	5.1	5.0	
Canada	2.6	3.1	1.6	2.1	0.3	3.4	4.5	3.6	8.7	-1.1	7.2	0.2	
Central African Republica											••		
Chada	0.6	16.9	-2.4	12.8	-2.8	5.8	4.4	12.8	1.2	39.2	-1.1	27.4	
Chile	6.4	1.2	4.7	0.1	9.6	2.1	4.7	6.4	9.4	4.7	10.4	-1.8	
China ^b	9.0	7.0	7.8	6.3	8.8	7.2	11.2	15.0	13.0	24.2	14.3	22.2	
Hong Kong, China	3.9	1.1	2.1	0.3	3.3	2.6	5.8	0.1	8.1	9.2	8.4	8.0	
Colombia	2.2	3.0	0.3	1.3	10.5	1.1	2.0	12.6	5.3	1.6	9.0	7.8	
Congo, Dem. Rep.a	-4.5	••	-7.1		-17.4	••	-0.7		-0.5		-2.4		
Congo, Rep. ^a	-1.7	15.4	-4.8	11.9	-2.0	12.7	0.4	21.3	5.1	3.8	2.9	24.9	
Costa Rica ^a	5.0	2.8	2.5	0.8	1.9	1.9	4.7	9.1	11.0	4.0	9.0	4.2	
Côte d'Ivoire	4.0	-2.2	1.1	-3.8	0.8	3.7	8.6	-4.6	1.5	3.5	6.9	6.3	
Croatia	2.6	5.1	3.5	4.8	1.4	-2.0	5.4	15.5	5.9	6.1	4.6	8.6	
Cuba									7.1		7.9		
Czech Republic	2.9	3.2	2.9	3.3	-0.6	2.8	4.7	4.2	8.8	9.9	12.1	10.0	
Denmark	2.2	1.3	1.8	1.0	2.3	1.6	5.6	2.2	4.4	2.6	6.0	3.9	
Dominican Republic ^a Ecuador ^a	3.4	-95.7	1.8	-95.7	15.9	-14.9	10.5	-10.2	13.2	5.7	11.4	1.2	
	2.1 4.5	4.3 2.8	0.3 2.5	2.8 0.8	-1.5	1.9	-0.7 5.9	14.5 -0.2	5.3 3.4	3.8 6.7	2.8 2.7	10.6	
Egypt, Arab Rep. El Salvador	5.3	2.6	3.1	0.8	2.1 2.8	3.3 2.0	7.1	1.0	13.4	4.2	11.6	3.8 3.5	
Eritrea	-5.0	1.8	-6.7	-2.5	22.6	5.0	19.1	-13.5	-2.5	-7.4	7.5	-3.7	
Estonia	0.6	7.7	2.2	-2.3 8.1	4.9	5.3	0.2	12.1	11.2	5.0	12.0	-3.7 7.6	
Ethiopia	5.5	4.3	3.2	2.1	9.7	-1.3	6.4	12.1	7.1	16.7	5.8	13.2	
Finland	1.7	2.8	1.4	2.5	0.8	2.4	1.3	0.5	9.9	2.5	6.2	2.4	
France	1.6	2.0	1.3	1.4	1.8	2.4			7.5	1.0	5.7	2.5	
Gabon ^a	1.2	5.1	-1.7	3.3	5.4	1.6	3.8	1.0	1.5	2.9	0.7	3.0	
Gambia, The	3.5	1.8	0.0	-1.1	-2.2	4.2	1.9	2.3	-0.2	3.2	-0.8	4.5	
Georgia	6.1	6.4	7.6	7.6	12.0	0.3	-12.5	17.1	12.2	3.8	11.2	4.6	
Germany	1.9	0.3	1.6	0.2	1.8	0.4	1.1	-2.8	6.0	4.9	5.8	2.5	
Ghana	0.2	9.2	-2.3	6.9	4.8	4.2	1.3	7.6	10.1	1.0	10.4	3.3	
Greece	2.2	3.4	1.4	3.1	2.1	2.4	4.1	7.8	7.6	-0.4	7.4	1.1	
Guatemala ^a	4.2	4.2	1.9	1.7	5.1	-2.0	6.2	2.3	6.2	0.8	9.2	6.6	
Guinea	3.6	5.0	0.5	2.7	5.0	6.7	2.8	-7.7	4.6	1.0	1.3	1.5	
Guinea-Bissau	2.6	7.1	-0.4	4.0	1.9	-3.9	-6.5	-8.6	15.4	3.8	-0.5	-6.3	
Haiti	••						8.6	1.5	-10.3	7.7	-5.2	10.6	

Growth of consumption, investment, and trade

	Household final consumption expenditure					General government Gross final consumption expenditure			Goods and services				
	average : % grov 1990–2000	wth	Per ca average % gro 1990–2000	annual wth	average % gro 1990–2000	owth	average % gro 1990–2000	owth	Ехр 1990–2000	% g orts		oorts 0 2000-04	
Honduras ^a	3.0	3.4	0.1	1.0	2.0	4.1	7.0	2.0	1.6	1.6	3.8	2.4	
Hungary	-0.2	6.8	0.1	6.7	0.9	3.7	10.0	-1.4	9.8	8.0	11.4	8.7	
India	4.9	6.2	3.0	4.6	6.6	2.6	7.0	7.7	12.3	12.0	14.4	15.8	
Indonesia	6.6	4.0	5.0	2.6	0.1	8.7	-0.7	5.2	5.9	3.8	5.7	4.9	
Iran, Islamic Rep.	2.9	5.5	1.3	4.1	5.2	3.4	3.1	11.8	-1.3	4.4	-11.6	11.7	
Iraq	••												
Ireland	5.3	3.3	4.5	1.6	4.1	6.1	10.4	2.9	15.5	4.0	14.3	2.2	
Israel	4.5	2.1	1.9	0.2	3.0	1.0	1.5	-6.9	10.6	2.2	7.4	0.2	
Italy	1.6	0.9	1.4	1.0	0.1	2.2	-0.3	16.9	6.1	-0.6	4.7	0.8	
Jamaica													
Japan	1.5	0.6	1.2	0.4	3.1	2.3	-0.2	-2.6	4.2	3.6	4.1	1.5	
Jordan	5.9	6.0	1.9	3.2	1.7	3.7	1.1	8.8	2.4	9.1	2.0	8.8	
Kazakhstan ^a	-8.1	9.4	-7.0	9.2	-7.1	7.5	-18.3	14.2	-2.6	9.8	-11.2	2.8	
Kenya	3.6	1.9	0.8	-0.3	6.9	1.8	6.1	1.5	1.1	9.5	9.4	4.8	
Korea, Dem. Rep.													
Korea, Rep.	4.9	2.8	3.9	2.2	4.7	4.5	3.4	3.4	16.0	11.8	10.0	9.3	
Kuwait	5.0	6.1	1.2	3.1	-2.9	7.1	-4.4	5.5	-1.6	0.2	0.8	8.3	
Kyrgyz Republic	-6.5	10.9	-7.4	9.9	-8.8	0.8	-3.9	-10.6	-1.6	6.2	-8.2	8.9	
Lao PDR	-3.9	8.0			10	2.2		102	4.2	 6.4	76	11.2	
Latvia Lebanon	-3.9 4.6	3.4	-2.7 2.3	8.7 2.3	1.8 1.2	-1.6	-3.9 8.2	18.3 8.4	7.2	6.4 16.2	7.6 3.1	5.7	
Lesotho	0.1	1.4	-1.1	1.2	6.2	6.7	1.5	-7.3	11.1	12.4	0.9	4.8	
Liberia							1.5	-1.5			0.9	4.0	
Libya												••	
Lithuania ^a	5.2	6.6	6.0	7.1	1.9	4.3	11.1	14.3	4.9	14.1	7.5	13.8	
Macedonia, FYR	2.2	3.4	1.7	3.1	-0.4	1.3	3.1	3.6	4.2	-2.3	7.4	0.1	
Madagascar	2.3	2.0	-0.7	-0.9	0.0	3.8	3.4	11.2	3.9	-5.8	4.3	8.4	
Malawi	5.4	5.2	3.5	2.8	-4.4	7.8	-8.4	-4.8	4.0	0.3	-1.1	5.6	
Malaysia	5.3	5.9	2.6	3.8	4.8	11.2	5.3	1.4	12.0	4.5	10.3	5.2	
Mali	3.0	1.9	0.2	-1.1	3.2	25.2	0.4	4.7	10.0	8.2	3.5	5.0	
Mauritania	3.6		0.9		0.2		9.3		-1.5		-0.6		
Mauritius	5.1	3.9	3.9	2.9	4.8	4.6	4.7	3.6	5.4	6.6	5.2	3.6	
Mexico	2.4	2.7	0.7	1.3	1.8	-0.5	4.7	-2.1	14.6	2.7	12.3	2.3	
Moldova ^a	9.9	9.3	10.2	9.7	-12.4	10.4	-15.5	7.6	0.7	16.3	5.6	16.0	
Mongolia ^a				····		••			30.9	8.4	29.3	7.8	
Morocco	1.6	3.8	0.1	2.1	3.8	4.4	2.9	6.6	5.4	4.4	4.4	3.8	
Mozambique ^a	4.8	6.5	1.8	4.3	3.1	9.3	15.5	4.8	11.0	23.3	6.3	10.8	
Myanmar	3.9						15.3		10.0		5.8		
Namibia Nanal	4.8	-0.1	1.7	-1.5	3.3	1.3	6.9	12.3	3.8	8.7	5.4	2.3	
Nepal Netherlands	2.8	0.4	2.2	-0.1	2.0	2.5	3.2	-1.6	6.8	2.2	6.6	2.4	
New Zealand	3.2	0.4 4.4	2.2	-0.1 3.0	2.5	2.5 3.4	3.2 5.8	-1.6 8.9	5.1	2.2 4.0	6.3	7.5	
Nicaragua ^a	6.1	4.4	3.8	2.0	-1.5	-0.5	11.3	-3.7	9.3	5.7	12.2	3.2	
Niger	1.8	4.1		2.0	0.8	-0.5	4.0	-3.1	3.1	5. <i>1</i>	-2.1		
Nigeria	0.2	5.7			-1.8	2.2	5.4	12.4	4.4	4.7	4.5	9.5	
Norway	3.5	3.0	2.9	2.4	2.8	3.1	6.0	-1.2	5.6	1.5	5.8	2.8	
Oman	5.4	1.3	2.4	0.4	2.4	6.1	4.0	17.0	6.2	7.0	5.9	12.8	
Pakistan	4.9	2.3	2.3	-0.2	0.7	5.7	1.8	1.9	1.7	13.1	2.5	2.8	
Panama ^a	6.4	3.7	4.2	1.9	1.7	6.4	10.4	1.1	-0.4	0.3	1.2	0.4	
Papua New Guinea	5.6				2.7		0.5		4.3		2.8		
Paraguay	3.7	1.5	1.0	-0.9	6.4	-4.1	0.2	-2.5	-1.0	5.7	3.2	4.9	
Peru ^a	4.0	3.3	2.2	1.8	5.2	1.7	7.5	2.2	8.5	8.3	9.0	4.5	
Philippines	3.7	4.7	1.5	2.8	3.8	-1.5	4.1	-0.6	7.8	4.3	7.8	6.2	
Poland ^a	5.1	3.0	5.0	3.3	3.5	1.1	10.6	-1.6	11.3	8.3	16.7	4.1	
•	2.8	1.0	2.5	0.3	2.8		5.4	-3.9	5.6	3.3	7.3		



Growth of consumption, investment, and trade

		consu	nold final Imption Inditure		General go final cons expend	umption	Gross (•	Goods and services				
	average % gro	owth	average % gr	apita e annual owth	average % gro	owth	average % gr	owth	Exp	% g orts		ports	
					1990-2000					• • • • • • • • • • • • • • • • • • • •			
Romania ^a	1.4	7.5	1.7	8.4	0.8	2.8	-5.1	10.4	8.1	12.5	6.0	14.8	
Russian Federation	-0.9	8.7	-0.8	9.1	-2.2	1.7	-19.1	8.9	0.8	10.1	-6.1	18.1	
Rwanda ^a	1.2	3.4	-0.1	0.9	-1.7	13.1	1.4	0.4	-3.8	5.8	5.0	-0.6	
Saudi Arabia		1.9		-0.9		0.6		6.2		2.2		2.2	
Senegal	2.4	5.1	-0.2	2.6	2.1	4.9	7.9	9.0	6.3	4.6	3.5	8.1	
Serbia and Montenegro		9.5		9.4		6.1		15.3		14.5		23.1	
Sierra Leone	1.2	13.5	0.3	8.8	10.4		-5.6		-11.2	••	-0.2		
Singapore	5.7	4.0	2.6	2.7	9.1	1.2	7.7	-10.9					
Slovak Republic	4.7	3.1	4.5	3.1	2.9	3.5	7.9	3.6	9.0	11.7	11.7	10.4	
Somalia	3.8	2.1	3.8	2.0	2.1	2.4	11.3	6.2	2.2	6.7	4.8	6.5	
South Africa	2.0					 5.2	 5.0	71	5.6		71		
South Africa	2.9 2.2	3.9 3.1	0.7 1.8	3.0	0.3	5.3 4.6	5.0	7.1 4.5	5.6	0.8	7.1 9.0	6.6 5.4	
Spain Sri Lanka ^a	2.2 5.7			1.7	2.8 7.5		2.8 6.9	4.5 4.6	10.6 7.5	2.9 3.9	9.0 8.6	5.4 6.1	
Sudan	6.2		3.7		0.2		11.3	19.5	1.5 14.2	3.9 7.4	8.8	4.5	
Swaziland ^a	3.8	2.1	0.6	0.3	5.5	-2.2	2.7	4.2	3.8	2.0	4.5	0.8	
Sweden	1.3	1.3	1.0	1.0	0.6	1.2	1.8	-1.0	8.6	4.0	6.2	1.7	
Switzerland	1.1	0.9	0.5	0.1	0.8	3.0	1.4	-1.0 -1.9	4.0	0.0	4.2	0.2	
Syrian Arab Republic	2.9	4.6	0.1	2.0	1.9	7.0	3.2	12.0	12.0	-0.5	4.4	7.8	
Tajikistan	-4.2		-5.5		-19.2		-17.5	26.9	-1.4	12.8	-3.9	1.7	
Tanzania ^c	2.1	1.8	-0.8	-0.2	3.4	19.3	-1.6	9.6	7.1	4.2	0.3	6.1	
Thailand	3.7	5.6	2.5	4.6	5.1	2.3	-4.0	9.1	9.5	6.6	4.6	8.0	
Togo	5.0	0.6	1.8	-2.1	0.0	0.2	-0.1	5.8	1.2	6.1	1.1	3.2	
Trinidad and Tobago	0.7	9.5	0.1	9.1	0.3	5.4	12.5	2.7	6.9	4.3	9.9	7.1	
Tunisia	4.3	4.9	2.6	3.9	4.0	4.5	3.5	3.8	5.2	1.4	3.8	2.1	
Turkey	3.5	2.6	1.7	1.0	4.9	-0.8	5.0	9.1	11.7	12.1	11.0	10.9	
Turkmenistan							2.2		-6.1	10.9	0.6	10.4	
Uganda	6.2	5.4	3.0	1.9	7.1	6.8	8.9	6.2	14.7	9.9	10.1	5.4	
Ukraine	-6.9	11.1	-6.4	12.0	-4.1	5.2	-18.5	7.1	-3.6	9.1	-6.6	8.0	
United Arab Emirates	7.1	12.9	0.7	5.1	6.9	0.8	5.5	5.5	5.5	12.2	6.4	13.6	
United Kingdom	2.9	2.9	2.6	2.9	1.1	3.5	4.6	2.3	6.6	1.5	6.8	3.8	
United States	3.6	3.0	2.4	1.9	0.7	3.7	7.4	-1.3	7.3	-2.0	9.8	1.8	
Uruguay ^a	5.0	-3.2	4.2	-3.9	2.3	-4.1	6.3	-4.2	6.0	0.1	9.9	-5.5	
Uzbekistan		••	••				-2.6	4.3	2.4	3.3	-1.2	3.2	
Venezuela, RB	0.6	0.6	-1.5	-1.2	3.7	5.0	11.0	-9.1	1.0	-2.8	8.2	-3.2	
Vietnam	5.4	7.0	3.8	5.8	3.2	6.6	19.8	11.6	24.1	15.3	28.2	19.4	
West Bank and Gaza	2.9	-10.4	-1.3	-14.1	16.1	-1.7	-1.7	-53.9	1.0	-19.5	2.4	-13.5	
Yemen, Rep.	3.4	8.2	-0.7	4.9	1.3	5.3	10.9	6.7	16.5	-4.8	8.0	4.5	
Zambia	-3.6	1.5	-5.9	-0.3	-8.1	6.9	5.4	6.1	2.8	13.1	1.5	6.4	
Zimbabwe	0.0	-3.3	-1.7	-3.9	-2.2	-7.9	-2.5	-8.3	10.5	-5.7	9.4	-4.2	
World	2.9 w	2.4 w	1.5 w	1.1 w	1.7 w	2.9 w	3.2 w	1.2 w	7.0 w	5.0 w	6.9 w	<i>3.3</i> w	
Low income	4.2	5.4	2.0	3.4	4.2	3.6	6.1	7.3	8.2	9.6	8.9	11.9	
Middle income	3.8	3.6	2.6	2.7	2.6	3.5	2.5	7.4	7.2	10.1	6.3	9.3	
Lower middle income	4.9	4.2	3.6	3.2	3.3	4.9	4.6	10.4	6.9	14.0	5.2	12.4	
Upper middle income	2.6	2.9	1.6	2.1	1.7	1.6	-0.4	2.0	7.6	5.9	7.4	6.0	
Low & middle income	3.8	3.9	2.2	2.5	2.7	3.5	2.8	7.4	7.3	10.1	6.5	9.6	
East Asia & Pacific	7.4	6.3	6.1	5.4	7.1	6.8	7.9	13.0	11.0	15.3	10.4	15.0	
Europe & Central Asia	1.0	5.6	0.9	5.5	0.1	1.7	-7.3	6.6	3.5	9.8	1.9	10.9	
Latin America & Carib.	3.4	0.9	1.8	-0.6	1.6	2.0	5.0	-0.6	8.5	4.4	10.6	1.1	
Middle East & N. Africa	3.2	4.1	1.1	2.2	3.5	3.5	3.0	8.3	3.4	4.5	-1.6	6.7	
South Asia	4.7	5.5	2.6	3.7	5.8	3.2	6.5	7.1	10.0	11.2	11.2	12.6	
Sub-Saharan Africa	2.7	3.9	0.2	1.6	0.5	5.2	4.0	7.0	4.8	3.3	5.5	6.8	
High income	2.8	2.2	2.0	1.5	1.6	2.8	3.4	-0.1	6.9	1.8	7.0	2.3	
Europe EMU	1.9	1.3	1.6	0.8	1.6	2.0	1.4	3.7	6.9	2.7	6.1	2.5	

a. Household final consumption expenditure includes statistical discrepancy. b. China has revised its national accounts data from 1993 onwards, but revised expenditure data are not available. The data shown here are based on earlier series. c. Data cover mainland Tanzania only.

About the data

Measures of growth in consumption and capital formation are subject to two kinds of inaccuracy. The first stems from the difficulty of measuring expenditures at current price levels, as described in About the data for table 4.8. The second arises in deflating current price data to measure volume growth, where results depend on the relevance and reliability of the price indexes and weights used. Measuring price changes is more difficult for investment goods than for consumption goods because of the one-time nature of many investments and because the rate of technological progress in capital goods makes capturing change in quality difficult. (An example is computers—prices have fallen as quality has improved.) Several countries estimate capital formation from the supply side, identifying capital goods entering an economy directly from detailed production and international trade statistics. This means that the price indexes used in deflating production and international trade, reflecting delivered or offered prices, will determine the deflator for capital formation expenditures on the demand side.

Growth rates of household final consumption expenditure, household final consumption expenditure per capita, general government final consumption expenditure, gross capital formation, and exports and imports of goods and services are estimated using constant price data. (Consumption, capital formation, and exports and imports of goods and services as shares of GDP are shown in table 4.8.)

To obtain government consumption in constant prices, countries may deflate current values by applying a wage (price) index or extrapolate from the change in government employment. Neither technique captures

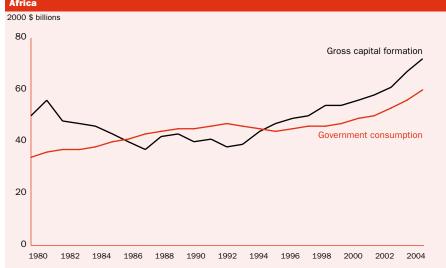
4.9a

improvements in productivity or changes in the quality of government services. Deflators for household consumption are usually calculated on the basis of the consumer price index. Many countries estimate household consumption as a residual that includes statistical discrepancies associated with the estimation of other expenditure items, including changes in inventories; thus these estimates lack detailed breakdowns of household consumption expenditures.

Definitions

• Household final consumption expenditure is the market value of all goods and services, including durable products (such as cars, washing machines, and home computers), purchased by households. It excludes purchases of dwellings but includes imputed rent for owner-occupied dwellings. It also includes payments and fees to governments to obtain permits and licenses. World Development Indicators includes in household consumption expenditure the expenditures of nonprofit institutions serving households, even when reported separately by the country. In practice. household consumption expenditure may include any statistical discrepancy in the use of resources relative to the supply of resources. • General government final consumption expenditure includes all government current expenditures for purchases of goods and services (including compensation of employees). It also includes most expenditures on national defense and security but excludes government military expenditures that potentially have wider public use and are part of government capital formation. • Gross capital formation consists of outlays on additions to the fixed assets of the economy, net changes in the level of inventories, and net acquisitions of valuables. Fixed assets include land improvements (fences, ditches, drains, and so on); plant, machinery, and equipment purchases; and the construction of roads, railways, and the like, including schools, offices, hospitals, private residential dwellings, and commercial and industrial buildings. Inventories are stocks of goods held by firms to meet temporary or unexpected fluctuations in production or sales, and "work in progress." • Exports and imports of goods and services represent the value of all goods and other market services provided to, or received from, the rest of the world. They include the value of merchandise, freight, insurance, transport, travel, royalties, license fees, and other services, such as communication, construction, financial, information, business, personal, and government services. They exclude compensation of employees and investment income (factor services in the 1968 SNA) as well as transfer payments.

Gross capital formation and government consumption are both on the rise in Sub-Saharan



Gross capital formation has been increasing in Sub-Saharan Africa since the mid-1990s, after a decline in the previous decade.

Source: World Bank data files.

Data sources

National accounts indicators for most developing countries are collected from national statistical organizations and central banks by visiting and resident World Bank missions. Data for high-income economies come from data files of the Organisation for Economic Co-operation and Development (see the OECD's Annual National Accounts for OECD Member Countries: Data from 1970 Onwards). The United Nations Statistics Division publishes detailed national accounts for UN member countries in National Accounts Statistics: Main Aggregates and Detailed Tables and updates in the Monthly Bulletin of Statistics.



	Reve	enue ^a	Ехр	ense	Cash s or de	-		Net inco			Debt and interest payments		
	% of 1995	F GDP 2004	% of 1995	GDP 2004	% of 1 1995	GDP 2004	Dom:	% of estic 2004	GDP Fore 1995	eign 2004	Total debt % of GDP 2004	Interest payments % of revenue 2004	
Afghanistan		4.6		13.2		-0.7		0.3		3.4	10.6	0.2	
Albania ^b	21.2		25.6		-8.9		7.4		2.1				
Algeria ^b	30.2	36.0	24.2	24.6	-1.3	1.2	-7.4	1.8	8.6	-1.7	48.1	8.6	
Angola							••						
Argentina		18.1		18.3		-0.5		1.4		1.5		26.5	
Armenia ^b		19.9		18.6		-0.9		0.3		2.0	35.5	2.7	
Australia		26.4		25.5		0.8	1.7		0.7		22.4	4.0	
Austria	37.4	38.2	40.6	40.1	-2.9	-1.9	••	2.2	28.0		65.3	7.9	
Azerbaijan ^b	18.0		19.8		-3.1								
Bangladesh ^b	···	10.0		8.8		-0.7		2.3		0.9	36.2	16.4	
Belarus ^b	30.0	30.6	28.7	28.5	-2.7	-0.2	2.2	0.7	0.4	0.5	12.3	1.5	
Belgium	43.5	43.7	45.0	43.9	-1.2	-0.3		-4.6		1.8	139.8	11.4	
Benin	<u></u>	·							·••				
Bolivia		20.2		27.2		-5.4		3.6		3.6	93.8	10.4	
Bosnia and Herzegovina		41.2		38.6		1.8		0.1		1.0		1.5	
Botswana ^b	40.5		30.3		4.9		0.2		-0.4				
Brazil ^b	26.9		32.9		-2.7						••		
Bulgaria ^b	35.5	38.2	39.4	35.3	-5.1	1.6	7.4	0.9	-0.8	-3.0		4.6	
Burkina Faso										••			
Burundi ^b Cambodia	19.3	10.7	23.6	9.1	-4.7	-2.2	3.0	-0.7	4.0	2.6	••	1.9	
Cameroon	11.3	.*	 13.1	.*	 -2.9		-0.4	•	 3.5	• • • • • • • • • • • • • • • • • • • •	••	•	
Canada ^b	20.6	19.9	24.6	18.3	-2.9 -4.4	1.4	-0.4 5.0	-1.0	0.0	0.3	 48.7	7.9	
Central African Republic	20.0		24.0		-4.4			-1.0		0.5	40.7	•	
Chad													
Chile		22.3		18.4		2.2		-1.0		0.2	 15.7	4.4	
China	5.4	8.8		10.4		-2.4	1.6		••			7.6	
Hong Kong, China													
Colombia		17.1		22.9		-8.0		7.5		-1.7	57.7	27.4	
Congo, Dem. Rep.b	5.3	7.9	8.2	7.8	0.0	-0.1	0.0		0.2				
Congo, Rep.b		30.9		19.9		6.4	••				0.2	18.1	
Costa Rica ^b	20.3	22.4	21.3	22.7	-2.1	-1.3			-0.8	1.4	38.3	18.3	
Côte d'Ivoire	20.1	17.1		17.5		0.1	-1.2	2.4	3.8	6.8	104.3	15.5	
Croatia ^b	43.1	41.9	42.5	42.0	-1.3	-4.0	-2.7	2.0	0.8	2.0		5.0	
Cuba													
Czech Republic		32.4		36.1		-3.3		0.6	••	3.0	21.4	3.1	
Denmark	39.4	36.5	38.5	35.2	1.5	1.8		-2.5	••		42.8	8.4	
Dominican Republic ^b	16.0	16.3	10.2	13.2	0.8	1.4	0.0	1.0	-1.0	2.3		9.4	
Ecuador	14.1		12.0										
Egypt, Arab Rep. ^b	34.8		28.1		3.4								
El Salvador	····	15.5		17.0		-3.3		2.0	····	0.6	49.0	14.4	
Eritrea													
Estonia ^b	32.8	28.0	32.0	26.7	0.6	0.9	-0.2	0.0	0.9	-0.1	2.5	0.6	
Ethiopia ^b		18.5		26.7		-9.8		1.2		9.2		7.6	
Finland	40.2	39.1	38.9	36.9	1.9	2.5	0.3	-0.6	-1.3	3.8	45.9	4.3	
France	43.3	43.3	46.5	47.1	-2.9	-3.5	••	2.0	••	1.6	70.7	5.9	
Gabon Combin The													
Gambia, The	122	15.0	15 /	14.4				0.1	2.4			 o n	
Georgia ^b	12.2	15.8 28.6	15.4 38.6	14.4	-4.3 _8 3	0.5	2.2 -0.6	0.1	2.4	0.3	43.2	8.2 6.1	
Germany Ghana	29.9 <i>17.0</i>	28.6 23.8	38.6	31.3 20.9	-8.3	-2.4 -2.9	-0.6		3.2	33		6.1	
Greece	45.4	· • · · · · · · · · · · · · · · · · · ·	 45.6	20.9	 -2.6			••		3.3	••	14.4	
Guatemala ^b	8.4	10.6	7.6	11.1	-2.6 -0.5	-0.9		0.8	0.4	 1.7	19.0	10.9	
Guinea	13.4		10.5		-0.5 -3.2	-0.9	-0.1		4.2	1.1		10.0	
Guinea-Bissau					-3.2		-0.1						
Haiti													



Central government finances 4.10

	Reve	enue ^a	Ехр	ense	Cash s	-		Net inco			1	l interest nents
	% of 1995	f GDP 2004	% of 1995	GDP 2004	% of 1995	GDP 2004	Dom 1995	% of nestic 2004	GDP Fore 1995	eign 2004	Total debt % of GDP 2004	Interest payments % of revenue 2004
Honduras						••				••		
Hungary		37.1		41.6		-6.2		0.3		5.4	58.2	10.9
India ^b	12.3	12.6	14.5	15.9	-2.2	-3.6	5.2	3.6	0.0	0.3	65.8	31.9
Indonesia ^b	17.7	18.3	9.7	16.8	3.0	-1.1	-0.6	0.0	-0.4	-0.4	28.7	14.8
Iran, Islamic Rep.b	23.0	28.9	15.1	20.2	1.1	3.6		1.2	0.1	-1.8		0.8
Iraq												
Ireland ^b	25.4		28.6		-2.0							
Israel		41.6		48.8		-4.8	4.9		0.1		98.1	13.3
Italy	38.9	37.7	41.7	40.0	-2.9	-2.3			••			13.8
Jamaica ^b		32.0	33.3	41.1		-9.7					145.0	59.2
Japan	20.6						1.5					
Jordan ^b	28.2	25.6	26.1	31.9	0.9	-1.4	-2.5	3.0	6.1	-3.0	88.2	5.8
Kazakhstan ^b	14.0	16.0	18.7	14.9	-1.8	0.2	0.8	1.2	2.8	-0.9	13.2	3.6
Kenya ^b	26.0	18.2	25.5	20.6	-1.1	-2.4	4.3	4.5	0.0	-4.1		18.0
Korea, Dem. Rep.												
Korea, Rep. ^b	17.8	22.8	14.3	18.6	2.4	2.9	-0.3	-2.3	-0.1	-0.1		5.1
Kuwait ^b	36.8	54.4	46.4	43.3	-13.6	6.5						0.3
Kyrgyz Republic ^b	16.7	16.1	25.6	15.8	-10.8	-0.8					99.3	8.4
Lao PDR												
Latvia ^b	25.8	25.9	28.3	28.1	-2.7	-1.0	2.4	0.4	1.5	1.7	13.8	2.4
Lebanon		20.6		30.8		-13.4		5.2	••	6.9		80.0
Lesotho ^b	49.8	49.7	34.4	38.0	5.1	5.3	0.0		6.2			3.8
Liberia												
Libya												
Lithuania	••	28.1		28.8		-1.6		-0.3		0.6	23.6	3.4
Macedonia, FYR			•		••••••		•					
Madagascar		60.4		63.0		-22.5		-3.6		31.8	 483.8	14.5
Malawi	·····	•••••	•	00.0	••		•	•••••••••••••••••••••••••••••••••••••••			••••	14.0
Malaysia ^b	24.4	23.7	17.2	20.1	2.4	-4.3	••	••	-0.8	••	••	10.5
Mali	24.4	. •						••		••	••	10.5
Mauritania	······································		••			••	•••	••	···			•
Mauritius ^b	21.6	21.8	19.9	21.8	-1.3	-3.2	3.1	-1.6	-0.6	-0.3	42.7	13.9
Mexico ^b	15.3	••	15.0	*	-0.6		*	••••••	-0.0 5.5	• • • • • • • • • • • • • • • • • • • •	42.1	13.5
Moldova ^b	28.4	28.8	38.4	 27.1	-6.3	0.4	3.0	2.4	2.7	-1.9	52.0	8.2
	28.4	· -	38.4		-0.3		3.0		2.1	•	··· · ·····	•
Mongolia Morocco ^b		37.9		30.8		-0.5		11.3		-6.8	119.8	3.1
	27.6		28.6		-4.5		5.6		-0.7		••	••
Mozambique			••		••	••		••	••	••	••	
Myanmar	6.4	4.7	 25 7	21 1			••	20.0		0.1		
Namibia ^b	31.7	28.1	35.7	31.1	-5.0	-6.8		-20.0		-0.1		9.1
Nepal	10.5	12.2	••		••		0.6	0.1	2.5	1.4	66.7	11.7
Netherlands		41.1		42.6		-1.7		0.9	3.3		54.3	5.5
New Zealand		35.8		31.5		3.7	••	-0.4		-0.3	45.4	4.7
Nicaragua ^b	15.0	21.3	16.3	19.7	0.6	-1.0			3.4	••		8.3
Niger												
Nigeria		·••		····		····					···	
Norway	<u></u>	49.3		37.2		11.8		2.3		6.9	37.7	2.1
Oman ^b	27.8	27.0	32.4	26.9	-8.9	-2.8	-0.1	3.0	0.0	-2.1	19.9	4.5
Pakistan ^b	17.2	13.8	19.1	14.7	-5.3	-2.0						39.9
Panama ^b	26.1	25.6	22.0	23.2	1.5	0.9						19.3
Papua New Guineab	23.9	23.8	25.8	23.4	-0.5	-2.4	1.5	5.2	-0.7	-2.3	73.9	19.9
Paraguay ^b	15.3	16.9	13.0	12.9	0.1	1.4	0.0	-1.2	-0.8	-0.2		6.2
Peru ^b	17.1	16.7	17.1	16.9	-1.3	-1.2	0.2	1.1	3.9	3.6		11.9
Philippines ^b	17.7	14.8	15.9		-0.8		-0.5	4.0	-0.7	1.8	70.1	39.7
Poland ^b		35.0		39.3		-3.4		3.7	••	0.4	43.2	7.7
Portugal	37.1	37.8	39.7	41.9	-3.1	-2.3	-3.7	1.2	4.3	3.2		7.5
Puerto Rico												



4.10 Central government finances

	Reve	enue ^a	Exp	ense	Cash so or de	•		Net inco				d interest nents
	% of 1995	GDP 2004	% of 1995	GDP 2004	% of (GDP 2004	Dome 1995	% of stic 2004	GDP Fore 1995	ign 2004	Total debt % of GDP 2004	Interest payments % of revenue 2004
Romania ^b		25.8		25.9		-2.0		0.4		1.7		8.4
Russian Federation		27.3		21.9		5.4		-0.1		-1.3	41.4	4.0
Rwanda	10.6		15.0		-5.6		2.9					
Saudi Arabia												
Senegal ^b	16.6	18.0		15.6		-2.2		1.4		1.6	73.6	4.6
Serbia and Montenegro ^b		35.8		39.9		-3.0						2.6
Sierra Leone	9.4	••	••				0.3		••			
Singapore ^b	26.8	20.2	12.5	15.5	19.9	4.2	10.3	9.3	0.0		109.6	0.8
Slovak Republic		35.2		36.8		-3.3		2.9		-0.2	46.5	7.0
Slovenia ^b	37.2	40.7	35.7	41.2	-0.2	-1.3	-0.4	2.3	0.3	-0.8		3.6
Somalia												
South Africa ^b		27.8		29.4		-1.9		2.9		0.4	36.9	12.7
Spain	 29.2	26.0	33.0	29.7	-2.6	0.6	3.4	0.1	•••••••••••••••••••••••••••••••••••••••			6.6
Sri Lanka ^b	29.2	26.0 16.4	26.0	22.9	-2.6 -7.6	-7.6	5.2	7.0	3.2	 0.1	 105.5	43.6
Sudan ^b	7.0	10.4	20.0 6.6		-0.4	7.0	0.3	······································	••••••••••••		100.0	- 3.0
Swaziland ^b	· ··································	 25.5		 23.2		-2.3		••	••	••	••	4.7
•	 40.7	•	20.2					1.6	••		62.4	. •
Sweden	40.7	38.0	39.3	37.5	2.2	0.3		1.6		0.5	62.4	5.3
Switzerland ^b	22.7	19.4	25.8	19.1	-0.6	0.6	-0.5	-0.6	••	••	28.5	4.5
Syrian Arab Republic ^b	22.9											
Tajikistan ^b	9.3	13.5	11.4	13.8	-3.3	-6.6	0.1	-0.2	2.3	0.2	79.8	5.1
Tanzania												
Thailand		19.6		17.1		0.6		4.0		-0.3	26.1	6.7
Togo												
Trinidad and Tobago ^b	27.2		25.3		-0.1	••	2.8	••	2.6	••	••	
Tunisia ^b	30.1	29.7	28.4	28.4	-2.5	-2.4	0.9	0.9	2.9	0.6	59.6	9.4
Turkey ^b	17.9		21.0		-4.1		5.5					
Turkmenistan												
Uganda ^b	10.6	12.1		22.8		-3.8		0.5		4.2		6.5
Ukraine ^b		30.7		33.0		-3.2		2.9		0.2		2.8
United Arab Emirates ^b	10.1		9.3		0.5							
United Kingdom	37.3	36.6	37.2	39.9	0.3	-3.2	-0.3	3.6	0.0	0.0		5.4
United States		17.2		20.9		-3.8		0.1		3.0	38.1	11.0
Uruguay ^b	27.6	26.5	27.1	27.5	-1.2	-2.5	7.9	-0.5	1.1	1.8	88.5	18.5
Uzbekistan												
Venezuela, RB ^b	16.9	24.0	18.5	25.2	-2.3	-4.1	1.1	6.3	0.1	0.2		19.5
Vietnam								······				
West Bank and Gaza												
Yemen, Rep. ^b	17.3		19.1		-3.9		•		•			
Zambia ^b	20.0		21.4		-3.1		 28.0		 16.2			
Zimbabwe ^b	26.7		32.1		-5.4		-1.4		1.6			•••••
World	20.7	24.6 w	W	27.3 w		<i>−2.7</i> w						7.9 m
Low income	13.5	13.0	15.5	15.5	-2.6	-3.2		m		m		
Middle income		•		•				11		 0.8	••	01
	17.3		••	••	••	••	••	1.1	••		••	9.1
Lower middle income	16.7		••	···		·•	••	0.9		1.1		8.5 10.5
Upper middle income	467	••	••	•••		••		2.9		0.6	••	10.5
Low & middle income	16.7	11 5	••	12.0		21	••	••	••	••	••	7.6
East Asia & Pacific	8.4	11.5	••	12.0		-2.1			••		••	7.6
Europe & Central Asia		31.0		31.1		-1.2		0.9		0.4		3.5
Latin America & Carib.	20.9		23.0		-0.4			1.0		2.3		11.9
Middle East & N. Africa	28.3		23.5		0.0	··						
South Asia	13.2	12.4	15.4	15.1	-2.7	-3.1	3.8	1.3	1.1	1.1	65.8	16.4
Sub-Saharan Africa			••					••	••	••	••	
High income	••	26.0	•••	28.9		-2.8		1.2				6.0
Europe EMU	36.3	35.7	38.8	38.6	-2.3	-2.3		1.1				6.4

a. Excluding grants. b. Data were reported on a cash basis and have been adjusted to the accrual framework.

Tables 4.10-4.12 present an overview of the size and role of central governments relative to national economies. The data in these tables are based on the concepts and recommendations of the second edition of the International Monetary Fund's (IMF) Government Finance Statistics Manual 2001. Before 2005, World Development Indicators reported data derived on the basis of the 1986 manual. The 2001 manual, which is harmonized with the 1993 System of National Accounts, recommends an accrual accounting method instead of the cash-based method of the 1986 manual. The new manual focuses on all economic events affecting assets, liabilities, revenues, and expenses, instead of only those represented by cash transactions. The new manual takes all stocks into account, so that the stock data at the end of an accounting period is equal to the stock data at the beginning of the period plus the flows during the period. The 1986 manual considered only the debt stock data. Further, the new manual does not distinguish between current and capital revenue or expenditures, unlike the 1986 manual. The new manual also introduces the concepts of nonfinancial and financial assets. Most countries still follow the previous manual, however. The IMF has reclassified historical Government Finance Statistics Yearbook data to conform to the format of the 2001 manual. Because of differences in reporting, the reclassified data understate both revenue and expense.

Government Finance Statistics Manual 2001 describes the economic functions of a government as the provision of goods and services to the community on a nonmarket basis for collective or individual consumption, and the redistribution of income and wealth through transfer payments. The activities of government are financed mainly by taxation and other transfers of income, though other forms of financing such as borrowing for temporary periods can also be used. The

definition of government excludes public corporations and quasi corporations (such as the central bank).

Units of government meeting this definition exist at many levels, from local administrative units to the highest level of national government, but inadequate statistical coverage precludes the presentation of subnational data. Although data for general government are available for a few countries under the 2001 manual, only data for the central government are shown to minimize disparities. However, cross-country comparisons are potentially misleading due to different accounting concepts of central government.

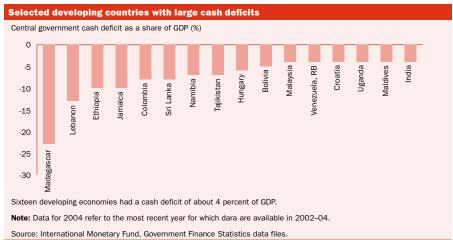
Central government can refer to one of two accounting concepts: consolidated or budgetary. For most countries central government finance data have been consolidated into one account, but for others only budgetary central government accounts are available. Countries reporting budgetary data are noted in Primary data documentation. Because budgetary accounts do not necessarily include all central government units (such as extrabudgetary accounts and social security funds), the picture they provide of central government activities is usually incomplete.

Data on government revenues and expenditures are collected by the IMF through questionnaires distributed to member governments and by the Organisation for Economic Co-operation and Development. Despite the IMF's efforts to systematize and standardize the collection of public finance data, statistics on public finance are often incomplete, untimely, and not comparable across countries.

Government finance statistics are reported in local currency. The indicators here are shown as percentages of GDP. Many countries report government finance data by fiscal year; see Primary data documentation for information on fiscal year end by country.

Definitions

- . Revenue is cash receipts from taxes, social contributions, and other revenues such as fines, fees, rent, and income from property or sales. Grants are also considered as revenue but are excluded here.
- Expense is cash payments for operating activities of the government in providing goods and services. It includes compensation of employees (such as wages and salaries), interest and subsidies, grants, social benefits, and other expenses such as rent and dividends. • Cash surplus or deficit is revenue (including grants) minus expense, minus net acquisition of nonfinancial assets. In the earlier version nonfinancial assets were included under revenue and expenditure in gross terms. This cash surplus or deficit is closest to the earlier overall budget balance (still missing is lending minus repayments, which are brought in below as a financing item under net acquisition of financial assets). • Net incurrence of government liabilities includes domestic financing (obtained from residents) and foreign financing (obtained from nonresidents), or the means by which a government provides financial resources to cover a budget deficit or allocates financial resources arising from a budget surplus. The net incurrence of liabilities should be offset by the net acquisition of financial assets (a third financing item). The difference between the cash surplus or deficit and the three financing items is the net change in the stock of cash. • Total debt is the entire stock of direct government fixed-term contractual obligations to others outstanding on a particular date. It includes domestic and foreign liabilities such as currency and money deposits, securities other than shares, and loans. It is the gross amount of government liabilities reduced by the amount of equity and financial derivatives held by the government. Because debt is a stock rather than a flow, it is measured as of a given date, usually the last day of the fiscal year. • Interest payments include interest payments on government debt-including long-term bonds, long-term loans, and other debt instruments —to domestic and foreign residents.



Data on central government finances are from the IMF's Government Finance Statistics Yearbook, 2005 and IMF data files. Each country's accounts are reported using the system of common definitions and classifications in the IMF's Government Finance Statistics Manual 2001. See these sources for complete and authoritative explanations of concepts, definitions, and data sources.





Central government expenses

Albana* 18		Good serv		_	nsation oloyees	Inte paym	rest nents		ies and ransfers	Otl expe	
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hina			•		•		•		• · · · · · · · · · · · · · · · · · · ·		
Hong Kong, China 8 14 20 25			9		22						8
Solombia Solombia			<u> </u>				7	<u> </u>	62		0
ongo, Dem. Rep.ª 37 36 58 21 1 2 43			•		•		•		•		···
congo, Rep.a 29 37 29 5 costa Rica ^a 12 12 12 38 43 20 18 26 26 4 dote d'Ivoire 30 39 16 16 droatia ^a 35 7 27 27 3 5 32 55 3 uba			•	•		•	•	•••••	•		32
tosta Rica ^a 12 12 38 43 20 18 26 26 4 ofte d'Ivoire 30 39 16 16 16 16 16 16 16 16 16		37	•	58	•	1	•	2	•		
Second Content	······ ·	•	•	•	•	•	•	•••••	•	•	0
roatia ^a 35 7 27 27 3 5 32 55 3 uba		•	•	•	•	•	•	***************************************	•	*	2
uba <td></td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>1 6</td>			•	•	•	•	•	•	•	•	1 6
zech Republic 6 8 3 74 enmark 8 10 13 13 13 9 62 64 4 ominican Republica 16 16 41 45 9 12 19 15 6 cuador 6 49 26				•	•				-		
remark 8 10 13 13 13 9 62 64 4 cominican Republica 16 16 41 45 9 12 19 15 6 cuador 6 49 26		•	•	•	•	•	•	•••••	•	•	9
ominican Republica 16 16 41 45 9 12 19 15 6 cuador 6 49 26 gypt, Arab Rep. ^a 18 22 26 6 I Salvador 13 42 13 5 ritrea <			•	•	•	• · · · · · · · · · · · · · · · · · · ·	•		•	•	4
cuador 6 49 26											12
gypt, Arab Rep.a 18 22 26 6 6			•	•	•	•	•	•	•	•	
I Salvador 13 42 13 5 ritrea			•	•	•	•••••					
ritrea			•		•						 27
stonia³ 33 32 14 10 1 1 46 58 0 thiopia³ 24 14 7 42 inland 10 10 10 9 5 65 68 7 rance 7 7 23 22 6 5 58 58 5 abon			•	•	•	•	•	•	•	•	
thiopia ^a 24 14 7 42	······			•		•	•				0
inland 10 10 10 10 9 5 65 68 7 rance 7 7 7 23 22 6 5 5 58 58 5 abon						•		•••••		•	14
rance 7 7 7 23 22 6 5 58 58 5 5 abon			•		•	• · · · · · · · · · · · · · · · · · · ·	•		•		7
abon <td></td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>***************************************</td> <td>•</td> <td>•••••</td> <td>•</td> <td>•</td> <td>7</td>			•	•	•	***************************************	•	•••••	•	•	7
ambia, The		•	•		•	•	•	••••••	•		
eorgia ^a 52 22 11 16 10 10 26 50 ermany 4 4 5 5 6 6 66 81 20 hana .45 21 .5 reece 10 .24 .20 .40 .6 uatemala ^a 15 12 50 28 12 11 18 21 6 uinea 31 47 13 10 uinea-Bissau	ambia, The			•	•			-	•		
dermany 4 4 5 5 6 6 6 66 81 20 hana .45 .21 .5 reece <		•	•	•	•	•	•				1
recce 10 24 20 40 6 uatemala ^a 15 12 50 28 12 11 18 21 6 uinea 31 47 13 10 0 uinea-Bissau	ermany	4	4	5	5	6	6	66	81		4
reece 10 24 20 40 6 uatemala ^a 15 12 50 28 12 11 18 21 6 uinea 31 47 13 10 0 uinea-Bissau	hana	••		••	45		21		•		••
uinea 31 47 13 10 0 uinea-Bissau	reece	10		24		20		••••••			
iuinea-Bissau	uatemala ^a	15	12	50	28	12	11	18	21	6	29
· ·	uinea	31		47		13		10		0	
aiti	uinea-Bissau										••
	aiti										

Central government expenses 4.11

	Good serv	s and ices	Compe of emp	nsation bloyees		erest nents	1	ies and ransfers	Oti expe	ier ense
	% of ex 1995	opense 2004	% of e. 1995	xpense 2004	% of ex 1995	xpense 2004	% of e.	xpense 2004	% of ex 1995	pense 2004
Honduras										
Hungary	••	8		14		10		60		8
ndia ^a	14	15	10	10	27	26	33		0	
ndonesia ^a	21	8	20	13	16	16	41	63	2	0
ran, Islamic Rep. ^a	21	12	56	45	0	1		34	••	7
raq	••		••							
reland ^a	5		13		15		63		4	••
srael		26	••	24		12		29		8
taly	4	4	15	16	19	13	57	61	5	5
amaica ^a	22	13	24	32	32	46	1	2	21	8
apan										
ordan ^a	7	6	67	58	11	6	12	18	4	12
(azakhstan ^a		25		9	3	4	58	54		8
(enya ^a	17	32	32	47	30	17		1	1	3
Korea, Dem. Rep.										
Korea, Rep. ^a	16	12	15	11	3	6	63	 56	3	15
Kuwait ^a	33	27	31	34	5	0	24	27	7	13
(yrgyz Republic ^a	32	34	36	41	5	9	27	17		
.ao PDR										
.atvia ^a	20	12	20	16	3	2	56	44	0	25
.ebanon		3		30		54		12		2
.esotho ^a	32	31	45	38	5	5	8	26	3	
iberia										
ibya										
ithuania		12		18		3		58	••	8
Macedonia, FYR		•	•		•		••••••			
// Adagascar		 14		39		23		11		13
Malawi										
∕lalaysia ^a	23	 26	34	30	17	12	27	31	1	1
Mali										
Mauritania		•		•		-				
Mauritius ^a	12	12	 45	39	12	14	28	32	. 2	3
Mexico ^a	9		19		19					
Moldova ^a	10	 18	8	 15	11	9	 71	49	1	9
Mongolia	····	36		30		4		31		0
Morocco ^a	17		39	••••••	21		19		4	
Mozambique	····		•		•		••••••		•	
Myanmar									••	
lamibia ^a	 28	 28	 53	 49	1		••	14	4	2
Vepal		•	•	•••••	•	•	••			
letherlands	••	7		8	••	 5	••	 76	••	3
lew Zealand	••	26	••	25		5	••	36	••	ა 6
licaragua ^a	16	26 15	23	30	 15	10	34	42	13	2
liger				•••••	•	•	••••••			
	••						••		••	······································
ligeria	••	 12	••				••	64	••	5
lorway Dman ^a	55	12 54	30	32		3 5	 8	64 10	0	5
		•	•	•••••	28	39	2	25	•	······································
Pakistan ^a		31 16		5 27	•			•	1	••
Panama ^a	16 10	16 25	45 26	37 28	8	21	30 36	25 16	1	···
Papua New Guinea ^a	19	<i>35</i>	36 51	28 50	20	21	26	16 28	1	
Paraguay ^a	12	8	51	52	5	8	31	28	0	3
Peru ^a	21	21	18	21	19	12	33	44	8	2
hilippines ^a	15		34		33		15		••	
Poland ^a		13		12		7		60		7
ortugal	7	7	30	32	10	7	41	45	11	9





Central government expenses

	Goods servi			nsation oloyees		rest nents		ies and ransfers	Otł expe	
	% of ex	pense 2004	% of ex	xpense 2004	% of ex	kpense 2004	% of e.	xpense 2004	% of ex	pense 2004
Romania ^a		22		16	•	8	•	43		12
Russian Federation		23		18		5		46		8
Rwanda	 52		36	•	12	•	5	•••••		
Saudi Arabia	······································	••		••	•		•••••		••	••
Senegal ^a	••	 25	••	34	••	6	••	34	••	••
Serbia and Montenegro ^a	••	10	••	34 14		2		68		 6
······································	••		••	•	••	•		•	••	
Sierra Leone									••	••
Singapore ^a	38	35	39	31	8	1	15	33		
Slovak Republic		12		13		7		63		5
Slovenia ^a	19	16	21	19	3	4	55	59	3	2
Somalia										
South Africa ^a	••	12		14	••	12		56		6
Spain	5	6	18	17	11	7	59	66	7	4
Sri Lanka ^a	23	14	20	25	22	32	24	22	10	7
Sudan ^a	44		38		8		10			••
Swaziland ^a	••	4	••	44		5		22		25
Sweden	11	12	9	11	13	5	62	65	5	7
Switzerland ^a	24	9	6	7	4	5	66	74	0	5
Syrian Arab Republic ^a	••	••	••		••	••		••		
Гајіkistan ^а	47	29	8	9	12	5	33	27		30
Tanzania			••							
Thailand		21		32		8		33		7
Togo				•••			•••			
Trinidad and Tobago ^a	20		36		20		24		1	
Tunisia ^a	7	7	37	40	13	10	36		7	
Turkey ^a	8		32		13		31		4	
Turkmenistan				•••••	•	•	•	•		••
Uganda ^a		 36	••	11	••	6	••	47	••	••
Ukraine ^a			••	16	••	3	••	•		
		11		•	••	•		62	••	8
United Arab Emirates ^a	50		37							
United Kingdom	22	19	7	13	9	. 5	53	53	9	10
United States		16		13		9		60		2
Uruguay ^a	13	14	17	22	6	18	64	46	0	
Uzbekistan -										
Venezuela, RB ^a	6	8	22	19	27	19	61	53	2	2
Vietnam										
West Bank and Gaza										
Yemen, Rep. ^a	8		67		16		8		0	••
Zambia ^a	32		35		16		19		0	
Zimbabwe ^a	16		34		31		19			
World	m	m	m	m	m	m	m	m	m	m
Low income	·-		••							••
Middle income										
Lower middle income		••								
Upper middle income		13		20		13		50		
Low & middle income			••		••		••	••		
East Asia & Pacific	••						••			
Europe & Central Asia		20		16		4		52		8
Latin America & Carib.	14	13	36	29	15	14		26		
Middle East & N. Africa	13		39		13		12			
South Asia	32	38	23	26	22	12	15	8		
Sub-Saharan Africa				•	•	•	•••••	•••••		···
High income		 10	••	 16			••	 61	••	••
				•				•		
Europe EMU	7	6	15	13	9	6	59	68	6	5

Note: Components may not sum to 100 percent because of missing data.

a. Data were reported on a cash basis and have been adjusted to the accrual framework.

The term expense replaced expenditure in this table in the 2005 edition of World Development Indicators in accordance with use in the International Monetary Fund's (IMF) Government Finance Statistics Manual 2001. Government expenses include all nonrepayable payments, whether current or capital, requited or unrequited. Total central government expense as presented in the IMF's Government Finance Statistics Yearbook is comparable to the concept used in the 1993 System of National Accounts.

Expenses can be measured either by function (health, defense, education) or by economic type (interest payments, wages and salaries, purchases of goods and services). Functional data are often incomplete, and coverage varies by country because functional responsibilities stretch across levels of government for which no data are available. Defense expenses, usually the central government's responsibility, are shown in table 5.7. For more information on education expenses, see table 2.10; for more on health expenses, see table 2.14.

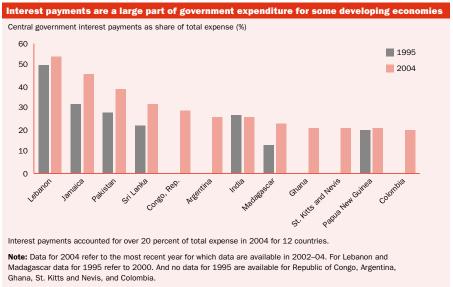
The classification of expenses by economic type in this table shows whether the government produces goods and services and distributes them, purchases the goods and services from a third party and distributes them, or transfers cash to households to make the purchases directly. When the government produces and provides goods and services, the cost is reflected in compensation of employees, use of goods and services, and consumption of fixed capital. Purchases from a third party and cash transfers

to households are shown as subsidies and other transfers, and other expenses. The economic classification can be problematic. For example, the distinction between current and capital expense may be arbitrary, and subsidies to public corporations or banks may be disguised as capital financing. Subsidies may also be hidden in special contractual pricing for goods and services. For further discussion of government finance statistics, see *About the data* for tables 4.10 and 4.12.

Definitions

- Goods and services include all government payments in exchange for goods and services used for the production of market and nonmarket goods and services. Own-account capital formation is excluded.
- Compensation of employees consists of all payments in cash, as well as in kind (such as food and housing), to employees in return for services rendered, and government contributions to social insurance schemes such as social security and pensions that provide benefits to employees. • Interest payments are payments made to nonresidents, to residents, and to other general government units for the use of borrowed money. (Repayment of principal is shown as a financing item, and commission charges are shown as purchases of services.) • Subsidies and other transfers include all unrequited, nonrepayable transfers on current account to private and public enterprises; grants to foreign governments, international organizations, and other government units; and social security, social assistance benefits, and employer social benefits in cash and in kind.
- Other expense is spending on dividends, rent, and other miscellaneous expenses, including provision for consumption of fixed capital.

4.11a



Source: International Monetary Fund, Government Finance Statistics data files

Data sources

Data on central government expenses are from the IMF's Government Finance Statistics Yearbook, 2005 and IMF data files. Each country's accounts are reported using the system of common definitions and classifications in the IMF's Government Finance Statistics Manual 2001. See these sources for complete and authoritative explanations of concepts, definitions, and data sources.



	Taxes on profits capital	s, and	good	es on s and vices	Taxe interna tra	ational	Oth tax		1	cial outions		ts and revenue
	% of re 1995	evenue 2004	% of re	evenue 2004	% of re	evenue 2004	% of re	venue 2004	% of re	evenue 2004	% of r 1995	evenue 2004
Afghanistan		3		3		18		1		1		75
Albania ^a	8		39		14		1		 15		22	
Algeria ^a	65	66	10	9	18	13	1	1			5	11
Angola												
Argentina		19		29		16		14		17		5
Armenia ^a		15		31		3		25		14		12
Australia		62		25		2		2				9
Austria	24	25	24	25	0	0	4	4	42	40	6	6
Azerbaijan ^a Bangladesh ^a	31	 12	34	 29	33	 33	2	4		••	0	22
Belarus ^a	 16	8	33	36	6	7	11	10	31	35		4
Belgium	37	35	23	23			2	1	35	34	3	7
Benin												
Bolivia		7		38		3		13		8		31
Bosnia and Herzegovina		2		36		10		6		34		12
Botswana ^a	21		4		15		0				59	
Brazil ^a	14	••	24		2		4		31		26	
Bulgaria ^a	17	15	28	40	8	2	3	0	21	27	23	16
Burkina Faso												
Burundia	14		30		20		1		5		30	
Cambodia		6		38		24		0				33
Cameroon Canada ^a	<i>24</i> 50	 52	23 17	 18	<i>22</i> 2	1	4	••	4 22	23	<i>21</i> 10	6
Central African Republic							••	••			•	
Chad									···			
Chile		18		45		2		6	•••	6		22
China	9	21	61	79	7	-8	0	1			22	7
Hong Kong, China												
Colombia		35		35		5		5		0		20
Congo, Dem. Rep.a	21	25	12	24	21	27	5	1	1		41	23
Congo, Rep. ^a		4		16		7		1	••	4		69
Costa Rica ^a	11	15	32	38	15	5	1	2	28	32	12	8
Côte d'Ivoire	15	8	14	18	58	46	3	13	5	8	5	7
Croatiaa	11	7	42	47	9	2	1	1	33	34	4	9
Cuba Czech Republic	••	20	••	27	••	0		1	••	45		6
Denmark	34	38	 40	44	••		7	2	5	4	14	12
Dominican Republica	16	24	34	41	36	21	1	2	4	3	9	9
Ecuador	50		26		11		1				12	
Egypt, Arab Rep.a	17		13		10	••	10		10		41	
El Salvador		21		41		7		1		14		16
Eritrea												
Estonia ^a	19	13	39	41	0	0	0	••	31	35	10	11
Ethiopia ^a		15		12		27		0		5		41
Finland	21	21	34	35	0	0	2	2	32	30	12	11
France	23	23	26	24	0	0	3	4	40	41	7	7
Gabon Combin The				·········		········		···				
Gambia, The Georgia ^a	7	2	 48	47		Ω				23	 22	21
Germany	16	2 16	48 20	22	10	8	0		13 58	23 59	6	3
Ghana	15	22	31	22	 24	29		2			9	26
Greece	20		30		0		 3		30		16	
Guatemala ^a	19	25	46	 58	23	10	3	1	2	2	6	4
Guinea	11		20		36		0				32	
Guinea-Bissau												
Haiti						••		••	••			

Central government revenues 4.12

	profit	n income, s, and Il gains	good	es on s and rices	interna	es on ational ade	1	her Kes		cial outions		ts and revenue
	% of re 1995	evenue 2004	% of re	evenue 2004	% of re 1995	evenue 2004	% of re	evenue 2004	% of re	evenue 2004	% of r 1995	evenue 2004
Honduras												
Hungary		19		36		2		2		33		8
India ^a	23	35	28	31	24	14	0	0	0	0	25	19
Indonesia ^a	46	28	33	32	4	3	1	4	6	3	9	30
Iran, Islamic Rep. ^a	12	9	5	2	9	8	1	1	6	13	66	66
Iraq												
Ireland ^a	38		35				3		14		10	
Israel		29		29		1		6		17		18
Italy	33	31	23	24		0	6	6	33	34	5	5
Jamaica ^a		30		34		9		7		7		0
Japan	35		14		1		5		26		18	
Jordan ^a	10	8	23	32	22	11	9	10		1	36	38
Kazakhstan ^a	11	40	28	40	3	5	5	0	48		6	15
Kenya ^a	34	34	36	50	15	3	1	0	0	0	14	12
Korea, Dem. Rep.						•		•				
Korea, Rep. ^a	31		32	31	7	4	10		 8	 15	12	 18
Kuwait ^a	1	0	0	•	2		0	0	•	•	97	97
Kyrgyz Republic ^a	26	16	56	 55	5	2	1	•		••	11	26
Lao PDR		•	•			•	.*				•	20
Latvia ^a	7	10			3	1	0	0	 25	21		20
	7	12	41	36 46		1 8	••••••		35	31	13	•••••
Lebanon		10		46		*		12		1		24
Lesothoa	15	20	12	17	49	45	1	0			24	17
Liberia						···	••					
Libya	·-											
Lithuania		22		36	••	0		0		32		9
Macedonia, FYR		·····		····		<u>-</u>						
Madagascar		6		16		27		4				46
Malawi	·••											
Malaysia ^a	37	47	26	21	12	6	5	0	1		19	26
Mali												
Mauritania												
Mauritius ^a	12	13	25	43	34	20	6	5	6	4	16	16
Mexico ^a	27		54		4		2		14		16	
Moldova ^a	6	3	38	48	5	5	1	0	38	27	2	17
Mongolia		16		35		6		0		16		27
Morocco ^a	20		40		15		3		9		13	
Mozambique												
Myanmar	20	16	26	22	12	2					42	60
Namibia ^a	27	38	32	20	28	32	2	2		1	11	8
Nepal	10	11	33	30	26	22	4	5			27	33
Netherlands		23		29		1		3		37		8
New Zealand		53		29		3		0		0		15
Nicaragua ^a	8	18	46	41	6	4	0	0	10	16	29	21
Niger												
Nigeria												
Norway		31		26		0		1		20		22
Oman ^a	21	21	1	1	3	3	2	2			74	73
Pakistan ^a	18	20	27	33	24	11	7	9	••••••		24	27
Panama ^a	20	15	17	9	11	9	3	4	16	20	34	44
Papua New Guinea ^a	40	50	8	13	27	26	2	3	0	0	23	8
Paraguay ^a	15	12	36	39	18	12	4	3	6	6	22	30
Peru ^a	15	24	49	53	10	7	8	4	11	9	10	12
Philippines ^a	33	40	26	25	29	18	4	3	•	•	8	15
Poland ^a		•	•		•••••	•	•••••	•	•••		•	
•		14		34		1	2	0		40 21	11	11
Portugal	23	23	32	32	0	0		2	29	31	14	12
Puerto Rico												



4.12 Central government revenues

	profit	income, s, and I gains	good	es on s and vices	Taxe interna tra	ational	Oti tax			cial outions		ts and revenue
	% of re 1995	evenue 2004	% of re	evenue 2004	% of re	evenue 2004	% of re	venue 2004	% of re	evenue 2004	% of r 1995	evenue 2004
Romania ^a		9		33		3		1		42		13
Russian Federation		4		26		19		0		27		24
Rwanda	11		25		23		3		2		36	
Saudi Arabia												
Senegal ^a	17	20	19	30	36	33	2	4			26	13
Serbia and Montenegro ^a		13		39		7		4		29		9
Sierra Leone	15		34		39		0		• • • • • • • • • • • • • • • • • • • •		12	
Singapore ^a	26	28	20	24	1	0	15	 11	••		38	38
Slovak Republic		17		29	•••••	1	•	0		40	•	13
Slovenia ^a	13	15	33	33	9	1	0	4	 42	38	3	10
Somalia		•				•			•	•	•	······
South Africa ^a		 51		 35		3		4		2		 5
	 26	23	23	35 15		0	0	0	 40	41	 10	5 22
Spain Sri Lanka						•	•		•	***************************************	•	
Sri Lanka ^a	12	14	49	56	17	12	4	1	1	1	18	16
Sudana	17		41		27		1				14	
Swaziland ^a		29		15		50		0				6
Sweden	15	5	26	34	0		12	12	35	38	13	10
Switzerland ^a	11	16	21	30	1	1	2	3	49	39	17	11
Syrian Arab Republica	23		37		13		8		0		19	
Tajikistan ^a	6	3	63	54	12	11	0	1	13	12	5	18
Tanzania						••		••				
Thailand		32		40		8		1		. 5		14
Togo												
Trinidad and Tobago ^a	50		26		6		1	••	2		15	
Tunisia ^a	16	23	20	35	28	7	4	4	15	18	17	12
Turkey ^a	31		39		4	••	3	••			23	
Turkmenistan												
Uganda ^a	10	12	45	24	7	16	2	0			37	48
Ukraine ^a		15		21		5		0		38		20
United Arab Emirates ^a			15				••	••	1		84	
United Kingdom	39	36	31	32			6	6	19	22	5	4
United States		51		4		1		1		40		3
Uruguay ^a	10	10	32	49	4	5	10	6	31	19	8	12
Uzbekistan									••			
Venezuela, RB ^a	38	13	33	23	9	4	0	8	4	2	19	50
Vietnam												
West Bank and Gaza												
Yemen, Rep. ^a	17		10		18		3				51	
Zambia ^a	27		22	••	36		0	••	0		15	
Zimbabwe ^a	36		22		17		3		2		19	
World	m	m	m	m	m	m	m	m	m	m	m	n
Low income												
Middle income									············		<u> </u>	
Lower middle income	••			••	••		••	••	••		••	
Upper middle income		 15	••	34	••	4	••	2				 12
Low & middle income		•		•	••	•			•••	••		
	••		••	••	••	••	••	••	••			••
East Asia & Pacific					••							15
Europe & Central Asia		10		36		5		0		33		15
Latin America & Carib.	16		29		12	7	3	••		10	14	
Middle East & N. Africa	17		13		15		3				36	
South Asia	11	12	28	29	24	18	2	1			26	33
Sub-Saharan Africa								••				
High income				28		••						11
Europe EMU	23	24	24	24	0	0	3	3	35	37	7	7

Note: Components may not sum to 100 percent because of missing data or adjustment to tax revenue.

a. Data were reported on a cash basis and have been adjusted to the accrual framework.

The International Monetary Fund (IMF) classifies government revenues as taxes, grants, and property income. Taxes are classified by the base on which the tax is levied, grants by the source, and property income by type (for example, interest, dividends, or rent). The most important source of revenue is taxes. Grants are unrequited, nonrepayable, noncompulsory receipts from other government units and foreign governments or from international organizations. Transactions are generally recorded on an accrual basis.

The IMF's Government Finance Statistics Manual 2001 describes taxes as compulsory, unrequited payments made to governments by individuals, businesses, or institutions. Taxes are classified in six major groups by the base on which the tax is levied: income, profits, and capital gains; payroll and workforce; property; goods and services; international trade and transactions; and other taxes. However, the distinctions are not always clear. Taxes levied on the income and profits of individuals and corporations are classified as direct taxes, and taxes and duties levied on goods and services are classified as indirect taxes. This distinction may be a useful simplification, but it has no particular analytical significance except with respect to the capacity to fix tax rates. Direct taxes tend to be progressive, whereas indirect taxes are proportional.

Social security taxes do not reflect compulsory payments made by employers to provident funds or other agencies with a like purpose. Similarly, expenditures from such funds are not reflected in government expenses (see table 4.11). For further discussion of taxes and tax policies, see *About the data* for table 5.6. For further discussion of government revenues and expenditures, see *About the data* for tables 4.10 and 4.11.

Definitions

• Taxes on income, profits, and capital gains are levied on the actual or presumptive net income of individuals, on the profits of corporations and enterprises, and on capital gains, whether realized or not, on land, securities, and other assets. Intragovernmental payments are eliminated in consolidation. • Taxes on goods and services include general sales and turnover or value added taxes. selective excises on goods, selective taxes on services, taxes on the use of goods or property, taxes on extraction and production of minerals, and profits of fiscal monopolies. • Taxes on international trade include import duties, export duties, profits of export or import monopolies, exchange profits, and exchange taxes. • Other taxes include employer payroll or labor taxes, taxes on property, and taxes not allocable to other categories, such as penalties for late payment or nonpayment of taxes. • Social contributions include social security contributions by employees, employers, and self-employed individuals, and other contributions whose source cannot be determined. They also include actual or imputed contributions to social insurance schemes operated by governments. • Grants and other revenue include grants from other foreign governments, international organizations, and other government units; interest; dividends; rent; requited, nonrepayable receipts for public purposes (such as fines, administrative fees, and entrepreneurial income from government ownership of property); and voluntary, unrequited, nonrepayable receipts other than grants.

4.12a

Taxes on income and capital gains as a share of revenue, 2002–04 (%) 70 60 50 40 30 20 100 1,000 GNI per capita (\$) Low-income economies Middle-income economies High-income economies

High-income economies prefer to tax income and property. Low-income economies tend to rely on indirect taxes on international trade and goods and services. But in all groups there are exceptions.

 $Source: International\ Monetary\ Fund,\ Government\ Finance\ Statistics\ data\ files\ and\ World\ Bank\ data\ files.$

Data sources

Data on central government revenues are from the IMF's Government Finance Statistics Yearbook, 2005 and IMF data files. Each country's accounts are reported using the system of common definitions and classifications in the IMF's Government Finance Statistics Manual 2001. The IMF receives additional information from the Organisation for Economic Co-operation and Development on the tax revenues of some of its members. See the IMF sources for complete and authoritative explanations of concepts, definitions, and data sources.



	Money and quasi money		Claim private		Claim governme other p entit	ents and oublic			Interes	t rate		
	annual % 1990	growth 2004	Annual § % of 1990		Annual ; % of 1990		Depo	esit 2004	% Lend 1990		R€ 1990	eal 2004
Afghaniatan	2000		. 1000		. 1000		. 2000				2000	2004
Afghanistan Albania	······································	13.1		4.2	••	2.0	 18.5	6.6	20.6	11.8	-65.5	5.7
Algeria	11.4	11.3	12.2	2.6	3.2	-11.5	8.0	2.5		8.0		-2.0
Angola		37.0		19.9		-15.0		15.4		82.3		28.3
Argentina	1,113.3	21.4	1,444.7	5.4	1,573.2	5.8	1,517.9	2.6		6.8		-2.2
Armenia	1,076.8	22.3	92.0	16.9	534.3	-1.1		4.9		18.6		17.9
Australia	12.8	11.7	13.8	14.8	-2.2	0.5	13.5	3.6	17.9	8.9	13.9	5.2
Austriaa	···	·····					3.4					
Azerbaijan	825.8	46.1	134.1	28.2	574.2	-1.2		9.2		15.7		8.8
Bangladesh Belarus	10.4	16.3 45.6	9.2	11.5 42.6	-0.1	3.8 3.5	12.0 <i>65.1</i>	7.1 12.7	16.0 <i>71.6</i>	14.8 16.9	9.1 <i>-85.1</i>	10.1 -4.0
Belgium ^a				42.0	••		6.1	1.6	13.0	6.7	9.9	4.3
Benin	28.6	-9.3	-1.3	3.3	 12.4	-0.4	7.0	3.5	16.0		14.2	
Bolivia	52.8	2.2	40.8	-3.3	17.5	0.8	23.8	7.4	41.8	14.5	22.0	5.5
Bosnia and Herzegovina		22.4		13.7		0.3		3.7		10.3		7.2
Botswana	-14.0	16.0	12.6	10.8	-51.9	9.2	6.1	9.9	7.9	15.8	1.5	10.4
Brazil	1,306.0	19.4	1,841.5	13.4	3,178.2	-1.0	9,394.3	15.4		54.9		43.2
Bulgaria	51.7	24.0	37.5	27.5	43.1	-6.6	39.5	3.0	52.5	8.8	-53.3	4.4
Burkina Faso	-0.5	-8.3	3.6	6.4	-1.5	-4.6	7.0	3.5	16.0		14.4	
Burundi Cambodia	9.6	17.8 30.4	15.4	1.5 14.5	-6.9	34.2 <i>-2.4</i>	4.0	1.8	12.3	18.3 17.6	6.0	11.2 11.7
Cameroon	 -1.7	6.4	0.9	14.5	-3.0	-2.4 -1.5	7.5	5.0	18.5	18.0	 16.6	17.5
Canada	7.8	10.2	9.2	13.1	-3.0 0.5	0.8	9.9	0.8	14.1	4.0	10.5	0.9
Central African Republic	-3.7	14.2	-1.6	9.0	2.3	4.7	7.5	5.0	18.5	18.0	15.9	20.2
Chad	-2.4	3.5	1.3	3.3	-17.3	-0.8	7.5	5.0	18.5	18.0	9.7	4.1
Chile	24.2	8.3	21.7	23.7	16.3	-0.4	40.4	1.9	48.9	5.1	22.8	-1.4
China	28.9	14.8	26.5	8.6	1.5	1.6	8.6	2.3	9.4	5.6	3.5	-1.2
Hong Kong, China	8.5	7.3	7.9	2.2	-1.0	0.7	6.7	0.0	10.0	5.0	0.5	8.0
Colombia	33.0	18.2	8.7	7.7	-7.5	5.1	36.4	7.8	45.2	15.1	15.2	7.5
Congo, Dem. Rep.	195.4	72.6	18.0	16.1	429.7	-15.9		 F 0		66.8		31.5
Congo, Rep. Costa Rica	18.5 27.5	17.4 33.8	5.1 7.3	-0.7 15.5	-12.6 8.2	3.9 9.8	7.5 21.2	5.0 9.5	18.5 32.6	18.0 23.4	19.7 11.8	10.4 10.6
Côte d'Ivoire	-2.6	9.6	-3.9	4.9	-3.0	-3.9	7.0	3.5	16.0		21.5	10.0
Croatia		8.2		11.1		0.3	658.5	1.9	1,157.8	11.7	81.0	8.1
Cuba												
Czech Republic		4.4		5.3		-5.0	7.0	1.3	14.1	6.0	-3.6	2.9
Denmark	6.5	11.0	3.0	26.5	-3.1	-5.4	7.9	2.4	14.1	7.1	10.1	5.4
Dominican Republic	42.5	9.0	19.1	-1.2	1.1	21.2	20.0	21.1	35.3	32.6	-14.5	-12.3
Ecuador	50.3	24.2	9.3	23.4	-26.5	-11.7	43.5	4.1	37.5	9.6	29.9	5.3
Egypt, Arab Rep.	28.7	14.4	6.3	2.1	25.3	8.7	12.0	7.7	19.0	13.4	0.5	1.7
El Salvador Eritro	-17.5	1.6 11.6	-24.2	4.5 3.7	10.2	0.7 11.3	18.0		21.2		15.7	••
Eritrea Estonia	 76.5	15.8	27.6	36.2	 -7.4	-2.0		2.2	30.5	 5.7	 -86.6	2.5
Ethiopia	19.9	19.3	0.3	4.5	21.8	10.9	 3.6	3.4	6.0	7.0	2.5	-2.3
Finlanda							7.5	1.0	11.6	3.7	4.9	2.9
France ^a							4.5	2.3	10.6	6.6	8.2	4.9
Gabon	3.3	11.4	0.7	-8.5	-20.6	-14.5	7.5	5.0	18.5	18.0	2.7	10.3
Gambia, The	8.4	18.3	7.8	-3.9	-35.4	-13.2	11.3	22.0	26.5	36.5	13.0	18.6
Georgia		42.4		20.3		-4.5		7.2		31.2		19.7
Germany ^a							7.1	2.7	11.6	9.7	8.1	8.1
Ghana	13.3	27.4	4.9	13.0	9.9	23.2	21.3	13.6	25.6		-5.9 - 7	
Greece ^a			15.0				19.5	2.3	27.6	6.8	5.7	<i>3.2</i>
Guatemala	25.8 –17.4	9.4 36.5	15.0	8.8 1.8	0.5	-5.2	18.2 21.0	4.2 8.9	23.3 21.2	13.8	-12.3 -2.2	5.2
Guinea Guinea-Bissau	-17.4 574.6	36.5 42.8	<i>13.1</i> 90.5	-1.3	<i>2.9</i> 460.7	19.2 –17.7	32.7	8.9 3.5	45.8	·•	-2.2 11.9	••
Haiti	2.5	5.2	-0.6	-1.3 1.2	0.4	0.2	J2.1	10.8	73.0	 34.1		2.9
riorti	۷.5	J.Z	-0.0	1.2	0.4	0.2	••	10.0		34.1	······································	2.3

Monetary indicators 4.13

	Money quasi n		Claim private		Claim governme other p entit	ents and public			Interes	t rate		
	annual %	-	Annual g	M2	Annual % of	M2	Depo		% Lend	ing		eal
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Honduras	21.4	20.7	13.0	11.0	-10.9	-3.2	8.8	11.1	17.1	19.9	-3.4	11.3
Hungary	29.2	8.9	23.0	16.7	69.4	-2.9	24.7	9.1	28.8	12.8	2.5	7.9
India	15.1	16.7	5.9	15.3	10.5	0.8		••	16.5	10.9	5.4	5.4
Indonesia	44.6	8.2	66.9	11.7	-6.7	0.7	17.5	6.4	20.8	14.1	12.2	6.6
Iran, Islamic Rep.	18.0	23.0	14.7	27.6	5.8	-4.3		11.7		16.7		0.1
Iraq		••	••		••	••						
Ireland ^a	19.4	3.6	18.5	 3.9	4.9	-3.9	6.3 14.4	0.0 3.6	11.3 26.4	2.6 7.4	12.1 9.1	-0.9 7.6
Israel Italy ^a			10.0		•••••••	-3.9	6.8	0.9	14.1	5.0	5.4	2.0
Jamaica	21.5	 14.0	12.5	7.3	-16.0	-18.7	23.9	8.0	30.5	18.1	4.3	4.9
Japan	8.2	1.6	9.7	-1.9	1.5	0.5	3.6	0.1	7.0	1.8	4.4	4.0
Jordan	8.3	10.5	4.7	9.4	1.0	2.9	8.2	2.5	10.3	8.3	-1.0	2.9
Kazakhstan		69.3		58.9		-17.1						
Kenya	20.1	13.7	8.0	14.5	21.5	-1.2	13.7	2.4	18.8	12.5	7.3	5.2
Korea, Dem. Rep.												
Korea, Rep.	17.2	-0.6	36.1	1.6	-1.2	1.4	10.0	3.9	10.0	5.9	-0.5	3.2
Kuwait	4.8	12.1	0.4	13.9	-1.6	-9.7	7.4	2.7	8.4	5.6	10.3	-14.2
Kyrgyz Republic		32.1		18.1		-30.6		6.7		29.3		23.4
Lao PDR	7.8	21.6	3.6	4.9	7.0	-0.2	30.0	7.9	26.0	29.3	11.4	17.2
Latvia		26.7		47.3		-2.9	34.8	3.3	86.4	7.4	21.3	0.3
Lebanon	55.1	10.1	27.6	1.7	18.5	5.8	16.9	7.4	39.9	10.8	21.2	7.7
Lesotho	8.4	3.3	6.8	1.9	-14.9	-23.3	13.0	4.2	20.4	12.4	10.8	10.5
Liberia	21.1	45.7	19.0	15.8	31.8	204.7	6.8	3.8	13.8	18.1	10.2	15.7
Libya	19.0	17.9	2.0	-0.1	15.0	-115.9	5.5	2.1	7.0	6.1	0.4	-11.5
Lithuania EVD	·• ·	24.1		26.0		1.7	88.3	1.2	91.8	5.7	-52.8	2.4
Macedonia, FYR Madagascar	4.5	16.1 25.2	23.8	14.3 13.9	-14.8	-0.3 -13.2	20.5	6.5 15.2	 25.8	12.4 25.5	 12.9	10.8 9.8
Malawi	11.1	29.7	15.5	11.5	-14.8 -12.9	10.2	12.1	13.7	21.0	36.8	9.3	22.7
Malaysia	10.6	19.3	20.8	22.5	-1.2	-4.5	5.7	3.0	8.8	6.0	4.8	-0.2
Mali	-4.9	-2.6	0.1	4.1	-13.4	1.7	7.0	3.5	16.0		10.6	
Mauritania	11.5	10.5	20.2	18.7	1.5	-15.8	5.0	8.0	10.0	21.0	7.2	10.8
Mauritius	21.2	13.2	10.8	7.6	0.8	8.9	12.6	8.1	18.0	21.0	6.6	14.2
Mexico	83.8	10.7	48.4	3.8	7.3	3.3	30.4	2.7	17.7	7.2	7.5	1.1
Moldova	358.0	39.8	53.3	13.6	447.0	9.8		15.1		20.9		12.0
Mongolia	31.6	20.5	40.2	24.2	29.8	-8.5	300.0	14.2	300.0	25.4	10.4	6.1
Morocco	21.5	7.8	12.4	4.4	-4.9	-1.6	8.5	3.6	9.0	11.5	2.1	9.9
Mozambique	37.2	5.8	22.0	1.6	-6.8	-13.7		9.9		22.1		8.4
Myanmar	37.7	32.4	12.8	5.6	23.9	29.3	5.9	9.5	8.0	15.0	-8.9	-6.2
Namibia	30.3	20.7	15.4	30.3	-4.7	9.5	12.8	6.4	23.4	11.4	17.9	8.2
Nepal Netherlands ^a	18.5	12.6	5.7		7.3	2.4	11.9 3.3	2.7	14.4	8.5 2.8	3.2 9.3	3.8 1.5
New Zealand	 12.5	 5.6	4.2	14.6	-1.6	0.5	3.3 11.7	2.3 5.8	11.8 16.0	10.4	13.3	6.4
Nicaragua	7,677.8	17.2	4,932.9	15.2	***************************************	-6.0	9.5	4.7	22.0	13.5	-97.6	3.0
Niger	-4.1	19.7	-5.1	9.5	1.4	10.7	7.0	3.5	16.0		17.9	5.0
Nigeria	32.7	14.0	7.8	15.7	26.3	-38.1	19.8	13.7	25.3	19.2	16.9	-0.6
Norway	5.6	3.4	5.0	10.4	-0.1	-5.4	9.7	1.5	14.2	4.0	9.9	-0.8
Oman	10.0	4.0	9.6	7.0	-10.9	-4.2	8.3	2.3	9.7	7.6	-12.1	-1.4
Pakistan	11.6	20.5	5.0	18.6	7.6	4.1						
Panama	36.6	8.4	0.8	6.6	-25.7	4.8	8.4	2.2	12.0	8.8	11.4	8.3
Papua New Guinea	4.3	12.4	-1.1	-2.0	8.6	3.9	8.7	1.7	15.5	13.3	10.9	12.5
Paraguay	54.4	14.2	32.0	6.6	-9.2	-1.4	22.9	5.1	31.0	33.5	-3.9	22.3
Peru	6,384.9	3.1	2,123.7	-0.2	2,127.1	-4.8	2,439.6	3.0	4,774.5	14.5	-29.7	8.3
Philippines	22.4	9.9	15.6	5.0	3.4	5.9	19.5	6.2	24.1	10.1	9.9	3.7
Poland	160.1	6.9	158.7	2.5	-20.6	-1.2	41.7	3.8	504.2	7.6	-0.4	4.5
Portugal ^a	···	···					14.0		21.8		7.6	
Puerto Rico												



4.13 Monetary indicators

	Mone quasi i	-	Claim private		Claim governme other p entit	ents and public			Interes	st rate		
	annual % 1990	6 growth 2004	Annual % of 1990	_	Annual % of 1990	_	Depo	osit 2004	9 Lend 1990		Re 1990	eal 2004
Di-												
Romania	26.4	39.9		12.8	51.2	-10.5	•••		••			
Russian Federation Rwanda	 5.6	33.7 15.4	-10.0	33.7 8.4	26.8	-16.9 13.3	6.9	3.8		11.4		-5.6
	5.6 4.6	•	•		4.2		•	8.1	13.2		-0.3	
Saudi Arabia		17.3	-4.5	20.6		-10.3	8.0	1.7		••		
Senegal	-4.8	12.2	-8.4	5.5	-5.3	-3.1	7.0	3.5	16.0		14.6	
Serbia and Montenegro												
Sierra Leone	74.0	20.1	4.9	9.2	228.7	-10.5	40.5	10.1	52.5	22.1	-10.6	5.3
Singapore	20.0	6.2	13.7	4.0	-4.9	-2.1	4.7	0.4	7.4	5.3	2.8	1.7
Slovak Republic		6.8	···	3.2		3.2	8.0	4.1	14.4	9.1	-11.0	4.3
Slovenia	123.0	7.6	96.1	15.4	-10.4	2.7	682.5	3.8	824.6	8.7	374.3	5.5
Somalia	<u></u>											
South Africa	11.4	13.7	13.7	13.7	1.8	-0.2	18.9	6.6	21.0	11.3	4.7	5.1
Spain ^a							10.7	2.5	16.0	4.3	8.1	-0.1
Sri Lanka	19.9	19.6	16.2	15.8	4.4	6.3	19.4	5.1	13.0	9.5	-5.9	0.1
Sudan	48.8	30.8	12.6	19.3	29.4	-9.5						
Swaziland	0.6	10.4	20.5	23.0	-13.1	4.8	8.7	4.6	14.5	11.3	-0.4	5.7
Sweden	0.8	2.4	13.6	13.4	-12.2	16.0	9.9	1.0	16.7	4.0	7.3	3.2
Switzerland	0.8	2.9	11.7	4.7	1.0	0.0	8.3	0.4	7.4	3.2	2.9	2.7
Syrian Arab Republic	26.1	7.8	3.4	3.0	11.4	2.5	4.0	4.0	9.0	9.0	-8.7	10.6
Tajikistan		9.8		102.8		-13.8		9.7		20.3		2.9
Tanzania	41.9	19.2	22.6	10.2	80.6	-2.5	17.0	4.2	31.0	13.9	8.6	9.5
Thailand	26.7	5.1	30.0	4.4	-4.0	0.6	12.3	1.0	14.4	5.5	8.2	2.1
Togo	9.5	18.1	1.8	2.8	6.9	-3.7	7.0	3.5	16.0		12.6	
Trinidad and Tobago	6.2	14.1	2.7	14.5	-1.9	-19.8	6.0	2.8	12.9	9.3	-2.3	-2.8
Tunisia	7.6	11.3	5.9	10.9	1.8	2.3	7.4		4.8		-3.7	
Turkey	53.2	22.1	42.9	18.5	0.1	6.0	47.5	24.3				
Turkmenistan		23.8		3.4		-10.3						
Uganda	60.2	11.1	23.3	3.5	0.8	-4.6	31.3	7.7	38.7	20.6	-4.0	13.8
Ukraine	1,809.2	32.8	78.3	22.4	1,554.7	-2.0	148.6	7.8	184.3	17.4	-91.7	2.0
United Arab Emirates	-8.2	23.8	1.3	19.7	-4.8	-0.3		3.6		8.1		18.4
United Kingdom	10.5	10.3	13.1	14.1	1.9	0.7	12.5		14.8	4.4	6.7	2.2
United States	4.9	3.0	-0.4	8.9	1.4	-0.5			10.0	4.3	5.9	1.7
Uruguay	118.5	-1.7	56.2	-11.9	25.5	1.5	147.5	6.2	163.8	23.7	27.5	15.1
Uzbekistan												
Venezuela, RB	64.9	46.9	17.6	37.6	45.3	-8.2	27.8	12.6	35.5	18.5	-4.4	-9.7
Vietnam	12.3	31.1	19.6	32.6	23.7	-6.5	22.0	6.6	32.2	9.5	12.6	2.6
West Bank and Gaza								2.0				
Yemen, Rep.	11.3	14.6	1.4	5.9	10.2	-2.4	•••	13.0		18.5		3.6
Zambia	47.9	32.1	22.8	16.4	195.2	13.0	25.7	11.5	 35.1	30.7	-34.5	8.7
Zimbabwe	15.1	229.3	13.5	103.2	5.0	180.7	8.8	103.2	11.7	278.9	-2.6	-15.8

a. As members of the European Monetary Union, these countries share a single currency, the euro.

Money and the financial accounts that record the supply of money lie at the heart of a country's financial system. There are several commonly used definitions of the money supply. The narrowest, M1, encompasses currency held by the public and demand deposits with banks, M2 includes M1 plus time and savings deposits with banks that require a notice for withdrawal, M3 includes M2 as well as various money market instruments, such as certificates of deposit issued by banks, bank deposits denominated in foreign currency, and deposits with financial institutions other than banks. However defined, money is a liability of the banking system, distinguished from other bank liabilities by the special role it plays as a medium of exchange, a unit of account, and a store of value.

The banking system's assets include its net foreign assets and net domestic credit. Net domestic credit includes credit extended to the private sector and general government and credit extended to the nonfinancial public sector in the form of investments in short- and long-term government securities and loans to state enterprises; liabilities to the public and private sectors in the form of deposits with the banking system are netted out. Net domestic credit also includes credit to banking and nonbank financial institutions.

Domestic credit is the main vehicle through which changes in the money supply are regulated, with central bank lending to the government often playing the most important role. The central bank can regulate lending to the private sector in several ways-for example, by adjusting the cost of the refinancing facilities it provides to banks, by changing market interest rates through open market operations, or by controlling the availability of credit through changes in the reserve requirements imposed on banks and ceilings on the credit provided by banks to the private sector.

Monetary accounts are derived from the balance sheets of financial institutions—the central bank. commercial banks, and nonbank financial intermediaries. Although these balance sheets are usually reliable, they are subject to errors of classification, valuation, and timing and to differences in accounting practices. For example, whether interest income is recorded on an accrual or a cash basis can make a substantial difference, as can the treatment of nonperforming assets. Valuation errors typically arise with respect to foreign exchange transactions, particularly in countries with flexible exchange rates or in those that have undergone a currency devaluation during the reporting period. The valuation of financial derivatives and the net liabilities of the banking system can also be difficult. The quality of commercial bank reporting also may be adversely affected by delays in reports from bank branches, especially in countries where branch accounts are not computerized. Thus the data in the balance sheets of commercial banks may be based on preliminary estimates subject to constant revision. This problem is likely to be even more serious for nonbank financial intermediaries.

Many interest rates coexist in an economy, reflecting competitive conditions, the terms governing loans and deposits, and differences in the position and status of creditors and debtors. In some economies interest rates are set by regulation or administrative fiat. In economies with imperfect markets, or where reported nominal rates are not indicative of effective rates, it may be difficult to obtain data on interest rates that reflect actual market transactions. Deposit and lending rates are collected by the International Monetary Fund (IMF) as representative interest rates offered by banks to resident customers. The terms and conditions attached to these rates differ by country, however, limiting their comparability. Real interest rates are calculated by adjusting nominal rates by an estimate of the inflation rate in the economy. A negative real interest rate indicates a loss in the purchasing power of the principal. The real interest rates in the table are calculated as (i - P) / (1 + P), where i is the nominal lending interest rate and P is the inflation rate (as measured by the GDP deflator).

Definitions

Monetary indicators

• Money and quasi money comprise the sum of currency outside banks, demand deposits other than those of the central government, and the time, savings, and foreign currency deposits of resident sectors other than the central government. This definition of the money supply, often called M2. corresponds to lines 34 and 35 in the IMF's International Financial Statistics (IFS). The change in money supply is measured as the difference in endof-year totals relative to M2 in the preceding year. • Claims on private sector (IFS line 32d) include gross credit from the financial system to individuals, enterprises, nonfinancial public entities not included under net domestic credit, and financial institutions not included elsewhere. • Claims on governments and other public entities (IFS line 32an + 32b + 32bx + 32c) usually comprise direct credit for specific purposes, such as financing the government budget deficit: loans to state enterprises; advances against future credit authorizations; and purchases of treasury bills and bonds, net of deposits by the public sector. Public sector deposits with the banking system also include sinking funds for the service of debt and temporary deposits of government revenues. • Deposit interest rate is the rate paid by commercial or similar banks for demand, time, or savings deposits. • Lending interest rate is the rate charged by banks on loans to prime customers. • Real interest rate is the lending interest rate adjusted for

Data sources

Monetary and financial data are published by the IMF in its monthly International Financial Statistics and annual International Financial Statistics Yearbook. The IMF collects data on the financial systems of its member countries. The World Bank receives data from the IMF in electronic files that may contain more recent revisions than the published sources. The discussion of monetary indicators draws from an IMF publication by Marcello Caiola, A Manual for Country Economists (1995). Also see the IMF's Monetary and Financial Statistics Manual (2000) for guidelines for the presentation of monetary and financial statistics. World Bank data on the GDP deflator are used to derive real interest rates.

inflation as measured by the GDP deflator.



		icial nge rate	powe (P conv	hasing r parity PP) ersion ctor	Ratio of PPP conversion factor to official exchange rate	Real effective exchange rate	GDP in defla	nplicit ator	Consumo inde	-	Wholesal inde	-
		currency s to \$		rency units national \$		Index 2000 = 100	average % gro		average % gro		average :	
	2004	2005	1990	2004	2004	2004	1990-2000	2000-04	1990-2000	2000-04	1990-2000	2000-04
Afghanistan	47.85	541.20						8.5				
Albania	102.78	94.58ª	2.0	49.5	0.5		23.9	4.2	17.3	3.5	<u> </u>	
Algeria Angola	72.06 83.54	73.28 85.64 ^a	5.0 0.0	29.0 52.1	0.4 0.6	85.9	14.1 459.4	6.0 94.1	11.6 446.2	2.8 97.7	0.5	0.4
Argentina	2.92	2.90	0.3	0.9	0.3		5.2	13.3	7.1	12.0	7.0	26.9
Armenia	533.45	457.69	0.0	147.1	0.3	80.7	102.5	3.0	31.4	2.4	3.1	1.0
Australia	1.36	1.31	1.4	1.4	1.0	121.9	2.0	3.1	2.4	3.1	1.3	1.6
Austria ^b	0.81	0.80	0.9	0.9	1.1	105.6	1.5	1.6	2.0	1.9	0.7	1.6
Azerbaijan	4,913.48	4,727.10		1,211.5	0.2		100.6	4.5	76.8	3.1		
Bangladesh	59.51	64.33	9.5	12.7 728.2	0.2		3.7 224.9	4.2	4.9	3.7	160 6	
Belarus Belgium ^b	2,160.26 0.81	2,153.82 0.80	0.0 0.9	0.9	1.1	 106.5	224.9 1.8	41.6 1.9	<i>163.7</i> 1.9	36.3 1.9	<i>168.6</i> 1.6	41.7 0.9
Benin	528.29	527.47	159.8	277.2	0.5		6.7	3.2	6.0	2.2		
Bolivia	7.94	8.07	1.3	2.9	0.4	80.1	7.0	4.8	6.6	2.5		
Bosnia and Herzegovina	1.58	1.57		0.5	0.3		3.3	3.6				
Botswana	4.69	5.11	1.2	2.5	0.5		8.4	6.2	9.4	7.9		
Brazil	2.93	2.43	0.0	1.2	0.4		102.7	10.6	98.3	9.6	105.4	18.3
Bulgaria Burkina Faso	1.58 528.29	1.57 527.47	0.0 135.5	0.6 169.1	0.4 0.3	121.6	67.5 4.5	4.0 3.0	75.1 4.3	5.1 2.2	60.7	3.8
Burundi	1,100.91	1,106.17 ^a	49.4	145.9	0.3	63.2	11.7	6.6	13.9	5.7		
Cambodia	4,016.25	4,092.50		576.9	0.1		2.9	2.1	4.0	2.0		
Cameroon	528.29	527.47	171.0	221.6	0.4	112.7	4.1	2.3	5.5		•••	
Canada	1.30	1.21	1.3	1.3	1.0	111.1	1.7	2.1	1.9	2.4	2.2	0.5
Central African Republic	528.29	527.47	135.9	158.3	0.3	111.7	3.7	2.2	4.1	2.3	6.0	5.3
Chad	528.29	527.47	107.3	113.3	0.2		6.5	5.3	5.6	2.3		
Chile China	609.37 8.28	560.09 8.19	148.7 1.3 ^c	312.9 1.9 ⁰	0.5 0.2 ^c	83.0 95.0	7.0 5.5	5.0 2.7	6.7 5.5	2.5 1.0	6.7	6.1
Hong Kong, China	7.79	7.78	6.4	6.0	0.2	95.0	1.1	-3.9	3.0	-2.1	0.0	-0.8
Colombia	2,628.61	2,320.75	117.9	793.5	0.3	88.4	16.9	7.1	16.1	6.8	13.9	7.2
Congo, Dem. Rep.	401.04	441.74ª	0.0	66.6	0.2	32.0	523.0	55.8	496.4	53.0		
Congo, Rep.	528.29	527.47	385.8	606.3	1.1		7.5	-2.8	6.7	1.6		
Costa Rica	437.91	477.79	32.8	202.3	0.5	91.0	14.4	9.2	13.7	10.3	12.6	10.5
Côte d'Ivoire	528.29 6.04	527.47 5.95	167.1	320.7 3.8	0.6	117.6	6.7 46.4	2.9 3.3	5.6 <i>19.7</i>	3.1 2.3		
Croatia Cuba	6.04	5.95	0.0	3.8	0.6	104.7	40.4	3.3	19.7	2.3	44.3	1.4
Czech Republic	25.70	23.96	7.4	13.9	0.5	 115.8	9.1	3.2	5.6	2.1	5.8	1.4
Denmark	5.99	6.00	8.3	8.4	1.4	109.5	2.0	1.9	2.2	2.1	1.3	0.9
Dominican Republic	42.12	30.41	2.5	12.1	0.3	79.3	10.2	20.6	9.8	20.7		
Ecuador	1.00	1.00	0.4	0.6	0.6	146.4	4.0	11.9	36.0	13.6	38.5	5.9
Egypt, Arab Rep.	6.20	5.78	0.8	1.6	0.3	••	6.7	4.9	6.8	4.8	5.6	9.7
El Salvador Eritrea	8.75 13.79	8.75 13.79 ^a	2.4 1.0	4.0 2.7	0.5 0.2	••	4.9 <i>10.8</i>	2.7 15.8	6.2	2.8		1.8
Estonia	12.60	12.58	0.1	7.3	0.6		31.5	3.7	13.3	3.2	4.9	1.6
Ethiopia	8.64	8.64ª	0.7	1.2	0.1		5.1	1.9	4.0	4.4		
Finland ^b	0.81	0.80	1.0	1.0	1.2	106.1	2.0	1.1	1.6	1.3	1.0	-0.1
France ^b	0.81	0.80	1.0	0.9	1.1	107.8	1.3	1.8	1.6	2.0		0.9
Gabon	528.29	527.47	339.4	413.9	0.8	108.2	4.9	1.2	3.3	1.2		
Gambia, The	30.03	29.81ª	1.8	4.3	0.1	51.1	6.9	18.9	4.8	10.9		
Georgia Germany ^b	1.92 0.81	1.81 0.80	0.0 1.0	0.7 0.9	0.4 1.2	 108.1	156.4 1.3	5.8 1.0	13.9 1.7	5.2 1.5	0.8	1.3
Ghana	9,004.63	9,072.54	95.6	1,592.3	0.2	108.1	26.0	25.0	26.3	21.3	•••••	•
Greeceb	0.81	0.80	0.3	0.7	0.8	111.3	7.1	3.6	6.8	3.4	3.4	2.8
Guatemala	7.95	7.63	1.4	4.1	0.5		9.1	7.2	8.8	7.1		
Guinea	2,225.03	2,550.00ª	223.9	493.6	0.2		5.8	8.7				
Guinea-Bissau	528.29	527.47	11.0	133.9	0.3		20.5	0.0	22.1	0.7		
Haiti	38.35	40.45	1.1	9.7	0.3		19.0	15.1	19.7	21.6		

Exchange rates and prices 4.14

		s to \$	powe (P conv	hasing r parity PP) ersion ctor	Ratio of PPP conversion factor to official exchange rate	Real effective exchange rate	GDP in defla	-	Consum	•	Wholesal inde	-
		currency s to \$ 2005	1	rency units national \$ 2004	2004	Index 2000 = 100 2004	average % gro 1990–2000	wth	average % gro	wth	average a	wth
						2004					1330-2000	2000-04
Honduras	18.21	18.83	1.3	6.7	0.4		15.4	7.3	15.7	8.2		
Hungary India	202.75 45.32	199.58 44.10	20.9 4.8	120.6 9.2	0.6 0.2	131.4	15.4 6.6	7.4 3.9	15.9 7.5	6.2 3.9	12.7 6.3	1.9 4.7
Indonesia	8,938.85	9,704.74	639.3	2,953.7	0.2		16.1	7.9	13.5	9.1	15.2	5.9
Iran, Islamic Rep.	8,613.99	8,963.96	179.5	2,775.3	0.3	 122.1	24.3	18.9	22.0	14.4	22.1	9.3
Iraq	0.31							0.3				
Ireland ^b	0.81	0.80	0.8	0.9	1.1	118.5	3.8	3.6	2.8	3.9	1.4	-0.9
Israel	4.48	4.49	1.5	3.2	0.7	77.2	7.5	1.7	7.1	2.0	6.4	3.5
Italy ^b	0.81	0.80	0.7	0.8	1.0	111.0	3.3	2.9	3.2	2.5	2.5	1.3
Jamaica	61.20	62.28	4.9	46.8	0.8		18.1	10.6	17.3	9.3		
Japan	108.19	110.22	186.2	132.5	1.2	81.6	-0.5	-1.5	0.3	-0.5	-1.0	-1.1
Jordan	0.71	0.71	0.3	0.3	0.5		2.5	2.0	2.8	2.1		
Kazakhstan	136.04	132.88	0.0	49.4	0.4		104.4	9.2	33.6	6.7	12.6	6.1
Kenya	79.17	75.55	9.0	35.8	0.5		12.2	4.0	12.0	6.9		
Korea, Dem. Rep.					<u></u>			···			······	<u></u> -
Korea, Rep.	1,145.32	1,024.12	543.9	793.8	0.7		4.5	2.9	4.4	3.4	2.9	1.7
Kuwait	0.30	0.29	0.4	0.3	1.0	••	3.0	4.8	1.8	1.1	1.2	2.0
Kyrgyz Republic Lao PDR	42.65	41.01	0.0	9.6	0.2		63.7	4.2	14.7	3.7	25.0	6.9
Latvia	0.54	10,655.17 0.56	174.2 0.0	2,296.5 0.3	0.2 0.5		27.9 27.9	11.1 3.9	29.0 17.0	11.5 3.2	 6.9	3.3
Lebanon	1,507.50	1,507.50	305.4	1,354.5	0.9	••	11.1	2.7		3.2	0.9	
Lesotho	6.46	6.36	1.0	1,354.5	0.3	 88.7	9.0	6.3	8.7	11.1		
Liberia	54.91	57.10		•			49.7	12.9				
Libya	1.31	1.31						16.3	1.9	-5.9		
Lithuania	2.78	2.77	0.0	1.4	0.5		40.1	0.4	16.7	0.2	12.9	-0.5
Macedonia, FYR	49.41	49.28	0.0	19.6	0.4	98.5	42.9	2.4	6.3	2.0	5.5	0.5
Madagascar	1,868.86	2,003.03	102.7	553.1	0.3		15.3	9.6	15.1	8.3		
Malawi	108.90	108.94ª	1.4	27.9	0.3	74.6	29.9	15.0	29.7	14.0		
Malaysia	3.80	3.79	1.5	1.8	0.5	91.9	3.4	2.8	3.0	1.4	2.9	3.8
Mali	528.29	527.47	140.7	209.0	0.4	••	5.7	4.7	4.0	1.5		
Mauritania	265.23 ⁸	ı	36.0	55.2	0.2		6.9	7.0	5.6	5.7		••
Mauritius	27.50	29.50	6.5	11.3	0.4		5.8	5.3	6.3	5.1		
Mexico	11.29	10.90	1.4	7.5	0.7		15.8	7.0	15.7	5.1	15.0	6.6
Moldova	12.33	12.60	0.0	4.4	0.4	97.6	70.0	11.4	17.0	9.5		
Mongolia	1,185.28	1,211.77ª	2.3	352.7	0.3		34.6	10.8	26.3	4.7		
Morocco	8.87	8.87	3.2	3.5	0.4	92.9	2.1	0.8	2.9	1.5	2.2	-0.6
Mozambique Myanmar		23,060.98	316.9	5,312.1	0.2		23.7	13.5	23.4	13.4		
Myanmar Namibia	5.75 6.46	5.76 6.36	1.0	2.7	0.4	••	24.6 9.8	 6.5	25.7	31.8		
Nepal	73.67	71.37	6.8	13.2	0.4	••	9.8 6.6	6.5 3.8	7.0	3.7	••	••
Netherlands ^b	0.81	0.80	0.9	0.9	1.1	 111.9	2.4	3.6	2.6	2.7	1.6	2.0
New Zealand	1.51	1.42	1.6	1.6	1.1	128.5	1.9	2.4	1.9	2.3	1.8	1.3
Nicaragua	15.94	16.73	0.0	3.7	0.2	82.6	26.5	6.5	20.4	5.9		
Niger	528.29	527.47	121.2	160.7	0.3		4.9	1.9	4.6	1.1		
Nigeria	132.89	132.36 ^a	3.7	61.6	0.5	107.2	23.2	15.3	24.5	14.9		
Norway	6.74	6.44	8.2	9.6	1.4	106.0	3.2	1.4	2.2	1.8	1.3	0.6
Oman	0.39	0.38	0.3	0.2			1.2	1.8	0.1	-0.5		
Pakistan	58.26	59.51	6.2	16.5	0.3	91.3	10.2	5.1	7.7	4.0	8.4	5.4
Panama	1.00	1.00	0.6	0.6	0.6		2.6	0.9	1.1	0.9	0.8	-0.2
Papua New Guinea	3.22	3.14ª	0.5	0.9	0.3	99.2	7.5	7.4	10.3	10.1		
Paraguay	5,974.58	6,177.96	400.1	1,513.4	0.3	73.6	11.3	12.4	11.5	9.7	12.2	15.9
Peru	3.41	3.30	0.1	1.5	0.4		16.3	2.3	16.6	1.9	14.6	1.5
Philippines	56.04	55.09	5.6	12.8	0.2	79.6	7.5	4.5	6.7	4.5	7.9	8.1
Poland	3.66	3.24	0.2	1.8	0.5	99.8	16.6	2.0	17.5	2.6	13.6	2.9
Portugal ^b	0.81	0.80	0.4	0.7	0.8	109.9	4.6	3.5	3.9	3.4		1.5
Puerto Rico			0.7			••	3.1	••				



4.14 Exchange rates and prices

Property for the pr			ficial nge rate	powe (P conv	hasing r parity PP) ersion ctor	Ratio of PPP conversion factor to official exchange rate	Real effective exchange rate	GDP ir defla	•	Consum- ind	-	Wholesa inde	-
Romania 32,636.57 29,136.53 6.6 13,095.7 0.4 10.99 71.8 23.3 72.3 20.4 69.5 24.0 20.0		unit	ts to \$	to interi	national \$		2000 = 100	% gro	owth	% gro	wth	% gro	wth
Russian Federation 28.81 28.28 30.0 11.9 0.4 136.5 94.7 15.8 50.4 15.3 37.9 0.3 Rawanda 574.6 555.94 31.9 95.0 0.2 10.3 5.0 11.7 5.7 0.8 Sanudi Arabia 3.75 52.8 22.9 0.4 40.0 19.0 30.9 14.0 Sengal 528.29 527.47 18.51 222.0 0.4 40.0 19.0 30.9 1.4 Serbia and Monteneror Serbia and Monteneror Siera Leone 2,701.30 2,889.59 29.5 563.4 0.2 74.4 25.8 13.1 20.9 4.4 Singapore 1.69 1.68 1.8 1.5 0.9 92.8 0.6 0.5 13.3 0.6 0.0 0.8 Siowak Republic 32.26 30.02 5.9 16.9 0.5 97.4 8.9 4.3 8.1 6.5 7.8 5.1												• · · · · · · · · · · · · · · · · · · ·	
Remain										·· · ····		•	
Saudi Arabia 3,75 3,75 2,8 2,9 0,8 82.3 2,2 4,0 0,5 0,1 0,9 0.8		·····			•		136.5			··•····	.*	37.9	-13.3
Serbia and Montenegro		·····	······		•			·· ·· ·····		··•···	•••••	• · · · · · · · · · · · · · · · · · · ·	
Serbia and Montenegro							82.3			·· · ····	•••••	0.9	0.8
Serra Leone 1.69 1.66 1.8 1.5 0.9 92.8 0.6 0.5 1.3 0.6 0.0 0.8 0.5		528.29	527.47	185.1	222.0	0.4		·· · ····		3.9	1.4		
Singapore 1.69 1.66 1.8 1.5 0.9 92.8 0.6 0.5 1.3 0.6 0.0 0.8		······			•			·· - ······		··•···	· ·· ·····	•••	
Slovak Republic 32.26 31.02 5.9 16.9 0.5 97.4 8.9 4.3 8.1 6.5 7.8 5.1	Sierra Leone							·· ·· ····		·· · ····		•	
Slovenia 192.38 192.71 16.0 149.2 0.8 19.2 6.4 9.7 6.3 7.5 4.9 Somalia	Singapore		······	1.8	1.5		92.8		0.5	1.3	0.6	0.0	0.8
Somalia	Slovak Republic	32.26	31.02	5.9	16.9	0.5	97.4	8.9	4.3	··•···	6.5	7.8	5.1
South Africa 6.46 6.36 1.0 2.7 0.4 107.8 9.0 7.1 7.7 5.9 7.3 6.4 Spain ^b 0.81 0.80 0.6 0.8 0.9 111.6 3.8 4.2 3.4 3.2 2.2 1.7 Sri Lanka 101.19 100.50 10.2 25.0 0.2 8.9 8.5 9.5 9.1 7.6 8.9 Sudan 257.91 243.61 0.7 78.4 0.3 43.8 8.3 46.1 8.0 Swaden 7.35 7.47 9.1 9.6 1.3 100.7 1.9 1.8 1.7 1.8 2.2 1.0 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.2 1.2 1.0 3.2 1.0 3.0 2.0 3.2 4.9 3.2 1.0 3.0 3.0 3.0	Slovenia	192.38	192.71	16.0	149.2	0.8		19.2	6.4	9.7	6.3	7.5	4.9
Spainb 0.81 0.80 0.6 0.8 0.9 111.6 3.8 4.2 3.4 3.2 2.2 1.7 Sri Lanka 101.19 100.50 10.2 25.0 0.2 8.9 8.5 9.5 9.1 7.6 8.9 Sudan 257.91 243.61 0.7 78.4 0.3 43.8 8.3 46.1 8.0 Swaziland 6.46 6.36 0.8 2.8 0.4 11.9 10.5 9.2 8.7 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrigan Arab Republic 11.23 11.22 10.5 1.5 6.6 3.2 4.9 3.2 1.7 Tajkistan 2.97 3.12 0.0 0.8 0.3 136.2 23.9 3.2	Somalia		·-					••					
Sri Lanka 101.19 100.50 10.2 25.0 0.2 8.9 8.5 9.5 9.1 7.6 8.9 Sudan 257.91 243.61 0.7 78.4 0.3 41.8 8.3 46.1 8.0 Swazlland 6.46 6.36 0.8 2.8 0.4 11.9 10.5 9.2 8.7 Swazlland 6.46 6.36 0.8 2.8 0.4 11.9 10.5 9.2 8.7 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrian Arab Republic 11.23 11.23 10.2 16.5 1.5 1.66 3.2 4.9 <t< td=""><td>South Africa</td><td>6.46</td><td>6.36</td><td>1.0</td><td>2.7</td><td>0.4</td><td>107.8</td><td>9.0</td><td>7.1</td><td>7.7</td><td>5.9</td><td>7.3</td><td>6.4</td></t<>	South Africa	6.46	6.36	1.0	2.7	0.4	107.8	9.0	7.1	7.7	5.9	7.3	6.4
Sudan 257.91 243.61 0.7 78.4 0.3 43.8 8.3 46.1 8.0 Swazillard 6.46 6.36 0.8 2.8 0.4 11.9 10.5 9.2 8.7 Sweden 7.35 7.47 9.1 9.6 1.3 1007 1.9 1.8 1.7 1.8 2.2 1.0 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrjan Arab Republic 11.23 11.23 11.23 10.2 16.5 1.5 6.6 3.2 4.9 3.2 Tajikistan 2.97 3.12 0.0 0.8 0.3 136.2 23.9 Tanzania 1,089.34 1,128.93 75.7 488.8 0.4 1.65 5.9 14.9 <td>Spain^b</td> <td>0.81</td> <td>0.80</td> <td>0.6</td> <td>0.8</td> <td>0.9</td> <td>111.6</td> <td>3.8</td> <td>4.2</td> <td>3.4</td> <td>3.2</td> <td>2.2</td> <td>1.7</td>	Spain ^b	0.81	0.80	0.6	0.8	0.9	111.6	3.8	4.2	3.4	3.2	2.2	1.7
Swaziland 6.46 6.36 0.8 2.8 0.4 11.9 10.5 9.2 8.7 Sweden 7.35 7.47 9.1 9.6 1.3 100.7 1.9 1.8 1.7 1.8 2.2 1.0 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrjan Arab Republic 11.23 11.23 10.2 16.5 1.5 6.6 3.2 4.9	Sri Lanka	101.19	100.50	10.2	25.0	0.2		8.9	8.5	9.5	9.1	7.6	8.9
Sweden 7.35 7.47 9.1 9.6 1.3 100.7 1.9 1.8 1.7 1.8 2.2 1.0 Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrian Arab Republic 11.23 11.23 10.2 16.5 1.5 . 6.6 3.2 4.9 . 3.2 . Tajikistan 2.97 3.12 0.0 0.8 0.3 . 16.5 5.9 14.9 2.4 .	Sudan	257.91	243.61	0.7	78.4	0.3		43.8	8.3	46.1	8.0		
Switzerland 1.24 1.25 2.0 1.8 1.5 105.4 0.9 1.0 1.3 0.7 -0.3 0.2 Syrian Arab Republic 11.23 11.23 11.23 10.2 16.5 1.5 6.6 3.2 4.9 3.2 Tajikistan 2.97 3.12 0.0 0.8 0.3 136.2 23.9	Swaziland	6.46	6.36	0.8	2.8	0.4		11.9	10.5	9.2	8.7		
Syrian Arab Republic 11.23 11.23 10.2 16.5 1.5 6.6 3.2 4.9 3.2 Tajikistan 2.97 3.12 0.0 0.8 0.3 136.2 23.9 Tanzania 1,089.34 1,128.93 75.7 488.8 0.4 16.5 5.9 14.9 2.4 Thailand 40.22 40.22 10.8 12.75 0.2 112.8 5.0 0.7 6.1 1.5 Togo 528.29 527.47 93.8 127.5 0.2 112.8 5.0 0.7 6.1 1.5 <	Sweden	7.35	7.47	9.1	9.6	1.3	100.7	1.9	1.8	1.7	1.8	2.2	1.0
Tajikistan 2.97 3.12 0.0 0.8 0.3 136.2 23.9	Switzerland	1.24	1.25	2.0	1.8	1.5	105.4	0.9	1.0	1.3	0.7	-0.3	0.2
Tanzania 1,089.34 1,128.93 75.7 488.8 0.4 16.5 5.9 14.9 2.4 Thailand 40.22 40.22 10.8 12.9 0.3 3.2 1.8 3.9 1.6 3.6 3.5 Togo 528.29 527.47 93.8 127.5 0.2 112.8 5.0 0.7 6.1 1.5	Syrian Arab Republic	11.23	11.23	10.2	16.5	1.5		6.6	3.2	4.9		3.2	
Tanzania 1,089.34 1,128.93 75.7 488.8 0.4 16.5 5.9 14.9 2.4 Thailand 40.22 40.22 10.8 12.9 0.3 3.2 1.8 3.9 1.6 3.6 3.5 Togo 528.29 527.47 93.8 127.5 0.2 112.8 5.0 0.7 6.1 1.5 Trinidad and Tobago 6.30 6.28 3.1 5.0 0.8 101.5 5.2 3.6 5.1 4.2 2.3 1.3 Tunisia 1.25 1.30 0.4 0.5 0.4 90.3 3.8 2.4 3.8 2.7 3.1 2.6 Turkey 1.43d 1.34d-1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 Ughanda 1,810.31 1,780.67 109.1 327.9 0.2 82.7 8.3 3.8	Tajikistan	2.97	3.12	0.0	0.8	0.3		136.2	23.9			•••	
Thailand 40.22 40.22 10.8 12.9 0.3 3.2 1.8 3.9 1.6 3.6 3.5 Togo 528.29 527.47 93.8 127.5 0.2 112.8 5.0 0.7 6.1 1.5 Trinidad and Tobago 6.30 6.28 3.1 5.0 0.8 101.5 5.2 3.6 5.1 4.2 2.3 1.3 Tunisia 1.25 1.30 0.4 0.5 0.4 90.3 3.8 2.4 3.8 2.7 3.1 2.6 Turkey 1.43 ^d 1.34 ^d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6	Tanzania	1,089.34	1,128.93	75.7	488.8	0.4		16.5	5.9	14.9	2.4		••••••
Trinidad and Tobago 6.30 6.28 3.1 5.0 0.8 101.5 5.2 3.6 5.1 4.2 2.3 1.3 Tunisia 1.25 1.30 0.4 0.5 0.4 90.3 3.8 2.4 3.8 2.7 3.1 2.6 Turkey 1.43d 1.34d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 Turkey 1.43d 1.34d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 <td< td=""><td>Thailand</td><td></td><td></td><td>10.8</td><td>12.9</td><td>0.3</td><td></td><td>·······</td><td>1.8</td><td></td><td>1.6</td><td>3.6</td><td></td></td<>	Thailand			10.8	12.9	0.3		·· · ····	1.8		1.6	3.6	
Trinidad and Tobago 6.30 6.28 3.1 5.0 0.8 101.5 5.2 3.6 5.1 4.2 2.3 1.3 Tunisia 1.25 1.30 0.4 0.5 0.4 90.3 3.8 2.4 3.8 2.7 3.1 2.6 Turkey 1.43d 1.34d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 Turkey 1.43d 1.34d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 <td< td=""><td>Togo</td><td>528.29</td><td>527.47</td><td>93.8</td><td>127.5</td><td>0.2</td><td>112.8</td><td>5.0</td><td>0.7</td><td>6.1</td><td>1.5</td><td></td><td></td></td<>	Togo	528.29	527.47	93.8	127.5	0.2	112.8	5.0	0.7	6.1	1.5		
Tunisia 1.25 1.30 0.4 0.5 0.4 90.3 3.8 2.4 3.8 2.7 3.1 2.6 Turkey 1.43 ^d 1.34 ^d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 Turkmenistan 0.0 1,931.0 329.1	***************************************	······	······		•	••		·· · ·····		·· * ·····	•••••	•	••••••
Turkey 1.43 ^d 1.34 ^d 1,560.9 778,515.9 0.5 65.0 31.9 68.4 32.6 <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><td></td></th<>								-		·· · ····		•	
Turkmenistan 0.0 1,931.0 329.1	***************************************			1.560.9	778.515.9						•••••	•	•
Uganda 1,810.31 1,780.67 109.1 327.9 0.2 82.7 8.3 3.8 7.4 3.3 Ukraine 5.32 5.12 0.0 1.1 0.2 81.7 133.5 8.9 73.3 5.9 75.5 8.9 United Arab Emirates 3.67 3.67 3.4 2.7 2.7 United Kingdom 0.55 0.55 0.5 0.6 1.2 100.8 2.7 2.8 2.7 2.3 1.7 0.9 United States 1.00 1.00 1.0 1.0 92.6 1.9 2.1 2.6 2.3 1.4 2.3 Uruguay 28.70 24.48 0.6 11.8 0.4 59.6 22.4 13.4 23.9 12.6 22.1 24.8 Uzbekistan 0.0 251.3 144.3 33.1 <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><td></td></th<>					•			·· ·· ·····					
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United Arab Emirates 3.67 3.67 3.4 2.7 2.7 2.7 2.8 2.7 2.3 1.7 0.9 United Kingdom 0.55 0.55 0.5 0.6 1.2 100.8 2.7 2.8 2.7 2.3 1.7 0.9 United States 1.00 1.00 1.0 1.0 92.6 1.9 2.1 2.6 2.3 1.4 2.3 Uruguay 28.70 24.48 0.6 11.8 0.4 59.6 22.4 13.4 23.9 12.6 22.1 24.8 Uzbekistan 0.0 251.3 144.3 33.1			······		•			·· · ·····		·····		• · · · · · · · · · · · · · · · · · · ·	8.9
United Kingdom 0.55 0.55 0.5 0.6 1.2 100.8 2.7 2.8 2.7 2.3 1.7 0.9 United States 1.00 1.00 1.0 1.0 1.0 92.6 1.9 2.1 2.6 2.3 1.4 2.3 Uruguay 28.70 24.48 0.6 11.8 0.4 59.6 22.4 13.4 23.9 12.6 22.1 24.8 Uzbekistan 0.0 251.3 144.3 33.1 <td< td=""><td></td><td>·····</td><td></td><td></td><td></td><td></td><td>02</td><td>·········</td><td></td><td></td><td></td><td></td><td></td></td<>		·····					02	·· ·· ·····					
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Uruguay 28.70 24.48 0.6 11.8 0.4 59.6 22.4 13.4 23.9 12.6 22.1 24.8 Uzbekistan 0.0 251.3 144.3 33.1		······	······		•					······	•••••	•	
Uzbekistan 0.0 251.3 144.3 33.1		· · · · · · · · · · · · · · · · · · ·								··•···		• · · · · · · · · · · · · · · · · · · ·	
Venezuela, RB 1,891.33 2,089.75 24.4 1,323.1 0.7 66.2 38.3 27.8 39.3 22.7 37.6 35.2 Vietnam 15,509.58 15,776.00° 641.1 3,209.5 0.2 10.9 5.1 3.0 3.5 West Bank and Gaza		20.70	_1.10		•	***************************************		·· ·· ······		_0.0			
Vietnam 15,509.58 15,776.00a 641.1 3,209.5 0.2 10.9 5.1 3.0 3.5 West Bank and Gaza		 1 891 33	2 089 75		•					39.3	22.7	37.6	35.2
West Bank and Gaza 8.9 10.9 Yemen, Rep. 184.78 185.58a 20.3 135.1 0.7 18.1 8.0 20.8 11.7 Zambia 4,778.88 4,463.50 18.6 2,653.0 0.6 109.5 39.4 20.9 42.4 21.0 Tight below 5,000.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0								·· ·· ····		·· · ····	•••••	•	
Yemen, Rep. 184.78 185.58a 20.3 135.1 0.7 18.1 8.0 20.8 11.7 Zambia 4,778.88 4,463.50 18.6 2,653.0 0.6 109.5 39.4 20.9 42.4 21.0 Zinhalam 5,000.00 0.000.00 <td< td=""><td></td><td>10,000.00</td><td>10,110.00</td><td>0-1.1</td><td>5,205.5</td><td>***************************************</td><td></td><td>·······</td><td></td><td></td><td>3.3</td><td>• • • • • • • • • • • • • • • • • • • •</td><td>••••••</td></td<>		10,000.00	10,110.00	0-1.1	5,205.5	***************************************		·······			3.3	• • • • • • • • • • • • • • • • • • • •	••••••
Zambia 4,778.88 4,463.50 18.6 2,653.0 0.6 109.5 39.4 20.9 42.4 21.0		10170	195 508	20 2 	125 1			·· · ·····		·····	117		••••••
5.00.00.00.00.00.00.00.00.00.00.00.00.00								·· ·· ····		·· · ····			-
	***************************************		··········		•	0.0	109.5	·· - ·······			21.0	25.0	

Note: Inconsistencies in the growth rates of the GDP deflator and the consumer and wholesale price indexes are due mainly to uneven coverage of the time period.

a. Latest quarterly or monthly data available. b. As members of the European Monetary Union, these countries share a single currency, the euro. c. Based on a 1986 bilateral comparison of China and the United States (Rouen and Kai 1995), employing a different methodology than that used for other countries. This interim methodology will be revised in the next rfew years. d. New liras per dollar.

In a market-based economy the choices that house-holds, producers, and governments make about the allocation of resources are influenced by relative prices, including the real exchange rate, real wages, real interest rates, and a host of other prices in the economy. Relative prices also reflect, to a large extent, the choices of these agents. Thus relative prices convey vital information about the interaction of economic agents in an economy and with the rest of the world.

The exchange rate is the price of one currency in terms of another. Official exchange rates and exchange rate arrangements are established by governments. (Other exchange rates fully recognized by governments include market rates, which are determined largely by legal market forces, and for countries maintaining multiple exchange arrangements, principal rates, secondary rates, and tertiary rates.) Also see *Statistical methods* for information on alternative conversion factors used in the *World Bank Atlas* method of calculating gross national income (GNI) per capita in U.S. dollars.

The official or market exchange rate is often used to compare prices in different currencies. Since exchange rates reflect at best the relative prices of tradable goods, the volume of goods and services that a U.S. dollar buys in the United States may not correspond to what a U.S. dollar converted to another country's currency at the official exchange rate would buy in that country. Since identical volumes of goods and services in different countries correspond to different values (and vice versa) when offcial exchange rates are used, an alternative method of comparing prices across countries has been developed. In this method national currency estimates of GNI are converted to a common unit of account by using conversion factors that reflect equivalent purchasing power. Purchasing power parity (PPP) conversion factors are based on price and expenditure surveys conducted by the International Comparison Program and represent the conversion factors applied to equalize price levels across countries. See About the data for table 1.1 for further discussion of the PPP con-

The ratio of the PPP conversion factor to the official exchange rate (also referred to as the national price level) makes it possible to compare the cost of the bundle of goods that make up gross domestic product (GDP) across countries. These national price levels vary systematically, rising with GNI per capita.

Real effective exchange rates represent a nominal effective exchange rate index adjusted for relative movements in national price or cost indicators of the home country, selected countries, and the euro area. A nominal effective exchange rate index represents the ratio (expressed on the base 2000 = 100) of an index of a currency's period-average exchange rate to a weighted geometric average of exchange rates for currencies of selected countries and the euro area. For most high-income countries, weights are derived from trade in manufactured goods among industrial countries. The data are compiled from the nominal

effective exchange rate index and a cost indicator of relative normalized unit labor costs in manufacturing. For selected other countries the nominal effective exchange rate index is based on each country's trade in both manufactured goods and primary products with its partner or competitor countries. For these countries the real effective exchange rate index is derived from the nominal index adjusted for relative changes in consumer prices. An increase in the real effective exchange rate represents an appreciation of the local currency. Because of conceptual and data limitations, changes in real effective exchange rates should be interpreted with caution.

Controlling inflation is one of the primary goals of monetary policy and is intimately linked to the growth in money supply. Inflation is measured by the rate of increase in a price index, but actual price change can be negative. Which index is used depends on which set of prices in the economy is being examined. The GDP deflator reflects changes in prices for total gross domestic product. The most general measure of the overall price level, it takes into account changes in government consumption, capital formation (including inventory appreciation), international trade, and the main component, household final consumption expenditure. The GDP deflator is usually derived implicitly as the ratio of current to constant price GDP, resulting in a Paasche index. It is defective as a general measure of inflation for use in policy because of the long lags in deriving estimates and because it is often only an annual measure.

Consumer price indexes are produced more frequently and so are more current. They are also constructed explicitly, based on surveys of the cost of a defined basket of consumer goods and services. Nevertheless, consumer price indexes should be interpreted with caution. The definition of a household, the basket of goods chosen, and the geographic (urban or rural) and income group coverage of consumer price surveys can all vary widely across countries. In addition, the weights are derived from household expenditure surveys, which, for budgetary reasons, tend to be conducted infrequently in developing countries, leading to poor comparability over time. Although useful for measuring consumer price inflation within a country, consumer price indexes are of less value in making comparisons across countries. Food price indexes, like consumer price indexes, should be interpreted with caution because of the high variability across countries in the items covered.

Wholesale price indexes are based on the prices of commodities that have some significance in the output or consumption of the country at the first commercial transaction. The prices are farm gate prices for agricultural commodities and ex-factory prices for industrial goods. Preference should be given to indexes that provide the broadest coverage of the economy.

The least-squares method is used to calculate the growth rates of the GDP implicit deflator, consumer price index, and wholesale price index.

Definitions

- Official exchange rate is the exchange rate determined by national authorities or the rate determined in the legally sanctioned exchange market. It is calculated as an annual average based on monthly averages (local currency units relative to the U.S. dollar).
- Purchasing power parity (PPP) conversion factor is the number of units of a country's currency required to buy the same amount of goods and services in the domestic market as a U.S. dollar would buy in the United States. • Ratio of PPP conversion factor to official exchange rate is the result obtained by dividing the PPP conversion factor by the official exchange rate. • Real effective exchange rate is the nominal effective exchange rate (a measure of the value of a currency against a weighted average of several foreign currencies) divided by a price deflator or index of costs. • GDP implicit deflator measures the average annual rate of price change in the economy as a whole for the periods shown. • Consumer price index reflects changes in the cost to the average consumer of acquiring a basket of goods and services that may be fixed or may change at specified intervals, such as yearly. The Laspeyres formula is generally used. • Wholesale price index refers to a mix of agricultural and industrial goods at various stages of production and distribution, including import duties. The Laspeyres formula is generally used.

Data sources

Data on official and real effective exchange rates and consumer and wholesale price indexes are from the International Monetary Fund's *International Financial Statistics*. PPP conversion factors and GDP deflators are from the World Bank's data files.



4.15 Balance of payments current account

		Good serv			Net in	come	Net c	urrent sfers	Current bala	account ince	To rese	tal rves ^a
	_	\$ mil					_		_		_	
	1990	orts 2004	1990	orts 2004	\$ mil 1990	2004	\$ mil 1990	2004	\$ mil 1990	2004	\$ mil 1990	2004
Afghanistan	261		727		12		311		-143		638	
Albania	354	1,167	485	2,586	-2	170	15	842	-118	-407		1,388
Algeria	13,462		10,106		-2,268		333		1,420		2,703	
Angola	3,992	13,798	3,385	10,635	-765	-2,484	-77	7	-236	686		1,374
Argentina	14,800	39,702	6,846	28,152	-4,400	-8,884	998	688	4,552	3,353	6,222	19,660
Armenia Australia	49,843	985 112,514	53,056	1,514 131,417	 -13,176	37 20 497	 439	330	 –15,950	-162 -39,658	1 19,319	576 36,926
Austria	63,694	161,062	61,580	155,304	-13,176 -942	-20,487 -2,237	439 -6	-2,756	1,166	765	17,228	12,188
Azerbaijan		4,235		6,312		_701		188	-,100	-2,589		1,090
Bangladesh	2,064	9,234	3,960	13,089	-116	-371	1,613	3,948	-398	-279	660	3,222
Belarus		15,666		17,019		26		285		-1,043		837
Belgium	138,605 ^b	297,953	135,098 ^b	284,718	2,316 ^b	5,631	–2,197 ^t	o –6,952	3,627 ^b	11,914	23,789	13,991
Benin	364	713	454	1073	-25	-38	97	66	-18	-331	69	640
Bolivia	977	2,546	1,086	2,319	-249	-385	159	444	-199	285	511	1,271
Bosnia and Herzegovina		2,914		7,111		446		1,833		-1,918		2,408
Botswana Brazil	2,005 35,170	<i>3,689</i> 109,059	1,987 28,184	<i>2,780</i> 80,069	-106 -11,608	-716	69 799	<i>290</i> 3,268	–19 –3,823	<i>483</i> 11,738	3,331 9,200	5,661 52,935
Bulgaria	6,950	13,975	8,027	16,465	-758	-20,520 -658	125	1,094		-2,053	9,200 <i>670</i>	9,337
Burkina Faso	349		758		0		332	1,004	_77	2,000	305	669
Burundi	89	43	318	175	-15	- <u>1</u> 7	174	124	-69	-25	112	66
Cambodia	314	3,243	507	3,663	-21	-239	120	442	-93	-217		1,118
Cameroon	2,508		2,475		-558		-26		-551		37	842
Canada	149,538	377,646	149,118	336,733	-19,388	-19,167	-796	254	–19,764	22,000	23,530	34,476
Central African Republic	220		410		-22		123		-89		123	153
Chad	271		488		-21		192		-46		132	227
Chile	10,221	37,981	9,166	29,542	-1,737	-8,101	198	1,051	-485	1,390	6,784	15,997
China [†]	57,374	655,827	46,706	606,543	1,055	-3,523	274	22,898	······	68,659		622,949
Hong Kong, China Colombia	 8,679	314,438 19,496	6,858	299,591 19,929	-2,305	3,491 -4,183	1,026	-1,981 3,650	 542	16,357 –967	4,869	123,569 13,537
Congo, Dem. Rep.	6,079	19,490	0,636	19,929	-2,303	-4,163	1,020	3,030	342	-301	261	13,331
Congo, Rep.	1,488	1,546	1,282	 995	-460	-546	3	 -8	-251	-3	10	124
Costa Rica	1,963	8,610	2,346	9,140	-233	-517	192	216	-424	-831	525	1,919
Côte d'Ivoire	3,503	7,650	3,445	6,181	-1,091	-705	-181	-462	-1,214	303	21	1,694
Croatia		17,828		20,180		-772		1,483		-1,641	167	8,758
Cuba												
Czech Republic		76,569		76,966		-5,433		235		-5,595		28,451
Denmark	48,902	111,355	41,415	98,925	-5,708	-2,330	-408	-4,159	1,372	5,941	11,226	40,021
Dominican Republic	1,832	9,283	2,233	9,049	-249 1 210	-1,332 1,470	371	2,498	-280	1,399	69	806
Ecuador Egypt Arab Pap	3,262 9,895	8,734 26 516	2,519	9,306	-1,210 -1,022	-1,479 -246	107 7545	1,894	-360	-157	1,009	1,440
Egypt, Arab Rep. El Salvador	9,895	26,516 4,301	14,091 1,624	26,915 7,029	-1,022 -132	-246 -459	7,545 631	<i>4,567</i> 2,576	2,327 -152	3,922 -612	3,620 595	15,339 1,938
Eritrea		+,301	1,024	1,029	-132	-409	031	2,510	-102	-012		35
Estonia	664	8,794	711	9,674	-13	-718	97	165	36	-1,432	198	1,792
Ethiopia	597	1,684	1,271	3,778	-69	-29	449	1,372	-294	-751	55	1,497
Finland	31,180	71,099	33,456	60,636	-3,735	238	-952		-6,962	9,698	10,415	13,010
France	285,389	531,488	283,238	526,635	-3,896	8,540	-8,199	-21,775	-9,944	-8,382	68,291	77,353
Gabon	2,730	3,351	1,812	1,882	-617	-713	-134	-181	168	575	279	449
Gambia, The	168		192		-11		59		23		55	84
Georgia		1,631		2,491		97		414		-349		383
Germany	473,670	1,051,303	427,621	912,587	20,593	•	-21,954	-35,229	-	103,770	-	97,170
Ghana	983	3,487	1,506	5,356	-111 1 700	-198 5.007	411	1,831	-223	-236	309	1,750
Greece Guatemala	13,018 1,568	48,824 4,608	19,564 1,812	61,380 8,483	-1,709 -196	-5,097 -319	4,718 227	4,504 3,006	-3,537 -213	-13,148 -1,188	4,721 362	2,708 3,522
Guinea	1,568	4,608 811	953	964	-196 -149	-319 -27	70	3,006	-213 -203	-1,188 -162	362 145	3,522 263
Guinea-Bissau	26	71	88	102	-149	-21 -9	39	39	-203 -45	-102	143	73
Haiti	318	469	515	1,375	-18	-14	193	907	-22	-13	10	115
†Data for Taiwan, China	74,172	198,943	67,015	187,757		11,245	-596		10,923			247,699



Balance of payments current account 4.15

		Goods and services					Net cu trans			account ance	To: resei	
	Ехрс 1990	\$ mil orts 2004	lions Impo 1990	orts 2004	\$ mil 1990	llions 2004	\$ mill	lions 2004	\$ mi	illions 2004	\$ mil	lions 2004
Honduras	1,032	3,066	1,127	4,430	-237	-279	280	1,230	-51	-413	47	1,980
Hungary	12,035	66,351	11,017	69,425	-1,427	-6,086	787	317	379	-8,842	1,185	15,951
India	22,911	82,735	29,527	93,918	-3,257	-4,451 -8.704	2,837	22,488	-7,036	6,853		131,631
Indonesia Iran, Islamic Rep.	29,295 19,741	89,789	27,511 22,292	79,116	-5,190 378		418 2,500	1,139	-2,988 327	3,108	8,657	36,311
Iraq	19,741	••	22,292	••	316		2,300	<u> </u>	321	···	•••	••
Ireland	26,786	 152,172	 24,576	 124,724	-4.955	-29,269	2,384	397	-361	-1,423	5,362	2,908
Israel	17,312	51,445	20,228	52,040	-1,981	-4,162	5,060	6,230	163	1,474	6,598	27,094
Italy	219,971	435,871	218,573			***************************************	-3,164		-16,479	-15,137	88,595	62,386
Jamaica	2,217	3,899	2,390	5,272	-430	-583	291	1,446	-312	-509	168	1,846
Japan	323,692	636,610	297,306	542,380	22,492	85,703	-4,800	-7,875	44,078	172,059	87,828	844,667
Jordan	2,511	5,983	3,569	9,407	-214	190	1,045	3,216	-227	-18	1,139	5,447
Kazakhstan		22,602		18,800		-2,784		-488		530		9,277
Kenya	2,228	4,202	2,705	5,115	-418	-114	368	649	-527	-378	236	1,520
Korea, Dem. Rep.												
Korea, Rep.	73,297	299,174	76,373	269,782	-88	725	1,150	-2,504	-2,014	27,613	14,916	199,195
Kuwait	8,268	33,543	7,169	18,510	7,738	6,400	-4,951	-2,548	3,886	18,884	2,929	9,354
Kyrgyz Republic		942		1,135		-90		209		-75		565
Lao PDR	102	·····	212		-1		56	<u></u> -	-55		8	275
Latvia	1,090	6,001	997	8,180	2	-272	96	685	191	-1,766		2,021
Lebanon											4,210	15,774
Lesotho	100	771	754	1,398	433	303	286	248	65	-76	72	503
Liberia	11 160	17 960		 10,532	 174	-1,301			2 201	2 705	7 225	19 27,714
Libya Lithuania	11,468	17,862 11,751	8,960	13,321		-1,301 -612	-481	-2,324 458	2,201	3,705 -1,725	7,225 <i>107</i>	3,594
Macedonia, FYR		2,080	••	3,247	••	-39	••	791		-1,725 -415		991
Madagascar	471	1,126	809	1,654	-161	-79	234	299	-265	-309	92	504
Malawi	443	472	549	795	-80	-38	99	161	-86	-201	142	139
Malaysia	32,665	118,577	31,765	96,820	-1,872	-5,928	102	-2,447	-870	13,381	10,659	66,897
Mali	420	1,152	830	1,471	-37	-160	225	207	-221	-271	198	861
Mauritania	471		520		-46		86		-10		59	420
Mauritius	1,722	3,460	1,916	3,603	-23	-14	97	49	-119	-107	761	1,633
Mexico	48,805	202,003	51,915	216,589	-8,316	-9,812	3,975	17,044	-7,451	-7,354	10,217	64,202
Moldova		1,331		2,122		357		365		-69	2	470
Mongolia	493	1,211	1,096	1,405	-44	-11	7	269	-640	63	23	250
Morocco	6,239	16,632	7,783	19,860	-988	-671	2,336	4,868	-196	970	2,338	16,647
Mozambique	229	1,759	996	2,381	-97	-300	448	314	-415	-607	232	1,159
Myanmar	319	3,181	603	2,458	-192	-745	39	134	-436	112	410	773
Namibia	1,220	2,310	1,584	2,495	37	151	354	669	28	634	50	345
Nepal Netherlands	422 159,304	1,224 388,899	834 147,652	2,186 341,622	14 -620	-15 15,088	109	1,173 -7,952	-289 8,089	197 54,414	354 34,401	1,529 21,050
New Zealand	11,683	28,305	11,699	28,791	-620 -1,576	-5,793	138	-7,932 79		-6,199	4,129	5,294
Nicaragua	392	1,653	682	2,851	-1,576 -217	-5,793 -192	202	619	-305	-0,199 -772	166	668
Niger	533	415	728	681	-217 -54	-192 -26	14	73	-236	-712 -219	226	258
Nigeria	14,550	26,993	6,909	16,064	-2,738	-916	85	2,252	4,988	12,264	4,129	17,257
Norway	47,078	109,104	38,910	73,557	-2,700	1,544	-1,476	-2,645	3,992	34,445	15,788	44,308
Oman	5,577	14,175	3,342	10,613	-254	-1,293	-874	-1,826	1,106	443	1,784	3,598
Pakistan	6,835	16,079	10,205	22,057	-1,084	-2,362	2,794	•	-1,661	-808	1,046	10,718
Panama	4,438	8,859	4,193	9,172	-255	-1,042	219	228	209	-1,127	344	631
Papua New Guinea	1,381		1,509		-103		156		-76		427	660
Paraguay	2,514	3,397	2,169	3,540	2	-31	43	194	390	20	675	1,168
Peru	4,120	14,530	4,087	12,581	-1,733	-3,421	281	1,461	-1,419	-11	1,891	12,665
Philippines	11,430	42,829	13,967	50,492	-872	147	714	9,596	-2,695	2,080	2,036	16,234
Poland	19,037	95,333	15,095	99,935	-	-11,399	2,511	5,644	3,067	-10,357	4,674	36,773
Portugal	21,554	51,899	27,146	65,411	-96	-3,095	5,507	3,449	-181	-13,158	20,579	11,684
Puerto Rico												





4.15 Balance of payments current account

			ds and vices		Net in	come	Net c	urrent sfers		t account ance	1	tal rves ^a
		\$ m	illions									
	Ex; 1990	ports 2004	lm 1990	ports 2004	\$ mil 1990	lions 2004	\$ mil 1990	lions 2004	\$ m 1990	illions 2004	\$ mi	llions 2004
Damania		•		• • • • • • • • • • • • • • • • • • • •								
Romania Russian Federation	6,380	27,099 203,741	9,901	34,029	161	-1,766	106	-677	-3,254	-5,589	1,374	16,095
•		203,741	354	130,144	-16	–13,000 –27	143	314	 –85	59,920 -6	44	126,258 315
Rwanda Saudi Arabia	47,381	131,849	43,880	493 66,746	7,968	•		-13,655	-85 -4,147	51,926	•	29,304
Senegal	1,453	1,826	1,840	2,657	-129	–136	153	530	-4,147	-437	13,437 22	1,386
Serbia and Montenegro		1,620	1,640	•								1,360
Sierra Leone	210	215	215	342	 -71	 –67	7	 119	-69	-74	5	 125
Singapore	67,489	238,522	64,953	206,796	1,006	-2,686	-421	-1,144	3,122	27,897		112,232
Slovak Republic		25,241		25,649	1,000	-2,000 -119		-1,144 245		-282	•	14,912
Slovenia	7,900	19,519	6,930	19,927	-38	-300	 46	38	 978	-670	 112	8,900
Somalia	7,900 68	19,019	468	13,321	-36 -84	-300	328	30	–157	-010	23	5,300
South Africa	27,160	56,734	21,017	57,888	-4,271	-4,343	-321	-1.485	1,552	-6,982	2,583	14,886
Spain	83,595	269,030	100,870	307,365		-4,343 -16.985	2,799		-18.009	-55,380	57.238	19.759
Sri Lanka	2,293	7,284	2,965	9,108	-167	-204	541	1,380	-298	-648	447	2,205
Sudan	499	3,822	877	4,651	-136	-1,113	141	1,123	-372	-818	11	1,626
Swaziland	658	2,438	768	2,448	59	32	102	92	51	114	216	324
Sweden	70,560	163,934	70,490	134,855	-4,473	3,224		-4,818		27,485	20,324	24,740
Switzerland	97,033	181,568	96,389	146,291	7,878	30,974		-6.005	6,124	60.246	•	74,568
Syrian Arab Republic	5,030	8,175	2,955	7,915	-401	-729	88	679	1,762	210	535	1 1,000
Tajikistan	0,000	1,220	_,000	1,445		-58		226		-57		172
Tanzania	538	2,179	1,474	3,196	-185	-39	562	618	-559	-437	193	2,296
Thailand	29,229	114,019	35,870	107,512	-853	-2,022	213	2,148		6,632		49,847
Togo	663	693	847	959	-32	-23		128	-84	-162	•	360
Trinidad and Tobago	2,289	5,890	1,427	4,283	-397	-681	-6	59	459	985	513	3,195
Tunisia	5,203	13,308	6,039	14,099	-455	-1,298	828	1,534	-463	-555	867	4,031
Turkey	21,042	91,048	25,524	102,199	-2,508	-5,519	4,365	•	-2,625	-15,543	7,626	37,304
Turkmenistan												
Uganda	178	1,153	686	2,154	-48	-172	293	974	-263	-200	44	1,308
Ukraine		39,719		34,846		-645		2,576		6,804	469	9,526
United Arab Emirates											4,891	18,530
United Kingdom	239,226	533,167	264,090	604,562	-5,154	48,582	-8,794	-19,697	-38,811	-42,511	43,146	49,740
United States	535,260	1,151,448	616,120	1,769,031	28,560	•		-80,931	-78,960	-668,074	•	190,465
Uruguay	2,158	4,008	1,659	3,673	-321	-527	8	89	186	-103	1,446	2,512
Uzbekistan												•••
Venezuela, RB	18,806	39,846	9,451	22,042	-774	-3,885	-302	-89	8,279	13,830	12,733	23,408
Vietnam		19,654		21,458		-721		1,921		-604		7,041
West Bank and Gaza												
Yemen, Rep.	1,490	5,045	2,170	4,918	-372	-1,346	1,790	1,444	739	225	441	5,687
Zambia	1,360		1,897		-437		380		-594		201	337
Zimbabwe	2,012		2,001		-263		112		-140		295	132
World	4,323,913 t	11,238,500	t 4,305,881 t	11,096,960	t							
Low income	84,525	224,181	104,291	247,585								
Middle income	629,219	2,682,381	584,802	2,466,936								
Lower middle income	302,952	1,477,304	303,741	1,362,939								
Upper middle income	330,225	1,212,867	280,527	1,108,946								
Low & middle income	714,917	2,954,236	689,885	2,775,051								
East Asia & Pacific	167,280	1,105,736	166,172	1,026,871								
Europe & Central Asia ^c		764,285		729,833								
Latin America & Carib.	170,341	541,417	147,342	502,855								
Middle East & N. Africa			105,814									
South Asia	34,864	114,362	48,099	131,775								
Sub-Saharan Africa	78,044	166,824	72,993	166,946								
High income	3,593,864	8,314,172	3,592,267	8,352,618								
Europe EMU	1,523,198	3,491,397	1,484,793	3,286,395								

a. International reserves including gold valued at London gold price. b. Includes Luxembourg.

The balance of payments records an economy's transactions with the rest of the world. Balance of payments accounts are divided into two groups: the current account, which records transactions in goods, services, income, and current transfers, and the capital and financial account, which records capital transfers, acquisition or disposal of nonproduced, nonfinancial assets, and transactions in financial assets and liabilities. The table presents data from the current account with the addition of gross international reserves.

The balance of payments is a double-entry accounting system that shows all flows of goods and services into and out of an economy; all transfers that are the counterpart of real resources or financial claims provided to or by the rest of the world without a quid pro quo, such as donations and grants; and all changes in residents' claims on and liabilities to nonresidents that arise from economic transactions. All transactions are recorded twice—once as a credit and once as a debit. In principle the net balance should be zero, but in practice the accounts often do not balance. In these cases a balancing item, net errors and omissions, is included.

Discrepancies may arise in the balance of payments because there is no single source for balance of payments data and therefore no way to ensure that the data are fully consistent. Sources include customs data, monetary accounts of the banking system, external debt records, information provided by enterprises, surveys to estimate service transactions, and foreign exchange records. Differences in collection methods—such as in timing, definitions

of residence and ownership, and the exchange rate used to value transactions—contribute to net errors and omissions. In addition, smuggling and other illegal or quasi-legal transactions may be unrecorded or misrecorded. For further discussion of issues relating to the recording of data on trade in goods and services, see *About the data* for tables 4.4–4.7.

The concepts and definitions underlying the data in the table are based on the fifth edition of the International Monetary Fund's (IMF) Balance of Payments Manual (1993). The fifth edition redefined as capital transfers some transactions previously included in the current account, such as debt forgiveness, migrants' capital transfers, and foreign aid to acquire capital goods. Thus the current account balance now reflects more accurately net current transfer receipts in addition to transactions in goods, services (previously nonfactor services), and income (previously factor income). Many countries maintain their data collection systems according to the fourth edition. Where necessary, the IMF converts data reported in such systems to conform to the fifth edition (see Primary data documentation). Values are in U.S. dollars converted at market exchange rates.

The data in this table come from the IMF's Balance of Payments and International Financial Statistics databases, supplemented by estimates by World Bank staff for countries for which the IMF does not collect balance of payments statistics. In addition, World Bank staff make estimates of missing data for the current year for major countries to obtain meaningful aggregates.

Definitions

. Exports and imports of goods and services comprise all transactions between residents of an economy and the rest of the world involving a change in ownership of general merchandise, goods sent for processing and repairs, nonmonetary gold, and services. • Net income refers to receipts and payments of employee compensation for nonresident workers, and investment income (receipts and payments on direct investment, portfolio investment, and other investments and receipts on reserve assets). Income derived from the use of intangible assets is recorded under business services. • Net current transfers are recorded in the balance of payments whenever an economy provides or receives goods, services, income, or financial items without a guid pro guo. All transfers not considered to be capital are current. . Current account balance is the sum of net exports of goods and services, net income, and net current transfers. • Total reserves comprise holdings of monetary gold, special drawing rights, reserves of IMF members held by the IMF, and holdings of foreign exchange under the control of monetary authorities. The gold component of these reserves is valued at year-end (31 December) London prices (\$385.00 an

ounce in 1990, and \$438.00 an ounce in 2004).

4.15a

Top 15 countries with the largest current account surplus, and top 15 countries with the largest current account deficit in 2003 $\,$

Country	\$ billions	% of GDP	Country	\$ billions	% of GDP
Japan	136.2	3.2	United States	-519.7	-4.7
Germany	51.3	2.1	Spain	-31.7	-3.6
China	45.9	2.8	Austria	-30.7	-5.8
Switzerland	44.7	13.9	United Kingdom	-27.5	-1.5
Russian Federation	35.4	8.2	Italy	-19.4	-1.3
Netherlands	29.7	5.8	Greece	-12.6	-7.2
Taiwan, China	29.3	10.2	Portugal	-8.7	-5.9
Norway	28.3	12.8	Mexico	-8.6	-1.3
Saudi Arabia	28.1	13.1	Turkey	-8.0	-3.3
Singapore	27.0	29.2	Hungary	-7.2	-8.7
Sweden	22.8	7.6	Czech Republic	-5.8	-6.4
Hong Kong, China	16.5	10.6	Poland	-4.6	-2.2
Malaysia	13.4	12.9	New Zeland	-3.4	-4.2
Canada	13.4	1.6	Romania	-3.3	-5.8
Korea, Rep.	11.9	2.0	South Africa	-2.6	-1.6
Source: International Monet	ary Fund, Balan	ce of Payments	s data files.		

Data sources

Data on the balance of payments are published in the IMF's Balance of Payments Statistics Yearbook and International Financial Statistics. The World Bank exchanges data with the IMF through electronic files that in most cases are more timely and cover a longer period than the published sources. More information about the design and compilation of the balance of payments can be found in the IMF's Balance of Payments Manual, fifth edition (1993), Balance of Payments Textbook (1996a), and Balance of Payments Compilation Guide (1995). The IMF's International Financial Statistics and Balance of Payments databases are available on CD-ROM.



Algenistan			external ebt		(-term ebt		Public and guarantee	-		nongua	vate aranteed nal debt		of IMF edit
Maghanistan							\$ millio		oans and				
Mahania										1		\$ m 1990	illions 2004
Mahania	hanistan												
Mgeria			1,549		1,451	*	1,404		677		46		97
Asygentina 62,233 169,247 48,676 127,661 46,876 03,850 2,609 7,447 1,800 23,811 3,4 mmenia Armenia 1,224 984 961 7,80 24 Austria	eria	28,149	21,987	26,688	•••••	•	20,249	•••••	909		664	670	643
Ameneire 1,224 984 961 780 24 Australiis	ola (ola	8,592	9,521	7,604	8,631	7,604	8,631	0	318	0	0	0	0
Australia Australia Austria Arcerbaijan 1.986 1.986 1.988 1.989 1.988 1.988 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.989 1.988 1.988 1.988 1.989 1.988 1.989 1.988 1.988 1.988 1.988 1.989 1.988 1.9	entina	62,233	169,247	48,676	127,661	46,876	103,850	2,609	7,447	1,800	23,811	3,083	14,091
Azerbaijan 1,986 1,640 1,650 1,409 493 2,230 230 230 230 230 230 230 230 230 230	nenia		1,224		984		961		780		24		218
Nerthelian	tralia												
Bangladesh 12,439 20,344 11,658 19,171 11,658 19,171 4,159 8,895 0 0 0 elearus	tria												
Belgium	rbaijan												208
Belgium		12,439		11,658		11,658	•••••	4,159		0		626	231
Benin 1,292		••	3,717		772		744		73		29		9
Bolivia 4.275 6.096 3.864 5.663 3.687 4.645 587 1.750 177 1.019 Bosnia and Herzegovina . 3.202 . 2.734 . 2.644 . 1.454 . 90 Bostawana . 553 524 547 488 547 488 169 11 0 0 Brazil 119.964 222.026 94.427 171.729 877.56 97.665 8.427 8.668 6.671 73.864 1,	•												
Bosnia and Herzegovina 3,202 2,734 2,644 1,454 0,0 Botswana 553 524 547 488 547 488 169 11 0 0 Brazil 119,964 222,026 94,427 171,729 87,766 97,865 8,427 1.73,864 1,		····		•	•••••	•		•				18	65
Botswana		4,275		3,864		3,687		587		177		257	307
Brazil 119,964 222,026 94,427 171,729 87,756 97,865 8,427 8,668 6,671 73,864 1, Bulgaria 15,661 11,241 7,434 1,498 3,807 Burundi 907 1,385 851 1,325 851 1,235 398 793 0 0 Cambodia 1,845 3,377 1,683 3,016 0 467 0 0 Cameroon 6,657 9,496 5,577 8,557 5,347 7,924 871 1,200 230 632 Canada			-										109
Bulgaria 15,661 11,241 7,434 1,498 3,807 Burkina Faso 834 1,967 750 1,823 750 1,823 382 1,027 0 0 Cambodia 1,845 3,377 1,683 3,016 1,683 3,016 0 467 0 0 Cameron 6,657 9,496 5,577 8,557 5,347 7,924 871 1,000 230 632 Canada		····		•	•••••	•	•••••	•				1 921	0
Burkina Faso		119,964	·· · ·····	94,427		87,756		8,427		6,671		1,821	25,029
Burundi	~		·· · ·····	750		750						0	1,183 115
Cambodial 1,845 3,377 1,683 3,016 1,683 3,016 0 467 0 0 Cameroon 6,657 9,496 5,577 8,557 5,347 7,924 871 1,200 230 632 Canada <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>43</td><td>41</td></t<>		····	·· · ·····	•	••	•		•••••		•••••		43	41
Cameroon 6,657 9,496 5,577 8,557 5,347 7,924 871 1,200 230 632 Canada		····										27	97
Canada <		····	·· · ····	•••••		•	······································					121	333
Central African Republic 698 1,078 624 926 624 926 265 455 0 0 Chald 529 1,701 469 1,582 469 1,582 186 910 0 0 Chile 19,226 44,058 14,687 36,351 10,425 92.6 1,874 445 42,632 26,925 1, China 55,301 248,934 45,515 313,342 45,515 90,815 5,881 21,705 0 40,527 Hong Kong, China				••••••		•	••••••	•••••		•••••		•	
Chad 529 1,701 469 1,582 469 1,582 186 910 0 0 Chile 19,26 44,058 14,687 36,351 10,425 9,426 1,874 445 4263 26,925 1, Chine 55,301 248,934 45,515 131,342 45,515 90,815 5,881 21,705 0 40,527 Hong Kong, China		····	·· · ····	•••••			•••••					37	44
Chile 19,226 44,058 14,687 36,351 10,425 9,426 1,874 445 4,263 26,925 1, China 55,301 248,934 45,515 131,342 45,515 90,815 5,881 21,705 0 40,527 Hong Kong, China		·····		•••••		•	•••••	.*				31	96
China 55,301 248,934 45,515 131,342 45,515 90,815 5,881 21,705 0 40,527 Hong Kong, China		····	·· · ·····	•	•••••	•		•••••		•••••		1,156	0
Hong Kong, China												469	0
Colombia 17,222 37,732 15,784 32,391 14,671 23,372 3,874 3,494 1,113 9,019 Congo, Dem. Rep. 10,259 11,841 8,994 10,532 8,994 10,532 1,161 1,993 0 0 Congo, Rep. 4,947 5,829 4,200 5,051 4,200 5,051 239 269 0 0 Costa Rica 3,756 5,700 3,367 4,013 3,063 3,859 412 72 304 154 Coted d'Ivoire 17,251 11,739 13,223 10,837 10,665 9,828 1,920 2,383 2,558 1,010 Croatia 31,548 29,338 11,668 856 17,670 Cuba <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<>				•••									
Congo, Dem. Rep. 10,259 11,841 8,994 10,532 8,994 10,532 1,161 1,993 0 Congo, Rep. 4,947 5,829 4,200 5,051 4,200 5,051 239 269 0 0 Costa Rica 3,756 5,700 3,367 4,013 3,663 3,859 412 72 304 154 Côte d'Ivoire 17,251 11,739 13,223 10,837 10,665 9,828 1,920 2,383 2,558 1,010 Croatia 31,548 29,338 11,668 856 17,670 Cuba </td <td></td> <td>17,222</td> <td>37,732</td> <td>15,784</td> <td>32,391</td> <td>14,671</td> <td>23,372</td> <td>3,874</td> <td>3,494</td> <td>1,113</td> <td>9,019</td> <td>0</td> <td>0</td>		17,222	37,732	15,784	32,391	14,671	23,372	3,874	3,494	1,113	9,019	0	0
Costa Rica 3,756 5,700 3,367 4,013 3,063 3,859 412 72 304 154 Côte d'Ivoire 17,251 11,739 13,223 10,837 10,665 9,828 1,920 2,383 2,558 1,010 Croatia 31,548 29,338 11,668 856 17,670 Cuba <td>ngo, Dem. Rep.</td> <td>10,259</td> <td></td> <td>•••••</td> <td>10,532</td> <td>8,994</td> <td>10,532</td> <td>1,161</td> <td>1,993</td> <td>0</td> <td>0</td> <td>521</td> <td>818</td>	ngo, Dem. Rep.	10,259		•••••	10,532	8,994	10,532	1,161	1,993	0	0	521	818
Côte d'Ivoire 17,251 11,739 13,223 10,837 10,665 9,828 1,920 2,383 2,558 1,010 Croatia	ngo, Rep.	4,947	5,829	4,200	5,051	4,200	5,051	239	269	0	0	11	29
Croatia 3.1,548 29,338 11,668 856 17,670 Cuba	sta Rica	3,756	5,700	3,367	4,013	3,063	3,859	412	72	304	154	11	0
Cuba 45,561 28,470 12,020 52 16,450 Denmark	e d'Ivoire	17,251	11,739	13,223	10,837	10,665	9,828	1,920	2,383	2,558	1,010	431	311
Czech Republic	atia		31,548		29,338		11,668		856		17,670		0
Denmark	а												
Dominican Republic 4,372 6,965 3,518 5,815 3,419 5,815 258 390 99 0 Ecuador 12,107 16,868 10,029 15,062 9,865 10,629 848 851 164 4,433 Egypt, Arab Rep. 33,017 30,291 28,439 27,353 27,439 27,353 2,401 1,968 1,000 0 El Salvador 2,149 7,250 1,938 5,470 1,913 5,384 164 361 26 86 Eritrea 681 666 666 352 0 Estonia 10,008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 France	ch Republic		45,561		28,470		12,020		52		16,450		0
Ecuador 12,107 16,868 10,029 15,062 9,865 10,629 848 851 164 4,433 Egypt, Arab Rep. 33,017 30,291 28,439 27,353 27,439 27,353 2,401 1,968 1,000 0 El Salvador 2,149 7,250 1,938 5,470 1,913 5,384 164 361 26 86 Eritrea 681 666 666 352 0 Estonia 1.0,008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 Finland	nmark												
Egypt, Arab Rep. 33,017 30,291 28,439 27,353 27,439 27,353 2,401 1,968 1,000 0 El Salvador 2,149 7,250 1,938 5,470 1,913 5,384 164 361 26 86 Eritrea 681 666 666 352 0 Estonia 1,0008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 France <		····	·· * ·····	•••••		•	•••••	•••••	•••••	•••••		72	204
El Salvador 2,149 7,250 1,938 5,470 1,913 5,384 164 361 26 86 Eritrea 681 666 666 352 0 Estonia 10,008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 Finland				•••••	•••••	•	•••••	•••••		•••••		265	290
Eritrea 681 666 666 352 0 Estonia 1,0008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 Finland			·· · ·····									125	0
Estonia 10,008 7,009 562 49 6,447 Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 851 3,488 0 0 Finland			·· * ·····	1,938	•••••	•	•••••	•••••	•••••		·· · ····	0	0
Ethiopia 8,630 6,574 8,479 6,351 8,479 6,351 8,479 6,351 851 3,488 0 0 Finland <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>0</td>			·····	••		•	•••••	•••••					0
Finland		····		•••••			·····						193
France <		8,630			••••••	•	ხ,351	•••••	3,488			6	183
Gabon 3,983 4,150 3,150 3,800 3,150 3,800 69 38 0 0 Gambia, The 369 674 308 622 308 622 102 247 0 0 Georgia 2,082 1,710 1,611 678 99 Germany		••	••		••	•••	••		••	••	••		
Gambia, The 369 674 308 622 308 622 102 247 0 0 Georgia 2,082 1,710 1,611 678 99 Germany		2 002	 // 150	2 150	3 000	2 150	3 000					140	100
Georgia 2,082 1,710 1,611 678 99 Germany			·····	•••••	••	•	•••••	•••••		•••••		45	25
Germany n. n. <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>266</td></t<>			·· · ·····	•••••		•	•••••						266
Ghana 3,734 7,035 2,670 5,861 2,637 5,861 1,423 4,312 33 0 Greece				••••	***************************************	•							
Greece <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> 745</td><td>469</td></th<>					•	•	•	•••••				 745	469
Guatemala 2,849 5,532 2,368 3,916 2,241 3,796 293 478 127 120		5,154	1,000	2,510			0,001		1,012				
		2.849	5.532	2.368	3.916	•	3.796	•••••	478		120	67	0
Guinea 2,476 3,538 2,253 3,188 2,253 3,188 420 1,287 0 0		2,476	3,538	2,253	3,188	2,253	3,188	420	1,287	0	0	52	122
Guinea-Bissau 692 765 630 738 630 738 146 301 0 0												5	16
Haiti 910 1,225 772 1,186 772 1,186 324 504 0 0	ti	910	1,225	772	1,186	772	1,186	324	504	0	0	38	11

		xternal ebt	_	-term ebt		Public and guarantee	-		nongua	vate aranteed nal debt		of IMF edit
	\$ mil			llions	Tot		IBRD Id IDA d	oans and credits	1	illions		llions
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Honduras	3,718	6,332	3,487	5,692	3,420	5,124	635	1,380	66	568	32	195
Hungary	21,202	63,159	17,931	50,829	17,931	20,725	1,512	220	0	30,103	330	0
India	83,628	122,723	72,462	115,199	70,974	88,699	20,996	28,507	1,488	26,499	2,623	0
Indonesia	69,872	140,649	58,242	106,463	47,982	72,917	10,385	9,939	10,261	33,546	494	9,686
Iran, Islamic Rep.	9,020	13,622	1,797	10,103	1,797	9,985	86	316	0	118	0	0
Iraq Ireland	••	••	••	••	••	••	••	••	••	••	••	••
Israel	·-				••							<u></u>
Italy		····			······							
Jamaica	4,752	6,399	4,049	5,269	4,015	5,171	672	439	34	98	357	1
Japan	4,132			0,200	4,015	3,171						<u>+</u>
Jordan	8,333	8,175	7,202	7,234	7,202	7,234	 593	1,018	0	0	94	338
Kazakhstan		32,310	.,,	28,738		3,209		1,275		25,528		0
Kenya	7,055	6,826	5,639	5,988	4,759	5,978	2,056	2,883	880	10	482	103
Korea, Dem. Rep.				-,	.,							
Korea, Rep.												
Kuwait												
Kyrgyz Republic		2,100		1,885		1,740		579		145		207
Lao PDR	1,768	2,056	1,758	2,013	1,758	2,013	131	616	0	0	8	38
Latvia		12,661		5,008		1,587		187		3,421		0
Lebanon	1,779	22,177	358	18,206	358	17,460	34	387	0	746	0	0
Lesotho	396	764	378	726	378	726	112	284	0	0	15	38
Liberia	1,849	2,706	1,116	1,168	1,116	1,168	248	263	0	0	322	347
Libya												
Lithuania		9,475		5,683		2,507		197		3,176		26
Macedonia, FYR		2,044		1,901		1,537		605		364		63
Madagascar	3,689	3,462	3,320	3,232	3,320	3,232	797	2,269	0	0	144	226
Malawi	1,558	3,418	1,385	3,297	1,382	3,297	854	2,076	3	0	115	93
Malaysia	15,328	52,145	13,422	40,713	11,592	25,560	1,102	638	1,830	15,153	0	0
Mali	2,468	3,316	2,337	3,132	2,337	3,132	498	1,441	0	0	69	145
Mauritania	2,113	2,297	1,806	2,046	1,806	2,046	264	694	0	0	70	90
Mauritius	984	2,294	910	941	762	859	195	88	148	82	22	0
Mexico	104,442	138,689	81,809	129,600	75,974	77,193 754	11,030	9,564	5,835	52,407	6,551	126
Mongolia	••	1,868 1,517		1,168	••	1,306		386 287	••	415 0		126 44
Mongolia Morocco	25,004		72 0 47	1,306 17,461	23 647		2 120	•••••	200	.	750	0
Mozambique	25,004 4,650	17,672 4,651	23,847 4,231	4,108	23,647 4,211	14,863 3,157	3,138 268	2,545 1,475	200 19	2,598 951	750 74	197
Myanmar	4,630	7,239	4,231	5,647	4,466	5,647	716	774	19	951	0	197
Namibia	-,093	1,200	7,700	5,541	+,+00	5,541	110	114				
Nepal	1,640	3,354	1,572	3,332	 1,572	3,332	668	1,491	0	0	44	22
Netherlands		3,334										
New Zealand					······································							
Nicaragua	10,745	5,145	8,313	4,403	8,313	4,125	299	1,167	0	278	0	248
Niger	1,726	1,950	1,487	1,811	1,226	1,772	461	1,106	261	39	85	135
Nigeria	33,439	35,890	31,935	31,304	31,545	31,304	3,321	1,994	391	0	0	0
Norway												
Oman	2,736	3,872	2,400	2,565	2,400	1,209	52	0	0	1,356	0	0
Pakistan	20,663	35,687	16,643	32,566	16,506	31,029	3,922	9,278	138	1,537	836	1,876
Panama	6,493	9,469	3,842	9,047	3,842	7,305	462	246	0	1,742	272	36
Papua New Guinea	2,594	2,149	2,461	1,976	1,523	1,445	349	344	938	531	61	64
Paraguay	2,105	3,433	1,732	2,765	1,713	2,453	320	268	19	312	0	0
Peru	20,044	31,296	13,959	28,679	13,629	23,500	1,188	2,834	330	5,179	755	104
Philippines	30,580	60,550	25,241	54,748	24,040	35,564	4,044	3,531	1,201	19,184	912	756
Poland	49,364	99,190	39,261	82,343	39,261	36,595	55	1,912	0	45,748	509	0
Portugal												
Puerto Rico												



		external ebt	1	g-term ebt		Public and guarante	-		nongu	ivate aranteed nal debt		of IMF edit
						\$ milli						
	\$ m	illions	\$ m	illions	T.	otal		oans and credits	\$ n	nillions	\$ m	illions
	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004	1990	2004
Romania	1,140	30,034	230	24,756	223	13,667	0	2,522	7	11,089	0	443
Russian Federation		197,335		158,624		99,646		5,743		58,978		3,562
Rwanda	712	1,656	664	1,545	664	1,545	340	1,020	0	0	0	92
Saudi Arabia												
Senegal	3,739	3,938	3,003	3,698	2,943	3,553	835	2,040	60	145	314	204
Serbia and Montenegro		15,882		13,052		9,508	••	3,302		3,545		964
Sierra Leone	1,196	1,723	940	1,520	940	1,520	92	591	0	0	108	196
Singapore		···				······································				<u>.</u>		
Slovak Republic	••	22,068		11,603		5,163	••	401		6,440		0
Slovenia				4 040								
Somalia	2,370	2,849	1,926	1,949	1,926	1,949	419	444	0	10.708	159	174
South Africa		28,500		20,591		9,793	0	23		10,798	0	0
Spain Sri Lonko	 E 063	10 007	 E 040	10.061	4.047	0.765	046	0.169	102		410	204
Sri Lanka Sudan	5,863	10,887	5,049 9,651	10,061	4,947	9,765 11,724	946 1,048	2,168 1,300	102 496	296 496	410 956	294 593
Sugan Swaziland	14,762 298	19,332 470	9,651	12,220 456	9,155 294	456	1,048	1,300	496	496	956	593
Sweden	····	···•	···•	·····								
Switzerland			••		••		••	••				
Syrian Arab Republic	 17,259	21,521	 15,108	 15,742	 15,108	 15,742	 523	24	0	0	0	0
Tajikistan	11,200	896	13,100	773	13,100	744	323	296	·· - ·······	29		122
Tanzania	6,454	7,799	5,794	6,237	5,782	6,225	1,493	3,916	 12	12	140	423
Thailand	28,095	51,307	19,771	39,819	12,460	15,323	2,530	559	7,311	24,496	1	0
Togo	1,281	1,812	1,081	1,597	1,081	1,597	398	716	0	24,430	87	27
Trinidad and Tobago	2,512	2,926	2,055	1,531	1,782	1,421	41	710	273	110	329	0
Tunisia	7,688	18,700	6,878	16,243	6,660	14,574	1,406	1,854	218	1,669	176	0
Turkey	49,424	161,595	39,924	108,188	38,870	68,212	6,429	6,230	1,054	39,976	0	21,507
Turkmenistan												
Uganda	2,583	4,822	2,160	4,498	2,160	4,498	969	3,303	0	0	282	192
Ukraine		21,652		18,279		10,729		2,168		7,551		1,605
United Arab Emirates								••				
United Kingdom								•••				
United States								••				
Uruguay	4,415	12,376	3,114	7,712	3,045	7,251	359	785	69	462	101	2,684
Uzbekistan		5,007		4,810		4,302		317		508		19
Venezuela, RB	33,171	35,570	28,159	31,218	24,509	25,852	974	294	3,650	5,366	3,012	0
Vietnam	23,270	17,825	21,378	15,412	21,378	15,412	59	3,039	0	0	112	277
West Bank and Gaza												
Yemen, Rep.	6,352	5,488	5,160	4,799	5,160	4,799	602	1,701	0	0	0	376
Zambia	6,905	7,279	4,543	6,257	4,541	5,871	813	2,637	2	386	949	890
Zimbabwe	3,279	4,797	2,681	3,604	2,496	3,558	449	983	185	46	7	293
World		s:		s	s	s	s!	s!	s			s
Low income	332,618	426,945	285,169	379,869	277,476	346,191	56,639	110,191	7,692	33,678	10,818	10,888
Middle income	1,004,055	2,328,780	813,715	1,785,050	761,412	1,147,246	80,680	120,261	52,304	637,804	23,834	85,156
Lower middle income	553,760		456,404	859,746	423,325	589,496	53,183	84,079	33,079		8,305	43,131
Upper middle income	450,295		357,311	925,304	338,086	557,750	27,497	36,182	19,225	367,554	15,529	42,024
Low & middle income		2,755,725	1,098,884		1,038,888		·····	230,452	59,996		34,652	96,044
East Asia & Pacific	234,078	588,888	194,619	403,085	172,984	269,630	25,307	42,041	21,635		2,085	10,964
Europe & Central Asia	217,224	794,943	176,378	603,687	171,457	321,739	10,429	32,978	4,921	281,947	1,305	30,735
Latin America & Carib.	444,629	778,970	352,716	639,331	327,698	433,342	35,877	41,926	25,018		18,298	43,307
Middle East & N. Africa	139,541	163,935	118,031	141,014	116,613	133,862	10,074	10,849	1,418	7,152	1,815	1,378
South Asia	124,396	193,933	107,527	181,227	105,800	152,895	30,717	50,465	1,727	28,332	4,537	2,423
Sub-Saharan Africa High income	176,805	235,056	149,612	196,576	144,336	181,970	24,916	52,193	5,276	14,606	6,612	7,238

Data on the external debt of developing countries are gathered by the World Bank through its Debtor Reporting System. World Bank staff calculate the indebtedness of these countries using loan-by-loan reports submitted by them on long-term public and publicly guaranteed borrowing, along with information on short-term debt collected by the countries or collected from creditors through the reporting systems of the Bank for International Settlements and the Organisation for Economic Co-operation and Development. These data are supplemented by information on loans and credits from major multilateral banks, loan statements from official lending agencies in major creditor countries, and estimates by World Bank and International Monetary Fund (IMF) staff. In addition, the table includes data on private nonguaranteed debt for 80 countries either reported to the World Bank or estimated by its staff.

The coverage, quality, and timeliness of debt data vary across countries. Coverage varies for both debt instruments and borrowers. With the widening spectrum of debt instruments and investors and the expansion of private nonguaranteed borrowing, comprehensive coverage of long-term external debt becomes more complex. Reporting countries differ in their capacity to monitor debt, especially private nonguaranteed debt. Even data on public and publicly guaranteed debt are affected by coverage and accuracy in reporting—again because of monitoring capacity and sometimes because of an unwillingness to provide information. A key part often underreported is military debt.

Because debt data are normally reported in the currency of repayment, they have to be converted into U.S. dollars to produce summary tables. Stock figures (amount of debt outstanding) are converted

using end-of-period exchange rates, as published in the IMF's *International Financial Statistics* (line ae). Flow figures are converted at annual average exchange rates (line rf). Projected debt service is converted using end-of-period exchange rates. Debt repayable in multiple currencies, goods, or services and debt with a provision for maintenance of the value of the currency of repayment are shown at book value.

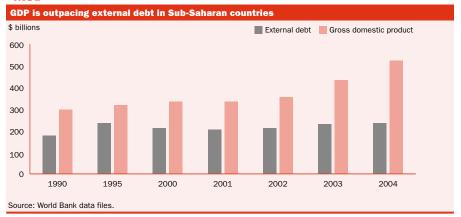
Because flow data are converted at annual average exchange rates and stock data at end-of-period exchange rates, year-to-year changes in debt outstanding and disbursed are sometimes not equal to net flows (disbursements less principal repayments); similarly, changes in debt outstanding, including undisbursed debt, differ from commitments less repayments. Discrepancies are particularly significant when exchange rates have moved sharply during the year. Cancellations and reschedulings of other liabilities into long-term public debt also contribute to the differences

Variations in reporting rescheduled debt also affect cross-country comparability. For example, rescheduling under the auspices of the Paris Club of official creditors may be subject to lags between the completion of the general rescheduling agreement and the completion of the specific bilateral agreements that define the terms of the rescheduled debt. Other areas of inconsistency include country treatment of arrears and of nonresident national deposits denominated in foreign currency.

Definitions

• Total external debt is debt owed to nonresidents repayable in foreign currency, goods, or services. It is the sum of public, publicly guaranteed, and private nonguaranteed long-term debt, use of IMF credit, and short-term debt. Short-term debt includes all debt having an original maturity of one year or less and interest in arrears on long-term debt. • Long-term debt is debt that has an original or extended maturity of more than one year. It has three components: public, publicly guaranteed, and private nonguaranteed debt. • Public and publicly guaranteed debt comprises the long-term external obligations of public debtors, including the national government and political subdivisions (or an agency of either) and autonomous public bodies, and the external obligations of private debtors that are guaranteed for repayment by a public entity. • IBRD loans and IDA credits are extended by the World Bank. The International Bank for Reconstruction and Development (IBRD) lends at market rates. The International Development Association (IDA) provides credits at concessional rates. • Private nonguaranteed external debt consists of the long-term external obligations of private debtors that are not guaranteed for repayment by a public entity. • Use of IMF credit denotes repurchase obligations to the IMF for all uses of IMF resources (excluding those resulting from drawings on the reserve tranche). These obligations, shown for the end of the year specified, comprise purchases outstanding under the credit tranches (including enlarged access resources) and all special facilities (the buffer stock, compensatory financing, extended fund, and oil facilities), trust fund loans, and operations under the structural adjustment and enhanced structural adjustment facilities.

4.16a



Data sources

The main sources of external debt information are reports to the World Bank through its Debtor Reporting System from member countries that have received IBRD loans or IDA credits. Additional information is from the files of the World Bank and the IMF. Summary tables of the external debt of developing countries are published annually in the World Bank's Global Development Finance and on its Global Development Finance CD-ROM.



		nt value debt			al debt rvice			lateral service			t-term ebt	
	% of GNI 2004	% of exports of goods, sevices, and income 2004	% o 1990	f GNI 2004		ts of goods, and income 2004		and publicly eed debt 2004	% of to 1990	tal debt 2004		ts of goods, and income 2004
Afghanistan												
Albania	17	51		1.0				49.2	••	0.1		
Algeria	32	80	14.7	7.1	63.4		5.0	28.1	2.8	2.0	5.7	
Angola	68	82	4.0	11.9	8.1	14.8	2.2	0.6	11.5	9.4	24.7	6.4
Argentina	159	510	4.6	8.6	37.0	28.5	16.2	95.7	16.8	16.3	62.9	63.3
Armenia	50	130		3.4		8.1		41.7	••	1.8		1.7
Australia												
Austria									••			
Azerbaijan	23	45		3.0		5.3		31.5		7.0		3.1
Bangladesh	26	124 30	2.4	1.1	25.8	5.2	22.8	65.0	1.3	4.6	5.4	7.3
Belgium	20	30	···	1.4	••	2.1		16.9		79.0		18.6
Belgium Benin	24 ^a	 113 ^a	2.1	1.6	8.2	••	95.7	 57.4	4.3	1.3	 11.9	••
Bolivia	38 ^a	136 ^a	8.3	6.1	38.6	18.6	67.6	94.6	3.6	2.1	15.5	4.6
Bosnia and Herzegovina	34	63	0.3	2.0	36.0	3.7	07.0	66.5	3.0	11.2	13.3	7.5
Botswana	6	12	2.9	0.6	4.4	3. <i>1</i> 	61.3	69.6	1.1	6.8	0.2	1.5
Brazil	47	258	1.8	9.2	22.2	46.8	43.5	21.4	19.8	11.4	64.4	22.0
Bulgaria	83	143		10.4		17.1	10.0	17.7	10.0	20.7	01.1	22.6
Burkina Faso	23 ^a	203ª	1.1	1.2	6.8		73.0	62.5	10.1	1.5	16.6	
Burundi	15	203	3.8	13.7	43.4		51.1	90.3	1.5	1.4	13.7	
Cambodia	68	99	2.7	0.6		0.8	0.0	71.2	7.3	7.8		7.7
Cameroon	20 ^a	72 ^a	4.9	4.6	20.5		43.5	22.7	14.4	6.4	37.9	
Canada										••	••	
Central African Republic	75	599	2.0	1.4	13.2		50.0	13.3	5.4	10.0	17.1	
Chad	33 ^a	79 ^a	0.7	1.7	4.4		72.3	76.3	5.6	1.4	10.9	
Chile	57	141	9.7	10.4	25.9	24.2	35.7	27.8	17.6	17.5	31.6	19.5
China	15	46	2.0	1.2	11.7	3.5	7.6	28.7	16.9	47.2	15.4	17.3
Hong Kong, China												
Colombia	49	204	10.2	8.2	40.9	33.0	32.2	38.7	8.4	14.2	15.1	22.9
Congo, Dem. Rep.	36	131	4.1	1.9			49.6	50.9	7.3	4.1		
Congo, Rep.	331	356	22.9	10.7	35.4		12.7	47.5	14.9	12.9	49.0	
Costa Rica	36	70	9.2	3.8	23.9	7.3	36.1	38.2	10.1	29.6	18.0	17.9
Côte d'Ivoire	90	170	13.7	3.7	35.4	6.9	77.5	32.1	20.9	5.0	101.0	7.5
Croatia	110	194		15.8		27.2		9.1		7.0		11.3
Cuba												
Czech Republic	51	71		8.2		10.5		7.1		37.5		21.6
Denmark												
Dominican Republic	39	61	3.4	4.4	10.4	6.4	50.3	25.8	17.9	13.6	35.0	8.0
Ecuador	70	205	11.9	13.0	32.5	36.0	34.8	31.8	15.0	9.0	54.4	14.6
Egypt, Arab Rep. El Salvador	32 54	108	7.3	3.0	20.4	7.6	18.7	23.0	13.5	9.7	29.6 15.5	9.7
•	54 52	123 154	4.4	4.0 2.1	15.3	8.8	60.2	53.4 50.3	9.8	24.6 2.1	15.5	25.5
Eritrea Estonia	53 111	132	••	13.8		 15.7	••	15.7	·•	30.0		32.5
Ethiopia	30 ^a	132 144 ^a	 2.8	13.8	39.0	5.3	14.6	77.7	1.7	0.6	24.0	32.5 2.1
Finland	•••••					•	··•····	•		•••••	•••	۷.۱
France			••			••	••	••	••	••	••	
Gabon	75	117	3.3	3.6	6.4	·············	32.6	 47.4	 17.4	6.0	25.2	
Gambia, The	108ª	231 ^a	12.9	8.6	22.2		25.4	65.6	4.3	4.0	9.3	
Georgia	37	100		4.1		11.2		21.0		5.1		5.5
Germany												••••••
Ghana	32 ^a	76 ^a	6.3	2.7	38.1	6.6	31.2	35.7	8.6	10.0	33.5	19.5
Greece												
Guatemala	23	88	3.1	2.0	13.6	7.4	33.4	54.6	14.5	29.2	24.4	22.0
Guinea	45 ^a	186ª	6.3	4.5	20.0	19.9	22.1	66.4	7.0	6.5	20.5	26.5
Guinea-Bissau	326 ^a	779 ^a	3.6	16.7	31.0		70.2	12.4	8.2	1.5	208.5	
Haiti	29	76	1.3	3.7	11.0		69.2	92.9	11.1	2.3	31.0	
	.	-	.				.		.			

		nt value debt			il debt rvice			lateral service			rt-term ebt	
	% of GNI 2004	% of exports of goods, sevices, and income 2004	% o	F GNI 2004		ts of goods, and income 2004		and publicly eed debt 2004	% of to 1990	tal debt 2004		rts of goods, and income 2004
Honduras	38	68	13.7	4.7	35.3	7.8	90.7	70.9	5.4	7.0	18.1	10.5
Hungary	76	108	13.4	18.1	34.3	25.2	8.0	4.6	13.9	19.5	23.9	18.1
India	18	95	2.6	2.8	31.9		22.5	9.0	10.2	6.1	33.3	
Indonesia	61	175	9.1	8.2	33.3	22.1	22.5	26.7	15.9	17.4	37.3	26.4
Iran, Islamic Rep.	9	31	0.5	1.2	3.2	••	30.5	5.1	80.1	25.8	35.8	
Iraq												
Ireland												
Israel												
Italy				•••	••	••		••••••		••		
Jamaica	89	141	15.9	9.9	26.9	14.8	38.6	23.0	7.3	17.6	14.1	20.0
Japan												
Jordan	72	101	16.5	6.0	20.4	8.2	26.8	49.3	12.4	7.4	33.7	7.1
Kazakhstan	101	182		23.1		38.0		32.9		11.1		15.5
Kenya	34	136	9.6	2.3	35.4	8.6	44.7	41.8	13.2	10.8	41.8	17.3
Korea, Dem. Rep.												
Korea, Rep.												
Kuwait				•		••		•		••		
Kyrgyz Republic	82	173		7.6		14.2		90.9		0.4		0.7
Lao PDR	76	276	1.1	2.3	8.7		53.6	74.3	0.1	0.2	2.1	
Latvia	110	239		10.0		21.2		92.5		60.5		117.7
Lebanon	121	488	2.9	21.0			27.8	2.7	79.9	17.9		
Lesotho	44	64	2.3	3.2	4.2	4.5	44.7	44.5	0.7	0.0	0.5	0.0
Liberia	760	2,133		0.2			100.0		22.2	44.0		
Libya												
Lithuania	53	96		8.2		14.3		22.7		39.8		30.7
Macedonia, FYR	39	94		4.6		10.5		40.9		4.0		3.5
Madagascar	38ª	170 ^a	7.5	1.9	45.5		23.7	67.4	6.1	0.1	46.0	
Malawi	60 ^a	186ª	7.2	3.3	29.3		38.2	79.1	3.8	0.8	12.9	
Malaysia	53	42	10.3	8.2	12.6		9.9	3.6	12.4	21.9	5.5	
Mali	33 ^a	98ª	2.8	2.2	12.3		54.3	63.8	2.5	1.2	11.3	
Mauritania	57 ^a	186ª	13.5	3.5	29.9		73.8	61.3	11.2	7.0	48.7	
Mauritius	43	69	6.6	4.3	8.8	7.4	51.6	22.4	5.3	59.0	2.9	38.5
Mexico	24	77	4.5	7.7	20.7	22.9	26.0	14.6	15.4	6.6	29.5	4.1
Moldova ^a	75	108		8.5		12.1		40.7		30.7		28.1
Mongolia	86	108		2.6		2.9		40.5		11.0		11.7
Morocco	39	91	7.2	6.1	21.6	14.0	39.8	40.4	1.6	1.2	4.9	1.0
Mozambique	17 ^a	54 ^a	3.4	1.4	26.2	4.5	30.6	54.6	7.4	7.4	115.2	18.8
Myanmar		176			18.4	3.8	43.6	2.4	4.9	22.0	69.8	48.2
Namibia												
Nepal	37	119	1.9	1.7	15.7	5.5	36.8	72.6	1.5	0.0	5.4	0.0
Netherlands												
New Zealand												
Nicaragua	35	78	1.6	2.9	3.9	5.8	21.1	55.5	22.6	9.6	602.0	22.7
Niger	25 ^a	156 ^a	4.1	1.7	17.4		71.3	83.8	8.9	0.2	27.1	
Nigeria	71	140	13.0	4.0	22.6	8.2	15.5	20.2	4.5	12.8	10.2	 15.6
Norway												
Oman	18	29	6.5	4.3	12.3	6.9	5.1	38.8	12.3	33.8	5.6	9.1
Pakistan	35	156	4.6	4.6	21.3	21.2	40.3	65.2	15.4	3.5	35.6	6.2
Panama	94	129	6.8	11.0	6.2	14.3	90.6	16.7	36.6	4.1	42.5	3.9
Papua New Guinea	66	80	17.9	13.6	37.2		23.0	40.3	2.8	5.1	4.8	
Paraguay	52	104	6.0	6.8	12.4	13.5	35.9	55.1	17.7	19.5	14.2	18.0
Peru	57	265	1.9	4.2	10.8	17.1	28.8	34.8	26.6	8.0	121.1	15.7
Philippines	73	124	8.2	12.8	27.0	20.9	28.7	12.4	14.5	8.3	33.3	9.1
Poland	45	121	1.7	14.5	4.9	34.6	9.2	24.6	19.4	17.0	48.9	16.9
	10					20	٠.٢					



		nt value debt			l debt rvice			lateral service			t-term ebt	
	% of GNI 2004	% of exports of goods, sevices, and income 2004	% o 1990	f GNI 2004	% of export sevices, a 1990	_		and publicly eed debt 2004	% of tot 1990	tal debt 2004		rts of goods, and income 2004
Romania	51	136	0.1	6.6	0.3	17.2		28.5	79.8	16.1	13.9	17.6
Russian Federation	46	120		3.7		9.8		8.5		17.8		16.3
Rwanda	15 ^a	150a	0.8	1.3	14.2	11.2	60.7	55.0	6.6	1.1	31.8	8.5
Saudi Arabia												
Senegal	22 ^a	61 ^a	5.9	4.4	20.0		39.8	36.2	11.3	0.9	25.9	
Serbia and Montenegro	77	209		4.1				81.0	••	11.8		
Sierra Leone	37 ^a	188ª	3.7	2.5	10.1	10.9	26.1	31.4	12.4	0.4	70.6	3.0
Singapore												
Slovak Republic	67	86		12.4				26.8		47.4		
Slovenia												
Somalia			1.3				100.0		12.0	25.5		
South Africa	17	54		1.8		6.4		1.5		27.8		13.2
Spain												
Sri Lanka	50	111	4.9	4.0	13.8	8.5	13.8	22.2	6.9	4.9	14.5	5.9
Sudan	151	625	0.4	1.6	8.7	6.0	100.0	18.3	28.2	33.7	724.8	124.3
Swaziland	27	25	4.9	1.8	5.7	1.7	72.9	50.1	1.5	3.0	0.6	0.5
Sweden												
Switzerland												
Syrian Arab Republic	101	249	10.0	1.4	21.8	3.5	3.5	33.5	12.5	26.9	39.4	62.5
ajikistan	41	55		5.1		6.8		11.0		0.0		0.0
anzania	22 ^{a, t}	115 ^{a, b}	4.4	1.1	32.9	5.3	52.7	80.1	8.1	14.6	95.5	50.4
hailand	35	50	6.3	7.8	16.9	10.6	22.1	42.0	29.6	22.4	26.6	9.8
-ogo	83	191	5.4	1.0	11.9		40.8	45.7	8.8	10.4	15.6	
rinidad and Tobago	31	53	9.6	3.4	19.3		4.7	31.6	5.1	47.7	5.5	
unisia	79	147	12.1	7.6	24.5	13.7	26.0	41.8	8.3	13.1	10.8	16.5
urkey	69	221	4.9	11.3	29.4	35.9	23.3	7.8	19.2	19.7	37.7	33.8
Turkmenistan												
Jganda	33 ^a	162ª	3.4	1.5	81.4	6.9	37.4	87.0	5.4	2.8	78.7	8.9
Jkraine	42	71		6.7		10.7		22.7		8.2		4.4
Jnited Arab Emirates												
Jnited Kingdom									••			
Jnited States												
Jruguay	108	351	11.0	12.2	40.8	34.9	16.2	37.3	27.2	16.0	49.7	44.8
Jzbekistan	45	123		7.1				13.3		3.6		
/enezuela, RB	45	125	10.8	6.2	23.3	16.0	1.6	16.9	6.0	12.2	9.3	10.5
/ietnam	39	65	2.9	1.8			3.4	10.4	7.7	12.0		
Vest Bank and Gaza									••			
emen, Rep.	37	66	3.5	1.9	5.6	3.5	51.0	58.4	18.8	5.7	39.4	4.9
Zambia	36	112	6.7	8.3	14.7		41.0	48.2	20.5	1.8	103.8	
Zimbabwe	33	264	5.5	2.0	23.2		24.0	32.9	18.0	18.8	29.0	
World			w			w		w	w	w		
.ow income			3.9	3.0	22.4	10.1	27.7	24.8	11.0	8.5	39.9	17.7
Middle income			4.7	6.0	19.4	15.0	18.1	20.9	16.6	19.7	29.0	17.3
Lower middle income			4.1	4.5	24.3	13.1	22.3	26.9	16.1	20.8	30.1	16.5
Upper middle income				8.1	15.6	17.0	13.5	14.9	17.2	18.6	27.5	18.3
ow & middle income			4.5	5.6	19.8	14.5	19.4	21.4	15.2	18.0	30.5	17.3
East Asia & Pacific			4.8	3.0	17.5	6.8	17.7	23.0	16.0	29.7	20.5	16.8
Europe & Central Asia				8.9		19.6	10.0	14.3	18.2	20.2	36.0	19.8
Latin America & Carib.		<u>.</u>	4.2	8.1	23.8	26.4	27.6	24.4	16.6	12.4	39.7	16.2
Middle East & N. Africa			6.3	4.4	21.4	10.6	13.1	24.3	14.1	13.1	22.5	12.9
South Asia			2.9	2.9	27.6	12.4	25.3	21.2	9.9	5.3	30.1	6.1
Sub-Saharan Africa			••	2.9	13.5	7.9	30.0	23.0	11.6	13.3		18.0
ligh income												

a. Data are from debt sustainability analyses undertaken as part of the Heavily Indebted Poor Countries Initiative. Present value estimates for these countries are for public and publicly guaranteed debt only. b. Data refer to mainland Tanzania only.

The indicators in the table measure the relative burden on developing countries of servicing external debt. The present value of external debt provides a measure of future debt service obligations that can be compared with the current value of such indicators as gross national income (GNI) and exports of goods and services. The table shows the present value of total debt service both as a percentage of GNI in 2004 and as a percentage of exports in 2004. The ratios compare total debt service obligations with the size of the economy and its ability to obtain foreign exchange through exports. The ratios shown here may differ from those published elsewhere because estimates of exports and GNI have been revised to incorporate data available as of February 1, 2006. Exports refer to exports of goods, services, and income. Workers' remittances are not included here, though they are included with income receipts in other World Bank publications such as Global Development Finance.

The present value of external debt is calculated by discounting the debt service (interest plus amortization) due on long-term external debt over the life of existing loans. Short-term debt is included at its face value. The data on debt are in U.S. dollars converted at official exchange rates (see *About the data* for table 4.16). The discount rate applied to long-term debt is determined by the currency of repayment of the loan and is based on reference rates for commercial interest established by the Organisation for Economic Co-operation and Development. Loans from the International Bank for Reconstruction and Development (IBRD) and credits from the International Development Association (IDA) are discounted using a special drawing

rights reference rate, as are obligations to the International Monetary Fund (IMF). When the discount rate is greater than the interest rate of the loan, the present value is less than the nominal sum of future debt service obligations.

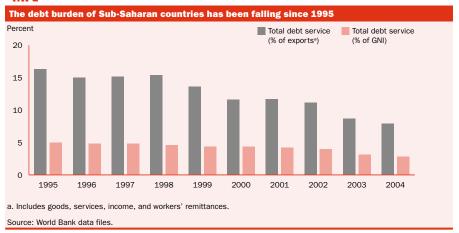
The ratios in the table are used to assess the sustainability of a country's debt service obligations, but there are no absolute rules to determine what values are too high. Empirical analysis of the experience of developing countries and their debt service performance has shown that debt service difficulties become increasingly likely when the ratio of the present value of debt to exports reaches 200 percent. Still, what constitutes a sustainable debt burden varies from one country to another. Countries with fast-growing economies and exports are likely to be able to sustain higher debt levels.

The most indebted low-income countries may be eligible for debt relief under special programs, such as the Heavily Indebted Poor Countries Debt Initiative. Indebted countries may also apply to the Paris and London Clubs for renegotiation of obligations to public and private creditors. The World Bank no longer classifies countries by their level of indebtedness for the purposes of developing debt management startegies.

Definitions

- . Present value of debt is the sum of short-term external debt plus the discounted sum of total debt service payments due on public, publicly guaranteed, and private nonguaranteed long-term external debt over the life of existing loans. • Exports of goods, services, and income refer to international transactions involving a change in ownership of general merchandise, goods sent for processing and repairs, nonmonetary gold, services, receipts of employee compensation for nonresident workers, and investment income. . Total debt service is the sum of principal repayments and interest actually paid on total long-term debt (public and publicly guaranteed and private nonguaranteed), use of IMF credit, and interest on short-term debt. • Multilateral debt service is the repayment of principal and interest to the World Bank, regional development banks, and other multilateral and intergovernmental agencies.
- **Short-term debt** includes all debt having an original maturity of one year or less and interest in arrears on long-term debt.

4.17a



Data sources

The main sources of external debt information are reports to the World Bank through its Debtor Reporting System from member countries that have received IBRD loans or IDA credits. Additional information is from the files of the World Bank and the IMF. Data on GNI and exports of goods and services are from the World Bank's national accounts files and the IMF's Balance of Payments database. Summary tables of the external debt of developing countries are published annually in the World Bank's Global Development Finance and on its Global Development Finance CD-ROM.



ffective governments improve people's standard of living by ensuring access to essential services, such as health, education, water and sanitation, electricity, and transport, and the opportunity to live and work in peace and security. Countries confront different development challenges and face unique constraints. The main elements to get right are economic management, regulation, and taxation; efficient financial and labor markets; public safety and security; and the building and maintenance of infrastructure. Together, they provide an environment of incentives and opportunities in which firms and individuals can invest and work productively. This section brings together indicators that measure the actions of governments and the responses of markets through three cross-cutting development themes: managing the public sector, developing the private sector, and providing infrastructure.

Without good governance, other reforms have limited impact

In successful, high-growth economies such as Botswana, China, India, the Republic of Korea, Mauritius, and Singapore, the state has played an important role in attracting investment; improving productivity, technology, and competitiveness; and promoting property rights, contract enforcement, and economic and political stability. Institutions differ in each of these countries, as do the choices of legal regimes, balance between regulation and competition, size of the public sector, and flexibility of fiscal and monetary policies. Solutions that work in one place may not work in another. And while an accountable and capable state with strong institutions has come to be recognized as fundamental to economic and social development, it is still difficult to quantify what is meant by good governance or to measure the quality of institutions. More research is needed to understand the role of institutions and how to improve them in countries with weak institutions.

Many African leaders recognize that building strong institutions and improving public sector management are needed to encourage investment and economic growth and that poverty reduction is impossible without that. Improving public revenue and expenditure management is on the agenda of several African countries and is also a priority of the New Partnership for Africa's Development.

Many countries are using public expenditure tracking surveys to identify shortcomings in the delivery of public services, including Cameron, Ghana, Madagascar, Mozambique, Rwanda, Senegal, Tanzania, Uganda, and Zambia. Expenditure transactions can be complex, with leakages and diversions common in a range of processes, including procurement. Such surveys map and track specific expenditure flows from allocation through intended use. In Uganda a survey conducted in 1996–99 increased intended resources arriving at a school from an average of 13 percent to 78 percent (World Bank 2005c). Although such surveys are not a substitute for broad strengthening of public sector financial management, they can help in understanding weaknesses in public financial management capacity and accountability mechanisms at various levels.

Improving the investment climate for increased private sector investment, growth, and poverty reduction

Better policies, institutions, physical infrastructure, and human resources are needed to attract domestic and foreign investors and to improve the efficiency of firms. But the goal is an investment climate that benefits society, not just firms.

What can governments do to attract the investment needed for its citizens? They can create stability. Combat corruption by public officials, firms, and other interest groups. Foster trust and legitimacy through participatory policymaking and transparency. And develop policies that address current economic and business conditions. Investment climate surveys draw data directly from firms and cover both objective and subjective indicators. Investment climate indicators cover eight factors that influence investment decisions, from policy uncertainty and corruption to reliability of electricity and the availability of skilled labor and labor regulations (table 5.2).

In investment climate surveys senior managers ranked policy uncertainty as the main business constraint. These surveys tell us that, compared with other developing country regions, Sub-Saharan Africa is a high-cost, high-risk place to do business, resulting in less investment, less employment, lower incomes, less growth and competitiveness, and higher poverty. Overall, doing business in Africa costs about 20–40 percent more than in other developing country regions. Costs are higher because of burdensome regulations, difficulty securing property rights, ineffective courts, weak infrastructure, and uncompetitive services. Because 80 percent of investment is from domestic sources, institutions and policies in Africa need to focus on the domestic investment climate, especially for agriculture and in rural areas. In 14 African countries with investment climate surveys, the high cost of financing for firms is the number one complaint.

New studies of business regulations and their enforcement have been conducted in 155 countries jointly by the International Finance Corporation and World Bank through the Doing Business survey program. The Doing Business findings are based on responses to objective questions using standardized surveys of experts, usually lawyers and accountants. These surveys complement the investment climate surveys by comparing the ease of doing business in 10 areas ranging from starting a business and dealing with licenses to hiring and firing, protecting investors, trading across borders, enforcing contracts, and closing a business. Data on most of these dimensions of doing business are presented in tables 5.3 and 5.6.

Doing Business surveys have been conducted in 33 African countries. One conclusion of the *Doing Business 2006* report: more reform is needed in Africa (figure 5a). Entrepreneurs face greater regulatory obstacles in Africa than in any other region. Of the 16 countries surveyed in West Africa just 2 carried out business regulation reforms. In the region as a whole for every three countries that improved regulation, one made it more burdensome.

5a

Africa had the lowest business environment reform intensity in 2004



But in some African countries, like Rwanda, reforms are paying off. In 2001 Rwanda introduced new company and labor laws. Land titling reforms followed in 2002. In 2004 Rwanda was among the top reformers: it streamlined customs procedures, improved credit registries, and simplified judicial procedures. Since initiating reform, Rwanda has had economic growth averaging 3.6 percent a year—among the highest for non-oil-producing states in Africa. Uganda has also benefited from an improved investment climate, posting GDP growth of about 7 percent a year during 1993–2002 and reducing poverty measured by a national poverty line from 55 percent in 1993 to 37.7 percent in 2000. Other African countries that have made progress in business reform include Mauritius, Namibia, Nigeria, and South Africa.

Infrastructure for development

Infrastructure services affect people in many ways—what they consume and produce; how they heat and light their homes; how they travel to work, to school, or to visit friends and family; and how they communicate, share information, and learn at home, school, and work. And the profitability and competitiveness of businesses depend on the cost and availability of infrastructure services such as the power and fuel used to operate machines or the transportation services needed to deliver raw materials to factories and finished products to market.

Physical isolation is a strong contributor to poverty. Populations without reliable access to social and economic services are poorer than those with reliable access. Problems of access are particularly severe in rural areas far from roads

used regularly for motorized transport services. An estimated 900 million rural dwellers in developing countries, most of them poor, are without reliable access.

In many developing countries increasing agricultural productivity is central to rural development and poverty reduction strategies. Improved rural transport makes it easier for farmers to obtain inputs and advice at reasonable cost and to sell their products at good prices. Farmers with difficult access to local markets earn less for their products than farmers with easier access, and increases in output are associated with agricultural areas with improved roads.

An indicator has been developed to measure rural transport access based on the proportion of the rural populations that lives within 2 kilometers of an all-season road (a road that can be used all year by the prevailing means of rural transport, often a pick-up or other truck without four-wheel drive). Predictable interruptions of short duration during inclement weather (for example, heavy rainfall) are accepted, particularly on low-volume roads. The rural access index, calculated from representative household surveys, is shown for selected International Development Association (IDA)—eligible countries, in table 5b.

Values of the rural access index were also calculated on the basis of rural population, road length, and arable land area for more that 30 other countries (mainly non-IDA recipients) for which there are no suitable household survey results. The values for 64 countries (representing 85 percent of the world's rural population) show that 57 percent of rural inhabitants in IDA countries enjoy adequate access compared with 87 percent in non-IDA countries. Among developing country regions, Sub-Saharan Africa had the lowest level of rural access (30 percent), followed by Middle East and North Africa (34 percent),

5b

Rural access index for selected low-income countries (% of rural population)									
Country	Index	Country	Index						
Albania	31	Kenya	44						
Azerbaijan	67	Lao PDR ^a	59						
Bangladesh	37	Madagascar	25						
Benin	32	Malawi	38						
Burkina Faso	25	Mongolia	36						
Burundi	19	Nicaragua	28						
Cambodia ^a	87	Niger	37						
Cameroon	20	Nigeria	47						
Chad	5	Pakistan	77						
Congo, Dem. Rep	26	Papua New Guinea	68						
Ethiopia	17	Tajikistan	74						
Gambia, The ^b	77	Tanzania	38						
Ghana	34	Uzbekistan	57						
Guinea ^c	22	Vietnam	73						
India	60	Yemen, Rep.	21						
Indonesia	94								

Note: Based on surveys between 1997 and 2003.

- a. Nonstandard measurement process resulting in a higher index value.
- b. Survey conducted during 1994–96.
- c. Survey conducted in 2004

Source: World Bank Transport Technical Paper based on household surveys.

Latin America and the Caribbean (54 percent), South Asia (58 percent), Europe and Central Asia (75 percent), and East Asia (94 percent).

Improvements in roads and transport services generally have significant positive effects on school attendance. In Morocco in the early 1990s a paved road in the community more than doubled girls' school attendance rates from 21 percent to 48 percent and raised boys' attendance rates from 58 percent to 76 percent, according to survey findings. In health, transport services play several important roles: ensuring adequate and reliable availability of food, providing medical supplies, transporting health personnel to facilities, and the most difficult role, bringing people to medical stations, whether for urgent care or regular treatment.

Information and communication technology has the potential for reducing poverty and fostering growth in developing countries. Mobile phones provide market information for farmers and businesspeople, the Internet delivers information to schools and hospitals, and computers improve public and private services and increase productivity and participation. Firms that use information and communication technology grow faster, invest more, and are more productive and profitable than those that do not. A survey of firms in developing countries found that sales growth is 3.4 percentage points higher and value added per employee is \$3,400 higher in firms that use email to do business with clients and suppliers. And by making information accessible to more people, information and communication technology enhances social inclusion and promotes more effective, accountable governments.

Africa lags behind other regions in most infrastructure indicators. The high cost and poor quality of infrastructure services—transport, energy, water and sanitation, and information and communication technology—have limited growth potential. For Africa to reach the Millennium Development Goal of halving poverty by 2015, average growth rates need to reach 7 percent a year. That will require annual investment of \$20 billion in infrastructure, about twice as much as Africa has historically invested. About 40 percent of that needs to go into roads and 20 percent each into energy and water (World Bank 2005c).

Financing these infrastructure needs in Africa will require a concerted effort from all funding sources, public and private. Led by the African Union and the New Partnership for Africa's Development, and including the African Development Bank and the World Bank, the Africa Infrastructure Consortium is working to mobilize and allocate infrastructure resources to support country and regional projects. The goal is to improve infrastructure, whether services are delivered by public or private providers or jointly. Reformers need to consider multiple factors—the strength of institutions, regulatory rules, fiscal health, investor interest, the competitiveness of markets, and other specific characteristics that influence the performance of public and private operators.





Private sector in the economy

		Investment in infrastructure projects with private participation ^a							Domestic credit to private sector		Micro, small, and medium-size enterprises ^b	
			\$ millions			Water and				number	Employment	
	Telecomr 1995–99	munications 2000-04	En 1995–99	nergy 2000–04	Trar 1995–99	1sport 2000-04	sani 1995–99	tation 2000-04	1990	of GDP 2004	of firms 2000-04	% of total 2000-04
Afghanistan		204.0										
Albania		443.2	0.0	8.0				0.0		9.9	35,694	56.7
Algeria		2,052.5							44.4	11.0	580,000	
Angola		278.7		45.0		55.0				5.4		
Argentina	10,498.6	5,130.2	13,093.6	3,389.5	8,848.1	200.2	3,473.6	688.9	15.6	10.5		
Armenia	442.0	94.1	0.0	47.0		50.0		0.0		7.8	34,000	31.3
Australia									61.6	102.4	1,269,000	52.3
Austria									89.7	105.6	252,399	65.3
Azerbaijan	122.0	232.6		375.2				0.0		9.1	21,178	5.0
Bangladesh	438.1	651.3	554.9	501.5	0.0	0.0			16.7	30.1	177,000	80.0
Belarus	20.0	534.3	500.0							14.0	237,467	9.7
Belgium									37.0	73.1	437,000	69.3
Benin		106.9							20.3	14.5		
Bolivia	528.0	471.5	2,777.3	679.8	168.7	16.6	682.0		24.0	42.2		
Bosnia and Herzegovina	0.0	0.0								43.8	75,000	62.6
Botswana	97.0	85.0							9.4	19.0	16,466	
Brazil	45,052.4	36,039.1	34,196.8	24,638.9	17,460.5	3,082.6	2,137.0	1,587.6	38.9	35.1	4,667,609	56.5
Bulgaria	202.5	1,418.6		1,246.0				152.0		37.1	224,211	64.7
Burkina Faso		41.9	5.6						16.8	14.9		
Burundi		53.6							8.6	22.6		
Cambodia	102.4	79.3	143.0	38.1	120.0	125.3				9.3		
Cameroon	12.7	365.4		91.9	95.0	0.0			26.7	9.9		
Canada							•		75.9	86.0	2,374,247	65.0
Central African Republic	1.1								7.2	7.2	2,011,211	00.0
Chad	2.0	11.0		0.0					7.3	3.3		
Chile	3,489.0	3,134.6	6,808.6	1,224.2	3,104.1	4,499.0	3,111.2	1,563.0	47.2	63.1	700,000	95.0
China	5,970.0	8,495.0	16,916.2	5,359.1	10,802.8	5,201.1	719.8	2,332.8	87.7	120.1	25,110,000	78.0
Hong Kong, China	0,010.0	0,100.0	10,010.2	0,000.1	10,002.0	0,201.1	110.0	2,002.0	163.7	150.2	284,000	60.0
Colombia	1,384.3	715.5	6,964.8	107.6	995.5	1,160.5	233.0	237.3	30.8	22.8	967,315	49.0
Congo, Dem. Rep.	68.0	431.4	0,504.0	107.0	0.0	1,100.5	200.0	201.0	1.8	1.5	301,313	40.0
Congo, Rep.	12.2	61.8	325.0			······································		•••••	15.7	3.2		
Costa Rica			301.2	80.0	••	161.0	••	••	15.8	32.3	40.921	54.3
Côte d'Ivoire	752.3	114.9	260.6	*	178.0	140.0		·•	36.5	32.3 14.4	40,921	34.3
Croatia				7.1		405.0		200.7	30.3		06 146	40.0
	978.0	926.5 60.0	368.5 165.0	7.1	672.2	405.0	••	298.7 600.0	••	57.5	96,146	40.0
Cuba Czech Republic	6 170 F		··· ·	2 965 2	2027		440	318.3		33.4	2 250 504	62.2
	6,178.5	4,751.6	944.1	3,865.3	283.7	106.7	44.9		 52.2		2,350,584	62.2
Denmark Denminican Popublic	162.0	306.0		1 264 4	••	900 0	••		52.2	160.3	205,000	78.4
Dominican Republic	163.0	306.8	979.0	1,264.1		898.9			27.5	27.9		
Ecuador	696.4	197.0	30.0	302.0	686.8	20.0		550.0	13.6	22.5		
Egypt, Arab Rep.	1,914.5	2,049.9	700.0	678.0	123.9	735.3	••		30.6	54.5	2,500,000	••
El Salvador	610.5	668.1	900.2	85.0					19.1	40.5	465,969	
Eritrea		40.0		••			••		••	32.8		
Estonia	628.2	244.7	26.5		1.0	298.4		81.0		42.4	32,801	55.0
Ethiopia				300.0					19.5	24.3		
Finland									86.6	68.7	221,000	59.2
France									94.3	90.8	2,971,178	62.7
Gabon	8.4	26.6	624.8		46.7	85.6			13.0	8.6		
Gambia, The		6.6							11.0	11.7		·
Georgia	61.0	142.8	159.0	13.0						9.7	25,593	50.6
Germany			••						88.7	112.3	3,008,000	70.4
Ghana	491.1	101.3	383.8	184.0		10.0			4.9	13.1	25,679	66.0
Greece						···			36.3	78.6	771,000	74.0
Guatemala	1,366.3	440.2	1,223.2	110.0	33.8				14.2	19.8		
Guinea	120.3	18.0	36.4				0.0			3.6		
Guinea-Bissau	••	21.3							22.0	1.5		···········
Haiti	1.5	18.0	4.7						12.6	15.6		

Private sector in the economy 5.1



				nent in infra th private p	-	-			cre	mestic edit to te sector	Micro, sm mediun enterpr	n-size
				\$ mil				er and			number	Employment
	Telecomr 1995–99	munications 2000-04	En 1995–99	ergy 2000–04	Trar 1995–99	2000-04	sani 1995–99	2000-04	1990	of GDP 2004	of firms 2000-04	% of total 2000-04
Honduras	51.3	94.3	112.1	358.8	10.5	120.0		220.0	31.1	42.0	257,422	
Hungary	6,430.2	4,632.7	3.812.1	260.6	135.0		178.5	0.0	46.6	46.5	855,058	55.8
India	7,456.8	14,321.9	7,165.6	7,559.8	1,272.8	1.854.3		223.2	25.2	37.1		
Indonesia	9,103.9	4,989.6	9,942.1	315.6	2,223.1	590.3	882.8	36.7	46.9	23.6	41,362,315	
Iran, Islamic Rep.	28.0	345.0		650.0					32.5	38.3		
Iraq		420.0										
Ireland									47.6	136.9	97,000	72.1
Israel									57.6	92.2	391,106	44.0
Italy									56.5	87.8	4,486,000	73.0
Jamaica	235.5	700.3	43.0	201.0	0.0	565.0			36.1	18.1		
Japan									175.7	99.5	5,712,191	88.0
Jordan	39.9	1,351.0			182.0	0.0	0.0	169.0	72.3	72.1	139,844	54.5
Kazakhstan	1,633.5	669.2	1,825.0	300.0				40.0		28.3		
Kenya	193.0	787.0	189.0		53.4				32.7	26.8	22,014	74.2
Korea, Dem. Rep.												
Korea, Rep.									62.8	98.2	2,948,171	86.7
Kuwait									0.0	71.6		
Kyrgyz Republic	100.0	9.1								7.1	22,670	62.2
Lao PDR	157.1	77.7	535.5		······································	0.0			1.0	6.5	22,010	<u>V</u> 2.2
Latvia	600.9	609.4	106.0	71.1	75.0					44.8	32,571	36.6
Lebanon	485.7	138.1				153.0		0.0	79.4	75.9		
Lesotho	15.7	85.4		0.0					15.8	6.5		
Liberia		50.0	•	•••••	•••••	······	••••••		0.0	6.1	•	
Libya		30.0							31.0	16.9		
Lithuania	832.7	933.0	10.0	399.3						25.9	55,825	70.6
Macedonia, FYR		706.6			•••••	······	••••••	•		23.2	27,938	······································
Madagascar	10.1	12.6				20.3			16.9	10.0	21,000	····································
Malawi	23.1	11.3			6.0				10.9	8.4	747,396	38.0
Malaysia	4,187.6	2,253.0	1,610.2	5,048.1	8,200.1	3,347.3	1,084.4	48.1	69.4	130.1	204,669	
Mali	-,107.0	82.6	1,010.2	747.0	0,200.1	0,047.0	1,004.4	40.1	12.8	20.1	204,000	
Mauritania		119.7		1 11.0					43.5	25.9	••••	
Mauritius	•••••	406.0	109.3		42.6		••	••	35.6	59.5	75,267	
Mexico	10,757.5	14,743.6	2,095.8	6,494.3	4,988.5	1,047.3	276.5	520.7	17.5	16.7	2,891,300	71.9
Moldova	84.6	17,143.0	60.0	25.3	- ,,,,,,,,,,,	1,041.3	210.3	520.1		21.3	20,518	8.2
Mongolia	21.9	21.6	30.0		••	·····		••	••	32.0	20,010	0.2
Morocco	1,240.0	5,233.0	5,819.9	1,049.0		······································	1,000.0		34.1	56.7	450,000	······································
Mozambique	29.0	109.0	5,013.3	1,200.0	441.0	797.1	0.6		17.6	2.1	•••••	
Myanmar	4.0	··•····	394.0		50.0	··········	• • • • • • • • • • • • • • • • • • • •		4.7	2.1 12.1		······································
Namibia	53.2	35.2	4.0	1.0		 450.0		0.0	22.6	50.4		<u>.</u>
Nepal		20.0	98.2	39.0	··•······	··•·····	••	0.0	12.8	50.4	••	••
Netherlands		··•····	·· ·· ·····	• • • • • • • • • • • • • • • • • • • •					79.9	 166.3	570,000	58.5
New Zealand	••								76.0	121.1	323,998	29.2
Nicaragua	24.5	240.3	232.4	115.0		104.0			112.6	26.8	•	∠3.∠
Niger	······	99.9		• • • • • • • • • • • • • • • • • • • •		··•····		4.9	12.3	6.2		······································
Nigeria	69.0	4,639.7		709.0		22.8		4.3	9.4	15.6		
Norway		٦,٥٥٥.١	••	108.0	••	۷۷.۵			81.7	9.9	288,368	56.9
Oman			183.0	1,364.3	77.5	473.8		••	20.6	9.9 34.9		
Pakistan	75.5	1,877.7	4,298.3	1,004.3	421.3	473.8			24.2	29.3		
Panama	1,429.2	10.7	669.2	395.7	994.6	51.4	25.0	••	46.7	91.2	••	······································
Papua New Guinea		··•·····	65.0	•••••	··•·······	··•····	175.0		28.6	11.0	••	······································
•	199.3	77.6	00.0		 58.0	·····	113.0		28.6 15.8	15.4	••	
Paraguay Peru	4,774.5	1,948.4	3,004.9	2,092.6	86.3	239.5		56.0	11.8	18.6	 509,424	
Philippines	5,154.6	3,719.0	6,998.0	2,793.7	1,364.0	1,060.5	5,847.7	0.0	22.3	34.8	806,866	70.4
Poland	4,751.1	15,673.7	628.1	2,793.7	1,364.0	657.5	6.1	21.8	21.1	27.7	1,654,822	68.0
Portugal		······	·· ·· ·····		···•······	······		∠1.0	49.1	150.3	693,000	81.6
Puerto Rico									·· · ·····	····•	•	
FUELLO KICO											2,069	43.6





5.1 Private sector in the economy

Romania 2,072.8 Russian Federation 4,665.6 1 Rwanda 8.0 Saudi Arabia Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkey 3,269.7 Turkey 3,269.7 Turkey 3,269.7 Turkey 3,269.7			nent in infra ith private p	•	•			cre	mestic edit to te sector	Micro, sm mediun enterpi	n-size
Russian Federation 4,665.6 1 Rwanda 8.0 Saudi Arabia Senegal 273.9 Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Lurkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Kingdom	unications 2000–04	En 1995–99	\$ mil ergy 2000–04		nsport 2000–04		er and itation 2000–04	% (1990	of GDP 2004	number of firms 2000-04	Employment % of total 2000-04
Russian Federation 4,665.6 1 Rwanda 8.0 Saudi Arabia Senegal 273.9 Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Turikey 3,269.7 Turkey 3,269.7 Turkey 3,269.7 Turkenenistan Uganda 119.3 Ukraine 1,094.6	2.355.9	100.0		23.4			1,134.0		10.0	347,064	
Rwanda 8.0 Saudi Arabia Senegal 273.9 Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkey 3,269.7 Turkenenistan Uganda 119.3 Ukraine 1,094.6 United Kingdom United Kingdom	13,404.3	2,281.3	14.0	406.0	109.4	108.0	480.5		24.5	8,441,000	49.0
Senegal 273.9 Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thaliand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkey 3,269.7 Turkenenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Urguay<	39.3		0.0					6.9	10.7		
Senegal 273.9 Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thaliand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkey 3,269.7 Turkenenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Urguay<	8,537.0			55.0	190.0		52.0	54.7	55.9		
Serbia and Montenegro 1,590.0 Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thaliand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkenenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezu	342.6	124.0				6.3	0.0	26.5	21.2		
Sierra Leone 7.0 Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Turisia Turkey 3,269.7 Turkey 3,269.7 Turkenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB	830.6						0.0			68,220	70.4
Singapore Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United Kingdom United States Uruguay 63.7 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Ga	48.5						0.0	3.2	4.7	00,220	10.1
Slovak Republic 488.5 Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United Kingdom Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zam	40.0		·· · ·····	·· ·· ·····	······································		••	96.8	106.9	134,098	51.2
Slovenia Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe	2,359.8		3,323.6			0.0	••		31.2	70,553	66.0
Somalia 0.0 South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Turisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 50.3.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World			ن,ن∠ی.ن	••	••		••	••	46.3	93,392	64.1
South Africa 5,978.3 Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Turisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income	3.0	••	••	••	••	••	••				····
Spain Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkey 3,269.7 Turkey 3,269.7 Turkey 1,094.6 Unjanda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe		 2 N	1.244.3	1 206 /	 504.7	209.3	3.2	 91 0	1/1/2	••	
Sri Lanka 601.9 Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Turisia Turkey 3,269.7 Turkey 3,269.7 Turkey 3,269.7 Turkey 1,094.6 Unjanda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe<	9,144.0	3.0	1,244.3	1,386.4	504.7		3.2	81.0	141.3	2.059.631	••
Sudan 6.0 Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 Middle income 162,329.7 Low m		470.0	420.0				••	77.7	125.4	3,058,631	
Swaziland 21.2 Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World * Low income 11,627.2 2 Middle income 11,413.3 8 Low middle income	524.3	176.3	132.0	240.0				19.6	31.5	131,387	27.6
Sweden Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World * Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 17,188.4 8 Low & middle income 17,188.4 8 </td <td>991.1</td> <td></td> <td>••</td> <td>••</td> <td>••</td> <td>••</td> <td>••</td> <td>4.8</td> <td>7.7</td> <td></td> <td>••</td>	991.1		••	••	••	••	••	4.8	7.7		••
Switzerland Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World * Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 17,188.4 8 Low & middle income 17,188.4 8 Low & middle income	24.7						••	20.7	19.5		
Syrian Arab Republic Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World * Low income 11,627.2 Middle income 162,329.7 Lower middle income 71,188.4 Upper middle income 173,956.9 East Asia & Pacific 29,304.5 Europe & Central Asia 36,751.4 Eutin A								127.4	105.9	868,497	39.3
Tajikistan 1.2 Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uriguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 17,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5	·····							162.6	161.2	343,000	75.3
Tanzania 100.2 Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. <td< td=""><td>191.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.5</td><td>10.2</td><td></td><td></td></td<>	191.0							7.5	10.2		
Thailand 4,190.5 Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 71,188.4 8 Low & middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib.	8.5		16.0						17.4	92,964	25.0
Togo 5.0 Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 71,188.4 8 Upper middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	391.1	150.0	340.0	16.5	6.5		4.8	13.9	9.0	2,700,000	
Trinidad and Tobago 146.7 Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	2,788.0	6,550.4	3,950.4	1,791.4	939.0	239.4	261.1	83.4	97.4	842,360	18.0
Tunisia Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	0.0	0.0	67.7	0.0				22.6	16.0		
Turkey 3,269.7 Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6		207.0				0.0	120.0	40.0	27.8		
Turkmenistan Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	610.0	265.0						55.1	65.2		
Uganda 119.3 Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	5,372.8	2,992.2	4,835.0	610.0	359.8	942.0		16.7	20.5	210,134	64.3
Ukraine 1,094.6 United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6									1.9		
United Arab Emirates United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 15 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	242.6		18.1				0.0	0.0	6.8	160,453	
United Kingdom United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 13 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	1,473.5		160.0						25.0	283,398	20.2
United States Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World \$ Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 18 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 58 Latin America & Carib. 86,705.0 66								38.0	53.5		
Uruguay 63.7 Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep Zambia 32.8 Zimbabwe 46.0 World \$ Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 18 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 58 Latin America & Carib. 86,705.0 66								115.8	156.3	4,352,275	39.5
Uzbekistan 503.8 Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6								144.0	249.2	5,680,914	50.1
Venezuela, RB 4,877.9 Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	105.8	86.0	330.0	20.0	280.2		351.0	32.4	30.4		
Vietnam 248.0 West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	189.7									237,500	57.0
West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	2,639.5	103.0	30.0	268.0	34.0	29.0	15.0	26.2	11.2	11,314	
West Bank and Gaza 265.0 Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	380.0	435.5	2,192.0	85.0	30.0	38.8	174.0		58.9	59,831	85.7
Yemen, Rep. Zambia 32.8 Zimbabwe 46.0 World Low income 11,627.2 2 Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	256.7		150.0			9.5					
Zambia 32.8 Zimbabwe 46.0 World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	358.0			190.0				6.1	7.7		
Vorid Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	81.4	277.0	12.4					8.9	8.0		
World s Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	59.0	600.0		85.0				23.0	22.3		
Low income 11,627.2 2 Middle income 162,329.7 1 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6										25,102,874	
Middle income 162,329.7 17 Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	28,029.4	16,349.4	14,156.8	3,014.0	3,157.8	220.7	406.9	22.1	31.2	224,693	
Lower middle income 91,141.3 8 Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	171,333.8	137,624.9	81,914.1	66,579.6	28,069.2	21,239.7	11,956.8	43.1	59.7	7,160,980	
Upper middle income 71,188.4 8 Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	84,325.1	100,450.1	47,260.2	36,250.7	15,234.3	11,751.2	7,376.5	51.3	75.9	100,593	71.0
Low & middle income 173,956.9 19 East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	87,008.7	37,174.8	34,653.9	30,328.9	12,834.9	9,488.5	4,580.3	32.4	37.7	7,060,387	*
East Asia & Pacific 29,304.5 2 Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	199,363.2		·····	69,593.6	31,227.0	21,460.4	12,363.7	39.2	55.6	7,385,673	······································
Europe & Central Asia 36,751.4 5 Latin America & Carib. 86,705.0 6	23,042.7		19,697.0	24,636.4	11,293.5	8,987.9	2,852.7	73.7	105.2	43,073,436	75.2
Latin America & Carib. 86,705.0 6		13,812.8	·· · ····	2,375.7	···•	·· * ······			····		
	58,017.2		17,244.0		1,986.8	1,279.5	2,526.3		26.6	3,528,759	••
	68,076.9	74,159.1	41,898.5	37,723.4	12,517.8	9,967.3	6,579.6	28.6	25.7	3,632,221	••
	13,005.2	6,967.9	3,891.3	573.4	1,412.1	1,009.5	169.0	34.5	39.8	139,844	
•••••••••••••••••••••••••••••••••••••••	17,612.5	12,293.3	8,232.3	1,934.1	1,901.3		223.2	24.2	35.7	177,000	
III-de les esses	19,608.7	3,151.3	5,107.8	2,350.6	2,115.5	216.2	12.9	42.4	67.0	47,693	
High income Europe EMU	8,537.0			55.0	190.0		52.0	119.8 78.6	159.1 106.0	17,717,201 6,306,542	60.4 68.6

a. Data refer to total for the period shown. b. Data are for the most recent year available.

About the data

Private sector development and investment—that is, tapping private sector initiative and investment for socially useful purposes—are critical for poverty reduction. In parallel with public sector efforts, private investment, especially in competitive markets, has tremendous potential to contribute to growth. Private markets are the engine of productivity growth, creating productive jobs and higher incomes. And with government playing a complementary role of regulation, funding, and service provision, private initiative and investment can help provide the basic services and conditions that empower poor people—by improving health, education, and infrastructure.

Private participation in infrastructure has made important contributions to easing fiscal constraints, improving the efficiency of infrastructure services, and extending their delivery to poor people. The privatization trend in infrastructure that began in the 1970s and 1980s took off in the 1990s, peaking in 1997. Developing countries have been at the head of this wave, pioneering better approaches to providing infrastructure services and reaping the benefits of greater competition and customer focus. Between 1990 and 2004 more than 2,900 projects in more than 130 developing countries introduced private participation in at least one infrastructure sector, with \$866 billion in investments.

In 2004, 132 new infrastructure projects with private participation valued at \$23 billion were implemented. In addition, \$41 billion in investment projects reached financial closure between 1990 and 2003. Telecommunications attracted \$45 billion in investment in 2004, mostly in standalone mobile operations. Except for water and sanitation, with \$1.9 billion in investment in 2004 (up from about \$1.4 billion in 2003), investment in other infrastructure sectors declined in 2004.

The data on investment in infrastructure projects with private participation refer to all investment (public and private) in projects in which a private company assumes operating risk during the operating period or assumes development and operating risk during the contract period. Foreign state-owned companies are considered private entities for the purposes of this measure. The data are from the World Bank's Private Participation in Infrastructure (PPI) Project Database, which tracks more than 3,200 projects, newly owned or managed by private companies, that reached financial closure in low- and middle-income economies in 1990–2004. Aggregates for geographic regions and income groups are calculated

by the World Bank's Development Data Group. For more information, see http://ppi.worldbank.org/.

Credit is an important link in the money transmission process; it finances production, consumption, and capital formation, which in turn affect the level of economic activity. The data on domestic credit to the private sector are taken from the banking survey of the International Monetary Fund's (IMF) *International Financial Statistics* or, when data are unavailable, from its monetary survey. The monetary survey includes monetary authorities (the central bank), deposit money banks, and other banking institutions, such as finance companies, development banks, and savings and loan institutions. In some cases credit to the private sector may include credit to state-owned or partially state-owned enterprises.

Formal and informal micro, small, and medium-size enterprises employ more than half of the working population in many market economies and account for about 90 percent of all firms. And they contribute significantly to innovation. If small businesses are allowed to compete on an equal playing field, the good ones can become larger, workers can earn higher wages, and productivity will increase. A good investment climate—one that provides opportunities and incentives for firms, reduces legal and regulatory costs, lowers the costs of financial institutions in providing financial services, and facilitates the transfer of technology and knowledge and the upgrading of capabilities in small and medium-size firms—is important for economic progress, better jobs, and a more inclusive society.

Data on the activities of micro, small, and medium-size enterprises are collected by governments, international organizations, foundations, and small business organizations. These data have been collated by the International Finance Corporation (IFC) and are available in the Micro, Small, and Medium Enterprises: A Collection of Published Data database. This IFC initiative is a work in progress, improved and updated as new data become available. Because the concepts and definitions of micro, small, and medium-size enterprises vary by source, using these data for precise country rankings may be inappropriate. See www.ifc.org/ifcext/sme.nsf/Content/Resources for additional information on sources and precise firm size.

Definitions

· Investment in infrastructure projects with private participation refers to infrastructure projects in telecommunications, energy (electricity and natural gas transmission and distribution), transport, and water and sanitation that have reached financial closure and directly or indirectly serve the public. Incinerators. movable assets, stand-alone solid waste projects, and small projects such as windmills are excluded. Included are operation and management contracts, operation and management contracts with major capital expenditure, greenfield projects (in which a private entity or a public-private joint venture builds and operates a new facility), and divestitures. • Domestic credit to private sector refers to financial resources provided to the private sector—such as through loans, purchases of nonequity securities, and trade credits and other accounts receivable-that establish a claim for repayment. For some countries these claims include credit to public enterprises. • Micro, small, and medium-size enterprises are business that may be defined by the number of employees. There is no international standard definition of firm size; however, many institutions that collect information use the following size categories: micro enterprises have 0-9 employees, small enterprises have 10-49 employees, and medium-size enterprises have 50-249 employees.

Data sources

Data on investment in infrastructure projects with private participation are from the World Bank's PPI Project Database (http://ppi.worldbank. org). Data on domestic credit are from the IMF's *International Financial Statistics*. Data on micro, small, and medium-size enterprises are from the International Finance Corporation's micro, small, and medium-size enterprises database (www.ifc. org/ifcext/sme.nsf/Content/Resources).





5.2 Investment climate

		Policy uncertainty	Corruption	Co	urts	Crime	Regulatio	n and tax admi	nistration	Finance	Electricity	L	abor
	Survey year	Major constraint %	Major constraint %	Major constraint %	Lack confidence courts uphold property rights %	Major constraint %	Tax rates as major constraint %	Time dealing with officials % of management time	Average time to clear customs days	Major constraint %	Major constraint %	Major Skills	constraint % Regulation
Afghanistan													
Albania	2005	19.1	31.8	23.9	43.6	8.6	40.9	12.2	2.1	19.5	34.7	10.4	2.5
Algeria	2003		35.2		27.3		44.8		21.6	51.3	11.5	25.5	12.9
Angola								••				••	
Argentina	2005	12.2	20.1	12.4	47.5	2.3	38.4	10.4	4.4	20.8	3.2	2.3	2.9
Armenia Australia	2005		••••••					· •·····		···	•••••••••••••••••••••••••••••••••••••••		
Austria	-						<u> </u>			·•			
Azerbaijan	2005	2.9	21.3	4.4	30.8	2.4	22.9	16.6	1.6	7.0	4.9	1.8	1.5
Bangladesh	2000	45.4	57.9		83.0	39.4	35.8	4.6	11.5	45.7	73.2	19.8	10.8
Belarus	2005	23.4	6.6	3.0	33.4	2.9	20.4	8.3	4.4	22.5	0.9	6.6	3.4
Belgium													
Benin													
Bolivia	2004								9.3				
Bosnia and Herzegovina	2005	35.1	24.7	21.5	41.6	19.9	15.6	9.5	2.6	25.8	8.2	3.6	3.2
Botswana													
Brazil	2003	75.9	67.2	32.8	39.6	52.2	84.5	9.4	13.8	71.7	20.3	39.6	56.9
Bulgaria	2005	27.6	19.0	17.2	56.7	11.5	20.4	7.4	2.9	22.0	6.4	10.4	7.8
Burkina Faso													
Burundi									••				
Cambodia	2003	40.1	55.9	31.4	61.0	41.7	18.6	14.6		9.9	12.7	6.6	5.9
Cameroon													
Canada					••							••	
Central African Republic													
Chad	···•		••		••		•••					••	
Chile	0000			••									
China	2002	32.9	27.3		17.5	20.0	36.8	12.6	7.9	22.3	29.7	30.7	20.7
Hong Kong, China Colombia		••		••	••		•••	••		••	••	••	
Congo, Dem. Rep.		••			••		••	••	••	••	••	••	
Congo, Rep.													
Costa Rica													
Côte d'Ivoire	···•												
Croatia	2005	17.9	18.5	29.3	26.0	3.9	12.0	7.5	3.7	12.7	2.1	7.2	3.0
Cuba													
Czech Republic	2005	22.0	20.5	25.2	53.1	15.8	59.1	7.1	5.1	17.4	15.5	12.5	15.6
Denmark													
Dominican Republic													
Ecuador	2003	60.7	49.2	34.1	70.8	27.8	38.1	17.7	16.4	42.2	28.3	22.3	14.1
Egypt, Arab Rep.	2004	65.8	51.3	27.4			81.8		9.9	39.0	26.5	29.8	28.1
El Salvador	2004	28.4	35.1	16.4	46.6	49.0	22.6	9.3	6.2	29.6	21.5	20.0	3.9
Eritrea	2002	31.5	2.7			1.3	31.1	5.9	9.1	53.7	38.2	41.0	5.2
Estonia	2005	5.3	4.3	2.0	29.6	1.9	3.0	5.7	1.9	6.1	3.3	7.1	18.8
Ethiopia	2002	39.3	39.0			9.5	73.6	5.7	13.5	40.2	42.5	17.9	4.6
Finland													
France													
Gabon									····				
Gambia, The	000-												
Georgia	2005	45.2	20.1	13.5	29.0	24.5	35.7	12.2	2.8	25.4	33.5	14.1	7.6
Germany	2005	5.8	3.9	2.3	10.3	1.9	29.6	3.5	5.7	16.7	1.0	6.9	9.6
Ghana	2005		10.0		10 2	 5.2	27.5	0 /	 5.0	16 2			77
Greece	2005 2003	9.3	10.0	4.7	18.2	5.2	27.5	8.4 17.4	5.9	16.3	4.6	8.6	7.7
Guatemala Guinea	2003	66.4	80.9	31.2	71.3	80.4	56.5	17.4	9.3	38.7	26.6	31.4	16.7
Guinea Guinea-Bissau		••	••	••	••	••	••	••	••	••	••	••	••
Haiti	-									·-	••		
Hara							••						

Investment climate 5.2



		Policy uncertainty	Corruption	Cor	urts	Crime	Regulatio	n and tax admi	nistration	Finance	Electricity	1	.abor
	Survey	Major constraint %	Major constraint %	Major constraint %	Lack confidence courts uphold property rights %	Major constraint	Tax rates as major constraint %	Time dealing with officials % of management time	Average time to clear customs	Major constraint %	Major constraint %	-	constraint %
	year	70	70	70	76	%	76	ume	days	70	76	Skills	Regulation
Honduras	2003	47.0	62.8	21.8	56.1	60.9	35.6	14.2	5.1	55.4	36.4	26.4	14.2
Hungary	2005	26.3	9.4	7.4	49.8	5.6	50.6	8.3	7.7	27.9	2.1	12.9	10.3
India	2003	20.9	37.4		29.4	15.6	27.9	15.3	6.7	19.2	28.9	12.5	16.7
Indonesia	2004	48.2	41.5	24.7	40.8	22.0	29.5	14.6	5.8	23.0	22.3	18.9	25.9
Iran, Islamic Rep.													
Iraq													
Ireland	2005	5.6	3.0	2.8	28.3	4.8	17.4	5.8	3.3	9.0	6.4	15.6	9.6
Israel													
Italy													
Jamaica													
Japan													
Jordan													
Kazakhstan	2005	9.2	12.7	8.2	42.7	5.3	15.6	10.7	6.0	14.9	2.7	8.6	2.5
Kenya	2003	51.5	73.8		51.3	69.8	68.2	13.8	8.9	58.3	48.1	27.6	22.5
Korea, Dem. Rep.	2005	40.9	8.5	3.6	37.2	3.5	15.1	1.3	8.0	12.5	8.3	6.8	4.1
Korea, Rep.													
Kuwait													
Kyrgyz Republic	2005	33.2	32.8	17.1	50.8	19.4	31.3	16.1	5.4	23.1	4.0	18.9	2.5
Lao PDR													
Latvia	2005	22.3	9.6	5.8	51.3	3.1	29.4	8.0	3.3	6.5	4.5	17.8	3.5
Lebanon													
Lesotho													
Liberia		•	•	•		•		•		•			
Libya										···········			
Lithuania	2005	23.2	14.0	 15.3	49.7	9.5	40.9	8.3	2.0	10.3	3.9	15.3	8.9
Macedonia, FYR	2005	27.9	34.7	31.0	55.4	12.8	20.7	15.6	3.1	31.6	12.0	6.1	9.2
Madagascar	2005	41.5	46.6	34.8	44.6	37.7	44.9	25.4	7.0	62.9	41.3	30.5	14.8
Malawi	2003		40.0	34.0	44.0	51.1	77.5	25.4		02.5	71.0	30.5	14.0
Malaysia	2005	22.4	14.5		19.1	11.4	21.7	10.2	3.7	17.8	14.8	25.0	14.5
Mali	2003	21.9	48.7	 16.9	33.1	22.1	36.6	10.8	10.0	57.0	24.2	20.8	3.9
Mauritania	2004	•••••	•		33.1			••••••••••••		51.0	27.2	20.0	0.0
Mauritius		••	••	••	••		••	••		••	••	••	••
Mexico				··········	••		••	••	····	·•			
Moldova	2005	31.6	 17.6	22.1	 64.2	10.1	37.8	10.9	2.8	31.9	2.9	12.0	8.2
•	2005		17.0		04.2	10.1	31.0		2.0	31.9	2.9	12.0	0.2
Mongolia Morocco	2004		16.0	20.1		7.6	62.6	10.5	2.0	70 5		01.1	 16.2
Morocco	2004	···	16.9	29.1	23.5	7.6	62.6	10.5	3.0	78.5	8.9	21.1	10.2
Mozambique Myanmar		••	••	••	••	••	••	••	••	••	••		••
Myanmar					••		••				••		····
Namibia	2000	••	•••		••		••		••				••
Nepal Notherlands	2000		••	···	••		••	••	••		41.7	••	••
Netherlands					••	·	····		······································		••		···
New Zealand	0000		 CE 7						 F 0	 F7.6		170	
Nicaragua	2003	58.2	65.7	33.3	60.4	39.2	34.7	17.3	5.8	57.6	34.7	17.0	6.9
Niger	0001			·········	••					·			
Nigeria	2001	••	••	••	••	36.3	••		17.8	••	97.4		••
Norway													
Oman	2004	20.7	11.9	14.9	12.9	8.6	20.7		8.0	29.4	10.1	34.6	34.8
Pakistan	2002	40.1	40.4		62.6	21.5	45.6	10.6	17.1	40.1	39.2	12.8	15.0
Panama				·····	••				·•				
Papua New Guinea				······					<u></u>				
Paraguay													
Peru	2002	71.1	59.6	·······	34.7	51.6			7.9	55.8	11.1	12.5	
Philippines	2003	29.5	35.2		33.8	26.5	30.4	11.0	9.1	18.2	33.4	11.9	24.7
B 1 1	2005	42.7	18.2	21.0	47.4	15.0	57.7	7.2	3.8	39.6	4.1	15.3	17.9
Poland Portugal	2005	22.2	15.4	17.8		15.7	20.5	5.8	6.0	18.3	7.8	12.4	



5.2 Investment climate

		Policy uncertainty	Corruption	Co	urts	Crime	Regulatio	n and tax admi	nistration	Finance	Electricity	L	.abor
	Survey year	Major constraint %	Major constraint %	Major constraint %	Lack confidence courts uphold property rights %	Major constraint %	Tax rates as major constraint %	Time dealing with officials % of management time	Average time to clear customs days	Major constraint %	Major constraint %	Major Skills	constraint % Regulation
	-					450			-			440	
Romania	2005	33.9	30.1	19.7	44.3	15.3	34.1	3.6	3.0	22.6	8.1	14.2	16.4
Russian Federation	2005	26.2	16.5	9.5	63.9	9.3	21.8	14.8	9.5	15.7	5.1	13.1	3.1
Rwanda			······································	······································	••••	•	••••		······			······································	··•···································
Saudi Arabia													
Senegal	2004	31.3	39.9	13.3	40.5	15.4	50.8	13.8	7.0	60.3	30.7	18.5	16.3
Serbia and Montenegro	2005	61.2	25.5	30.0	43.1	13.5	29.5	12.4	5.7	43.9	4.7	10.7	13.4
Sierra Leone			···	<u></u>	···					···		••	
Singapore		······································				<u> </u>					<u>.</u>		
Slovak Republic	2005	13.0	10.6	13.1	44.4	5.1	8.3	9.3	3.9	7.9	2.7	8.2	4.6
Slovenia	2005	11.5	3.7	8.1	34.4	0.9	12.7	6.4	3.2	9.5	2.7	5.4	4.5
Somalia													
South Africa	2004	17.9	16.1	8.8	20.8	29.0	18.6	10.7	6.5	14.5	9.0	35.5	32.9
Spain	2005	10.3	7.8	7.9	16.6	9.8	18.8	5.1	5.5	13.3	8.3	13.8	11.8
Sri Lanka	2003	34.0	16.9		31.2	14.0	19.1	4.7	4.1	20.4	41.3	21.3	25.6
Sudan												••	
Swaziland													
Sweden													
Switzerland							••						
Syrian Arab Republic	2004	27.0	57.6				62.5	14.5	15.8	24.8	57.5	36.3	33.8
Tajikistan	2005	5.6	15.7	4.9	35.9	4.1	22.2	8.1	5.9	7.2	10.1	4.6	1.5
Tanzania	2003	31.5	51.1	20.0	55.1	25.5	73.4	16.2	17.5	53.0	58.9	25.0	12.1
Thailand	2004	29.1	18.3		25.8	10.3	24.4	2.9	4.6	15.2	25.6	30.0	11.4
Togo													
Trinidad and Tobago													
Tunisia													
Turkey	2005	31.5	17.0	12.4	28.5	14.7	37.8	11.7	6.4	17.5	9.2	9.8	12.2
Turkmenistan													
Uganda	2003	27.6	38.2	••	30.1	26.8	48.3	5.0	••	52.8	44.5	30.8	10.8
Ukraine	2005	31.3	22.6	15.2	48.2	12.3	45.7	13.7	6.8	29.9	4.9	19.8	6.5
United Arab Emirates													
United Kingdom													
United States													
Uruguay													
Uzbekistan	2005	11.5	8.9	6.6	41.7	8.9	18.3	7.7	8.7	12.5	7.2	4.6	3.0
Venezuela, RB													••
Vietnam	2005	14.7	12.8	5.5	23.1	4.0	13.8	6.9	4.5	30.3	15.7	22.3	10.9
West Bank and Gaza													
Yemen, Rep.	2005	31.1	62.8	32.0	58.4	28.7	71.9	21.3	13.3	31.8	47.6	23.6	12.8
Zambia	2003	57.0	46.4	38.6	36.0	48.8	57.5	14.1	4.8	67.7	39.6	35.7	16.9
Zimbabwe													

Note: Data are based on enterprise surveys conducted by the World Bank and its partners during 2001–05. While averages are reported, there are significant variations across firms. Surveys of Eastern Europe and Central Asia were conducted under the joint World Bank-European Bank for Reconstruction and Development Business Environment and Enterprise Performance Surveys Initiative.

Investment climate

About the data

The table includes recently available data from World Bank-sponsored firm-level Investment Climate Surveys covering more than 50,000 firms in 63 developing countries for 2001-05. The data provide fresh insights into how investment climates vary around the world. In addition to these surveys, data from the Doing Business project, which benchmarks regulatory regimes in 155 countries, are presented in table 5.3.

A good investment climate requires government policies that provide an environment for firms and entrepreneurs to invest productively, create jobs, and contribute to growth and poverty reduction. The goal is to create a better investment climate that benefits society as a whole, not just firms.

Improving government policies and behaviors is key to shaping the investment climate because they are influential in driving growth and poverty reduction. Governments face four primary challenges in improving the investment climate and getting the balance right between society's interests and firms' incentives to invest. One is restraining corruption by public officials, firms, and other interest groups. Two is establishing credibility by maintaining economic and political stability and restraining arbitrary behavior by the key agencies of the state. Three is fostering public trust and legitimacy through open and participatory policymaking, transparency, and equity. Four is ensuring that government policies realistically reflect current conditions and continue to adapt to changing economic and business conditions.

Firms evaluating alternative investment options. governments interested in improving their investment climates, and economists seeking to understand the role of different factors in explaining economic performance have all grappled with defining and measuring the investment climate. The World Bank, working with client governments and others, recently pioneered new measures of the investment climate. The Investment Climate Surveys measure specific constraints facing firms and relate them to measures of firm performance, growth, and investment.

The indicators included in the table cover eight dimensions of the investment climate: policy uncertainty, corruption, courts, crime, regulation and tax administration, finance, infrastructure, and labor.

Firms in developing countries rate policy uncertainty as their dominant concern among investment climate constraints. It measures the credibility of governments and their policies and the ability to deliver what is promised. Corruption—the exploitation of public office for private gain—can harm the investment climate in several ways. It can distort policymaking, undermine government credibility, tax entrepreneurial activities. and divert resources from public coffers. Better courts reduce the risks firms face, so that firms are willing to invest more. And the importance of courts grows as the number of large and complex long-term transactions increases. Robbery, fraud, and other crimes against property and against the person undermine the investment climate. Crime retards entrepreneurial activity. In Latin America, more than 50 percent of surveyed firms judged crime to be a serious obstacle to doing business.

Most countries have room to improve regulation and taxation without compromising broader social interests. The investment climate is harmed when governments impose unnecessary costs, by increasing uncertainty and risk and by erecting unjustified barriers to competition. Improvements in the tax system may include broadening the tax base, simplifying tax structures, increasing the autonomy of tax agencies, and improving compliance through computerization. When financial markets work well, they connect firms to lenders and investors, which allows firms to seize business opportunities and grow their businesses. But too often government distortions introduced by state ownership or directed credit undermine financial sector development, productivity, and economic growth. Firms that have access to modern infrastructure—telecommunications, reliable electricity supplies, and efficient transportation—are more productive, and improvements in infrastructure services also benefit households. Ill-considered labor regulations can discourage firms from creating more jobs, and while some employees may benefit, the unemployed, the low skilled, and those working in the informal economy will not.

The Investment Climate Surveys follow a stratified random sampling methodology, drawing from registered establishments with at least 10 employees. Samples are stratified on sectors and size of firms. Sectors are selected based on their contribution to GDP and for comparability with sectors in other countries. Because the distribution of establishments in most countries is overwhelmingly populated by small and medium-size enterprises, surveys generally oversample large establishments. Sample sizes for recent surveys range from 250 to 1,800 businesses and average 550 establishments.

For more information on the investment climate, see http://econ.worldbank.org/wdr/wdr2005 and http://iresearch.worldbank.org/ics.

Definitions

- . Policy uncertainty measures the share of senior managers who ranked economic and regulatory policy uncertainty as a major or very severe constraint.
- . Corruption measures the share of senior managers who ranked corruption as a major or very severe constraint. . Courts measure the share of senior managers who ranked courts and dispute resolution systems as a major or very severe constraint. • Lack confidence courts uphold property rights measures the share of managers who do not agree with the statement: "I am confident that the judicial system will enforce my contractual and property rights in business disputes." • Crime measures the share of senior managers who ranked crime, theft, and disorder as a major or very severe constraint. • Tax rates as major constraint measure the share of senior managers who ranked tax rates as a major or very severe constraint. • Time dealing with officials is the percentage of management time in a given week spent on requirements imposed by government regulations (taxes, customs, labor regulations, licensing and registration). • Average time to clear customs is the number of days to clear an imported good through customs. • Finance measures shares of senior managers who ranked access to finance or cost of finance as a major or very severe constraint.
- Electricity measures the share of senior managers who ranked electricity as a major or severe constraint. • Labor skills measure the share of senior managers who ranked skills of available workers as a major or severe constraint. • Labor regulations measure the share of senior managers who ranked labor regulations as a major or severe constraint.

Data sources

Data on the investment climate are from the World Bank's Investment Climate Surveys (http://iresearch. worldbank.org/ics).





Business environment

		Starting a business		Regist prop		Dealin licen		Hiring and firing workers Rigidity of	Enfor contr		Protecting investors Disclosure	Closing a business
	Number of procedures January 2005	Time required days January 2005	Cost % of per capita income January 2005	Number of procedures January 2005	Time required days January 2005	Number of procedures to build a warehouse January 2005	Time required days January 2005	employment index 0 (less rigid) to 100 (more rigid) January 2005	Number of procedures January 2005	Time required days January 2005	index 0 (less disclosure) to 10 (more disclosure) January 2005	Time to resolve insolvency years January 2005
Afghanistan	1	7	52.8	11	252			39		400	0	
Albania	11	41	31.1	7	47	22	344	48	39	390	0	4.0
Algeria	14	26	25.3	16	52	25	244	51	49	407	8	3.5
Angola	14	146	642.8	7	334	15	326	64	47	1,011	5	6.2
Argentina	15	32	13.4	5	44	23	288	48	33	520	7	2.8
Armenia	10	25	6.1	4	6	20	176	49	24	185	···	1.9
Australia	2	2	1.9	5	5	16	121	17	11	157	8	1.0
Austria	9	29	5.7	3	32	14	195	44	20	374	2	1.1
Azerbaijan	14	115	12.5	7	61	28	212	38	25	267	0	2.7
Bangladesh	8 16	35 70	81.4	11	363	13	185 254	24	29	365	6	4.0
Belarus	16 4	79 34	22.9 11.1	7 7	231 132	18 15	354 184	27 20	28 27	225 112	1 8	5.8 0.9
Belgium Benin	4 8	34 32	11.1	3	132 50	15 22	184 335	53	49	112 570	8 5	0.9 3.1
Bolivia	15	32 50	154.8	7	92	13	335 187	40	49	570 591	1	1.8
Bosnia and Herzegovina	12	54	40.9	7	331	13 17	476	42	36	330	3	3.3
Botswana	11	108	10.9	6	69	42	160	30	26	154	8	2.2
Brazil	17	152	10.1	15	47	19	460	56	24	546	5	10.0
Bulgaria	11	32	9.6	9	19	24	212	44	34	440	8	3.3
Burkina Faso	12	45	149.9	8	107	46	241	84	41	446	6	4.0
Burundi	11	43	200.7	5	94	18	302	69	47	433		4.0
Cambodia	10	86	276.1	7	56	28	247	59	31	401	5	
Cameroon	12	37	172.8	5	93	15	444	56	58	585	8	3.2
Canada	2	3	0.9	6	10	15	87	14	17	346	8	0.8
Central African Republic	10	14	211.6	3	69	21	237	76	45	660		4.8
Chad	19	75	360.8	6	44	16	199	72	52	526	3	10.0
Chile	9	27	10.3	6	31	12	191	24	28	305	8	5.6
China	13	48	13.6	3	32	30	363	30	25	241	10	2.4
Hong Kong, China	5	11	3.4	5	83	22	230	0	16	211	10	1.1
Colombia	12	43	25.3	7	23	12	150	57	37	363	7	3.0
Congo, Dem. Rep.	13	155	503.3	8	106	16	306	90	51	909	3	5.2
Congo, Rep.	8	67	288.8	6	103	15	174	80	47	560	4	3.0
Costa Rica	11	77	23.8	6	21	19	120	39	34	550	2	3.5
Côte d'Ivoire	11	45	134.0	7	369	22	569	45	25	525	6	2.2
Croatia	12	49	13.4	5	956	28	278	57	22	415	2	3.1
Cuba												
Czech Republic Denmark	10 3	40 5	9.5 0.0	4 6	123 42	31 7	245 70	24 20	21 15	290	7	9.2 3.3
Dominican Republic	10	75	30.9	7	107	12	150	44	29	83 580	3	3.5
Ecuador	14	69	38.1	10	21	19	149	58	41	388	1	4.3
Egypt, Arab Rep.	10	34	104.9	7	193	30	263	53	55	410	5	4.3
El Salvador	12	40	118.0	5	52	22	144	41	41	275	6	4.2
Eritrea	13	91	128.6	6	91	19	187	27	27	385	4	1.7
Estonia	6	35	6.2	4	65	12	116	51	25	150	. 8	3.0
Ethiopia	7	32	65.1	15	56	12	133	41	30	420	1	2.4
Finland	3	14	1.2	3	14	17	56	48	27	228	6	0.9
France	7	8	1.2	9	183	10	185	66	21	75	10	1.9
Gabon												
Gambia, The			••		••			••		••		
Georgia	8	21	13.7	6	9	29	282	43	18	375	4	3.3
Germany	9	24	4.7	4	41	11	165	55	26	175	5	1.2
Ghana	12	81	78.6	7	382	16	127	34	23	200	7	1.9
Greece	15	38	24.6	12	23	17	176	66	14	151	1	2.0
Guatemala	15	39	58.4	5	69	22	294	40	37	1,459	1	4.0
Guinea	13	49	178.8	6	104	29	278	48	44	306	5	3.8
Guinea-Bissau		···		· · ·								
Haiti	12	203	153.1	5	683	12	186	24	35	368	4	5.7

Business environment **5.3**



		Starting a business		Regis: prop	tering erty	Dealing licen		Hiring and firing workers	Enfor		Protecting investors	Closing a business
	Number of procedures January 2005	Time required days January 2005	Cost % of per capita income January 2005	Number of procedures January 2005	Time required days January 2005	Number of procedures to build a warehouse January 2005	Time required days January 2005	Rigidity of employment index 0 (less rigid) to 100 (more rigid) January 2005	Number of procedures January 2005	Time required days January 2005	Disclosure index 0 (less disclosure) to 10 (more disclosure) January 2005	Time to resolve insolvency years January 2005
Honduras	13	62	64.1	7	36	14	199	34	36	545	1	3.8
Hungary	6	38	22.4	4	78	25	213	37	21	365	1	2.0
India	11	71	61.7	6	67	20	270	62	40	425	7	10.0
Indonesia	12	151	101.7	7	42	19	224	57	34	570	8	5.5
Iran, Islamic Rep.	8	47	6.3	9	36	21	668	49	23	545	3	4.5
Iraq	11 4	77 24	37.4 5.3	5 5	8 38	14 10	210 181	69 33	65 16	320 217	4 9	0.4
Ireland	5	34	5.3	7	38 144	21	219	33	27	585	8	4.0
Israel	9	13	15.7	8	27	17	219	57	18	•	7	1.2
Italy Jamaica	6	13 9	8.3	5	21 54	13	284 242	10	18	1,390 202	3	1.1
Japan	11	31	10.7	6	14	11	242 87	19	16	60	6	0.6
Jordan	11	36	45.9	8	22	17	122	34	43	342	5	4.3
Kazakhstan	7	24	8.6	8	52	32	258	23	47	380	7	3.3
Kenya	13	54	48.2	8	73	11	170	28	25	360	4	4.5
Korea, Dem. Rep.	12	22	15.2	7	11	14	60	45	29	75	7	1.5
Korea, Rep.	12		15.2									
Kuwait	13	35	2.2	8	75	26	149	20	52	390	5	4.2
Kyrgyz Republic	8	21	10.4	7	10	16	152	38	46	492	8	3.5
Lao PDR	9	198	15.1	9	135	24	208	50	53	443	4	5.0
Latvia	7	18	4.2	9	54	21	160	59	20	186	5	1.1
Lebanon	6	46	110.6	8	25	16	275	24	39	721	8	4.0
Lesotho	9	92	56.1	6	101	12	254	42	49	285	2	2.6
Liberia												
Libya					••							
Lithuania	8	26	3.3	3	3	14	151	44	17	154	5	1.2
Macedonia, FYR	13	48	11.3	6	74	18	214	54	27	509	5	3.7
Madagascar	11	38	54.3	8	134	19	356	59	29	280	5	
Malawi	10	35	139.6	6	118	23	205	21	16	277	4	2.6
Malaysia	9	30	20.9	4	143	25	226	10	31	300	10	2.2
Mali Mauritania	13 11	42 82	190.7 143.6	5 4	44 49	17 19	260 152	66 73	28 28	340 410	6	3.6 8.0
Mauritius	6	46	8.8	5	210	21	132	37	28 17	367	6	2.0
Mexico	9	58	15.6	5	74	12	222	51	37	421	6	1.8
Moldova	10	30	17.1	6	48	20	122	68	37	340	7	2.8
Mongolia	8	20	6.2	5	11	18	96	34	26	314		4.0
Morocco	5	11	12.0	3	82	21	217	60	17	240	6	1.8
Mozambique	14	153	95.0	8	42	14	212	61	38	580		5.0
Myanmar												
Namibia	10	95	18.8	9	28	11	169	27	31	270	8	1.0
Nepal	7	21	69.9	2	2	12	147	44	28	350	4	5.0
Netherlands	7	11	13.0	2	2	18	184	49	22	48	4	1.7
New Zealand	2	12	0.2	2	2	7	65	7	19	50	10	2.0
Nicaragua	8	42	139.1	7	65	12	192	47	20	155	4	2.2
Niger	13	35	465.4	5	49	27	165	90	33	330	6	5.0
Nigeria	9	43	73.8	21	274	16	465	38	23	730	6	1.5
Norway	4	13	2.7	1	1	13	97	38	14	87	7	0.9
Oman	9	34	4.8	4	16	16	271	35	41	455	8	7.0
Pakistan	11	24	18.6	5	49	12	218	46	46	395	6	2.8
Panama	7	19	24.8	7	44	22	128	63	45	355	3	2.0
Papua New Guinea	8	56	30.2	4	72	20	218	21	22	440	5	2.8
Paraguay	17	74	147.8	7	48	15	273	59	46	285	6	3.9
Peru	10	102	38.0	5	33	19	201	48	35	381	7	3.1
Philippines	11	48	20.3	8	33	23	197	45	25	360	1	5.7
Poland	10	31 54	22.2	6	197	25	322	37 59	41	980	7	1.4
Puorto Pico	11	54 7	13.4	5	83 15	20	327	58 25	24	320	7	2.0
Puerto Rico	7	7	1.0	8	15	20	137	35	43	270		3.8



5.3 Business environment

		Starting a business		Regis prop		Dealing licen		Hiring and firing workers	Enfor		Protecting investors	Closing a business
	Number of procedures January 2005	Time required days January 2005	Cost % of per capita income January 2005	Number of procedures January 2005	Time required days January 2005	Number of procedures to build a warehouse January 2005	Time required days January 2005	Rigidity of employment index 0 (less rigid) to 100 (more rigid) January 2005	Number of procedures January 2005	Time required days January 2005	Disclosure index 0 (less disclosure) to 10 (more disclosure) January 2005	Time to resolve insolvency years January 2005
Romania	5	11	5.3	8	170	15	291	59	43	335	8	4.6
Russian Federation	8	33	5.0	6	52	22	528	30	29	330	7	3.8
Rwanda	9	21	280.2	5	371	17	252	59	27	310		
Saudi Arabia	13	64	68.5	4	4	18	131	13	44	360	8	2.8
Senegal	9	57	108.7	6	114	18	185	64	33	485	7	3.0
Serbia and Montenegro	10	15	6.0	6	111	21	212	28	33	635	7	2.7
Sierra Leone	9	26	835.4	8	58	48	236	80	58	305	3	2.6
Singapore	6	6	1.1	3	9	11	129	0	23	69	10	0.8
Slovak Republic	9	25	5.1	3	17	13	272	39	27	565	2	4.8
Slovenia	9	60	10.1	6	391	14	207	64	25	913	3	3.6
Somalia South Africa								 F0				
South Africa	9	38	8.6	6	23	18	176	52	26	277	8	2.0
Spain Sri Lonko	10	47	16.5	3	25 63	12	277	66 40	23	169	4	1.0
Sri Lanka	8	50	10.4	8	63	18	167	40	17	440	4	2.2
Sudan	10	38	68.1	••				43	67	915	••	••
Swaziland												
Sweden	3	16	0.7	1	2	8	116	43	23	208	2	2.0
Switzerland	6	20	8.7	4	16	15	152	17	22	170	1 5	3.0
Syrian Arab Republic	12	47	34.5	4	34	20	134	40	47	672	•••••	4.1
Tajikistan		 2F	164.2							040		
Tanzania Thailand	13 8	35	161.3	12 2	61 2	26 9	313 147	69 18	21 26	242 390	3 10	3.0 2.7
	····•	33	6.1	···•···				18 79	37		•	. *
Togo	13	53	218.3	6	212	14	273	······································		535	4	3.0
Trinidad and Tobago Tunisia	9	14	10.0	 5	 57	21	 154	 54	 14	 27	0	1.3
	8	9	27.7	8	9	32	232	55	22	330	8	5.9
Turkey			21.1	0				•••••	•	330	••••••	5.9
Turkmenistan Uganda	17	36	117.8	8	48	 19	 155	13	 15	209	7	2.2
Ukraine	15	34	10.6	10	93	18	265	61	28	269	1	2.9
United Arab Emirates	12	54	44.3	3	93	21	125	33	53	614	4	5.1
United Kingdom	6	18	0.7	2	21	19	115	33 14	14	288	10	1.0
United States	5	5	0.5	4	12	19	70	3	17	250	7	2.0
Uruguay	11	45	43.9	8	66	17	146	31	39	620	3	2.1
Uzbekistan	9	35	15.5	12	97		140	34	35	368	4	4.0
Venezuela, RB	13	116	15.7	7	33	13	276	38	41	445	3	4.0
Vietnam	11	50	50.6	5	67	14	143	51	37	343	4	5.0
West Bank and Gaza	11	106	275.4	7	58	18	144	38	26	465		
Yemen, Rep.	12	63	240.2	6	21	13	131	37	37	360	6	3.0
Zambia	6	35	18.1	6	70	16	165	10	16	274	10	3.1
Zimbabwe	10	96	1,442.5	4	30	21	481	24	33	350	8	2.2
World	10 u	48 u	77.3		86 u	18 u	209 u	41 u	32 u	394 u		3.2 u
Low income	10	60	167.6	7	114	19	231	50	36	421	5	3.7
Middle income	10	49	42.3	6	82	19	216	38	32	424	5	3.5
Lower middle income	10	52	54.2	6	74	18	216	39	32	433	4	3.6
Upper middle income	9	42	18.4	6	99	20	216	38	30	405	5	3.5
Low & middle income	10	53	94.8	6	95	19	222	43	34	423	5	3.6
East Asia & Pacific	9	56	47.2	5	64	17	147	28	31	426	5	3.7
Europe & Central Asia	10	36	13.6	6	117	22	254	44	30	372	5	3.5
Latin America & Carib.	12	66	58.8	7	79	16	210	41	35	470	4	3.5
Middle East & N. Africa	10	45	75.6	7	50	19	236	45	38	414	5	3.8
South Asia	8	35	39.7	7	124	16	195	39	30	386	5	5.1
Sub-Saharan Africa	11	64	215.3	7	118	20	251	53	36	439	5	3.3
High income	7	24	9.4	5	47	16	157	34	24	282	6	1.9
Europe EMU	8	27	10.2	6	55	15	201	51	22	296	6	1.3

About the data

The table presents key indicators on the environment for doing business. The indicators identify regulations that enhance or constrain business investment, productivity, and growth. The data are from the World Bank's Doing Business database.

A vibrant private sector is central to promoting growth and expanding opportunities for poor people. But encouraging firms to invest, improve productivity, and create jobs requires a legal and regulatory environment that fosters access to credit, protects property rights, and supports efficient judicial, taxation, and customs systems. The indicators in the table point to the administrative and regulatory reforms and institutions needed to create a favorable environment for doing business.

When entrepreneurs start a business, the first obstacles they face are the administrative and legal procedures required to register the new firm. Countries differ widely in how they regulate the entry of new businesses. In some countries the process is straightforward and affordable. But in others the procedures are so burdensome that entrepreneurs may opt to run their business informally. The data on starting a business cover the number of start-up procedures and the time required and cost to complete them.

Property registries were first developed to help raise tax revenue, but they have benefited entrepreneurs as well. Securing rights to land and buildings, a major source of wealth in most countries, strengthens incentives to invest and facilitates trade. More complex procedures to register property are associated with less perceived security of property rights, more informality, and more corruption. The data cover the number procedures required and time required to secure rights to property.

Lack of access to credit is one of the biggest barriers entrepreneurs face in starting and operating a business. Indicators covering financial access and financial information are presented in table 5.5.

There are many types of business licenses required, and striking the right balance between the ease of doing business and consumer safety requires continuous reform. Since construction is a large sector in most economies, the procedures required for a business in the construction industry to build a standardized warehouse are recorded. These include obtaining all necessary licenses and permits, completing all required notifications and inspections, and submitting the relevant documents to the authorities. The data cover the number of procedures and time needed by the construction firm to complete all procedures.

Every economy has a complex system of laws and institutions to protect the interests of workers and guarantee a minimum standard of living for its population. The rigidity of employment index focuses on the regulation of employment, specifically the hiring and firing of workers and the rigidity of working hours. This index is the average of three subindexes: a difficulty of hiring index, a rigidity of hours index, and a difficulty of

firing index. All subindexes have several components and take values between 0 and 100, with higher values indicating more rigid regulation.

Contract enforcement is critical to enable businesses to engage with new borrowers or customers. Without good contract enforcement trade and credit will be restricted to a small community of people who have developed relationships through repeated dealings or the security of assets. The institution that enforces contracts between debtors and creditors, and suppliers and customers, is the court. The efficiency of contract enforcement is reflected in two indicators; number of judicial procedures to resolve a dispute and time to enforce a commercial contract.

What companies disclose to the public has a large impact on investor protection. Both investors and entrepreneurs benefit greatly from such legal protection. The disclosure index is based on measures that cover ownership disclosure, measures that reduce expropriation, and disclosures to help investors.

Unviable businesses prevent assets and human capital from being allocated to more productive uses in new companies or in viable companies that are financially distressed. The time to close a business (resolve an insolvency) captures the average time to complete a procedure, as estimated by insolvency lawyers. Information is collected on the sequence of bankruptcy procedures and on whether any procedures can be carried out simultaneously. Delays due to legal derailment tactics that parties to the insolvency may use, in particular extension of response periods or appeals, are taken into account.

To ensure cross-country comparability, several standard characteristics of a company are defined in all surveys, such as size, ownership, location, legal status, and type of activities. The data were collected through a study of laws and regulations in each country, surveys of regulators or private sector professionals on each topic, and cooperative arrangements with private consulting firms and business and law associations. These standard characteristics include limited liability company; operates in the country's most populous city; 100 percent domestically owned and has five owners, none of whom is a legal entity; start-up capital of 10 times income per capita at the end of 2004, paid in cash; performs general industrial or commercial activities, such as production or sale of products or services to the public; does not perform foreign trade activities or handle products subject to a special tax regime; does not use heavily polluting production processes; leases the commercial plant and offices and is not a proprietor of real estate; does not qualify for investment incentives or any special benefits: up to 50 employees within one month of commencement of operations, all of them nationals: turnover at least 100 times income per capita; and company deed 10 pages long.

Definitions

• Number of procedures for starting a business is the number of procedures required to start a business, including interactions required to obtain necessary permits and licenses and to complete all inscriptions, verifications, and notifications to start operations. Data are for businesses with specific characteristics of ownership, size, and type of production. • Time required for starting a business is the number of calendar days needed to complete the required procedures for legally operating a business. If a procedure can be speeded up at additional cost, the fastest procedure, independent of cost, is chosen. • Cost for starting a business is normalized by presenting it as a percentage of gross national income (GNI) per capita. • Number of procedures to register property is the number of procedures required for a business to secure rights to property. • Time required for registering property is the number of calendar days needed for a business to secure rights to property. • Number of procedures to build a warehouse is the number of interactions of a company's employees or managers with external parties, including government agency staff, public inspectors, notaries, land registry and cadastre staff, and technical experts apart from architects and engineers. • Time required to build a warehouse is the number of calendar days needed to complete the required procedures for building a warehouse. If a procedure can be speeded up at additional cost, the fastest procedure, independent of cost, is chosen. . Rigidity of employment index measures the regulation of employment, specifically the hiring and firing of workers and the rigidity of working hours. This index

with higher values indicating more rigid regulations. . Number of procedures for enforcing contracts is the number of independent actions, mandated by law or court regulation, that demand interaction between the parties to a contract or between them and the judge or court officer. • Time required for enforcing contracts is the number of calendar days from the filing of the lawsuit in court to the final determination and, in appropriate cases, payment. • Disclosure index measures the degree to which investors are protected through disclosure of ownership and financial information. The index ranges from 0 to 7, with higher values indicating more disclosure. • Time to resolve insolvency is the number of years from the time of filing for insolvency in court until resolution of distressed assets.

is the average of three subindexes: a difficulty of

hiring index, a rigidity of hours index, and a diffi-

culty of firing index. The index ranges from 0 to 100,

Data sources

Data on the business environment are from the World Bank's Doing Business project (http://rru. worldbank.org/DoingBusiness/).





		Market capitalizati	ion			irket iidity		nover tio	Listed do		S&P/I inde	
	\$ mil 2000	lions 2005	% o 2000	f GDP 2004		traded f GDP 2004	% of r	nares traded market lization 2005	num 2000	ber 2005	% cha	ange 2005
Afghanistan			-	<u>.</u>		-						
Albania						······································						
Algeria												
Angola												
Argentina	166,068	61,478	58.4	30.3	2.1	5.0	4.8	29.7	127	101	24.6 ^a	45.4ª
Armenia		18		0.6		0.1	4.6	3.9		194		
Australia	372,794	776,403	96.2	121.8	58.4	80.7	56.5	75.5	1,330	1,515		
Austria	29,935	85,815	15.4	29.4	4.8	8.2	29.8	34.0	97	99		
Azerbaijan	4		0.1						2			
Bangladesh	1,186	3,035	2.6	5.9	1.7	1.6	74.4	32.3	221	262	104.3 ^b	–27.7 ^b
Belarus												
Belgium	182,481	768,377	79.9	218.1	16.6	20.0	20.7	14.9	174	170		
Benin												
Bolivia	1,742	1,988	20.7	22.7	0.0	0.1	1.0	0.2	26	34		
Bosnia and Herzegovina												
Botswana	978	2,437	18.6	28.4	0.9	0.6	4.8	2.0	16	18	21.1 ^b	-3.2 ^b
Brazil	226,152	474,647	37.6	54.7	16.8	15.5	43.5	37.2	459	381	33.7ª	47.6 ^a
Bulgaria	617	5,086	4.9	11.6	0.5	2.1	9.2	35.2	503	331	82.7 ^b	16.4 ^b
Burkina Faso									••			
Burundi			••		••	••		••	••	••		••
Cambodia			••					••				••
Cameroon Canada		4 4 7 7 5 4 0	 117.8	120.4	88.8	66.9	77.3	63.1	1 110	2 507		••
Central African Republic	841,385	1,177,518		··· - ·····					1,418	3,597	••	••
Chad		••			·			·••		···		
Chile	60,401	136,446	79.7	124.4	8.0	12.3	9.4	 15.5	 258	245	 18.3 ^a	 14.7 ^a
China	580,991	780,763	48.5	33.1	60.2	38.7	158.3	82.6	1,086	1,387	-2.1 ^a	13.3 ^a
Hong Kong, China	623,398	861,463	377.0	528.5	228.5	269.3	61.3	55.7	779	1,086		
Colombia	9,560	46,016	11.4	25.8	0.5	1.5	3.8	17.8	126	114	115.4 ^b	108.1 ^b
Congo, Dem. Rep.												
Congo, Rep.			•••			••						
Costa Rica	2,924	1,920	18.3	10.4		0.7	12.0		21	23		
Côte d'Ivoire	1,185	2,327	11.4	13.5	0.3	0.3	2.6	1.5	41	39	41.1 ^b	16.9 ^b
Croatia	2,742	12,918	14.9	31.9	1.0	1.4	7.4	6.6	64	145	–7.7 ^b	7.4 ^b
Cuba		••										
Czech Republic	11,002	38,345	19.7	28.8	11.8	16.5	60.3	120.7	131	36	76.3ª	43.5 ^a
Denmark	107,666	151,342	68.0	62.7	57.9	40.4	86.0	71.4	225	178		
Dominican Republic	141		0.8						6			
Ecuador	704	3,214	4.4	8.5	0.1	0.3	5.5	5.0	30	32	46.7 ^b	26.0 ^b
Egypt, Arab Rep.	28,741	79,672	28.1	48.9	10.9	7.1	34.7	42.4	1,076	744	126.4ª	158.0ª
El Salvador	2,041	2,643	15.5	16.7	0.2	3.1	2.7	0.3	40	32		
Eritrea						····					 h	
Estonia	1,846	3,495	33.7	55.2	6.0	7.4	18.9	51.5	23	15	70.5 ^b	22.8 ^b
Ethiopia												••
Finland	293,635	183,765	244.9	98.8	172.3	118.4	64.3	124.3	154	134		••
France Gabon	1,446,634	1,857,235	108.9	90.7	81.6	64.1	74.1	81.7	808	701		••
Gambia, The									······			••
Georgia	24	186	0.8	3.6	••	0.5		0.5	 269	 277	••	••
Germany	1,270,243	1,194,517	66.8	43.6	 56.3	51.3	79.1	123.7	1,022	660		••
Ghana	502	1,661	10.1	29.8	0.2	0.7	1.5	3.2	22	30	32.7 ^b	-33.9 ^b
Greece	110,839	125,242	98.9	61.0	84.8	21.2	63.7	37.5	329	340		-33.9
Guatemala	240		1.2		0.0		2.9		44	5		
Guinea												
Guinea-Bissau							••					••
Haiti												
			•••••		•	•••••	•••••	••••••	••••••••••		•	

Stock markets **5.4**

		Market capitalizat	ion		1	rket idity		nover tio	Listed de comp		S&P/E inde	
		llions		f GDP	% of	traded GDP	% of a	nares traded market lization	num		% cha	_
	2000	2005	2000	2004	2000	2004	2000	2005	2000	2005	2004	2005
Honduras	458		8.7						46			
Hungary	12,021	32,576	25.8	28.5	26.0	12.9	90.7	79.2	60	44	93.7ª	16.1ª
India	148,064	553,074	32.4	56.1	111.5	54.8	133.6	93.6	5,937	4,763	20.1 ^a	33.6ª
Indonesia	26,834	81,428	16.3	28.4	8.7	10.7	32.9	54.8	290	335	39.3ª	9.1 ^a
Iran, Islamic Rep.	7,350	46,995	7.3	28.8	4.9	8.1	12.4	21.7	304	411	••	••
Iraq	81,882	 114,085	 86.2	62.8	 15.2	24.4	 19.2	 44.5	 76	 53	••	••
Ireland Israel	64,081	120,114	55.5	81.7	20.3	39.6	36.3	55.4	654	572	 13.4ª	 24.1 ^a
Italy	768,364	789,563	71.5	47.1	72.4	47.9	104.0	55.4 114.5	291	269	• • • • • • • • • • • • • • • • • • • •	∠4.1"
Jamaica	3,582	13,028	44.6	162.6	0.9	5.4	2.5	3.1	291 46	39	 107.4 ^b	-14.1 ^b
Japan	3,157,222	3,678,262	66.5	79.6	56.8	74.2	69.9	103.5	2,561	3,220	12.5°	21.7 ^c
Jordan	4,943	37,639	58.4	159.6	4.9	46.3	7.7	85.0	163	201	55.0 ^b	117.8 ^b
Kazakhstan	1,342	3,941	7.3	9.7	0.5	2.4	1.2	22.0	23	54		
Kenya	1,283	6,384	10.1	24.2	0.4	2.0	3.6	9.7	57	47	–15.0 ^b	60.0 ^b
Korea, Dem. Rep.	-,											
Korea, Rep.	171,587	718,180	33.5	63.1	208.7	94.0	233.2	210.8	1,308	1,620	25.7ª	58.8ª
Kuwait	20,772		56.3		11.4		21.3		77			
Kyrgyz Republic Lao PDR		34 	0.3 	1.5 	1.7 	3.0 		205.3 	80 	6 		
Latvia	563	2,527	7.3	12.2	3.0	0.8	48.6	4.6	64	45	49.8 ^b	32.8 ^b
Lebanon	1,583	4,929	9.5	10.7	0.7	0.9	6.7	25.5	12	11	53.5 ^b	111.8 ^b
Lesotho												
Liberia												
Libya												
Lithuania	1,588	8,183	13.9	29.0	1.8	2.1	14.8	10.2	54	43	56.2 ^b	6.2 ^b
Macedonia, FYR	7	413	0.2	7.7	0.1	0.5	348.3	8.1	1	68		••
Madagascar												
Malawi	126		7.2		0.5				7 705	4 000		
Malaysia Mali	116,935	180,346	129.5	160.6	64.8	50.6	44.6	26.9	795	1,020	12.7ª	–2.9 ^a
Mauritania											••	
Mauritius	1,331	2,617	30.1	39.4	1.7	1.6	5.0	6.1	40	42	 17.8 ^b	10.5 ^b
Mexico	125,204	239,128	21.5	25.4	7.8	6.3	32.3	25.7	179	151	47.9 ^a	43.9 ^a
Moldova	392	574	30.4	22.1	1.9	2.1	97.9	7.7	36	23		
Mongolia	37	25	3.9	1.5		0.0	7.3	2.2	410	395		
Morocco	10,899	27,220	32.7	50.1	3.3	3.4	9.2	16.4	53	56	18.3ª	8.4ª
Mozambique												
Myanmar												
Namibia	311	415	9.1	7.7	0.6	0.3	4.5	1.6	13	13	36.7 ^b	-1.1 ^b
Nepal	790	576	14.4	8.6	0.6	0.4	6.9		110	114	••	
Netherlands	640,456	622,284	172.8	107.5	182.7	104.4	101.4	104.1	234	177		
New Zealand	18,866	43,731	36.2	44.2	20.7	15.6	45.9	40.1	142	158		
Nicaragua												
Niger												
Nigeria	4,237	19,356	10.1	20.1	0.6	2.3	7.3	11.5	195	214	23.9 ^b	20.7 ^b
Norway	65,034	141,430	39.0	56.6	36.0	54.2	93.4	114.7	191	148		
Oman	3,463	15,269	17.4	26.0	2.8	7.4	14.2	29.8	131	96	25.2 ^b	38.0 ^b
Pakistan	6,581	45,937	9.0	30.2	45.0	76.9	475.5	375.7	762	661	20.7 ^b	58.5 ^b
Panama	2,794	3,401	24.0	24.8	1.3	0.4	1.5	1.5	29	22		••
Papua New Guinea		2,942		75.3		0.1				9	••	••
Paraguay	423	212	5.5	2.9		0.0	3.5	71	55 220	52 106	 o za	
Peru	10,562 25,957	35,995 40,153	19.9	29.3	2.9	1.6	12.6	7.1	230	196 235	-0.7 ^a	29.8ª
Philippines Poland	25,957 31,279	40,153 93,873	34.2 18.8	34.2 29.3	10.8 8.8	4.3 6.8	15.8 49.9	20.4 37.3	228 225	235 248	25.0 ^a 59.3 ^a	21.3ª 20.8ª
Portugal	60,681	73,404	57.0	43.8	51.1	20.6	49.9 85.5	52.5	109	248 56	•••••••••••••••••••••••••••••••••••••••	20.0
	00,001	10,404	51.0	+5.0	JI.I	20.0	00.0	JZ.J	TO 0	50		••



5.4 Stock markets

		Market capitalizat	ion			irket iidity		nover atio		lomestic panies	S&P/I inde	
	\$ mi 2000	illions 2005	% o 2000	f GDP 2004		traded f GDP 2004	% of i	nares traded market alization 2005	nun 2000	nber 2005	% ch	ange 2005
Di-												
Romania Russian Federation	1,069	20,588	2.9 15.0	16.1 46.1	0.6 7.8	1.3 22.5	23.1 36.9	28.8 39.0	5,555 249	3,747 296	99.3 ^b 12.8 ^a	58.7 ^b 64.9 ^a
Rwanda	38,922	548,579	15.0	46.1		22.5	36.9	39.0			12.8	64.9°
Saudi Arabia			35.6	122.2	9.2	188.8	27.1	231.7	 75	77	83.6 ^b	 111.0 ^b
Senegal	67,171	646,104		.		···	-	231.1				
Serbia and Montenegro		3,281		13.7	0.3	1.8	0.0	122.3	6	404		•••
Sierra Leone	••	3,261		13.7	0.3	1.0	0.0	122.3	O	404		••
	 152,827	171 555	 167.1	160.6	100.0	76 1	 52.1	 51.2	 418	489	••	••
Singapore Slovak Republic	1,217	<i>171,555</i> 4,393	6.0	10.7	4.4	76.1 1.6	129.8	1.6	418	209	 41.0 ^b	 16.6 ^b
Slovak Republic	2,547	7,899	13.4	30.1		3.6	20.7	9.1	493 38	116	128.5 ^b	–6.9 ^b
Somalia	2,041	1,039		50.1		···	-				120.0	-0.9
South Africa	204,952	565,408	 154.2	214.1	 58.3	 76.5	33.9	41.6	616	388	 50.1 ^a	 24.8 ^a
Spain	504,219	940,673	86.8	90.5	169.8	114.9	210.7	143.3	1,019	3,272	30.1	24.0
Sri Lanka	1,074	5,720	6.6	18.2	0.9	2.9	11.0	23.7	239	239	-59.2 ^b	29.3 ^b
Sudan	1,014	3,120	0.0	10.2	0.3	2.3	11.0	23.1	233		•····	29.5
Swaziland	73	225	5.3	9.4	0.0	0.0	0.2	0.0	6	 6	••	••
Sweden	328,339	376,781	137.1	108.8	162.8	119.1	111.2	123.7	292	256		••
Switzerland	792,316	825,849	322.0	231.0	247.6	203.4	82.0	93.7	252	282		••
Syrian Arab Republic		020,040		201.0	241.0	200.4	02.0					
Tajikistan			•••••				····				•	
Tanzania	233	670	2.6	6.2	0.4	0.2	3.4		4	6		
Thailand	29,489	123,539	24.0	71.4	19.0	67.5	53.2	75.2	381	468	-6.4ª	3.8 ^a
Togo	20,100	120,000										0.0
Trinidad and Tobago	4,330	16,972	53.1	135.9	1.7	4.2	3.1	4.0	27	37	36.8 ^b	–1.3 ^b
Tunisia	2,828	2,876	14.5	9.4	3.2	0.8	23.3	16.8	44	46	4.2 ^b	11.1 ^b
Turkey	69,659	161,537	35.0	32.5	89.9	48.7	206.2	153.9	315	302	32.9 ^a	49.5 ^a
Turkmenistan												
Uganda		96		1.4		0.0				5		
Ukraine	1,881	24,976	6.0	18.2	0.9	0.3	19.6	3.6	139	221	170.3 ^b	52.8 ^b
United Arab Emirates	5,727	30,363	8.1	34.3	0.2	4.3			54	30		
United Kingdom	2,576,992	2,815,928	179.2	132.6	127.6	174.5	66.6	140.5	1,904	2,486	15.3 ^d	4.4 ^d
United States	15,104,037	16,323,726	154.7	139.4	326.3	165.3	200.8	126.5	7,524	5,231	9.0 ^e	3.0 ^e
Uruguay	161	330	0.8	2.5	0.0	0.0	0.9	0.4	16	10		
Uzbekistan	32	4	0.2	0.0	0.1	0.0		108.7	5	145		••
Venezuela, RB	8,128	5,017	6.9	5.6	0.6	0.4	8.9	4.6	85	50	-50.4 ^b	-22.0 ^b
Vietnam												
West Bank and Gaza	765	1,097	16.5	18.8	4.1	1.7	20.9	1.7	24	27		
Yemen, Rep.												
Zambia	236	430	7.3	8.0	0.2	0.1	4.7		9	11		
Zimbabwe	2,432	2,402	32.9	41.3	3.8	2.9	10.8	6.4	69	79	–26.7 ^b	36.6 ^b
World	32,187,883 9	s <i>38,904,43</i> 1 s	103.1 v	v 96.3 v	153.6 v	v 97.0 v	w 122.3 w	53.7 w	47,884 s	48,874 s		
Low income	167,320	450,544	24.2	44.5	78.9	45.0	152.7	107.6	7,965	6,756		
Middle income	1,851,805	2,982,006	37.5	43.7	26.9	23.9	71.5	41.6	15,497	14,117		
Lower middle income	980,024	1,426,779	35.5	36.7	32.3	26.2	91.3	37.1	11,450	10,584		
Upper middle income	871,781	1,555,228	40.0	52.8	20.1	20.9	47.4	44.3	4,047	3,533		
Low & middle income	2,019,125	3,432,550	35.9	43.8	33.3	26.7	81.4	53.7	23,462	20,873		
East Asia & Pacific	780,487	1,050,879	47.2	41.0	50.0	37.0	125.2	50.0	3,190	3,794		
Europe & Central Asia	176,208	561,440	19.3	32.8	25.6	19.4	82.1	59.0	8,295	7,023		••
Latin America & Carib.	626,283	767,136	32.6	39.6	8.6	8.3	26.9	26.1	1,806	1,525		••
Middle East & N. Africa	60,573	141,343	19.8	37.1	6.3	7.4	18.7	16.5	1,807	1,627		
South Asia	157,695	424,403	26.4	48.7	90.9	52.2	168.0	120.6	7,269	6,000		••
Sub-Saharan Africa	217,880	487,349	91.2	129.6	32.8	43.9	22.5	27.6	1,095	904		
High income	30,168,757	35,471,881	117.8	108.9	179.9	113.9	130.9	114.0	24,422	28,001		
Europe EMU	5,423,385	6,805,103	88.5	71.6	81.8	60.6	90.8	102.0	4,367	5,973	•	

 $\textbf{Note:} \ \ \text{Because aggregates for market capitalization are unavailable for 2005, those shown refer to 2004.}$

a. Data refer to the S&P/IFC Investable index. b. Data refer to the S&P/IFC Global index c. Data refer to the Nikkei 225 index. d. Data refer to the FT 100 index. e. Data refer to the S&P 500 index.

About the data

The development of an economy's financial markets is closely related to its overall development. Well functioning financial systems provide good and easily accessible information. That lowers transaction costs, which in turn improves resource allocation and boosts economic growth. Both banking systems and stock markets enhance growth, the main factor in poverty reduction. At low levels of economic development commercial banks tend to dominate the financial system, while at higher levels domestic stock markets tend to become more active and efficient relative to domestic banks.

Open economies with sound macroeconomic policies, good legal systems, and shareholder protection attract capital and therefore have larger financial markets. Recent research on stock market development shows that new communications technology and increased financial integration have resulted in more cross-border capital flows, a stronger presence of financial firms around the world, and the migration of stock exchange activities to international exchanges. Many firms in emerging markets now cross-list on international exchanges, which provides them with lower cost capital and more liquidity-traded shares. However, this also means that exchanges in emerging markets may not have enough financial activity to sustain them, putting pressure on them to rethink their operations.

The stock market indicators in the table include measures of size (market capitalization, number of listed domestic companies) and liquidity (value traded as a percentage of gross domestic product, value of shares traded as a percentage of market capitalization). The comparability of such indicators between countries may be limited by conceptual and statistical weaknesses, such as inaccurate reporting and differences in accounting standards. The percentage change in stock market prices in U.S. dollars, from the Standard & Poor's Emerging Markets Data Base (S&P/EMDB) indexes is an important measure of overall performance. Regulatory and institutional factors that can affect investor confidence, such as entry and exit restrictions, the existence of a securities and exchange commission, and the quality of laws to protect investors, may influence the functioning of stock markets but are not included in the table.

Stock market size can be measured in a number of ways, and each may produce a different ranking of countries. Market capitalization shows the overall size of the stock market in U.S. dollars and as a percentage of GDP. The number of listed domestic companies is another measure of market size. Market

size is positively correlated with the ability to mobilize capital and diversify risk.

Market liquidity, the ability to easily buy and sell securities, is measured by dividing the total value traded by GDP. The turnover ratio—the value of shares traded as a percentage of market capitalization—is also a measure of liquidity as well as of transaction costs. (High turnover indicates low transaction costs.) The turnover ratio complements the ratio of value traded to GDP, because the turnover ratio is related to the size of the market and the value traded ratio to the size of the economy. A small, liquid market will have a high turnover ratio but a low value traded ratio. Liquidity is an important attribute of stock markets because, in theory, liquid markets improve the allocation of capital and enhance prospects for long-term economic growth. A more comprehensive measure of liquidity would include trading costs and the time and uncertainty in finding a counterpart in settling trades.

Standard & Poor's maintains a series of indexes for investors interested in investing in stock markets in developing countries. At the core of the S&P/EMDB indexes, the Global (S&P/IFCG) index is intended to represent the most active stocks in the markets it covers and to be the broadest possible indicator of market movements. The Investable (S&P/IFCI) index, which applies the same calculation methodology as the S&P/IFCG index, is designed to measure the returns that foreign portfolio investors might receive from investing in emerging market stocks that are legally and practically open to foreign portfolio investment.

The S&P/EMDB, the source for all the data in the table, provides regular updates on 53 emerging stock markets encompassing more than 2,613 stocks. The $\ensuremath{\mathsf{S\&P/IFCG}}$ index includes 32 markets and 2,125 stocks, and the S&P/IFCI index covers 22 markets and 1,377 stocks. In addition 251 companies from 21 "frontier" markets are covered. These indexes are widely used benchmarks for international portfolio management. See Standard & Poor's (2001b) for further information on the indexes.

Because markets included in Standard & Poor's emerging markets category vary widely in level of development, it is best to look at the entire category to identify the most significant market trends. And it is useful to remember that stock market trends may be distorted by currency conversions, especially when a currency has registered a significant devaluation.

About the data is based on Demirgüç-Kunt and Levine (1996a), Beck and Levine (2001), and Claessens, Klingebiel, and Schmukler (2002).

Definitions

- Market capitalization (also known as market value) is the share price times the number of shares outstanding. • Market liquidity is the total value traded divided by GDP. Value traded is the total value of shares traded during the period. This indicator complements the market capitalization ratio by showing whether market size is matched by trading.
- Turnover ratio is the total value of shares traded during the period divided by the average market capitalization for the period. Average market capitalization is calculated as the average of the end-of-period values for the current period and the previous period.
- Listed domestic companies are the domestically incorporated companies listed on the country's stock exchanges at the end of the year. This indicator does not include investment companies, mutual funds, or other collective investment vehicles. • S&P/EMDB indexes measure the U.S. dollar price change in the stock markets covered by the S&P/IFCI and S&P/ IFCG country indexes.

Data sources

Data on stock markets are from Standard & Poor's Global Stock Markets Factbook 2005, which draws on the Emerging Markets Data Base, supplemented by other data from Standard & Poor's. The firm collects data through an annual survey of the world's stock exchanges, supplemented by information provided by its network of correspondents and by Reuters. Data on GDP are from the World Bank's national accounts data files.





Financial access, stability, and efficiency

	Bank branches	Bank deposit accounts	Financial information infrastruture index	sy	nking /stem nership	Bank capital to asset ratio	Bank non- performing loans to total gross loans	Deposit insurance coverage	Domestic credit provided by banking sector	Interest rate spread	Risk premium on lending
	per 100,000 people 2001–04 ^a	per 1,000 people 2001–04 ^a	0 (less developed) to 10 (more developed)	% of total by Held by foreign- owned banks 2001	Held by government- owned banks 2001	% 2004	% 2004	% of GDP per capita 2003	% of GDP	Lending rate minus deposit rate percentage points 2004	Prime lending rate minus treasury bill rate percentage points 2004
Afghanistan											
Albania	2.1	161		46.0	54.0			3.0	45.7	5.2	5.0
Algeria				3.9	95.7			3.7	24.8	5.5	7.9
Angola						11.3	13.3		4.5	66.9	
Argentina	10.0	369	7.5	31.8	31.9		18.6	3.1	45.5	4.2	
Armenia	7.6	111	4.5	59.0	0.0	17.8	7.2		7.2	13.7	13.4
Australia	29.9			17.0	0.0	5.9	0.3		109.0	5.2	
Austria	53.9	3,120			0.0	6.0	2.2	0.7	121.9		
Azerbaijan	4.1			4.6	58.3	11.9	9.5		11.2	6.5	11.1
Bangladesh	4.5	229				2.7	17.6	4.6	41.1	7.6	
Belarus	4.8			26.0	74.0	20.0	4.6	0.6	21.2	4.2	
Belgium	53.2	3,080			0.0	3.2	2.2	0.8	104.9	5.2	4.7
Benin			3.0	91.0	0.0				9.9		
Bolivia	1.5	41	5.5	36.3	0.0	11.5	14.0		52.5	7.1	7.1
Bosnia and Herzegovina	3.9	429		73.0	10.0	13.2	3.5	1.7	43.5	6.6	
Botswana	3.8			100.0	0.0	9.7	2.8		-3.0	5.9	
Brazil	14.6	631	4.0	29.9	32.0	16.0	3.9	2.3	98.8	39.5	37.8
Bulgaria	13.9	1,351	7.0	74.6	17.6	11.0	7.1	3.4	36.2	5.8	6.1
Burkina Faso	•••••	- *	*	56.0	0.0	•	•	•	13.5		
Burundi		•••••		•					38.4		
Cambodia	••		1.0		••	••	••	••	8.2	 15.8	••
Cameroon		·	3.0	····	••	••			15.2	13.0	
	 4F.6		•				0.7				
Canada	45.6		••	4.8	0.0	4.4	0.7	1.6	97.0	3.2	1.8
Central African Republic					••				16.7	13.0	
Chad									7.9	13.0	
Chile	9.4	1,045	6.5	46.8	13.3	7.0	1.2	0.7	70.2	3.2	
China	1.3		5.5	·····		3.9	15.6	•	142.6	3.3	
Hong Kong, China	··	····		·····	0.0	12.3	2.2	···	149.3	5.0	4.9
Colombia	8.7	612	7.0	21.5	18.3	12.1	3.3	4.0	41.2	7.3	
Congo, Dem. Rep.									1.2		
Congo, Rep.			1.0	•••					12.0	13.0	
Costa Rica	9.6		6.5	23.3	62.2	11.9	2.0		42.3	13.9	
Côte d'Ivoire				84.2	10.6				18.6		
Croatia	23.4			89.3	5.0	8.5	4.5	2.3	68.2	9.9	
Cuba											
Czech Republic	11.2	1,923	3.5	90.0	3.8	5.6	4.1	3.4	45.8	4.7	3.5
Denmark	37.6	2,706		0.0	0.0			1.2	167.0	4.7	
Dominican Republic	6.0	720				7.4	7.3	0.2	37.3	11.5	
Ecuador	9.3	420		7.0	14.0	9.9	6.4		20.1	5.6	
Egypt, Arab Rep.	3.6		3.5	13.3	64.7	5.1	24.2		106.3	5.7	3.5
El Salvador	4.6	457	5.5	12.3	4.2	8.0	12.0	3.0	49.2		
Eritrea					••				141.9		
Estonia	15.2			98.9	0.0	9.8	0.3	1.2	62.9	3.5	
Ethiopia	0.4								61.1	3.6	6.4
Finland	19.1		•••	6.2	0.0	8.2	0.4	0.9	70.7	2.7	
France	43.2	1,801			0.0	6.5	4.8	2.7	106.4	4.4	4.3
Gabon			1.0				15.8		12.7	13.0	
Gambia, The				95.8					19.9	14.5	
Georgia	3.1		5.5						18.4	24.0	12.1
Germany	49.4			4.3	42.2	4.4	 5.3	0.8	138.0	7.0	6.7
Ghana	1.6		•	53.5	12.1	12.4	16.1		30.5		
Greece	30.8	2,418		10.8	22.8	7.9	7.1	1.4	106.0	4.3	4.4
Guatemala	10.1	404	7.0	9.0	3.0	•	*	1.3	16.1	9.6	
Guinea		• • • • • • • • • • • • • • • • • • • •	•	90.0	0.0			•	15.5	3.0	••
Guinea-Bissau	••	••		100.0	0.0	••	••	••	8.1	••	
•				•					•		21.0
Haiti									31.7	23.3	21.8

Financial access, stability, and efficiency 5.5



	Bank branches	Bank deposit accounts	Financial information infrastruture index	sy	nnking /stem nership	Bank capital to asset ratio	Bank non- performing loans to total gross loans	Deposit insurance coverage	Domestic credit provided by banking sector	Interest rate spread	Risk premium on lending
	per 100,000 people 2001–04 ª	per 1,000 people 2001–04 ^a	0 (less developed) to 10 (more developed)	% of total by Held by foreignowned banks	Held by government- owned banks 2001	% 2004	% 2004	% of GDP per capita 2003	% of GDP 2004	Lending rate minus deposit rate percentage points 2004	Prime lending rate minus treasury bill rate percentage points 2004
Honduras	0.7	287	5.5	18.5	0.0	8.4	6.4	9.5	45.1	8.8	
Hungary	28.3		5.5	88.8	9.0	8.9	2.7	1.6	59.0	3.7	1.5
India	6.3		5.5	7.3	75.3	5.9	6.6	3.9	60.1		
Indonesia	8.4		6.5			9.3	13.4		48.8	7.7	
Iran, Islamic Rep.	8.4	2,249	5.0		<u>.</u>	<u></u>	·············	······································	46.2	5.0	
Ireland	23.4					4.9	0.8	0.6	137.0	2.6	••
Israel	14.7			1.2	46.1	7.1	10.5		83.3	3.8	2.7
Italy	52.1	976		5.7	10.0	6.9	6.5	4.6	106.5	4.1	2.8
Jamaica							3.0	1.7	28.4	10.2	2.7
Japan	10.0			6.7	0.0	4.2	2.9	2.5	154.9	1.7	
Jordan	10.0	465		64.3	0.0	6.4	19.9	7.6	91.5	5.8	
Kazakhstan	2.5		5.5	17.9	0.5	8.0	29.9	1.3	18.6		••
Kenya	1.4	70	3.5	39.3	1.1	11.4	22.9	3.1	39.7	10.1	9.4
Korea, Dem. Rep.					••						
Korea, Rep.	13.4		7.5	29.5	40.0	4.8	1.9	3.3	100.8	2.0	
Kuwait	8.3			0.0	0.0	11.0	5.4		85.3	3.0	
Kyrgyz Republic	3.1			24.7	16.0				8.4	22.6	24.3
Lao PDR			2.5		······································		·····		9.5	21.4	8.9
Latvia			4.5	65.2	3.2	8.2	1.1	1.3	54.7	4.2	2.1
Lebanon	18.0	383	6.0	15.9	2.0	5.7	10.1	0.8	179.0	3.4	5.6
Lesotho				100.0	0.0				-1.3	8.1	3.8
Liberia		••	••	••	••	••		••	219.7	14.3	
Libya		1.00		70.0					-0.5	4.0	0.6
Lithuania EVB	3.4	1,166	6.0	78.2 51.1	12.2	9.5	2.3	2.8	30.0	4.5 5.9	3.2
Macedonia, FYR Madagascar	0.7	14	4.0	51.1 67.8	1.3 0.0	6.2	11.4	9.9	22.1 15.0	10.3	12.6
Malawi		14	4.0	07.0	0.0	•	11.4	••	22.8	23.1	8.3
Malaysia	9.8	1,250	6.5	19.0	0.0	 8.1	11.8	••	138.7	3.0	3.7
Mali	9.0 	1,230		67.0	21.8				17.7		
Mauritania		·						<u> </u>	-5.9	13.0	
Mauritius	11.9	1,586	••	24.5	0.0		***************************************		84.6	12.9	
Mexico	7.6	310	8.0	82.7	0.0	11.5	2.5	489.1	38.4	4.5	0.4
Moldova				36.7	13.6	20.2	6.5		32.0	5.8	9.0
Mongolia									34.8	11.2	••
Morocco	6.6		3.0	20.8	35.0	7.6	19.4		82.6	7.9	
Mozambique			5.0			6.5	6.4		5.4	12.2	9.7
Myanmar										5.5	
Namibia	4.5	423		70.0	0.0				53.6	5.0	3.6
Nepal	1.7		3.5							5.8	6.1
Netherlands	34.2			2.2	3.9	3.9	1.8	0.7	178.8	0.4	
New Zealand	28.0			99.1	0.0				121.5	4.6	4.5
Nicaragua	2.8	96	4.0				9.3	27.5	85.2	8.8	
Niger			3.5	73.4	0.0				11.4		
Nigeria	1.6		1.0		4.7	9.9	21.6	1.0	13.2	5.5	4.8
Norway	22.9	1,611		19.2	0.0	6.1	1.0	5.8	11.1	2.6	••
Oman				11.9	0.0			6.5	34.9	5.3	
Pakistan	4.7	192	5.0	20.1	53.8	6.2	9.0	••	41.8		
Panama	12.9		8.5	59.3	11.8	13.2	2.6	••	90.8	6.6	
Papua New Guinea	1.6	120							21.9	11.5	4.4
Paraguay		216	75	83.5	9.2	10.5	10.8	9.7	18.3	28.4	
Peru	4.2	316	7.5	42.5	0.0	9.8	9.5	8.8	17.4	11.5	
Philippines Poland	7.8 8.2	302	6.0 7.5	15.0 68.7	11.2 23.5	12.8 8.2	24.7 15.5	1.9 5.0	59.8 34.6	3.9 3.8	2.8
Portugal	8.2 51.6			17.7	23.5	6.1	2.2	1.9	153.9		
Puerto Rico				30.4	0.7	•	•	•			••
I UCITO NICO				ა∪.4	0.7						





5.5 Financial access, stability, and efficiency

	Bank branches	Bank deposit accounts	Financial information infrastruture index	sy	nking stem nership	Bank capital to asset ratio	Bank non- performing loans to total gross loans	Deposit insurance coverage	Domestic credit provided by banking sector	Interest rate spread	Risk premium on lending
	per 100,000 people 2001-04 ª		0 (less developed) to 10 (more developed)	% of total by Held by foreign- owned banks 2001	Held by government- owned banks 2001	% 2004	% 2004	% of GDP per capita 2003	% of GDP	Lending rate minus deposit rate percentage points 2004	Prime lending rate minus treasury bill rate percentage points 2004
Romania	13.8	1,208	8.0	47.3	41.8	8.5	8.1	1.4	15.3		
Russian Federation	2.2	1,892	2.0	8.8	35.5	14.0	3.8	1.1	25.9	7.6	7.6
Rwanda			2.0	0.0	6.6				13.5		
Saudi Arabia	5.4	214		20.7	21.4	8.0	3.1		64.2		
Senegal			3.5	78.7	0.0	8.4	14.2		21.8		
Serbia and Montenegro				13.2	3.8		22.8	0.0			
Sierra Leone						11.6	14.8		30.3	11.9	-4.1
Singapore	9.1	1,671			0.0	9.7	2.9		80.2	4.9	4.3
Slovak Republic	10.3		3.5	85.5	4.4	7.2	5.4	4.2	44.0	4.9	
Slovenia	2.2		••	20.6	12.2	7.5	5.7	1.8	55.7	4.8	4.5
Somalia									••		••
South Africa	6.0		6.0	7.7	0.0	7.0	1.8		86.7	4.7	3.8
Spain	95.9	2,076		8.5	0.0	8.5	0.8	1.1	140.6	1.8	1.0
Sri Lanka	6.9		4.0					1.1	44.6	4.4	1.8
Sudan				4.0	12.0				11.5		
Swaziland				85.8	14.2		•••••		15.6	6.7	3.4
Sweden	21.8				0.0	6.3	0.9	0.9	113.1	3.0	1.7
Switzerland	38.0	1.986	•	10.7	14.1	5.0	1.6	0.5	176.1	2.8	2.8
Syrian Arab Republic	····		••		···•		•		30.3	5.0	
Tajikistan	••	<u></u>	••	50.0	4.6	••			16.5	10.6	••
Tanzania	0.6		2.0	30.0	4.0	••	••	0.9	9.2	9.7	 5.6
Thailand	7.2	1,423	5.5	6.8	30.6	8.7	11.9		105.3	4.5	
	···•	1,423	*	•	*	•	•		•		
logo		1 072	••	17.5	51.0	••	•••		16.7		
Frinidad and Tobago	9.2	1,073	 2 F	2.4	14.5	••		1.0	18.8	6.5	4.5
Tunisia F			3.5	15.7	42.7		23.7		70.9	••	
Furkey - · · · ·	8.5	1,114	5.0	3.5	31.8	14.3	6.0	12.6	54.9		
Turkmenistan			••	0.0	96.0						
Jganda 	0.5	47				10.1	2.2	6.5	11.0	12.9	11.6
Jkraine			3.5	10.5	12.0	13.1	30.0	0.3	30.8	9.6	••
Jnited Arab Emirates				27.0	35.0	12.1	12.5		50.6		···
Jnited Kingdom	18.3			46.0	0.0	6.8	2.2	1.9	159.1		0.0
Jnited States	30.9			19.0	0.0	10.3	0.8	2.7	215.5		3.0
Jruguay	6.4		5.5	43.3	42.5		3.6		53.3	17.5	8.9
Jzbekistan											••
/enezuela, RB	4.4	487	4.5	43.2	6.9	12.5	2.8	1.9	11.0	5.9	
/ietnam			5.5					4.0	58.4	2.9	3.7
West Bank and Gaza	3.3	254									<u></u>
Yemen, Rep.			3.5		••				5.2	5.5	4.7
Zambia	1.5		1.5				7.6		35.2	19.2	18.1
Zimbabwe	3.3	174		28.0	6.1	10.7	4.7		49.8	175.7	153.2
World	9.8 w	w	m	25.4 r	n 5.5 m	8.5 m	6.4 m	m	143.7 w	6.5 m	m
Low income	4.9								47.7	11.9	
Viiddle income	5.0			30.9	10.6	9.7	7.1	2.3	78.5	6.5	
Lower middle income	4.4			21.2	13.0	10.2	10.8	2.3	101.3	6.7	
Upper middle income	7.1	1,096		45.0	5.9	8.9	3.2	2.1	47.4	5.8	5.3
Low & middle income	4.9			40.9	9.1		7.6		74.1	7.4	
East Asia & Pacific	2.9		••	••					125.9	6.3	
Europe & Central Asia	6.6		5.3	50.0	12.0	9.8	5.7	1.7	36.8	5.8	••
Latin America & Carib.	9.9	500		31.8	11.8	11.0	5.2	3.0	56.6	7.6	5.0
Middle East & N. Africa				15.7	35.0				59.4	5.5	
South Asia	5.9		4.5			5.9	9.0	3.9	56.4	6.5	
									•		······
				68 a	0.0				<i>4</i> 7 1	12.5	
Sub-Saharan Africa High income	33.0			68.9 10.8	0.0	 6.4	2.2	 1.4	47.1 161.3	12.5 4.1	

a. Data are for the most recent year available in the period shown.

About the data

This year the table includes new indicators from the World Bank and the International Monetary Fund (IMF) covering financial access, stability, and efficiency.

Financial sector development has positive impacts on economic growth and poverty. The size of the sector determines the amount of resources mobilized for investment. Access to finance can expand opportunities for all—not just the rich and well connected—with higher levels of access and use of banking services associated with lower financing obstacles for people and businesses. A stable financial system that promotes efficient savings and investment is also crucial for a thriving democracy and market economy. The banking system is the largest sector in the financial system in most countries, so most of the indicators in the table cover the banking system.

There are several aspects of access to financial services: availability, cost, and quality of services. Two measures of access and use are presented in the table: number of bank branches and bank deposit accounts. The number of bank branches measures the physical outreach of the banking sector to a country's population. As a measure of access to bank outlets, this indicator has limitations: it assumes a uniform distribution of bank outlets across a country's population. But in many countries bank branches are concentrated in urban areas, with accessibility limited for people who live in rural areas. The number of bank deposit accounts is an indicator of actual use of banking services. An individual can have more than one account, so it is still an imperfect measure. Further analysis and detailed explanation of the data can be found in Beck, Demirgüc-Kunt, and Martinez Peria (2005).

The development and growth of credit markets depend on access to timely, reliable, and accurate data on borrowers' credit experiences. For secured transactions, such as mortgages or vehicle loans, having rapid access to information in property registries is also vital, and for small business loans, corporate registry data are needed.

The financial information infrastructure index is based on both the quality and availability of data in credit reports, public registries, corporate registries, and court records. Basic consumer protections are also included in the index. The index ranges from 0 (less developed financial information infrastructure) to 10 (more developed financial information infrastructure). Data are from the World Bank's Financial Sector Operations and Policy Department.

The type of bank ownership—foreign, government, or domestic private—has important implications for the efficiency and stability of financial intermediation. Studies show that banking systems with more foreign-owned (more than half of assets owned by foreigners) and domestic private banks tend to be more efficient and resilient to crises than banking systems with mostly government-owned (more than half of assets owned by the government) banks. These data were collected through a survey of bank regulators conducted by Barth, Caprio, and Levine (2006).

The frequency and magnitude of financial crises over the past two decades have made it clear how important it is to monitor the strength of financial systems. Robust financial systems help increase economic activity and welfare, but unstable financial systems can disrupt financial activity and impose huge and widespread costs on the economy. The ratio of a bank's capital to its total assets measures the extent to which a bank can deal with unexpected losses. Aggregating the ratios across banks provides a measure of the solvency and resiliency of a country's banking system.

The share of bank nonperforming loans to total gross loans is a measure of bank health and efficiency. It helps to identify problems with asset quality in the loan portfolio. A high ratio may signal deterioration in the quality of the credit portfolio. International guidelines recommend that loans be classified as nonperforming when payments of principal and interest are past due by 90 days or more or when future payments are not expected to be received in full. See the IMF's Global Financial Stability Report for more detailed background information.

Deposit insurance is a tool used by governments to promote financial stability and to protect small depositors from losses due to bank failures. Almost all countries have financial safety nets that include explicit or implicit deposit insurance, bank regulation and supervision, central bank lender of last resort facilities, and bank insolvency resolution procedures. But deposit insurance can lead banks to take too much risk. Countries with excessive explicit deposit insurance are more likely to experience a financial crisis and to have poorer financial intermediation. Deposit insurance coverage as a percentage of GDP is presented in the table.

Domestic credit provided by the banking sector as a share of GDP is a measure of banking sector depth and financial sector development in terms of size. In a few countries governments may hold international reserves as deposits in the banking system rather than in the central bank. Since the claims on the central government are a net item (claims on the central government minus central government deposits), this net figure may be negative, resulting in a negative figure of domestic credit provided by the banking sector.

The interest rate spread—the margin between the cost of mobilizing liabilities and the earnings on assets—is a measure of the efficiency by which the financial sector intermediates funds. A narrow interest rate spread means low transaction costs, which lowers the overall cost of funds for investment, crucial to economic growth. The risk premium on lending is the spread between the lending rate to the private sector and the "risk-free" government rate. A small spread indicates that the market considers its best corporate customers to be low risk. Interest rate spreads are expressed as annual averages. In some countries this spread may be negative, indicating that the market considers its best corporate clients to be lower risk than the government.

Definitions

- Bank branches are deposit money bank branches.
- Bank deposit accounts are deposit accounts, including checking, savings, and time deposit accounts for businesses, individuals, and others.
- Financial information infrastructure index is based on 10 measures, 6 covering the scope, quality, and availability of credit reporting data (in private and public registries) and the existence of a basic legal framework for credit reporting, and 4 covering the availability of public registry data for collateral (fixed and moveable) and corporate registries and court records. • Banking system ownership refers to the shares of assets of foreign-owned banks and government-owned banks as percentages of total banking system assets in a country. • Bank capital to asset ratio is the ratio of bank capital and reserves to total assets. Capital and reserves include funds contributed by owners, retained earnings, general and special reserves, provisions, and valuation adjustments. Capital includes tier 1 capital (paidup shares and common stock), which is a common feature in all countries' banking systems, and total regulatory capital, which includes several specified types of subordinated debt instruments that need not be repaid if the funds are required to maintain minimum capital levels (these comprise tier 2 and tier 3 capital). Total assets include all nonfinancial and financial assets. • Bank nonperforming loans to total gross loans are the value of nonperforming loans divided by the total value of the loan portfolio (including nonperforming loans before the deduction of specific loan-loss provisions). The loan amount recorded as nonperforming should be the gross value of the loan as recorded on the balance sheet, not just the amount that is overdue. • Deposit insurance coverage is the value of deposits per depositor protected by a formal deposit insurance scheme as a percentage of GDP per capita. • Domestic credit provided by the banking sector includes all credit to various sectors on a gross basis, except credit to the central government, which is net. The banking sector includes monetary authorities, deposit money banks, and other banking institutions for which data are available (including institutions that do not accept transferable deposits but do incur such liabilities as time and savings deposits). • Interest rate spread is the interest rate charged by banks on loans to prime customers minus the interest rate paid by commercial or similar banks for demand, time, or savings deposits. • Risk premium on lending is the interest rate charged by banks on loans to prime private sector customers minus the "risk free" treasury bill interest rate at which short-term government securities are issued or traded in the market.

Data sources

Data on bank branches, deposit accounts, financial information infrastructure, bank ownership, and deposit insurance coverage are collected from surveys of banking and regulatory institutions by the World Bank's Research Department and Financial Sector and Operations Policy Department. Data on bank capital and nonperforming loans are from the IMF's Global Financial Stability Report. Data on credit and interest rates are from the IMF's International Financial Statistics.





		ue collected I government		Tax payments by businesses			Highest margina tax rate ^a	I
	% (2000	of GDP 2004	Number of payments January 2005	Time to prepare and pay taxes hours January 2005	Total tax payable % of gross profit January 2005	Ind % 2004	ividual On income over \$ 2004	Corporate % 2004
Afghanistan		3.5	2	80	21.4		••	
Albania ^b	13.6		53	240	71.6		••	
Algeria ^b	37.9	32.0	63	504	58.5			
Angola	••		30	656	32.5			
Argentina	9.8	14.2	35	580	97.9	35	41,667	35
Armenia ^b		15.3	50	1,120	53.8			
Australia	22.8	24.1	12	107	37.0	47	46,538	30
Austria	19.3	20.5	20	272	50.8	50	64,052	34
Azerbaijan ^b	12.7	20.0	35	756	41.4	35	7,307	24
Bangladesh ^b	7.6	8.1	17	640	50.4		·····	•
Belarus ^b	16.6	18.6	113	1,188	121.8			
Belgium	27.8	25.8	113	1,100	44.6	 50	30,210	33
Benin		····	75	270	53.1		·····	•
Bolivia	12.2	15.0	···•····		•	12		25
	13.2	15.0	41 73	1,080	64.0	13	••	• • • • • • • • • • • • • • • • • • • •
Bosnia and Herzegovina		22.4	··· · ····	100	19.7			
Botswana ^b			24	140	52.9	25	20,950	15
Brazil ^b	12.2	··	23	2,600	147.9	28	8,843	15
Bulgaria ^b	18.3	22.3	27	616	38.6	29	4,550	20
Burkina Faso			40	270	48.3			
Burundi ^b	15.4		41	140	173.5		··	
Cambodia	8.6	8.6	27	97	31.1	20	36,356	20
Cameroon ^b			51	1,300	47.6	60	10,726	39
Canada ^b	15.3	14.2	10	119	32.5	29	809,718	21
Central African Republic			66	504	60.9			
Chad			65	122	51.3			
Chile	16.6	15.9	8	432	46.7	40	6,127	17
China ^b	6.8	8.5	34	584	46.9	45	12,082	30
Hong Kong, China	••		1	80	14.3	17	13,462	18
Colombia	13.3	13.8	54	432	75.1	35	29,426	37
Congo, Dem. Rep. ^b	3.5	6.3	34	312	134.7	50	6,056	40
Congo, Rep. ^b	9.2	8.5	94	576	66.9			
Costa Rica ^b	12.1	13.4	41	402	54.3	30	16,860	30
Côte d'Ivoire ^b	14.6	14.9	71	270	46.9	10	3,837	35
Croatia ^b	26.2	24.1	39	232	47.1	45	35,171	
Cuba								
Czech Republic	15.7	16.1	14	930	40.1	32	12,910	28
Denmark	31.3	31.1	18	135	63.4	59	51,162	30
Dominican Republic	15.7 ^b	15.1 ^c	85	124	57.2	25	23,734	25
cuador ^b			33	600	33.9	25	57,600	25
Egypt, Arab Rep.b		••	39	504	32.1	32	10,823	40
El Salvador	10.7	11.0	65	224	32.2			
Fritrea			18	216	66.3			
istonia ^b	16.0		11	104	39.5	26	1,354	35
Ethiopia ^b	13.2		20	52	43.6		1,004	•
inland	25.0	23.0	19		52.1	34	68,517	29
rance	23.6	23.0	29	72	42.8	48	60,673	33
abon							······	35 35
iambia, The ^b			····	••		50	••	•
						••	••	
Georgia ^b	7.7	9.8	49	448	49.7		 CE 224	
Germany	11.9	10.9	32	105	50.3	45	65,224	25
Ghana ^b	17.2	22.4	35	304	45.3	30	5,647	33
Greece	26.0		32	204	47.9	40	29,464	35
Guatemala ^b	10.1	10.1	50	260	53.4	31	35,853	31
iuinea ^b			55	416	51.2			
Guinea-Bissau								
laiti .			53		31.7			



		ue collected I government		Tax payments by businesses			Highest margina tax rate ^a	I
	% (2000	of GDP 2004	Number of payments January 2005	Time to prepare and pay taxes hours January 2005	Total tax payable % of gross profit January 2005	Ind % 2004	lividual On income over \$ 2004	Corporate % 2004
Honduras			48	424	43.2	25	27,778	25
Hungary	22.7	22.1	24	304	56.8	38	7,214	16
Indiab	9.0	10.2	59	264	43.2	30	3,283	36
Indonesia ^b	11.3	12.3	52	560	38.8	35	22,371	30
Iran, Islamic Rep.b	6.4	6.0	28	292	14.6	35	125,345	25
Iraq			13	48	5.6			
Ireland ^b		••	8	76	45.3	42	35,443	13
Israel	31.0	28.8	33	210	57.5	49	90,040	36
Italy	23.6	22.9	20	360	59.8	45	88,608	33
Jamaica ^b	24.7	24.8	72	414	49.4	25	1,993	33
Japan ^b			26	315	34.6	37	167,395	30
Jordan ^b	19.0	20.8	10	101	39.8			
Kazakhstan ^b	10.2	14.7	34	156	41.6	20	47,552	30
Kenya ^b	18.8	17.2	17	372	68.2	30	5,841	30
Korea, Dem. Rep.				0,2			3,011	
Korea, Rep. ^b	16.1		 26	290	29.6	36	66,644	27
Kuwait ^b	1.3	1.5	14		8.2	0	•	0
Kyrgyz Republic ^b	11.7		95	204	59.4		••	
Lao PDR	·····•		31	180	24.7	 40	 7,894	••
Latvia ^b	14.4	13.8	39	320	38.7	25	••••	
Lebanon	12.4	15.5	33	208	30.4		••	•
Lesothob	32.4	43.5	19	564	37.7			
			••••		•	••	••	···
Liberia	••	••		••	••	••	••	
Libya								
Lithuania	14.6	17.2	13	162	41.6		••	15
Macedonia, FYR			54	96	40.1	••	••	
Madagascar	56.6	54.4	29	400	58.9			
Malawi			33	782	56.5			
Malaysia ^b	14.3	17.6	28		11.6	28	65,789	28
Mali			60	270	44.0			
Mauritania			61	696	75.8			
Mauritius ^b	18.4	17.8	7	158	38.2	25	951	25
Mexico	11.7	·-	49	536	31.3	33	9,555	33
Moldova ^b	14.7	16.4	44	250	44.7			
Mongolia		22.6	43		45.3			
Morocco	23.5 ^b	21.9 ^d	28	690	54.8	44	5,243	35
Mozambique			35	230	50.9	32	42,314	32
Myanmar ^b	3.0					••		
Namibia ^b	30.0	25.9	23	50	43.9	35	29,851	35
Nepal ^b	8.7	9.8	23	408	31.8			
Netherlands	23.1	22.8	22	700	53.3	52	63,777	35
New Zealand	29.8	30.3	8	70	44.2	39	39,242	33
Nicaragua ^b	13.8	15.5	64	240	54.3	25	31,545	25
Niger			44	270	49.4			
Nigeria			36	1,120	27.1	25	1,553	30
Norway	27.7	29.0	3	87	60.1			28
Oman ^b	7.2		13	52	5.2	0		12
Pakistan ^b	10.2	10.5	32	560	57.4	35	11,746	41
Panama ^b	10.2		45	424	32.9	30	200,000	30
Papua New Guinea ^b	19.4	22.3	43	198	36.7	47	24,842	25
Paraguay ^b	9.9	11.2	33	328	37.9	0		30
Peru ^b	12.3	13.3	53	424	50.7	30	49,899	30
Philippines ^b	13.7	12.6	62	94	46.4	32	8,995	32
Poland ^b	16.4	17.3	43	175	55.6	40	19,211	19
Portugal	22.7	22.6	7	328	45.4	40	67,139	25
Puerto Rico			41	140	17.8	33	50,000	20



5.6 Tax policies

	Tax revenue by central g			Tax payments by businesses			Highest margina tax rate ^a	I
	% of 0 2000	GDP 2004	Number of payments January 2005	Time to prepare and pay taxes hours January 2005	Total tax payable % of gross profit January 2005	Ind % 2004	ividual On income over \$ 2004	Corporate % 2004
Romania ^b	11.7	11.7	62	188	51.1	40	4,617	25
Russian Federation	13.7	13.5	27	256	40.8	13		24
Rwanda ^b			42	168	53.9			• • • • • • • • • • • • • • • • • • • •
Saudi Arabia	••	••	13	70	1.4	0	••	0
Senegal ^b	17.3	••	59	696	45.0	0	 22,469	35
Serbia and Montenegro ^b	23.0	23.0	41	168	46.3			• • • • • • • • • • • • • • • • • • • •
Sierra Leone ^b			····•	·· ·· ······	·*·····	••	••	••
	6.8		20	399	163.9			
Singapore ^b	15.6	12.5	16	30	19.5	22	188,191	20
Slovak Republic		16.7	31	344	39.5	38	14,087	25
Slovenia ^b	21.4	21.5	29	272	47.3	50		25
Somalia								
South Africa ^b	24.0	26.0	32	350	43.8	40	38,060	30
Spain	15.9	11.8	7	56	48.4	29	56,962	35
Sri Lanka ^b	14.5	14.0	42		49.4	30	8,083	30
Sudan ^b	6.3	••						
Swaziland	26.7	24.9	••	••	••	33	5,496	30
Sweden	19.9	19.7	5	122	52.6	25	59,756	28
Switzerland ^b	11.3	10.0	25	63	22.0			9
Syrian Arab Republic ^b	17.4	••	22	336	20.8			
ajikistan ^b	7.7	9.8						
anzania	······································	0.0	48	248	51.3	30	6,090	30
hailand		 15.9	44	52	29.2	37	101,420	30
······································					·•············		101,420	•····
ogo	••		51	270	50.9			
rinidad and Tobago ^b						30	7,937	30
unisia ^b	21.3	20.7	31	112	52.7			
urkey ^b	20.2	••	18	254	51.1	40	100,298	30
urkmenistan								
Jganda ^b	10.9	11.9	31	237	42.9	30	2,523	30
Jkraine ^b	14.1	13.3	84	2,185	51.0	13	3,826	25
Inited Arab Emirates ^b	1.7		15	12	8.9	0		0
Inited Kingdom	29.1	27.4	22		52.9	40	51,358	30
Inited States	12.7	9.8	9	325	21.5	35	319,100	35
Iruguay	16.7	18.5	54	300	80.2	0		35
Jzbekistan			118	152	75.6	30	666	18
/enezuela, RB ^b	13.3	11.5	68	864	48.9	34	60,324	34
/ietnam ^b			44	1,050	31.5			28
Vest Bank and Gaza			49	_,000	42.0		•	
'emen, Rep.b	9.4		32	248	128.8	••		••
ambia ^b	18.4	••	36	132	38.6	30		35
Zimbabwe ^b		••	··· · ····		· ····································		····•	•
	45.7	14.5	59	216	48.6	45	26,249	30
World	15.7 w	14.5 w	35 u	354 u	46.5 u			
ow income	10.0	10.5	44	385	54.4			
/liddle income	12.3	12.4	38	406	44.5			•
Lower middle income	9.6	10.1	42	444	44.5		····•	
Upper middle income			30	333	44.4			
ow & middle income	11.9	12.0	40	398	48.5			
East Asia & Pacific	7.7	10.0	31	270	33.1		····	
Europe & Central Asia	15.6	15.8	48	438	50.3			
Latin America & Carib.	11.8		49	549	54.5			
Middle East & N. Africa			30	281	40.4			
South Asia	9.3	10.1	26	332	35.3			•••••
Sub-Saharan Africa	••		41	394	58.1			
ligh income	16.5	14.6	18	181	38.8			
Europe EMU	19.2	17.9	19	233	49.2			
Lui Ope Livi U	13.∠	11.3	73	۷,33	43.∠			

a. These data are from PricewaterhouseCoopers' Individual Taxes: Worldwide Summaries 2004–2005 and Corporate Taxes: Worldwide Summaries 2004–2005, copyright 2004 by PricewaterhouseCoopers and used by permission of John Wiley and Sons, Inc. b. Data on central government tax revenue were reported on a cash basis and have been adjusted to the accrual framework of the Government Finance Statistics Manual 2001. c. World Bank staff estimate. d. International Monetary Fund staff estimate.

About the data

The table includes new information on taxes that businesses must pay and measures of the administrative burden in paying taxes. Data are from the World Bank's Doing Business 2006.

Taxes are the main source of revenue for many governments. The sources of tax revenue and their relative contributions are determined by government policy choices about where and how to impose taxes and by changes in the structure of the economy. Tax policy may reflect concerns about distributional effects, economic efficiency (including corrections for externalities), and the practical problems of administering a tax system. There is no ideal level of taxation. But taxes influence incentives and thus the behavior of economic actors and the economy's competitiveness.

Taxes are compulsory transfers to governments from individuals, businesses, or institutions. Certain compulsory transfers, such as fines, penalties, and most social security contributions are excluded from tax revenue.

The level of taxation is typically measured by tax revenue as a share of gross domestic product (GDP). Comparing levels of taxation across countries provides a quick overview of the fiscal obligations and incentives facing the private sector. The table shows only central government data, which may significantly understate the total tax burden, particularly in countries where provincial and municipal governments are large or have considerable tax authority.

Low ratios of tax revenue to GDP may reflect weak administration and large-scale tax avoidance or evasion. Low ratios may also reflect a sizable parallel economy with unrecorded and undisclosed incomes. Tax revenue ratios tend to rise with income, with higher income countries relying on taxes to finance a much broader range of social services and social security than lower income countries are able to.

The new indicators covering taxes paid by businesses go beyond the usual measures of tax rates. which capture only part of the taxpayer burden. In some countries tax systems are so complex that businesses must make more than 100 payments and spend up to 2.600 hours a year to prepare and pay taxes.

Taxes are measured at all levels of government and include corporate income tax, personal income tax withheld by businesses, value added or sales taxes, property transfer taxes, financial transactions taxes. dividend taxes, waste collection taxes, and vehicle and road taxes. To make the data comparable across countries, several assumptions are made about the business. The main assumptions are that they are limited liability companies, they operate in the country's most populous city, they are domestically owned, they perform general industrial or commercial activities, and they have a certain level of start-up capital, employees, and turnover. For details about the assumptions, see Doing Business 2006.

A potentially important influence on both domestic and international investors is a tax system's progressivity, as reflected in the highest marginal tax rate levied at the national level on individual and corporate income. Figures for individual marginal tax rates generally refer to employment income. In some countries the highest marginal tax rate is also the basic or flat rate, and other surtaxes, deductions, and the like may apply. And in many countries several different corporate tax rates may be levied, depending on the type of business (mining, banking, insurance, agriculture, manufacturing), ownership (domestic or foreign), volume of sales, or whether surtaxes or exemptions are included. The corporate tax rates in the table are mainly general rates applied to domestic companies. For more detailed information, see the country's laws, regulations, and tax treaties.

Definitions

• Tax revenue collected by central government refers to compulsory transfers to the central government for public purposes. Certain compulsory transfers such as fines, penalties, and most social security contributions are excluded. Refunds and corrections of erroneously collected tax revenue are treated as negative revenue. The analytic framework of the International Monetary Fund's (IMF) Government Finance Statistics Manual 2001 (GFSM 2001) is based on accrual accounting and balance sheets. For countries still reporting government finance data on a cash basis, the IMF adjusts reported data to the GFSM 2001 accrual framework. These countries are footnoted in the table. • Tax payments by businesses are the total number of taxes paid by businesses, including electronic filing. The tax is counted as paid once a year even if payments are more frequent. • Time to prepare and pay taxes is the time, in hours per year, it takes to prepare, file, and pay (or withhold) three major types of taxes: the corporate income tax, the value added or sales tax, and labor taxes, including payroll taxes and social security contributions. • Total tax payable is the total amount of taxes payable by the business (except for labor taxes) after accounting for deductions and exemptions as a percentage of gross profit. For further details on the method used for assessing the total tax payable, see Doing Business 2006. • Highest marginal tax rate is the highest rate shown on the national level schedule of tax rates applied to the annual taxable income of individuals and corporations. Also presented are the income levels for individuals above which the highest marginal tax rates levied at the national level apply.

5.6a



Data sources

Data on central government tax revenues are from print and electronic editions of the IMF's Government Finance Statistics Yearbook. Data on taxes paid by businesses are from Doing Business 2006. Data on individual and corporate tax rates are from PricewaterhouseCoopers's Individual Taxes: Worldwide Summaries 2004-2005 and Corporate Taxes: Worldwide Summaries 2004-2005.





Defense expenditures and arms transfers

	Military expenditures				A	rmed force	s personne	el		Arms tra	ansfers	
			% of central	government			%	of		\$ mill 1990 ;		
	% of 1995	GDP 2004		nditure 2004	thous	ands 2004		force 2004	Expo 1995			oorts 2004
	1993	2004	1993	2004					·	2004		
Afghanistan Albania	2.1	 1.2	 8.2		383 87	27 22	5.5 6.0	0.3 1.6	0	••	<i>0</i> 21	<i>0</i> 6
Algeria	3.0	3.3	12.2	 15.2	163	318	1.8	2.5			342	282
Angola	18.1	9.1			122	118	2.3	1.7	0	0	1	5
Argentina	1.6	1.0		5.6	99	102	0.7	0.6	3	0	67	129
Armenia	4.1	2.9		15.5	61	49	4.2	3.8	••	••	49	68
Australia	2.0	1.8		7.2	57	52	0.6	0.5	20	52	147	334
Austria	0.9	0.7		1.9	56	39	1.4	1.0	0	1	23	46
Azerbaijan	2.3	1.8	11.7		127	81	3.8	2.0			0	0
Bangladesh	1.4	1.2		13.2	171	251	0.3	0.4			121	26
Belarus	1.6	1.2	5.5	4.1	106	182	2.1	3.8	8	50	0	0
Belgium Benin	1.6	1.4		2.9	47 7	36 6	1.1 0.3	0.8 0.2	297	0	16 <i>0</i>	12 0
Bolivia	1.9	1.6		5.9	64	68	2.2	1.7			0	1
Bosnia and Herzegovina		2.4		6.2	92	24	5.2	1.2	0	0	0	0
Botswana	3.5	3.6	11.5		9	10	1.4	1.6			7	10
Brazil	2.1	1.4	4.8		681	687	0.9	0.8	40	100	226	38
Bulgaria	2.6	2.4	6.6	6.9	136	85	3.5	2.7	2	0	0	12
Burkina Faso	1.5	1.4			10	10	0.2	0.2			0	
Burundi	4.2	5.8	17.8		15	81	0.5	2.2			0	0
Cambodia	5.4	2.2	······································	24.1	309	192	6.2	2.9	0	0	0	0
Cameroon	1.4	1.5	11.7		24	23	0.5	0.4			0	0
Canada Central African Republic	1.6 1.2	1.2 1.1	6.3	6.5	76 5	71 2	0.5 0.3	0.4 0.1	378	543	146 0	340
Chad	1.4	1.1			35	34	1.3	1.0	0	••	1	0
Chile	3.3	3.9		21.0	130	116	2.3	1.8	0	0	461	43
China	1.7 ^a	1.9 ^a	a	19.3ª	4,130	3,755	0.6	0.5	897	125	419	2,238
Hong Kong, China												
Colombia	2.6	4.3		18.9	233	336	1.4	1.5			37	17
Congo, Dem. Rep.	1.5		13.5		65	64	0.4	0.3			0	0
Congo, Rep.		1.4		6.9	17	12	1.4	0.8			0	0
Costa Rica					16	0	1.2	0.0		••	0	0
Côte d'Ivoire	0.8	1.6		8.9	15	18	0.3	0.3			2	14
Croatia Cuba	9.4	1.7	22.2	4.1	150 124	30 75	7.2 2.5	1.5 1.4	0	0	22 0	8 <i>0</i>
Czech Republic	1.7	 1.8		 5.1	92	73 27	1.8	0.5	 156	0	0	18
Denmark	1.7	1.5		4.2	33	21	1.2	0.7	0	6	127	194
Dominican Republic					40	39	1.3	1.0			0	21
Ecuador	2.4	1.9	20.1		57	46	1.3	0.8			10	22
Egypt, Arab Rep.	3.5	2.8	12.5		610	798	3.5	3.6	16	0	1,696	398
El Salvador	1.0	0.7		3.9	39	15	1.8	0.6	0		3	0
Eritrea	20.8	19.4		••	55	201	4.4	11.7	0	0	3	382
Estonia	1.0	1.8	3.0		6	6	0.8	0.9	0	0	18	5
Ethiopia	2.2	4.3		21.8	120	182	0.5	0.6	0	17	0 150	162 57
Finland France	1.5 3.0	1.2 2.5		3.3 5.4	35 502	31 358	1.4 2.0	1.2 1.3	20 681	17 2,122	159 43	57 89
Gabon	3.0	2.5 		5.4 	10	358	2.0	1.0		2,122	43 0	0
Gambia, The	0.8	0.4			10	1	0.2	0.1			0	0
Georgia	2.2	1.4	8.2	9.4	14	22	0.5	1.0	0	20	0	0
Germany	1.6	1.4	8.3	4.4	365	284	0.9	0.7	1,435	1,091	218	190
Ghana	0.8	0.8		3.8	13	7	0.2	0.1	••	••	0	27
Greece	4.3	4.1			202	167	4.5	3.3	0	0	865	1,434
Guatemala	1.0	0.4	13.1	3.6	57	48	1.8	1.2			3	0
Guinea	1.4	2.9			19	11	0.5	0.3			0	0
Guinea-Bissau	0.9				9	9	1.9	1.5			0	
Haiti		••		••	7	0	0.2	0.0	••	••	••	

Defense expenditures and arms transfers 5.7



	Military expenditures				A	rmed force	es personne	el		Arms tra	ansfers	
	% of	GDP		l government nditure	thous	ands		of force	Expor	\$ mill 1990 ¡ ts	orices	oorts
	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004
Honduras		0.7			24	20	1.2	0.7	<u> </u>		0	
Hungary	1.6	1.7	····	4.4	73	46	1.8	1.1	6	0	21	 15
India	2.2	2.3	 15.1	14.8	2,150	2,617	0.6	0.6	2	22	945	2,375
Indonesia	1.6	1.4	16.2	8.3	461	582	0.5	0.6	30	50	334	85
Iran, Islamic Rep.	2.3	3.4	15.2	17.0	763	460	4.4	1.8	1	1	306	283
Iraq					407	179	7.0	2.2	0		0	82
Ireland	1.0	0.6	2.8		13	10	0.9	0.5	0		0	25
Israel	9.0	9.3		19.1	178	176	8.5	6.6	110	283	244	724
Italy	1.8	1.9	••	4.7	585	445	2.5	1.9	305	261	270	317
Jamaica					4	2	0.3	0.2			0	0
Japan 	0.9	1.0			252	251	0.4	0.4	16	0	757	195
Jordan	12.4	7.6	47.5	24.0	129	110	10.2	6.1	0	72	19	132
Kazakhstan	1.1	1.0	5.7	7.0	75	99	1.0	1.2	24	5	99	27
Kenya	1.6	1.6	6.5	7.9	29	29	0.2	0.2			0	0
Korea, Dem. Rep.		 2 F			1,243	1,295	12.4	12.2	52 25	0	72	5
Korea, Rep. Kuwait	2.8 13.6	2.5 <i>7.5</i>	19.4	20.9	641 22	696 21	3.0 2.5	2.9 1.6	25 <i>0</i>	50 0	1,638 630	737 0
Kyrgyz Republic	1.6	2.9	29.3 6.1		7	21 17	0.4	0.8	61	0	030	5
Lao PDR	2.9	2.9			137	129	7.7	5.6		······································	0	0
Latvia	0.9	1.7	3.1	6.0	11	5	0.9	0.5	0	0	12	14
Lebanon	6.7	3.8		12.8	63	85	5.5	6.2	0	0	34	0
Lesotho	3.7	2.6	10.7	6.8	2	2	0.3	0.3			0	1
Liberia	31.2	7.5			21	0	2.7	0.0			0	0
Libya	4.1	1.9			81	76	5.2	3.4	0	0	0	74
Lithuania	0.4	1.7		5.8	9	28	0.5	1.7	0	0	4	31
Macedonia, FYR	3.0	2.5			18	17	2.2	2.0	0	29	0	0
Madagascar	4.3				29	21	0.5	0.3			0	0
Malawi	0.8		••		10	6	0.2	0.1	0	0	0	0
Malaysia	2.8	2.3	16.0	13.8	140	130	1.7	1.2	0	0	900	277
Mali	2.2	1.9			15	11	0.4	0.2			0	0
Mauritania	2.6	1.2	••		21	20	2.3	1.7		••	1	0
Mauritius	0.4	0.2	1.8	0.9	2	0	0.4	0.0			0	0
Mexico	0.6	0.4	3.8		189	203	0.5	0.5			43	265
Mondolio	0.9	0.4	2.4	1.3	15	9	0.8	0.4	0	0	6	0
Mongolia	1.7	2.1		••	31	15	3.3	1.3	••	••	0	
Morocco Mozambique	4.6 1.5	4.5 1.2	16.1		238 12	250 11	2.7 0.2	2.3 0.1		••	30 <i>0</i>	0
Myanmar	3.7				371	482	1.7	1.8	••	••	216	65
Namibia	2.0	2.4	·•	 8.5	8	462 15	1.5	2.3			210	53
Nepal	0.9	1.7			63	131	0.8	1.3			1	32
Netherlands	1.9	1.6		3.8	78	53	1.0	0.6	350	211	33	183
New Zealand	1.4	1.0		3.2	10	8	0.6	0.4	0	1	4	42
Nicaragua	1.1	0.7	6.8	3.5	12	14	0.8	0.7	5	0	0	0
Niger	1.0	0.9			11	10	0.3	0.2			0	0
Nigeria	0.7	0.8			89	160	0.2	0.3	0		2	10
Norway	2.4	1.9		5.0	31	25	1.4	1.0	22	51	83	1
Oman	14.6	10.4	45.2		48	45	6.2	4.8	0	0	157	123
Pakistan	6.0	4.1	31.4	28.1	846	921	2.2	1.7	0	10		
Panama	1.2		5.6		12	0	1.1	0.0			0	0
Papua New Guinea	1.0	0.6	3.9	2.1	4	3	0.2	0.1			0	0
Paraguay	1.1	0.7	10.0	5.4	28	24	1.4	0.9		<u>.</u>	0	4
Peru	1.9	1.2	10.9	7.1	178	157	1.8	1.2	0	5	32	14
Philippines	1.4	0.9	8.5		149	146	0.5	0.4			32	59
Poland	2.0	1.9		5.0 5.1	302	162	1.7	0.9	187	86	125	256
Portugal	2.5	2.1	···	5.1	104	91	2.1	1.7	0	·····	18	59
Puerto Rico			••							••		





Defense expenditures and arms transfers

		Military e	xpenditures		,	Armed force	s personne	el		Arms tr	ansfers	
	% of		exper	government nditure		sands	labor	of force	1	\$ mil 1990 orts	prices Imp	oorts
	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004
Romania	2.8	2.2		8.9	297	176	2.4	1.7	6	0	0	276
Russian Federation	4.4	3.9		17.9	1,800	1,452	2.5	2.0	3,181	6,197	40	0
Rwanda	4.4	2.1			47	53	2.0	1.3			0	0
Saudi Arabia	9.3	7.7			178	214	3.0	2.8	0	0	974	838
Senegal	1.8	1.4			17	18	0.5	0.4			2	0
Serbia and Montenegro	5.3	3.4		11.0	165	110	3.5	2.8	0	0	18	0
Sierra Leone	2.9	1.6			7	13	0.4	0.6			15	0
Singapore	4.4	4.7	35.1	30.5	66	165	3.7	7.6	0	70	225	456
Slovak Republic	3.2	1.7		5.2	51	20	2.1	0.8	114	0	220	0
Slovenia	1.7	1.6	4.7	3.9	13	10	1.3	1.0			18	14
Somalia					225	0	8.3	0.0			0	0
South Africa	2.2	1.5		5.0	277	55	1.7	0.3	16	35	38	8
Spain	1.4	1.0		3.7	282	220	1.7	1.1	65	75	348	261
Sri Lanka	5.3	2.8	20.3	13.6	236	239	3.3	2.9			49	6
Sudan	1.9	2.2			134	121	1.6	1.2			3	270
Swaziland	2.4				3		1.1				0	0
Sweden	2.3	1.7		4.7	100	28	2.2	0.6	185	260	70	13
Switzerland	1.3	1.0	5.2	5.4	31	4	0.8	0.1	77	154	93	125
Syrian Arab Republic	7.1	7.0			531	415	11.2	5.7	0	0	43	0
Tajikistan	1.0	2.2		15.8	18	12	0.9	0.6			0	0
Tanzania	1.5	3.0			36	28	0.2	0.1			0	0
Thailand	2.3	1.2		6.7	421	419	1.3	1.2	0	5	562	105
Togo	2.4	1.5			8	9	0.4	0.4			3	0
Trinidad and Tobago					7	2	1.3	0.3			0	0
Tunisia 	1.9	1.5	6.7	5.4	59	47	2.1	1.3			59	0
Turkey	3.9	3.9	18.6	••	690	616	3.0	2.3	0	18	1,288	418
Turkmenistan	2.3				11	26	0.7	1.2			0	20
Uganda ·	2.2	2.5		11.1	52	55	0.6	0.5			39	19
Ukraine	2.8	2.6		7.9	519	271	2.0	1.2	218	452	0	29
United Arab Emirates	5.2	2.8	49.2		71	50	5.5	1.9	27	3	432	1,246
United Kingdom	3.0	2.6	••	6.5	233	205	0.8	0.7	1,109	985	635	171
United States	3.8	4.0		19.0	1,636	1,473	1.2	1.0	9,690	5,453	389	533
Uruguay	1.7	1.4	6.3	5.0	27	25	1.8	1.4	0	170	7	0
Uzbekistan	1.1	0.5		 F 1	42	75	0.5	0.7	0	170	0	0
Venezuela, RB	1.6	1.2	8.7	5.4	80	82 5 5 6 4	0.9	0.7	0	1	0 270	12
Vietnam West Bank and Gaza	2.6	••		••	622	5,564 0	1.8	12.9			270	247 0
					70	•	10	2.4			1	309
Yemen, Rep. Zambia	6.4 2.2	6.6	33.4	••	70 23	136	1.8 0.6	2.4	0	0	120 <i>0</i>	309 0
Zimbabwe	••••••	3.4	11.2		23 68	16 50	1.4	0.3 0.9	.*	•	0	0
World	3.6 2.4 w	2.5 w		10.9 w	30,182 s		1.4 1.2 w	1.1 w	10 927 c	19,152 s		
Low income	2.4 W	2.3 w		15.6	7,768	·	1.0	1.1 W	120	202		3,949
Middle income	2.4	2.3 1.9	17.0	13.6	16,059	13,185 13,882	1.0	0.9	4,905	7,251	1,822 7,868	5,989
Lower middle income	2.2	2.0		16.4	11,683	10,550	1.0	0.9	1,242	914	4,404	4,283
Upper middle income	2.1	1.8	••	***************************************	4,376	3,332	1.0	1.3	3,663	6,337	3,464	1,706
Low & middle income	2.2	2.0		13.7	23,826	27,067	1.1	1.1	5,003	7,453	9,690	9,938
East Asia & Pacific	1.8	1.8	••	17.3	8,021	12,716	0.9	1.2	979	180	2,813	3,081
Europe & Central Asia	2.8	2.3	••	11.0	4,971	3,669	2.3	1.7	3,963	7,027	1,943	1,208
Latin America & Carib.	1.8	1.3	5.3	±±.0	2,112	2,066	2.3 1.1	0.8	3,903	106	889	566
Middle East & N. Africa	4.1	3.7	17.6		3,172	2,930	4.2	2.8	17	73	2,810	1,683
South Asia	2.7	2.5	17.8	 15.9	3,852	4,186	0.8	0.7	2	32	1,116	2,439
Sub-Saharan Africa	2.7	1.9	11.0	10.0	1,698	1,500	0.8	0.7	16	35	1,110	961
High income	2.5	2.6		10.5	6,356	5,578	1.3	1.1	14,812	11,699	9,838	8,876
	••							•		•		••
Europe EMU	2.0	1.7		4.4	2,270	1,736	1.7	1.2	3,153	3,778	1,993	2,673

Note: For some countries data are partial or uncertain or based on rough estimates; see SIPRI (2005).

a. Estimate differs from official statistics of the government of China, which has published the following estimates: military expenditure as 1.1 percent of GDP in 1995 and 1.6 percent in 2003 and 9.3 percent of central government expenditure in 1995 and 7.7 percent in 2003 (see National Bureau of Statistics of China, www.stats.gov.cn).

Defense expenditures and arms transfers

About the data

Although national defense is an important function of government and security from external threats contributes to economic development, high levels of defense spending burden the economy and may impede growth. Data on military expenditures as a share of gross domestic product (GDP) are a rough indicator of the portion of national resources used for military activities and of the burden on the national economy. Comparisons of defense spending between countries should take into account the many factors that influence perceptions of vulnerability and risk, including historical and cultural traditions, the length of borders that need defending, the quality of relations with neighbors, and the role of the armed forces in the body politic. As an "input" measure, military spending is not directly related to the "output" of military activities, capabilities, or

Data on defense spending reported by governments are not compiled using standard definitions. They are often incomplete and unreliable. Even in countries where the parliament vigilantly reviews budgets and spending, defense spending and arms transfers rarely receive close scrutiny and full, public disclosure (see Ball 1984 and Happe and Wakeman-Linn 1994). The data on military expenditures as a share of GDP and a share of central government expenditure are estimated by the Stockholm International Peace Research Institute (SIPRI). Central government expenditures are from the International Monetary Fund (IMF). Therefore the data shown in the table may differ from comparable data published by national governments.

SIPRI's primary source of military expenditure data is offcial data provided by national governments. These data are derived from national budget documents, defense white papers, and other public documents from offcial government agencies, including governments' responses to questionnaires sent by SIPRI, the United Nations, or the Organization for Security and Co-operation in Europe. Secondary sources include international statistics, such as those of the North Atlantic Treaty Organization (NATO) and the IMF's Government Finance Statistics Yearbook. Other secondary sources include country reports of the Economist Intelligence Unit, country reports by IMF staff, and specialist journals and newspapers.

Lack of sufficiently detailed data makes it diffcult to apply a common definition of military expenditure globally, so SIPRI has adopted a definition (derived from the NATO definition) as a guideline (see *Definitions*). This definition cannot be applied for all countries, however, since that would require much more detailed information than is available about what is included in military budgets and off-budget military expenditure items. In the many cases where SIPRI cannot make independent estimates, it uses the national data provided. Because of the differences in definitions and the difficulty in verifying the accuracy and completeness of data, the data on military spending are not strictly comparable across countries.

The data on armed forces are from the International Institute for Strategic Studies' *The Military Balance*

2005–2006. These data refer to military personnel on active duty, including paramilitary forces. Reserve forces, which are units that are not fully staffed or operational in peace time, are not included. These data also exclude civilians in the defense establishment and so are not consistent with the data on military spending on personnel. Moreover, because data exclude personnel not on active duty, they underestimate the share of the labor force working for the defense establishment. Because governments rarely report the size of their armed forces, such data typically come from intelligence sources.

The data on arms transfers are from SIPRI's Arms Transfers Project, which reports on international flows of conventional weapons. Data are collected from open sources, and since publicly available information is inadequate for tracking all weapons and other military equipment, SIPRI covers only what it terms major conventional weapons.

SIPRI's data on arms transfers cover sales of weapons, manufacturing licenses, aid, and gifts; therefore the term *arms transfers* rather than *arms trade* is used. The transferred weapons must be transferred voluntarily by the supplier, must have a military purpose, and must be destined for the armed forces, paramilitary forces, or intelligence agencies of another country. SIPRI data also cover weapons supplied to or from rebel forces in an armed conflict as well as arms deliveries for which neither the supplier nor the recipient can be identified with an acceptable degree of certainty; these data are available in SIPRI's database.

SIPRI's estimates of arms transfers, presented in 1990 constant price U.S. dollars, are designed as a trend-measuring device in which similar weapons have similar values, reflecting both the value and quality of weapons transferred. The trends presented in the tables are based on actual deliveries only. SIPRI cautions that these estimated values do not reflect financial value (payments for weapons transferred) for three reasons: reliable data on the value of the transfer are not available; even when the value of a transfer is known, it usually includes more than the actual conventional weapons such as spares. support systems, and training; and even when the value of the transfer is known, details of the financial arrangements such as credit and loan conditions and discounts are usually not known.

Given these measurement issues, SIPRI's method of estimating the transfer of military resources includes an evaluation of the technical parameters of the weapons. Weapons for which a price is not known are compared with the same weapons for which actual acquisition prices are available ("core weapons") or for the closest match. These weapons are assigned a value in an index that reflects their military resource value in relation to the core weapons. These matches are based on such characteristics as size, performance, and type of electronics, and adjustments are made for second-hand weapons. More information on SIPRI's arms transfers project is available at www.sipri.org/contents/armstrad/.

Definitions

. Military expenditures data from SIPRI are derived from the NATO definition, which includes all current and capital expenditures on the armed forces, including peacekeeping forces; defense ministries and other government agencies engaged in defense projects; paramilitary forces, if these are judged to be trained and equipped for military operations; and military space activities. Such expenditures include military and civil personnel, including retirement pensions of military personnel and social services for personnel; operation and maintenance; procurement; military research and development; and military aid (in the military expenditures of the donor country). Excluded are civil defense and current expenditures for previous military activities, such as for veterans' benefits, demobilization, conversion, and destruction of weapons. This definition cannot be applied for all countries, however, since that would require much more detailed information than is available about what is included in military budgets and off-budget military expenditure items. (For example, military budgets might or might not cover civil defense, reserves and auxiliary forces, police and paramilitary forces, dual-purpose forces such as military and civilian police, military grants in kind, pensions for military personnel, and social security contributions paid by one part of government to another.) • Armed forces personnel are active duty military personnel, including paramilitary forces if the training, organization, equipment, and control suggest they may be used to support or replace regular military forces. • Arms transfers cover the supply of military weapons through sales, aid, gifts, and those made through manufacturing licenses. Data cover major conventional weapons such as aircraft, armored vehicles, artillery, radar systems, missiles, and ships designed for military use. Excluded are transfers of other military equipment such as small arms and light weapons, trucks, small artillery, ammunition, support equipment, technology transfers, and other services. See About the data for more detail.

Data sources

Data on military expenditures and arms transfers are from SIPRI's *Yearbook 2005: Armaments, Disarmament and International Security.* Data on armed forces personnel are from the International Institute for Strategic Studies' *The Military Balance 2005–2006.*





Transport services

		R	toads			Railways	5	Ports		Air	
	Total road network km 1999–2003 ^a 2	Paved roads % 1999–2003 ^a	Passengers carried million passenger- km 1999–2003 ^a	Goods hauled million ton-km 1999–2003 ^a	Rail lines total route- km 2000-04 ^a	km	Goods hauled million ton-km 2000-04 ^a	Port container traffic thousand TEU 2004	Registered carrier departures worldwide thousands 2004	Passengers carried thousands 2004	Air freight million ton-km 2004
Afghanistan	34,789	23.7			••				3	150	8
Albania	18,000	39.0	197		447	89	32		5	189	0
Algeria	104,000	68.9			3,572	950	1,945	311.1	49	3,236	21
Angola	51,429	10.4	166,045	4,709	2,761				5	223	64
Argentina	215,471	29.4			35,754			1,251.9	100	6,851	115
Armenia	7,633		1,867	280	711	48	452		6	510	7
Australia	811,601				9,474	1,347	41,314	5,129.8	325	41,597	1,898
Austria	133,718	100.0	82,330	26,411	5,801	8,375	19,047		137	7,619	502
Azerbaijan	27,016	47.0	9,862	53,738	2,122	584	6,980		11	1,007	34
Bangladesh	239,226	9.5			2,745			625.2	7	1,647	180
Belarus	93,055	100.0	10,739	12,710	5,498	13,893	40,331		6	274	1
Belgium	149,757	78.2	118,340	32,450	3,536	8,676	8,725	7,292.9	154	3,265	713
Benin	6,787	20.0		••	438	66	86		1	46	7
Bolivia	60,762	7.1			3,698				29	1,853	24
Bosnia and Herzegovina	21,846	52.3		332	1,032	53	293		5	73	0
Botswana	25,233	35.1		••	888	171	842		8	214	0
Brazil	1,724,929	5.5		••	30,403		 E 04.0	5,058.6	486	35,264	1,499
Bulgaria	102,016	92.0	8,596	••	4,259 622	2,628	5,212	••	8	476 62	3 0
Burkina Faso	12,506	16.0		••	622				1		
Burundi Cambodia	14,480	7.1 16.2	201	308	650	45	92		4	163	4
Cameroon	12,323 80,932	6.7	***************************************	306	974	308	1,115	••	10	358	23
Canada	1,408,900			 184,774	49,422	3,122	323,600	3,926.1	989	40,701	1,657
Central African Republic	23,810	••		164,774	49,422	3,122	323,000	3,920.1	1	40,701	7
Chad	33,400	0.8	••		••••				1	46	7
Chile	79,604	20.2	••	••	2,035	820	1,935	1,473.5	86	5,464	1,094
China	1,809,829	79.5	769,560	 709,950		551,196	1,828,548	74,540.1 ^b		119,789	8,188
Hong Kong, China	1,831	100.0			01,010	001,100		1 1,0 10.1	111	17,893	6,932
Colombia	112,988	14.4			3,154			1,073.1	156	8,965	1,079
Congo, Dem. Rep.	157,000				4,499	140	491		5	95	7
Congo, Rep.	12,800	9.7			1,026	76	307		5	52	0
Costa Rica	35,889	22.5			848			734.1	34	884	10
Côte d'Ivoire	50,400	9.7			639	148	129	670.0	1	46	7
Croatia	28,588	84.6	3,716	8,241	2,726	1,213	2,733		20	1,336	2
Cuba	60,856	49.0			4,382				11	773	33
Czech Republic	127,672	100.0	90,055	475	9,511	6,553	16,214		66	4,219	41
Denmark	71,847	100.0	61,258	17,766	2,141	5,390	1,888	997.5	100	6,429	175
Dominican Republic	12,600	49.4			1,743			537.3			
Ecuador	43,197	16.9	10,276	5,170	966			564.1	12	478	1
Egypt, Arab Rep.	64,000	78.1			5,150	40,837	4,188	1,422.2	42	4,584	248
El Salvador	10,029	19.8			283				26	2,535	25
Eritrea	4,010	21.8			306						
Estonia	56,849	23.4	2,299	6,364	959	192	9,567		8	510	1
Ethiopia	33,856	12.9	219,113	2,456	<u> </u>				30	1,403	117
Finland	78,216	61.0	67,300	27,800	5,741	3,352	10,105	1,308.1	112	7,201	325
France	891,290	100.0	744,900	266,500	29,246	74,014	45,121	3,947.0	685	48,583	5,584
Gabon	32,333	3.7			650	92	1,949		8	433	62
Gambia, The	3,742	19.3	16								
Georgia	20,247	39.4	4,987	22,500	1,565	401	5,065		4	203	3
Germany	231,581	100.0	1,062,700	227,197	34,729	70,286	77,640	12,457.7	942	82,156	8,064
Ghana	47,787	17.9		10 260	977	85	242	1 0777	1 120	96	7
Greece	116,470	91.8	5,889	18,360	2,449	1,668	588	1,877.7	138	9,277	58
Guatemala	14,095	34.5	••	••	886	••		817.3		••	••
Guinea Guinea-Bissau	44,348 4,400	9.8 10.3	••	••	837	••		••	••	••	••
•	4,400	24.3		••							<u> </u>
Haiti	4,100	∠4.3									

Transport services 5.8



		R	oads			Railways		Ports		Air	
	Total road network km 1999–2003 °	Paved roads % 1999–2003 ^a	Passengers carried million passenger- km 1999–2003 ^a	Goods hauled million ton-km 1999–2003 ^a	Rail lines total route- km 2000-04 ^a	Passengers carried million passenger- km 2000-04 ^a	Goods hauled million ton-km 2000–04 ^a	Port container traffic thousand TEU 2004	Registered carrier departures worldwide thousands 2004	Passengers carried thousands 2004	Air freight million ton-km 2004
Honduras	13,600	20.4			699			555.5			
Hungary	159,568	43.9	13,300	12,505	8,000	7,380	8,713		47	2,546	24
India	3,851,440	62.6		••		541,208	381,241	4,266.9	302	23,797	689
Indonesia	368,360	58.0						5,566.6	319	26,785	434
Iran, Islamic Rep.	178,152	66.3			6,405	10,012	18,182	1,220.7	104	12,234	98
Iraq	45,550	84.3			2,339	570	1,682				
Ireland	95,736	100.0	39,440	6,500	1,919	1,582	399	924.9	262	34,783	124
Israel	17,237	100.0			493	1,423	1,173	1,607.9	34	4,954	1,355
Italy	479,688	100.0	759,200	184,756	16,235	46,768	21,581	8,473.2	384	35,932	1,393
Jamaica	18,700	70.1		••	272			1,360.6	23	2,008	38
Japan	1,177,278	77.7	955,412	312,028	20,060	242,300	22,200	15,937.5	646	103,116	8,938
Jordan	7,364	100.0			291		522	·•	18	1,660	254
Kazakhstan	258,029	95.9	55,676	382	13,770	11,816	163,420		12	843	13
Kenya	63,942	12.1		22	1,917	226	1,399	••	26	2,005	193
Korea, Dem. Rep.	31,200	6.4			5,214				2	95	2
Korea, Rep.	97,252	76.8	9,404	565	3,129	28,641	10,641	14,299.4	233	33,390	7,969
Kuwait	4,450	80.6	 F 074	707			 EG1	••	19	2,317	224
Kyrgyz Republic Lao PDR	18,500 32,620	91.1 14.1	5,274 1,290	797 121	424	50	561		6 9	246 276	5 2
Latvia	69,919	100.0	2,550	2,324	2,270	810	 16,877		16	594	
Lebanon	7,300	84.9		•••••	401	••		299.4	12	1,087	85
Lesotho	5,940	18.3		••			••	233.4			
Liberia	10,600	6.2			490					·•	
Libya	83,200	57.2			2,757				8	850	0
Lithuania	78,893	27.4	20,982	 11,462	1,782	443	11,637	······································	11	448	1
Macedonia, FYR	8,684	63.8			699	94	426		2	211	0
Madagascar	49,827	11.6			883	10	12		18	514	13
Malawi	28,400	18.5		••	710	25	88		6	114	1
Malaysia	71,814	77.9			1,667	1,931	1,224	11,264.4	171	19,268	2,599
Mali	15,100	12.1			733	196	189		1	46	7
Mauritania	7,660	11.3			717				2	128	0
Mauritius	2,015	100.0						381.5	15	1,089	220
Mexico	349,038	33.5	399,000	195,200	26,656			1,905.9	333	21,240	403
Moldova	12,730	86.2	1,640	1,577	1,120	355	2,715		5	201	1
Mongolia	49,250	3.5	761	1,889	1,810	1,073	6,452		7	318	6
Morocco	57,694	56.4		18	1,907	2,614	5,535	560.7	42	3,004	62
Mozambique	30,400	18.7			2,072	137	808		9	299	5
Myanmar	27,966	78.0	2,028	9,493					25	1,408	3
Namibia	42,237	12.8	47	591				·•	7	281	56
Nepal	15,905	53.9			59				6	449	7
Netherlands	116,500	90.0	193,900	481	2,811	14,097	4,026	8,482.4	250	25,304	4,773
New Zealand	92,662	63.8	••	••	3,898		3,853	1,614.9	197	11,305	749
Nicaragua Nicar	18,658 10,100	11.4	••	••	6		••		1 1	61 46	1 7
Niger Nigeria	10,100	7.9 30.9		••	3,505	973	39	 512.6	10	46 682	10
Norway	91,916	77.5	 56,573	 13,614	4,077	2,477	2,668	312.0	260	13,230	177
Oman	32,800	30.0	30,313	• • • • • • • • • • • • • • • • • • • •	4,011	۷,+۱۱	2,000	2,515.5	32	3,267	235
Pakistan	254,410	60.0	209,959		7,791	23,911	5,004	1,101.5	50	5,097	402
Panama	11,643	34.6	_55,555		355		3,004	2,428.8	27	1,501	34
Papua New Guinea	19,600	3.5							19	759	23
Paraguay	29,500	50.8			441				9	373	0
Peru	78,672	13.1		72	2,123			695.6	43	2,666	200
Philippines	200,037	9.9						3,673.3	57	7,406	301
Poland	423,997	69.7	29,996	85,989	19,576	18,626	47,847	428.4	78	3,493	77
Portugal	72,600	86.0	98,328	20,470	2,849	3,415	2,675	865.7	127	9,052	237
Puerto Rico	24,023	94.0		10	96			1,671.3			



Transport services

		R	toads			Railway	s	Ports		Air	
	Total road network km 1999–2003 ^a 1	Paved roads % L999–2003 ^a	Passengers carried million passenger- km 1999–2003 ^a	Goods hauled million ton-km 1999–2003 ^a	Rail lines total route- km 2000-04 ^a	Passengers carried million passenger- km 2000-04 ^a	Goods hauled	Port container traffic thousand TEU 2004	Registered carrier departures worldwide thousands 2004	Passengers carried thousands 2004	Air freight million ton-km 2004
Romania	198,817	50.4	5,283	25,350	10,844	8,633	14,262		30	1,338	5
Russian Federation	537,289	67.4	164	5,702	85,542		1,664,300	1,368.0	399	25,949	1,416
Rwanda	12,000	8.3		••							
Saudi Arabia	152,044	29.9		••	1,390	364	1,173	3,185.7	113	14,943	957
Senegal	13,576	29.3			906	138	371		6	421	0
Serbia and Montenegro	45,290	62.0			3,809				25	1,414	6
Sierra Leone	11,300	8.0							0	16	8
Singapore	3,165	100.0						21,311.0	75	17,718	7,193
Slovak Republic	42,993	87.3	32,981	16,859	3,660	2,227	9,675		16	825	0
Slovenia	38,400	100.0	1,065	6,305	1,229	764	3,462		17	765	3
Somalia	22,100	11.8									
South Africa	362,099	20.3		434	20,047	10,001	106,549	2,675.3	134	9,876	930
Spain	666,292	99.0	397,117	132,868	14,395	20,237	14,117	7,809.6	550	45,529	1,043
Sri Lanka	97,286	81.0	21,067					2,220.6	16	2,416	300
Sudan	11,900	36.3			5,478	32	889		8	476	41
Swaziland	3,594			••	301				2	90	0
Sweden	424,981	31.1	105,834	37,048	9,895	5,544	13,122	933.8	192	11,539	257
Switzerland	71,220		94,622	26,100	3,378	12,869	9,313		144	9,279	1,090
Syrian Arab Republic	91,795	20.1	589		2,798	635	1,924		16	1,141	20
Tajikistan	27,767			••	617	41	1,087		8	498	6
Tanzania	78,891	8.6			2,600 ^c	471 ^c	1,351 ^c		6	248	2
Thailand	57,403	98.5			4,044	10,092	3,422	4,855.8	129	20,625	1,869
Togo	7,520	31.6			568				1	46	7
Trinidad and Tobago	8,320	51.1		••				440.4	17	1,132	42
Tunisia	18,997	65.4		16,611	1,909	1,242	2,173		21	1,940	20
Turkey	354,421	41.6	163,327	152,163	8,697	5,237	9,332	2,942.4	110	12,516	369
Turkmenistan	24,000	81.2		••	2,523	1,118	6,437		29	1,779	17
Uganda	70,746	23.0	···		259		218		0	46	27
Ukraine	169,739	97.0	40,131	24,387	22,011	51,726	233,961		34	1,924	23
United Arab Emirates	1,088	100.0	···	···	·	<u></u>	···	8,661.6	87	14,314	3,734
United Kingdom	619,398	100.0	666,000	159,000	16,514	42,626	20,700	7,480.9	970	86,055	5,698
United States	6,378,154	58.8		1,599,754	141,961		2,200,123 ^d	35,612.7	9,566 ^e	678,111 ^e	
Uruguay	8,983	90.0			2,993	·····	···	301.6	8	564	0
Uzbekistan	81,600	87.3		·····	4,126	2,163	18,428		23	1,588	83
Venezuela, RB	96,155	33.6			433		32	920.9	129	4,592	2
Vietnam	215,628		18,116	4,772	2,600	4,376	2,682	2,138.8	51	5,050	217
West Bank and Gaza			·····	••	••	•••					
Yemen, Rep.	67,000	11.5			1 2720	1060	 554 ^c	377.4	16	995	60
Zambia Zimbabwe	91,440 97,267	22.0		···	1,273 ^c	186 ^c	··•······		5 4	49 238	0 17
	91,261	19.0						n 326,382.9			
World Low income		36.3 m 13.3		n				•	696	49,908	•
•				••	••	1 220		8,435.5			2,157
Middle income Lower middle income		50.8 50.1	••	••	••	1,230	••	134,631.2 104,722.1	5,021	404,182	22,844 15,055
Upper middle income					••	2,079	9,621	29,909.1	3,087 1,934	272,310	7,788
Low & middle income		51.1 29.5	••	••		•			1,934 5,718	131,872 454,090	25,001
East Asia & Pacific		32.3	1,659	••	·••		2,662	143,321.1 102,039.0	2,079	203,261	13,730
Europe & Central Asia		74.0	9,603	11,400	216,994	 2,227	9,675	102,033.0	985	65,135	2,139
Latin America & Carib.	·····	26.8	•			۷,۷۷۱		19,377.2	1,561	98,165	4,629
Middle East & N. Africa		66.4		••	·•	 1,265	••		358	33,999	1,103
South Asia	·····	53.9		••		•		7,589.0	389	33,527	1,579
Sub-Saharan Africa	·····	12.5				······································	••	1,565.0	347	20,003	1,821
High income		91.8	··		·•	 8,375	10,105	183,061.8	·· · ····	1,432,425	
Europe EMU	·····	99.5	 108,334	26,460	120,432	8,676	10,105	44,966.0	3,783		
Lui Ope Livi O		ອອ.ບ	100,334	20,400	120,432	6,070	10,103	44,900.0	3,103	309,557	27,487

a. Data are for the latest year available in the period shown. b. Includes Hong Kong, China. c. Excludes Tazara railway. d. Refers to Class 1 railways only. e. Data cover only those carriers designated by the U.S. Department of Transportation as major and national air carriers.

Transport services

About the data

Transport infrastructure—highways, railways, ports and waterways, and airports and air traffic control systems—and the services that flow from it are crucial to the activities of households, producers, and governments. Because performance indicators vary significantly by transport mode and focus (whether physical infrastructure or the services flowing from that infrastructure), highly specialized and carefully specified indicators are required. The table provides selected indicators of the size, extent, and productivity of roads, railways, and air transport systems and of the volume of traffic in these modes as well as in ports.

Data for transport sectors are not always internationally comparable. Unlike for demographic statistics, national income accounts, and international trade data, the collection of infrastructure data has not been "internationalized." But data on roads are collected by the International Road Federation (IRF), and data on air transport by the International Civil Aviation Organization (ICAO).

National road associations are the primary source of IRF data. In countries where such an association is lacking or does not respond, other agencies are contacted, such as road directorates, ministries of transport or public works, or central statistical offices. As a result, due to differing definitions and data collections methods and quality, the compiled data are of uneven quality. Moreover, the quality of transport service (reliability, transit time, and condition of goods delivered) is rarely measured, though it may be as important as quantity in assessing an economy's transport system. Several new initiatives are under way to improve data availability and consistency. The IRF is collaborating with national and international development agencies to improve the quality and coverage of road statistics. To improve measures of progress and performance, the World Bank is also working on better measures of access, affordability, efficiency, quality, and fiscal and institutional aspects of infrastructure.

Unlike the road sector, where numerous qualified motor vehicle operators can operate anywhere on the road network, railways are a restricted transport system with vehicles confined to a fixed guideway. Considering their cost and service characteristics, railways generally are best suited to carry—and can effectively compete for—bulk commodities and containerized freight for distances of 500–5,000 kilometers, and passengers for distances of 50–1,000 kilometers. Below these limits road transport tends to be more competitive, while above these limits

either air transport for passengers and freight or sea transport for freight tend to be more competitive. The railways indicators in the table focus on scale and output measures: total route-kilometers, passenger-kilometers, and goods (freight) hauled in ton-kilometers.

Measures of port container traffic, much of it commodities of medium to high value added, give some indication of economic growth in a country. But when traffic is merely transshipment, much of the economic benefit goes to the terminal operator and ancillary services for ships and containers rather than to the country more broadly. In transshipment centers empty containers may account for as much as 40 percent of traffic.

The air transport data represent the total (international and domestic) scheduled traffic carried by the air carriers registered in a country. Countries submit air transport data to ICAO on the basis of standard instructions and definitions issued by ICAO. In many cases, however, the data include estimates by ICAO for nonreporting carriers. Where possible, these estimates are based on previous submissions supplemented by information published by the air carriers, such as flight schedules.

The data cover the air traffic carried on scheduled services, but changes in air transport regulations in Europe have made it more difficult to classify traffic as scheduled or nonscheduled. Thus recent increases shown for some European countries may be due to changes in the classification of air traffic rather than actual growth. For countries with few air carriers or only one, the addition or discontinuation of a home-based air carrier may cause significant changes in air traffic.

Definitions

• Total road network covers motorways, highways, main or national roads, secondary or regional roads. and all other roads in a country. • Paved roads are roads surfaced with crushed stone (macadam) and hydrocarbon binder or bituminized agents, with concrete, or with cobblestones. • Passengers carried by road are the number of passengers transported by road times kilometers traveled. • Goods hauled by road are the volume of goods transported by road vehicles, measured in millions of metric tons times kilometers traveled. • Rail lines are the length of railway route available for train service, irrespective of the number of parallel tracks. • Passengers carried by railway are the number of passengers transported by rail times kilometers traveled. • Goods hauled by railway are the volume of goods transported by railway, measured in metric tons times kilometers traveled. • Port container traffic measures the flow of containers from land to sea transport modes and vice versa in twenty-foot-equivalent units (TEUs), a standard-size container. Data cover coastal shipping as well as international journeys. Transshipment traffic is counted as two lifts at the intermediate port (once to off-load and again as an outbound lift) and includes empty units. • Registered carrier departures worldwide are domestic takeoffs and takeoffs abroad of air carriers registered in the country. • Air passengers carried include both domestic and international passengers of air carriers registered in the country. • Air freight is the volume of freight, express, and diplomatic bags carried on each flight stage (operation of an aircraft from takeoff to its next landing), measured in metric tons times kilometers traveled.

Data sources

Data on roads are from the IRF's World Road Statistics, supplemented by World Bank staff estimates. Data on railways are from a database maintained by the World Bank's Transport and Urban Development Department, Transport Division. Data on port container traffic are from Containerisation International's Containerisation International Yearbook. And the data on air transport are from the ICAO's Civil Aviation Statistics of the World and ICAO staff estimates.





Power and communications

	Electric	c power					Те	lephones				
				Ac	cess		Quality		Affor	dability and	efficiency	
	Consumption per capita kWh	losses	Fixed	0 people Mobile subscribers	Population covered by mobile telephony ^a	International voice traffic	Faults	Price basket for residential	month Price basket		Total tele- communications revenue ^a % of GDP	Total tele- phone sub- scribers per employee ^a
	2003	2003	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
Afghanistan			2	21								
Albania	1,311	40	82	356	90	442	57.2	5.6	24.3	1.34	5.6	319
Algeria	796	14	71	145	84		6.0	5.1	10.2	2.08	2.5	
Angola	113	14	6	61		7		11.9	11.2	3.23	2.0	96
Argentina	2,185	15	227	352	95	40		6.6	8.3		2.4	625
Armenia	1,312	23	192	67	81	67	52.9	3.1	12.2	2.42	3.2	146
Australia	10,713	7	541	818	97	214	8.0	29.4	17.8	0.68	3.5	374
Austria	8,104	5	460	978	98	293	5.4	30.6	26.4	0.71	2.5	·····
Azerbaijan	2,355	16	118	215	96	24	45.2	1.6	10.5	4.18	1.7	225
Bangladesh	128	12	6 211	31	50	5 57	24.0	7.2	3.7	1.21	1.3	150
Belarus Belgium	3,039 8,412	13 4	<i>311</i> 456	113 876	87 99	57 316	24.8 5.6	<i>2.0</i> 34.6	7.5 24.9	2.25 0.75	3.0 2.6	159 759
Benin	8,412 61	•••••	456 9	30	99 23	316 8	5.6 6.2	34.6 12.2	24.9 15.5	4.80	2.6 2.6	
Bolivia	422	13	69	200	23 60	24	0.∠	7.9	6.3	1.89	3.8	<u></u>
Bosnia and Herzegovina	2,096	17	239	268	90	89		7.9 5.1	9.1	3.62	3.6 4.4	238
Botswana			77	319	85	62		11.3	11.1	2.88	3.0	341
Brazil	1,883	17	230	357	68	12	1.6	7.4	18.9	0.71	4.0	
Bulgaria	3,965	14	357	609	98	36	2.6	8.5	17.3	0.57	5.9	199
Burkina Faso			6	31	60	6	51.8	11.9	15.4	1.14	2.0	138
Burundi			3	9	82	2		4.5	11.6	2.45	2.1	98
Cambodia			3	37	87	2		9.3	4.0	2.94	2.8	
Cameroon	178	24	6	96	70	••	••	6.7	16.6		3.3	
Canada	17,290	6	634	469	93	439		16.1	6.7		2.7	301
Central African Republic			3	15		2	56.0	32.8	12.7	1.99	1.0	54
Chad			1	13	8	2	60.8	12.8	27.7	9.11	4.0	
Chile	2,880	6	206	593	99	57	25.0	16.4	17.0	2.18	3.8	567
China	1,379	6	241	258	73	6		3.6	3.7	2.90	3.2	656
Hong Kong, China	5,653	13	549	1,184	100	895	1.3	15.1	3.4	2.62	3.9	539
Colombia	834	19	195	232	74 55	44	33.0	5.8	9.1		4.9	
Congo, Dem. Rep.	87	3	0	18	55 65				10.4		4.6	
Congo, Rep. Costa Rica	122	7	4 316	99 217	65	 82	4.0	5.9	17.5 4.2	5.39 <i>1.93</i>	2.5	 316
Côte d'Ivoire	1,666 174	14	310 14	86	55	02 15	4.0 81.0	28.2	23.9	2.25	2.5 3.7	310
Croatia	3,156	20	425	575	98	170	12.0	14.7	14.4	2.25	5.4	389
Cuba	1,200	15	68	7	50 50	28	9.5	12.4	20.0	7.35	2.6	
Czech Republic	6,070	6	338	1,054	99	163	6.8	16.7	15.1	1.06	3.7	512
Denmark	6,602	5	643	956	99	244	9.0	25.7	19.9	0.89	2.6	437
Dominican Republic	1,060	32	107	289	88	232		16.9	7.0	0.22	7.5	
Ecuador	677	34	124	348	88	51	35.3	9.0	10.6	1.75	2.1	
Egypt, Arab Rep.	1,127	12	130	105	91	23	0.1	3.8	4.1	1.45	3.4	274
El Salvador	584	13	131	271	86	322	35.2	12.9	13.5	2.40	36.0	
Eritrea			9	5	0	9	51.1	4.9		3.55	2.8	56
Estonia	5,224	12	329	931	99	128	16.3	14.2	11.4	0.90	6.3	
Ethiopia	28	10	6	2		1	100.0	2.9	3.4	7.05	1.8	65
Finland	16,427	4	453	954	99	178		24.7	13.6	1.80	3.1	329
France		6	561	738	99	210		25.7	29.7	0.84	2.2	
Gabon	922	18	28	359	24	54	50.2	27.8	16.8	5.68	2.6	
Gambia, The	4 507		27	118	60			3.9		1.81	10.3	124
Georgia	1,507	16	151	186	<i>79</i>	57 101	17.2	4.6	6.5	0.68	4.0	191
Germany	6,896	5 12	661	864	99	191 15	 67.4	17.5	30.6	0.43	2.9	526 127
Ghana Greece	248 5.041	12 9	14 466	78 999	<i>28</i> 99	15 164	67.4 13.6	3.6 14.3	11.1 19.3	0.39 1.09	<i>5.2</i> 4.0	137
Guatemala	5,041 396	21	466 92	258	99 78	104	•	14.3	4.3	1.09	2.8	<u> </u>
Guinea			3	256 12		7	 1.6	9.4	4.3	4.61	2.0 1.1	 150
Guinea-Bissau			<i>7</i>	12		9	70.5	<i>9.4</i> 		r.U1		
Haiti	31	52	17	48							···	<u> </u>
											······································	

Power and communications 5.9



	Electri	c power	Telephones										
			Access				Quality		Affordability and efficiency				
	Consumption per capita kWh 2003	Transmission and distribution losses % of output 2003	Fixed	0 people Mobile subscribers ^a 2004	Population covered by mobile telephony ^a % 2004	International voice traffic minutes per person ^a 2004	Faults per 100 mainlines ^a 2004	Price basket for residential	month Price basket for mobile ^b 2004	\$ per	Total tele- communications revenue ^a % of GDP 2004	Total tele- s phone sub- scribers per employee ^a 2004	
Handuras	556					82		5.9	6.9			183	
Honduras Hungary	3,637	23 12	53 354	100 863	49 99	49	3.6 8.7	20.3	13.3	2.52 1.01	5.8 5.6	508	
India	435	27	41	44	41	3	126.0	3.2	3.2	1.19	1.9	308	
Indonesia	440	16	46	138	85	5	20.0	6.2	4.6	2.79	2.3	665	
Iran, Islamic Rep.	1,916	17	219	64		8		2.8	2.9	0.55	1.1	304	
Iraq	977	6	37	20									
Ireland	6,098	8	496	929	99	983	6.0	39.7	19.1	0.71	2.7	401	
Israel	6,599	3	441	1,057	97	306		14.9	9.3	0.59	4.5	825	
Italy	5,620	7	451	1,090	100	236		23.8	14.0	0.79	2.6	••	
Jamaica	2,481	9	189	832	95	233	39.7	10.3	8.1	0.87	5.5	345	
Japan	7,818	5	460	716	99	36	••	26.0	29.1	1.66	3.0		
Jordan	1,453	9	113	293	99	104	12.6	10.0	9.4	1.44	8.2	303	
Kazakhstan	3,510	16	167	184	94	26		3.8	4.7		3.0	108	
Kenya	125	19	9	76		5	149.1	12.5	14.0	3.00	4.8	80	
Korea, Dem. Rep.	795	16	44	0									
Korea, Rep.	7,018	3	542	761	99	116	1.0	7.3	2.1	0.76	4.2		
Kuwait	14,808	11	202	813	99		4.0	10.3	7.4	1.50	2.4	234	
Kyrgyz Republic	1,647	29	79	59	···	14		1.4	10.8	8.92	3.8	71	
Lao PDR			13	35	. 7	3		2.3	2.2	1.11	1.5	85	
Latvia	2,456	23	273	664	97	66	20.3	15.6	14.9	1.63	6.4	415	
Lebanon	2,558	15	178	251				20.4	20.1	2.19	4.9	304	
Lesotho			21	88	80		75.0	18.6	14.3	3.28	2.5		
Liberia	2.415		2 133	15 23	16	••	••	••		••	3.5		
Libya Lithuania	2,415 3,055	28 7	239	996	100	34	 16.3	 14.6	6.9	 2.31	3.5		
Macedonia, FYR		•••••••••••••••••••••••••••••••••••••••	259 259	383	99	127		5.3	•	2.31	6.7	••	
Madagascar		••	3	18	30	1	 59.6	7.5	4.0	0.59	12.5	93	
Malawi	••		7	18	70	5	33.0	4.5	20.0	3.56	2.0	49	
Malaysia	3,061	 5	179	587	96	85	40.0	8.7	5.6	0.71	4.4	728	
Mali			6	30	15	6	177.6	8.5	13.5	12.28	3.0	71	
Mauritania			13	175		20		12.3			7.5		
Mauritius	••		287	413	99	92	41.5	7.4	4.8	1.67	3.8	373	
Mexico	1,801	15	174	370	86	82	1.7	15.5	11.4	3.04	2.7	505	
Moldova	1,166	57	205	187	92	61	5.2	1.8	27.6	2.21	7.5	169	
Mongolia			53	124	64	4	20.6	2.5	9.6	4.92	3.5	82	
Morocco	577	16	44	313	95	55	25.0	18.4	16.0	1.41	4.9		
Mozambique	339	10	4	36		32	66.0	16.5	10.9	1.17	2.8	158	
Myanmar	101	20	8	2		1	155.0	2.9		0.36	0.2	49	
Namibia	1,277	18	64	142	88	57	40.4	15.8	14.7	4.28	4.4	181	
Nepal	68	19	15	7		6	78.0	3.1	2.8	2.04	1.7	88	
Netherlands	6,748	4	483	910	100	311		31.7	24.5	0.32	3.3	593	
New Zealand	8,896	13	443	745	97	347	30.7	18.1	19.8	1.30	3.3		
Nicaragua	361	29	40	137	48	44	4.6	14.3	16.0	3.20	2.5	196	
Niger			2	11	13		104.6	9.1	19.3	8.77	0.9		
Nigeria	107	33	8	71	58	2	20.6	13.7	11.2	1.49	4.4	192	
Norway	23,169	9	487	910	99	236		29.9	6.4	0.31	1.8	412	
Oman	3,505	18	95	318		108		12.9	5.1	1.87	2.6	319	
Pakistan	408	25	30	33	45	11		6.1	2.9	1.03	2.1	97	
Panama	1,401	18	118	270	87	55	13.9	10.9	18.1	3.64	4.7	188	
Papua New Guinea			11	3		8		6.6	8.4	4.32	2.3	·	
Paraguay	801 750	4	48 74	294	60 75	20	3.4	14.0	7.3	0.90	4.0		
Peru	759 574	10	74 42	148	75 80	<i>68</i>		19.4	21.9	1.80	3.0		
Philippines Poland	3,329	13 10	42 322	404 605	<i>80</i> 98	29 <i>6</i> 1	 17.2	12.2 17.3	4.0 7.7	1.20 0.99	3.7 3.5	603	
Portugal	3,329 4,383	10	322 404	981	98	194	17.2 10.1	25.8	31.7	1.04	5.4	922	
Puerto Rico		•••••••••••••••••••••••••••••••••••••••	285	689	•	·*······		•	•	•	3.8		
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Fower and communications

	Electri	c power	Telephones										
			Access				Quality	Affordability and efficiency					
	per capita	Transmission and distribution losses	Fixed	00 people Mobile	by mobile telephony ^a		Faults per 100	Price basket for residential	month Price basket	\$ per	Total tele- communications revenue ^a	scribers per	
	kWh 2003	% of output 2003	mainlines ^a	subscribers ^a 2004	% 2004	person ^a 2004	mainlines ^a 2004	fixed line ^a 2004	for mobile ^b	3 minutes ^a 2004	% of GDP 2004	employee ^a 2004	
Romania	2,221	9	202	471	97	49	8.9	9.6	8.8	0.82	3.8	252	
Russian Federation	5,480	12	256	517	78	15		7.8	6.3	2.03	3.2	193	
Rwanda			3	16	65			7.9	24.8	2.43	4.2		
Saudi Arabia	6,259	5	154	383	92	120	1.7	11.7	9.6	2.40	3.2		
Senegal	167	13	21	90	85	21	17.3	14.5	13.5	1.02	7.1		
Serbia and Montenegro	3975	16	330	581	95	112		2.3	6.4	2.08	3.1	374	
Sierra Leone			5	22	35			3.0	13.6		2.8		
Singapore	7,977	6	440	910	100	728	99.2	6.7	5.7	0.69	3.4	403	
Slovak Republic	5,010	6	232	794	99	66	10.0	11.4	10.3	1.06	4.0	508	
Slovenia	6,817	4	407	871	99		23.4	12.6	11.7	0.65	2.8	556	
Somalia			25	63									
South Africa	4399	10	103	413	96	39	48.2	21.6	13.5	0.79	5.8		
Spain	5,701	9	416	905	99	117	14.2	20.3	21.5	0.60	4.4	868	
Sri Lanka	325	18	51	114	40	20	6.8	7.3	3.7	2.11	2.2	166	
Sudan	81	16	29	30	60	11		4.4	3.2	39.18	2.4	225	
Swaziland			45	109	90	51	70.0	8.3	16.6	2.97	3.7	209	
Sweden	15,403	8	767	1,034	99			27.1	15.8	0.41	1.9	780	
Switzerland	8,191	6	710	849	99	665		29.6	33.0	0.29	3.6	516	
Syrian Arab Republic	1,243	24	143	126	99	37	50.0	3.0	48.2	4.81	2.1		
Tajikistan	2,206	15	39	7		10	144.0	1.0	12.3	6.96	2.1	57	
Tanzania	54	27	4	44	25	1	24.0	11.6	11.1	3.17	2.4	262	
Thailand	1,752	7	107	430	92	12	2.5	8.3	6.8	0.67	3.6		
Togo	94	30	10	38	80	13	6.2	10.4	13.4	3.98	3.4	248	
Trinidad and Tobago	4,721	5	247	498		334		7.0	7.8	0.95	3.7		
Tunisia	1,118	11	121	359	95	61	30.0	4.7	6.8	2.28	4.0	224	
Turkey	1,656	17	267	484	68	32	30.4	10.3	6.4	2.09	3.0	664	
Turkmenistan	1,750	14	80	2	••	6	86.4	1.5			0.8	59	
Uganda			3	42	70	2		16.6	7.9	3.51	4.6		
Ukraine	2,998	18	256	289	75	36		2.5	10.3	1.65	6.1	142	
United Arab Emirates	10,992	10	275	853	99		0.3	5.0	3.5	1.73	2.7	500	
United Kingdom	6,209	8	563	1,021	99	262	11.0	29.5	19.1	0.77	3.9	358	
United States	13,078	7	606	617	95	201	12.5	25.0	10.8		2.5	344	
Uruguay	1,781	21	291	174	99	60		9.0	7.4	0.52	2.9		
Uzbekistan	1,741	9	66	21	75	6	87.4	1.4	4.6	13.95	2.1	87	
Venezuela, RB	2,664	26	128	322	90	23	2.0	16.2	14.5	0.84	3.0		
Vietnam	429	14	122	60	67	8		4.3	6.9	1.95	3.5	73	
West Bank and Gaza			102	278	95	34	94.0	9.4		1.03	0.6		
Yemen, Rep.	158	24	39	53	68	12		3.0	5.9	2.39	1.5	176	
Zambia	576	3	8	26	51	7	124.9	5.4	13.1	6.45	1.9		
Zimbabwe	819	16	25	31		19	63.0	2.0	17.8	4.36	1.6	138	
World	2,456 w	9 w	195 w	281 w	69 w	30 w	23.6 m	9.7 m	11.1 m	1.20 m	3.0 w	232 m	
Low income	358	24	34	42	43	5		6.6	11.6	5.58	3.4	93	
Middle income	1,720	11	192	293	77	22	22.8	7.7	9.1	1.45	3.0	278	
Lower middle income	1,329	10	189	249	76	16	25.0	5.5	8.9	1.62	2.4	191	
Upper middle income	3,378	13	221	483	84	46	19.8	13.9	11.1	1.06	3.0	402	
Low & middle income	1,159	13	125	187	64	12	35.3	7.3	10.5	1.65	3.0	166	
East Asia & Pacific	1,184	7	191	244	73	8		4.5	5.1	1.20	2.6		
Europe & Central Asia	3,531	13	242	463	82	35	19.9	3.5	10.3	1.61	3.0	150	
Latin America & Carib.	1,615	16	180	318	76	44	4.7	9.0	9.1	1.96	3.9		
Middle East & N. Africa	1,212	16	91	128				4.9	8.1	1.66	1.2		
South Asia	394	26	35	41	43	4	88.1	3.2	3.2	1.21	1.9	97	
Sub-Saharan Africa	513	12	16	78		8	61.6	8.5	13.5	2.43	3.6	138	
High income	9,503	6	535	771	98	149	7.0	25.8	17.8	0.76	3.7	472	
Europe EMU	6,506	6	525	904	99	199	8.0	31.2	24.5	0.75	3.0	487	

a. Data are from the International Telecommunication Union's World Telecommunication Development Report database, and World Bank estimates. b. World Bank estimates.

Power and communications

5.9

About the data

The quality of an economy's infrastructure, including power and communications, is an important element in investment decisions for both domestic and foreign investors. Government effort alone is not enough to meet the need for investments in modern infrastructure; public-private partnerships, especially those involving local providers and financiers, are critical for lowering costs and delivering value for money. In telecommunications, competition in the marketplace, along with sound regulation, is lowering costs and improving the quality of and access to services around the globe.

An economy's production and consumption of electricity is a basic indicator of its size and level of development. Although a few countries export electric power, most production is for domestic consumption. Expanding the supply of electricity to meet the growing demand of increasingly urbanized and industrialized economies without incurring unacceptable social, economic, and environmental costs is one of the great challenges facing developing countries.

Data on electric power production and consumption are collected from national energy agencies by the International Energy Agency (IEA) and adjusted by the IEA to meet international definitions (for data on electricity production, see table 3.9). Electricity consumption is equivalent to production less power plants' own use and transmission, distribution, and transformation losses less exports plus imports. It includes consumption by auxiliary stations, losses in transformers that are considered integral parts of those stations, and electricity produced by pumping installations. Where data are available, it covers electricity generated by primary sources of energy-coal, oil, gas, nuclear, hydro, geo-thermal, wind, tide and wave, and combustible renewables. Neither production nor consumption data capture the reliability of supplies, including breakdowns, load factors, and frequency of outages.

Over the past decade new financing and technology, along with privatization and liberalization, have spurred dramatic growth in telecommunications in many countries. With the rapid development of mobile telephony and the global expansion of the Internet, information and communication technologies are increasingly recognized as essential tools of development, contributing to global integration and enhancing public sector effectiveness, efficiency, and transparency. The table presents telecommunications indicators covering access, quality, and affordability and efficiency.

Operators are the main source of telecommunications data, so information on subscribers is widely available for most countries. This gives a general idea of access, but a more precise measure is the penetration rate—the share of households with access to telecommunications. Also important are data on actual use of the telecommunications equipment. Ideally, statistics on telecommunications (and other information and communications technologies) should be compiled for all three measures: subscription and possession, access, and use. The quality of data varies among reporting countries as a result of differences in regulations covering the provision of data.

Globally there have been huge improvements in access to telecommunications, driven mainly by mobile telephony. By 2002 access to mobiles outpaced access to fixed-line telephones in developing countries, and rural areas are catching up with urban areas (although gaps are still large). By 2002 there were over a billion mobile subscribers and an estimated 4.7 billion people, or about 77 percent of the world's population, were covered by a mobile cellular signal.

Telephone mainline faults are a measure of telecommunications quality. The definition varies among countries: some operators define faults as including malfunctioning customer equipment while others include only technical faults.

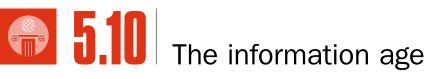
Although access is the key to delivering telecommunications services to people, if that service is not affordable to most people, then goals of universal usage will not be met. Three indicators of telecommunications affordability are presented in the table (price basket for fixed-line telephone service, price basket for mobile service, and the cost of a local call). Telecommunications efficiency is measured by total telecommunications revenue as percent of GDP and by total telephone subscribers per employee.

Definitions

• Electric power consumption measures the production of power plants and combined heat and power plants less transmission, distribution, and transformation losses and own use by heat and power plants plus imports less exports. • Electric power transmission and distribution losses are losses in transmission between sources of supply and points of distribution and in distribution to consumers, including pilferage. • Fixed telephone mainlines are telephone lines connecting a subscriber to the telephone exchange equipment. • Mobile telephone subscribers are subscribers to a public mobile telephone service using cellular technology. • Population covered by mobile telephony is the percentage of people within range of a mobile cellular signal regardless of whether they are subscribers. • International voice traffic is the sum of international incoming and outgoing telephone traffic (in minutes) divided by total population. • Telephone mainline faults are the number of reported faults for the year divided by the number of telephone mainlines and multiplied by 100. • Price basket for residential fixed line is calculated as one-fifth of the installation charge, the monthly subscription charge, and the cost of local calls (15 peak and 15 off-peak calls of three minutes each). • Price basket for mobile is calculated as the pre-paid price for 25 calls per month spread over the same mobile network, other mobile networks, and mobile to fixed calls and during peak, off-peak, and weekend times. It also includes 30 text messages per month. • Cost of call to U.S. is the cost of a three-minute, peak rate, fixed-line call from the country to the United States. . Total telecommunications revenue is the revenue from the provision of telecommunications services such as fixed-line, mobile, and data divided by GDP. • Total telephone subscribers per employee are telephone subscribers (fixed-line plus mobile) divided by total telecommunications employees.

Data sources

Data on electricity consumption and losses are from the IEA's *Energy Statistics and Balances of Non-OECD Countries 2002–2003*, the IEA's *Energy Statistics of OECD Countries 2002–2003*, and the United Nations Statistics Division's *Energy Statistics Yearbook*. Data on telecommunications are from the International Telecommunication Union's World Telecommunication Development Report database and World Bank estimates.



	Daily newspapers	Households with television ^a	Personal computers and the Internet								Information and communications technology	
	per 1,000 people	%	per 1,000 Personal computers ^a	Access O people Internet users ^a	Schools connected to the Internet %	Broadband subscribers per 1,000 people ^a	Quality International Internet bandwidth bits per capita ^a		Affordability Price basket for Internet \$ per month ^b	exper	Per capita	
	2000	2004	2004	2004	2004	2004	2004	November 2005	2003	2004	2004	
Afghanistan				1	•	0.0	1	0	•			
Albania		90	12	24		0.0	4	0	28.6		••	
Algeria	27	98	9	26	53	1.1		0	17.8			
Angola	11	9	3	11		0.0	0	0	78.8			
Argentina	40	97	96	133		13.5	319	11	13.3	5.6	224	
Armenia		91	66	50		0.0	12	1	44.8			
Australia	161	96	682	646	97	77.0	1,097	500	18.1	5.4	1,714	
Austria	309	97	418	477	94	101.3	6,682	232	32.9	5.1	1,816	
Azerbaijan	10	99	18	49		0.0	0	0	108.3			
Bangladesh		29	12	2		0.0	0	0	20.0	2.9	12	
Belarus Belgium	153	91 97	348	163 403		0.0 155.4	36 11,279	1 118	12.8 28.6	5.3	1,783	
Benin	155 5	20	346 4	403		0.0	6	0	46.4	ა.ა	1,703	
Bolivia	99		36	39		0.0	44	2	22.3	5.6	55	
Bosnia and Herzegovina		87	45	58		0.1	77	3	7.3			
Botswana	25	15	45	34		0.0	23	1	27.0			
Brazil	46	90	105	120	50	12.4	149	14	28.0	6.3	208	
Bulgaria	173	97	59	283	60	5.6	80	9	12.4	3.8	117	
Burkina Faso	1	7	2	4		0.0	4	0	45.4			
Burundi	2	14	5	3		0.0	1	0	80.9		••	
Cambodia			3	3		0.0	1	0	57.4			
Cameroon	6	18	10	10		0.0	3	0	51.7	5.1	45	
Canada	168	99	700	626	98	164.3	6,803	570	12.7	5.4	1,641	
Central African Republic	2	2	3	2	<u></u>	0.0	0		175.0	······································		
Chad	0	2	2	6		0.0	799		68.9		240	
Chile China	59	95 91	133 41	267 73	62	29.7 16.5	788 57	21 0	21.8 10.1	5.8 4.4	340 66	
Hong Kong, China	218	99	608	506	100	215.7	4,793	159	3.8	8.7	2,065	
Colombia	26	92	67	80	50	2.8	124	4	18.6	8.3	180	
Congo, Dem. Rep.	3	2		1		0.0	0	0	74.0			
Congo, Rep.	6	6	4	9		0.0	0	1	121.2			
Costa Rica	70	91	238	235	15	0.1		62	25.8	7.8	337	
Côte d'Ivoire	16	35	15	17		0.0	2	0	67.2			
Croatia	134	93	190	293		5.0	317	40	17.1			
Cuba	54		27	13		0.0	8	0	57.8			
Czech Republic			240	470	90	16.5	2,450	42	20.8	6.0	632	
Denmark	283	98	656	696	100	168.6	34,870	411	17.6	5.6	2,487	
Dominican Republic	28	88	0	91	<u></u>	3.8		6	33.0			
Ecuador	98	89	56	48		0.0	38	4	31.8	3.6	83	
Egypt, Arab Rep. El Salvador	31 29	95	32 44	54 87	66	0.4 2.8	19 62	1 5	5.5 48.1	1.4	15	
Eritrea		 14	4	12		0.0	2		26.8			
Estonia	192	93	921	497		102.8	3,410	102	13.6			
Ethiopia	0	2	3	2	1	0.0	0,110	0	27.4			
Finland	445	91	481	629	99	149.2	4,326	308	22.5	6.6	2,344	
France	142	95	487	414	97	108.1	3,312	79	14.1	5.6	1,899	
Gabon	29	54	29	29		0.0	33	6	121.9			
Gambia, The	2	12	16	33		0.0	1		27.1			
Georgia	5	76	42	39		0.3		4	26.2			
Germany	291	94	561	500	99	83.7	6,860	274	14.1	5.5	1,822	
Ghana	14	21	5	17	1	0.0	1	0	43.8			
Greece		98	89	177	59	4.7	589	31	37.6	4.2	774	
Guatemala			19	61	•••	0.0	57	6	31.2		••	
Guinea Riccou		9	5	5 17		0.0	0		63.3			
Guinea-Bissau	5	26 26	••	17 59		0.0 0.0			105.1			
Haiti		26		ບອ		0.0	••	1	130.0			

The information age **5.10**

	Daily newspapers	Households with television ^a			Perso	nal compute	ers and the Intern	et		commu tech	ation and nications nology
			per 1,000	Access O people	Schools connected to	Broadband	Quality International	Application Secure Internet servers	Affordability Price basket	exper	iditures
	per 1,000		Personal	Internet	the Internet	per 1,000	Internet bandwidth	per million people	for Internet		Per capita
	people 2000	% 2004	computers ^a 2004	users ^a 2004	% 2004	people ^a	bits per capita ^a 2004	November 2005	\$ per month ^b	% of GDF 2004	° \$ 2004
	2000										
Hundary	162	58 92	16 146	32 267	 85	<i>0.0</i> 36.2	<i>3</i> 989	4 30	40.6 10.2	4.7 5.9	49 588
Hungary India	60	37	140	32	•	0.6	11	1	8.7	3.8	24
Indonesia	23	66	14	67		0.3	10	0	22.3	3.1	37
Iran, Islamic Rep.		77	110	8		0.2	15	0	5.9	2.2	54
Iraq			8	1		0.0		••			
Ireland	148	95	494	265	99	33.9	6,044	355	28.3	3.7	1,653
Israel		93	741	471	95	135.3	2,501	163	29.8	7.8	1,349
Italy	109		315	501	88	81.7	2,078	45	16.5	4.0	1,171
Jamaica		70	63	403	10	9.6		14	43.5	11.8	395
Japan	566	99	542	587	99	145.8	1,038	257	21.1	7.6	2,732
Jordan	74	97	55	110	18	0.9	57	4	26.3	8.4	178
Kazakhstan		95		27		0.0	3	1	34.5	<u>.</u>	
Kenya	8	19	13	45	••	0.0	1	0	45.7	2.9	14
Korea, Dem. Rep.	••	93	 545		100	0.0 247.9		20	9.7	 6.5	924
Korea, Rep. Kuwait	••	95 95	183	657 244	100	5.4	1,485 117	21	24.7	1.5	338
Kyrgyz Republic			17	52	••	0.0	4	1	15.0	•	336
Lao PDR			4	4	······································	0.0	1	0	31.9		
Latvia	138	 85	217	350	 97	16.9	972	38	58.1		
Lebanon	63	93	113	169	20	10.1	56	10	36.9		
Lesotho	9	17		24		0.0	1	••	43.4		
Liberia	14					0.0	0	••			
Libya	14		24	36		0.0	1	0	18.9		
Lithuania	31	97	155	282	56	37.6	194	22	34.1		
Macedonia, FYR	54		69	78		1.5	25	0	18.9		••
Madagascar	5	8	5	5		0.0	2	0	67.3	···	
Malawi	2	2	2	4	1	0.0	0	0	62.0	······································	
Malaysia	95	98	197	397	••	10.1	128	15	8.4	6.7	316
Mali	1	15	3	4		0.0	3	0	58.0	••	••
Mauritania Mauritius	116	<i>21</i> 94	14 279	5 146		0.0 2.0	146	18	38.6 15.0	••	••
Mexico	94	92	108	135	60	3.1	108		22.6	3.0	196
Moldova	153	75	27	96	50	0.7	43	4	19.0		
Mongolia	18	29	124	80	19	0.2	9	3	17.8		
Morocco	29	76	21	117		2.1	26	1	25.3	5.5	93
Mozambique	3	6	6	7	0	0.0	1	0	50.8		
Myanmar	9	3	6	1		0.0	1	0	42.5		
Namibia	17	39	109	37	4	0.0	4	7	33.4		
Nepal			4	7		0.0	1	0	13.5		
Netherlands	279	99	682	614	92	189.4	20,549	327	24.1	6.2	2,214
New Zealand	202	98	474	788	99	18.0	1,127	493	12.9	9.3	2,257
Nicaragua			37	23		0.4	186	2	51.0	••	••
Niger	0 25	5 26	1 7	2 14		0.0 0.0	0	0	96.8 85.5	•••	
Nigeria Norway	25 569	26 100	573	390	 99	87.1	9,370	309	85.5 26.3	5.0	2,716
Oman		79	47	97		0.0	9,370	4	23.6	5.0	Z,1 1U
Pakistan	39	39	5	13		0.0	5	0	15.6	7.1	45
Panama		77	41	94		5.8	292	56	36.0	9.3	400
Papua New Guinea			64	29		0.0	1	1	20.0		
Paraguay			59	25	••••	0.1	26	1	36.3		
Peru	23		98	117		7.6	205	5	32.8	6.7	166
Philippines		76	45	54		0.3	39	3	17.0	6.4	67
Poland	102	92	193	236	90	32.7	560	22	15.7	4.3	270
Portugal	102	99	133	281	92	81.7	833	57	20.6	4.3	679
Puerto Rico	••	97	·······	221		5.9		31		•••	



Part		Daily newspapers	Households with television ^a			Perso	nal compute	ers and the Intern	et		commu tech	ation and nications nology
Russlan Federation		people		Personal computers ^a) people Internet users ^a	Schools connected to the Internet %	Broadband subscribers per 1,000 people ^a	International Internet bandwidth bits per capita ^a	Secure Internet servers per million people November	Price basket for Internet \$ per month ^b	% of GDF	Per capita 2004
Rwanda	Romania			113	208	57	0.7	186	5	26.4	2.6	88
Saudt Arabla 99 354 66 0.3 31 33 347 2.2 Serbia and Montenegro 29 21 42 0.0 87 2 13.2 Sierra Leone 7 2 0.0 0 12.0 Slovark Republic 131 100 296 423 65 11.6 2,295 18 20.7 5.0 Slowaria 168 98 353 476 99 99.1 1,085 79 25.4 Somalia 8 6 25 54 82 71.3 19 21 33.3 73 Somalia 8 99 257 336 94 80.9 2,822 82 207 15.5 95 Studian 14 0.1 14 <th< td=""><td>Russian Federation</td><td></td><td>98</td><td>132</td><td>111</td><td>65</td><td>0.9</td><td>100</td><td>2</td><td>10.0</td><td>3.3</td><td>135</td></th<>	Russian Federation		98	132	111	65	0.9	100	2	10.0	3.3	135
Senegal	Rwanda	0	2		4		0.0	1		66.8		
Serbia and Montenegro 92 48 147 70 0.0 87 2 1.32 Sistera Leone 7 2 2 0.0 0 12.0 1.00 19.0 19.0 19.0 19.0 19.0 11.0 9.9 11.0 9.9 19.1 11.0 2.96 4.23 65 11.6 2.295 18 20.7 5.0 5.0 10.0 0 <th< td=""><td>Saudi Arabia</td><td></td><td>99</td><td>354</td><td>66</td><td></td><td>0.3</td><td>31</td><td>3</td><td>34.7</td><td>2.2</td><td>235</td></th<>	Saudi Arabia		99	354	66		0.3	31	3	34.7	2.2	235
Sierra Leone	Senegal		29	21	42		0.2	27	0	40.6	7.5	51
Singapore 273 98 763 571 100 120.8 5,826 270 11.0 9.9 5.0 2.95 18 20.7 5.0 5.0 5.0 11.6 2,295 18 20.7 5.0 5.0 5.0 0.0 0 8 6 25 0.0 0 3.3 7.	Serbia and Montenegro		92	48	147	70	0.0	87	2	13.2		
Slovark Republic 131 100 296 423 655 11.6 2.295 18 20.7 5.0	Sierra Leone		7		2		0.0	0		12.0		
Somalia 168 98 353 476 99 59.1 1,085 79 25.4	Singapore	273	98	763	571	100	120.8	5,826	270	11.0	9.9	2,498
Somala	Slovak Republic	131	100	296	423	65	11.6	2,295	18	20.7	5.0	386
South Affrica 25 54 82 78 27 1.3 19 21 33.3 7.3 Spain 98 99 257 336 94 80.99 2,822 82 20.7 3.5 SILanka 29 32 27 14	Slovenia	168	98	353	476	99	59.1	1,085	79	25.4		
Spain 98 99 257 336 94 80.9 2,822 82 20.7 3.5 Sri Lanka 29 32 277 14 0.1 16 160.6 Swazliand 18 32 32 0.0 1 2 20.6 Sweden 410 94 763 756 99 152.6 17,531 331 22.4 6.7 Switzeland 372 99 826 474 173.5 9671 473 22.4 70 Switzeland 372 99 826 474 10.0 0 55.2 Tajikistan 1 1 0.0 0 0 117.0 Tajikistan 1 1 7.0 0.0 0 117.0 1 3.6 10.0	Somalia		8	6	25		0.0	0				
Sri Lanka 29 32 27 14 0.1 17 2 15.1 5.9 Swadan 49 17 32 0.1 6 160.6 Swadiand 18 32 32 0.0 1 2 20.6 Sweden 410 94 763 756 99 152.6 17,531 331 22.4 6.7 Swetterland 372 98 826 474 173.5 96.71 473 22.4 7.0 Syrian Arab Republic 80 32 43 0.0 0 0 117.0 22.4 7.0 3.0 Syrian Arab Republic 80 32 43 0.0 0 0 117.0 3.0 Tanking 90 82 88 109 0.0 0 0 0 17.1	South Africa	25	54	82	78	27	1.3	19	21	33.3	7.3	343
Sudan 49 17 32 0.1 6 160 Swaziland 18 32 32 0.0 1 2 20.6 Switzerland 372 99 826 474 173.5 9,671 473 22.4 7.0 Syrjan Arab Republic 80 32 43 0.0 0 55.2 1.0 0.0 0 55.2 1.1 0.0 0 55.2 1.1 0.0 0 0 117.0 Taljikistan 14 7 9 0.0 0 0 117.0 3.6 Taljikistan 18 8 105 123 18 0.0 2 0 3.0 3.0 3.0 3.0 4 1.1	Spain	98	99	257	336	94	80.9	2,822	82	20.7	3.5	843
Swaziland 1.8 32 32 0.0 1 2 20.6	Sri Lanka	29	32	27	14		0.1	17	2	15.1	5.9	61
Swaziland 1.8 32 32 0.0 1 2 20.6	Sudan		49	17	32	••••••	0.1	6		160.6		
Switzerland 372 99 826 474 173.5 9671 473 22.4 7.0 Syrian Arab Republic 80 32 43 0.0 1 55.2 Talgikistan 1 0.0 0 0 117.0 Tanzania 14 7 9 0.0 0 0 117.0 Togo 2 51 29 37 0.0 2 0 30.4 Trinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Turking 19 0 48 84 25 0.7 44 1 17.3 5.3 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkey	Swaziland		18	32	32	••••••	0.0	1		20.6		
Syrian Arab Republic 80 32 43 0.0 1 55.2 1 0.0 0 54.3 1 2 0.0 0 0 0.17.0 1 7 9 0.0 0 0 17.0 3.6 Togo 2 51 29 37 0.0 2 0 30.4 Trinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkey 80 1.0 0.0 0 20.2	Sweden	410	94	763	756	99	152.6	17,531	331	22.4	6.7	2,570
Syrian Arab Republic 80 32 43 0.0 1 55.2 1 0.0 0 1.5 2.3 1.1 7 9 0.0 0 0 1.7 0 3.6 Togo 197 92 58 109 37 0.2 47 5 7.0 3.6 Togo 2 51 29 37 0.2 47 5 7.0 3.6 Togo 2 51 29 37 0.0 2 0 30.4 Turkid 19 90 48 84 25 0.7 44 1 17.3 5.3 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkey 52 142 40 0.8 124 17 19.0 0.8 <td< td=""><td>Switzerland</td><td>372</td><td>99</td><td>826</td><td>474</td><td></td><td>173.5</td><td>9,671</td><td>473</td><td>22.4</td><td>7.0</td><td>3,370</td></td<>	Switzerland	372	99	826	474		173.5	9,671	473	22.4	7.0	3,370
Tajikistan 1 0.0 0 54.3 Tanzania 14 7 9 0.0 0 0 117.0 3.6 Togo 2 51 29 37 0.0 2 0 30.4 Trinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Turkinistan 19 90 48 84 25 0.7 44 1 17.3 5.3 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkengian 7 94 8 0.0 0 20.2 Uganda 3 6 14 7 1 0.0 2 0.0 1 1 16.7 61.1	Syrian Arab Republic		80	32	43		0.0				•••	
Tanzania 14 7 9 0.0 0 117.0 Thailand 197 92 58 109 37 0.2 47 5 7.0 3.6 Togo 2 51 29 37 0.0 2 0 30.4 Tinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkmenistan 7 94 88 0.0 0 20.2 Uganda 3 6 4 7 1 0.0 2 0 96.8 Ukraine 175 97 28 79 0.0 17 1 16.7 6.1 Ukraine 175 <td< td=""><td></td><td>···•</td><td></td><td></td><td>1</td><td>••••••</td><td>0.0</td><td>0</td><td>***************************************</td><td>54.3</td><td></td><td></td></td<>		···•			1	••••••	0.0	0	***************************************	54.3		
Thailaind 197 92 58 109 37 0.2 47 5 7.0 3.6 Togo 2 51 29 37 0.0 2 0 30.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 Trinidal and Tobago 88 105 123 15 0.1 138 21 13.4 17 19.8 6.9 10.1 10.1 10.0 0 0 0 0 0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0			· •	•		•	•	0	•	•	••••••	
Togo 2 51 29 37 0.0 2 0 30.4 Trinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkney 52 142 40 0.8 124 17 19.8 6.9 Turkney 52 142 40 0.8 124 17 19.8 6.9 Ukrane 36 4 7 1 0.0 2 0 96.8 Ukranida 37 6 4 7 1 0.0 2 0 96.8 Ukranida 175 97 28 79 10.2 13.0 351 49 13.1		·····										91
Trinidad and Tobago 88 105 123 15 0.1 138 21 13.4 Tunisia 19 90 48 84 25 0.7 44 1 17.3 5.3 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkmenistan 7 94 8 0.0 0 20.2 Uganda 3 6 4 7 1 0.0 2 0 96.8 United Arab Emirates 86 116 321 13.0 351 49 13.1 United Kingdom 326 99 599 628 99 102.5 13.055 466 23.9 6.9 United States 196 97 749 630 99 120.0 3,305 783 14.9 9.0 <		···•······	· * · · · · · · · · · · · · · · · · · ·	*			•			*	•••••	
Tunisia 19 90 48 84 25 0.7 44 1 17.3 5.3 Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkmenistan 7 94 8 0.0 0 20.2 Uganda 3 6 4 7 1 0.0 2 0 96.8 Urrigand 175 97 28 79 0.0 17 1 16.7 6.1 United Arab Emirates 86 116 321 13.0 351 49 13.1 United Mragom 326 99 599 628 99 102.5 13.055 466 23.9 6.9 United States 196 97 749 630 99 120.0 3.305 783 14.9 9.0	·····	••••	· •	•			•	•••••		•	••••••	
Turkey 52 142 40 0.8 124 17 19.8 6.9 Turkmenistan 7 94 8 0.0 0 20.2 Uganda 3 6 4 7 1 0.0 2 0 96.8 Ukraine 175 97 28 79 0.0 17 1 16.7 6.1 United Arab Emirates 86 116 321 13.0 351 49 13.1 United Kingdom 326 99 599 628 99 102.5 13,055 466 23.9 6.9 United States 196 97 749 630 99 120.5 13,055 466 23.9 6.9 Uriguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan <td>-</td> <td>·····</td> <td>. *</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••••</td> <td>149</td>	-	·····	. *								•••••	149
Turkmenistan 7 94 8 0.0 0 20.2 Uganda 3 6 4 7 1 0.0 2 0 96.8 Ukraine 175 97 28 79 0.0 17 1 16.7 6.1 United Arab Emirates 86 116 321 13.0 351 49 13.1 United Kingdom 326 99 599 628 99 102.5 13,055 466 23.9 6.9 United States 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 13 59 3.2 291 26 26.5 6.7 Venerezuela, RB 90 82 89 8.0 51 5 19.5 4.5 <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>293</td></t<>			.*	***************************************			•	•		*	***************************************	293
Uganda 3 6 4 7 1 0.0 2 0 96.8 Ukraine 175 97 28 79 0.0 17 1 16.7 6.1 United Kardes 86 116 321 13.0 351 49 13.1 United Kiardes 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 34 0.1 1 0 20.2 Venezuela, RB 94 48 46 0.0 23 1 25.4		···•	· * · · · · · · · · · · · · · · · · · ·			•	*			•		200
Ukraine 175 97 28 79 0.0 17 1 16.7 6.1 United Arab Emirates 86 116 321 13.0 351 49 13.1 United Kingdom 326 99 599 628 99 102.5 13,055 466 23.9 6.9 United States 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.0			. *	 4			*			*	•••••	••
United Arab Emirates 86 116 321 13.0 351 49 13.1 United Kingdom 326 99 599 628 99 102.5 13,055 466 23.9 6.9 United States 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Ye			. *	•			•	•		•	•••••	 83
United Kingdom 326 99 599 628 99 102.5 13,055 466 23.9 6.9 United States 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 1 0 32.6			· 	•		••		•				- 00
United States 196 97 749 630 99 129.0 3,305 783 14.9 9.0 Uruguay 125 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 0 30.8 Zambia 26 77 63 0.4 151 0		·····	. *	•			•	•••••		*	•••••	2,450
Uruguay 1.25 198 50 3.2 291 26 26.5 6.7 Uzbekistan 34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 0 32.6 Zambia 22 26 10 20 0.0 1 0 32.3 16.0 World 90 84 m 130 w 139 w 0.0 1 0 0 25.8 m 6.6 w Low Income		··•······	••	•		••	•	•••••	•	•	•	3,595
Uzbekistan .34 0.1 1 0 20.2 Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. .43 15 9 0.0 0 30.8 Zambia 22 26 10 20 0.0 1 0 32.6 Zimbabwe 26 77 63 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.4 151 0 23.8 16.0 Low income		···•									•••••	259
Venezuela, RB 90 82 89 8.0 51 5 19.5 4.5 Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 0 30.8 Zambia 22 26 10 20 0.0 1 0 32.6 Zimbabwe 26 77 63 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w .m 32.0 w 816 w 65 w 25.8 m 66 w Low income 44 16 11 24 0.1 10 0 45.5 4.2 Middle i		···•	· *	•			*			*	••••••	233
Vietnam 6 83 13 71 0.6 23 0 19.9 West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 0 30.8 Zambia 22 26 10 20 0.0 1 0 32.6 Zimbabwe 26 77 63 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 32.0 w 816 w 65 w 25.8 m 66 w		······································	· •	•		·	•	•		•	•	189
West Bank and Gaza 94 48 46 0.0 23 1 25.4 Yemen, Rep. 43 15 9 0.0 0 30.8 Zambia 22 26 10 20 0.0 1 0 32.6 Zimbabwe 26 77 63 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.4 151 0 23.3 16.0 World 90 w 84 m 130 w 139 w 0.1 10 0 45.5 m 6.6 w Low income 44 16 11 24 0.1 10 0 45.5 m 4.2 <t< td=""><td></td><td>6</td><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td></td><td>103</td></t<>		6				·						103
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East Asia & Pacific 60 80 38 74 13.4 48 1 19.9 4.4 Europe & Central Asia 92 110 138 2.4 210 9 19.8 4.7 Latin America & Carib. 61 88 92 115 5.2 159 11 31.5 5.1 Middle East & N. Africa 88 49 42 0.2 9 1 24.4 South Asia 59 32 12 26 0.6 10 1 15.1 4.2 Sub-Saharan Africa 12 15 15 19 0.1 6 2 51.2		···•	· * · · · · · · · · · · · · · · · · · ·	•		••••••	•			•	•••••	82
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		262	98	574	545	98	125.9	4,545	384	20.9	7.1	2,329 1,530

a. Data are from the International Telecommunication Union's (ITU) World Telecommunication Development Report database, and World Bank estimates. b. Data are from the ITU's World Telecommunication Development Report database. Please cite the ITU for third-party use of these data.

About the data

The digital and information revolution has changed the way the world learns, communicates, does business, and treats illnesses. New information and communications technologies offer vast opportunities for progress in all walks of life in all countries—opportunities for economic growth, improved health, better service delivery, learning through distance education, and social and cultural advances. The table presents indicators of the penetration of the information economy (newspapers, televisions, personal computers, and Internet use), quality (broadband subscribers, international Internet bandwidth, and secure Internet servers), and some of the economics of the information age (Internet access charges and spending on information and communications technology).

The data on the number of daily newspapers in circulation are from surveys by the United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics. In some countries definitions, classifications, and methods of enumeration do not entirely conform to UNESCO standards. For example, newspaper circulation data should refer to the number of copies distributed, but in some cases the figures reported are the number of copies printed.

The data for other electronic communications and information technology are from the International Telecommunication Union (ITU), the Internet Software Consortium, Netcraft, the World Information Technology and Services Alliance (WITSA), Global Insights, and World Bank staff estimates. Estimates of households with television are derived from household surveys; data presented in the table are from the ITU and World Bank staff estimates.

The estimates of personal computers are derived from an annual ITU questionnaire, supplemented by other sources. In many countries mainframe

computers are used extensively. Since thousands of users can be connected to a single mainframe computer, the number of personal computers understates the total use of computers.

The data on Internet users and related Internet indicators are based on nationally reported data. Some countries derive these data from Internet surveys, but since survey questions and definitions differ across countries, the estimates may not be strictly comparable. For example, questions on the age of Internet users and frequency of use vary by country. Countries that do not have surveys generally derive their estimates from reported Internet service provider (ISP) subscriber counts, calculated by multiplying the number of subscribers by a selected multiplier. This method may undercount the actual number of people using the Internet, particularly in developing countries, where many commercial subscribers rent out computers connected to the Internet or prepaid cards are used to access the Internet.

The number of secure Internet servers, from the Netcraft Secure Server Survey, gives an indication of how many companies are conducting encrypted transactions over the Internet.

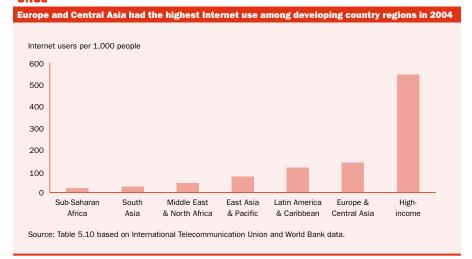
The data on information and communications technology expenditures cover the world's 70 largest buyers of such technology among countries and regions.

Ensuring universal access to information and communication technology is a goal of many countries, but not all countries regularly track accessibility. There is no common set of information and communications technology indicators and definitions, and data are often drawn from administrative records rather than from specific surveys. Access needs to be accurately measured in three major areas: individual. household, and community access.

Definitions

. Daily newspapers refer to those published at least four times a week and calculated as average circulation (or copies printed) per 1,000 people. • Households with television are the share of households with a television set. Some countries report only the number of households with a color television set, and therefore the true number may be higher than reported. • Personal computers are self-contained computers designed for use by a single individual. • Internet users are people with access to the worldwide network. • Schools connected to the Internet are the share of primary and secondary schools in the country that have access to the Internet. . Broadband subscribers are the total number of broadband subscibers with a digital subscriber line, cable modem, or other high-speed technologies. Reporting countries may have different definitions of broadband, so data are not strictly comparable across countries. • International Internet bandwidth is the contracted capacity of international connections between countries for transmitting Internet traffic. • Secure Internet servers are servers using encryption technology in Internet transactions. • Information and communications technology expenditures include computer hardware (computers, storage devices, printers, and other peripherals); computer software (operating systems, programming tools, utilities, applications, and internal software development); computer services (information technology consulting, computer and network systems integration, Web hosting, data processing services, and other services); and communications services (voice and data communications services) and wired and wireless communications equipment.

5.10a



Data sources

Data on newspapers are compiled by the UNESCO Institute for Statistics. Data on televisions, personal computers, Internet users, price basket for Internet, broadband subscribers, and international Internet bandwidth are from the ITU and are reported in the ITU's World Telecommunication Development Report database and World Bank estimates. Data on schools connected to the Internet are World Bank staff estimates. Data on secure Internet servers are from Netcraft (www.netcraft.com/). Data on information and communications technology expenditures are from Digital Planet 2004: The Global Information Economy by WITSA, and Global Insight, Inc.





5.11 Science and technology

	Researchers in R&D	Technicians in R&D	Scientific and technical journal articles	Expenditures for R&D	High-tec expo		1	lty and se fees	appli	tent cations led ^a	Trade applic file	ations
	per million people 1996–2004°	per million people 1996–2004°	2001	% of GDP 1996–2003°	\$ millions 2004	% of manu- factured exports 2004	Receipts \$ millions 2004	Payments \$ millions 2004	Residents	Non- residents 2002	Residents 2002	Non- residents 2002
Afghanistan			0									
Albania			17	·	5	1	5	8	0	89,821	0	1,758
Algeria	••		225		7	1			42	88,839	1,313	3,088
Angola			3				227	2				
Argentina	720	316	2,930	0.41	749	8	58	483	0	6,634	30,839	12,007
Armenia	1,537	103	152	0.25	4	1			204	89,361	388	2,084
Australia	3,670	···	14,788	1.63	3,128	14	472	1,437	10,823	96,434	26,831	17,113
Austria	2,968	1,254	4,526	2.22	10,597	12	170	1,241	3,313	250,719	7,272	9,996
Azerbaijan	1,236	195	68	0.30	8	2		0	0	89,337	144	2,051
Bangladesh			177		3	····	0	5			4 720	 4 E 4 O
Belarus	1,871	207	528	0.62	215	3	2	10	908	89,686	1,730	4,548
Belgium Benin	3,478	1,473	5,984 <i>20</i>	2.33	19,583 1	8 2	0	2	2,122	161,472	21,010 ^d	10,695 ^d
Bolivia	120	6	33	0.28	28	9	2	10		••		••
Bosnia and Herzegovina			9	0.28				···•	0	89,872	0	3,283
Botswana			41			••	3	12	0	10		3,203
Brazil	344	332	7,205	0.98	5,929	12	114	1,197	6,521	95.225	81,036	13,218
Bulgaria	1,263	477	784	0.50	247	4	7	30	306	158,051	4,043	5,576
Burkina Faso	17	16	23	0.17	3	10						
Burundi			3		0		0	0			20	132
Cambodia			5		4	0		6			333	1,305
Cameroon			75		2	1						
Canada	3,597		22,626	1.94	25,625	14	3,019	5,528	5,934	102,418	17,068	19,664
Central African Republic	47	27	4		0	0						
Chad			2									
Chile	444	303	1,203	0.61	195	5	48	283	241	2,879		
China	663		20,978	1.31	161,603	30	236	4,497	40,346	140,910	321,034	57,597
Hong Kong, China	1,564	225	1,817	0.60	80,109	32	341	864	112	9,018	5,903	14,543
Colombia	109	77	324	0.17	347	6	7	82	52	87,859	7,265	7,096
Congo, Dem. Rep.			6									
Congo, Rep.	30	32	13									
Costa Rica	368		92	0.39	1,374	37	1	51	0	89,225		
Côte d'Ivoire			40		93	····	0	0				
Croatia	1,296	455	710	1.14	759	13	41	146	444	89,877	843	5,600
Cuba	537	2,447	299	0.65					13	89,468	0	1,551
Czech Republic	1,594	879	2,622	1.27	7,662		57	172		158,592	8,114	9,756
Denmark	5,016	2,713	4,988	2.53	9,686	····			3,875	250,103	3,914	6,744
Dominican Republic			6				0	30				
Eduator Eduat Arab Ban	50	73	20	0.07	49	····	100	43	13	85,290	4,219	4,634
Egypt, Arab Rep.		••	1,548	0.19	15 37		100	108	627	798	0	2,496
El Salvador Eritrea	47		0 2	0.08			•	18				····
Estonia	2,523	427	339	0.83	 587	14	4	18	33	 157,901	1,017	5,213
Ethiopia			93	•••••••••••	0		0	0	33	137,901		3,213
Finland	7,992	3,472	5,098	3.49	10,625	···•	850	805	2,941		2,830	6,095
France	3,213		31,317	2.19	64,871	19	5,070	3,142	21,959	160,056	58,035	12,774
Gabon			20		28		3,070			100,000		±=,11=
Gambia, The			17		0	····			0	177,146		······································
Georgia	2,600	270	110	0.29	89		8	6	202	89,881	202	2,438
Germany	3,261	1,089	43,623	2.50	131,838	17	5,103	5,759	80,661	230,066	53,817	12,827
Ghana			90		8	····	0,100	0,700	0	177,371	,	, - :
Greece	1,413	895	3,329	0.65	1,031	11	32	466	· 	162,387	5,290	6,075
Guatemala			14		88	· *	0	0	5	0	3,048	5,040
Guinea	251	91	2		0	····	0	0				
Guinea-Bissau			6					0				
Haiti			1				0	0				
	···•		•				•			···	••••••	•

Science and technology 5.11



	Researchers in R&D	Technicians in R&D	Scientific and technical journal articles	Expenditures for R&D	High-tecl expo		1	Ity and se fees	appli	tent cations ed ^a	applic	emark eations ed ^b
	per million people 1996–2004^c	per million people 1996–2004°	2001	% of GDP 1996–2003°	\$ millions 2004	% of manufactured exports	Receipts \$ millions 2004	Payments \$ millions 2004	Residents	Non- residents 2002	Residents 2002	Non- residents 2002
Honduras	78	253	11	0.05	6	2	0	22	7	161		
Hungary	1,472	457	2,479	0.95	14,158	29	551	949	962	91,497	4,316	9,546
India	119	102	11,076	0.85	2,840	5	25	421	220	91,704		
Indonesia			207		5,809	16	221	990	0	90,922		
Iran, Islamic Rep.	467	376	995		51	2			691	0	9,858	1,224
Iraq			21									
Ireland	2,674	621	1,665	1.11	30,239	34	221	18,444	1,255	162,170	1,167	4,577
Israel	1,613	532	6,487	4.93	6,861	19	493	464	2,323	94,961	2,842	4,827
Italy	1,213	1,347	22,313	1.16	23,504	8	770	1,751	4,086	159,865	0	9,385
Jamaica			44	0.07	3	0	10	9	15	54	663	1,433
Japan	5,287	528	57,420	3.15	124,045	24	15,701	13,644	371,495	115,411	100,645	16,827
Jordan	1,927	709	240		147	5						
Kazakhstan	629	92	116	0.22	72	2	0	26	2	89,421	1,809	2,902
Kenya		•••	230		18	3	17	50	0	177,559	0	1,166
Korea, Dem. Rep.			1						0	88,052	0	1,913
Korea, Rep.	3,187		11,037	2.64	75,742	33	1,790	4,450	76,860	126,836	90,014	17,862
Kuwait	69	172	257	0.20			0	0				
Kyrgyz Republic	406	51	10	0.20	2	2	5	4	123	89,357	67	1,850
Lao PDR			2		-			······································			25	656
Latvia	1,434	318	157	0.38	130	5	8	14	8	140,637	1,262	5,699
Lebanon			202		17	2			0	104		
Lesotho	42	26	1	0.01			17	0	0	177,309	0	774
Liberia			1			•	•		0	89,507	0	760
Libya	361	493	19				0	0		00,001	· · · · · · · · · · · · · · · · · · ·	
Lithuania	2,136	427	272	0.69	250	 5	1	18	91	140,674	1,540	5,602
Macedonia, FYR		•••••	74	0.26	16	1	3	9	42	140,588	411	3,541
Madagascar	 15	45		0.12	1	1	1	13	4	89,526	162	293
Malawi		•••••	36	0.12	2	2	0	0	0	177,315	138	440
Malaysia	299	 58	494	0.69	52,868	55	20	782		···•		
Mali			11	0.00	32,000		0	1		••		
Mauritania			2	·	······································	••	•					•
Mauritius	201	 126	16	0.35	61	4	0	4	••	••	••	
Mexico	268	96	3,209	0.33	31,832	21	92	805	627	94,116	40,141	18,509
Moldova	172	201	3,209 77	0.42	13	4	2	3	240	89,396	1,391	2,690
Mongolia	681	69	8	0.28	0	0		3	121	89,864	255	3,260
	············	••••••	•		696	10	16			89,300		2,849
Morocco Mozambique	782	••	469 <i>14</i>	0.62	2	9	16 1	37 3	0	176,319	0	2,849
	••	••					0	······································				
Myanmar	···		10			3	0	0				
Namibia			13		15	•••••	U	3	·•···	••		
Nepal Netherlands	59 2.482	137	39 12.602	0.66	55 211	0	4 20F	3,339	7.406	 150 40F		
***************************************	2,482	1,725	12,602	1.80	55,211	29	4,205		7,496	158,485	0 010	11 076
New Zealand	3,405		2,903	1.17	858	14	98	485	2,137	91,240	8,818	11,276
Nicaragua	44	39	8	0.05	5	6	0	0	·			
Niger			21		1	3		0	·			
Nigeria			332		9	2		64				
Norway	4,587	1,754	3,252	1.75	2,759	18	242	485	504	90,712	0	6,981
Oman			96		22	1			0	75,825		
Pakistan	86	13	282	0.22	150	1	10	95	58	0	5,342	1,560
Panama	97	387	37	0.34	2	2	0	49	7	153		
Papua New Guinea			36		47	39						
Paraguay	79	113	4	0.10	14	7	194	7	·			
Peru	226		93	0.10	43	2	2	68			6,940	6,983
Philippines		······································	158		13,913	64	12	270	0	81,697		<u></u>
Poland	1,581	282	5,686	0.56	1,932	3	27	880	2,324	92,176	12,355	11,607
Portugal	1,949	307	2,142	0.93	2,639	9	40	337	185	251,752	6,929	7,829
Puerto Rico												





5.11 Science and technology

	Researchers in R&D	Technicians in R&D	Scientific and technical journal articles	Expenditures for R&D	High-tec expo	٠.	-	lty and se fees	appl	atent ications iled ^a	applic	emark ations ed ^b
	per million people 1996–2002°	per million people 1996–2002°	2001	% of GDP 1996–2002 ^c	\$ millions 2003	% of manu- factured exports 2003	Receipts \$ millions 2002	Payments \$ millions 2002	Residents	Non- residents 2002	Residents	Non- residents 2002
Romania	976	249	997	0.40	653	3	8	108	1,486	141,294	6,026	6,485
Russian Federation	3,319	557	15,846	1.28	3,432	9	227	1,094	24,049		*	14,215
Rwanda		•••••	15,646	•••••	3,432 1		0	1,094	24,049	96,315	29,279	14,210
Saudi Arabia	••	••	580	••	122	· -	0	0	61	552		
Senegal			62		33	···•	0	1				
Serbia and Montenegro	1,031	440	547						507	90,893	0	4,758
Sierra Leone			3		1	31	1	0	0	177,366	0	787
Singapore	4,745	381	2,603	2.15	87,742	59	224	5,647	511	93,748	3,344	20,282
Slovak Republic	1,984	460	955	0.59	1,217	5	50	91	276	157,652	2,350	7,742
Slovenia	2,543	1,600	876	1.53	794	6	12	123	332	136,912	1,086	6,612
Somalia			0									.,
South Africa	307	73	2,327	0.76	1,300	6	48	381	184	90,471		
Spain	2,195	861	15,570	1.11	9,932	7	486	3,032	4,330	251,260	66,471	12,460
Sri Lanka	181	44	76	0.18	60	1	•		0	89,759		
Sudan	263	131	43	0.34	0	0			2	177,336	0	795
Swaziland			6		4	1	0	96	0	88,379	0	828
Sweden	5,416		10,314	3.98	17,022	17	3,459	1,420	9,443	246,886	0	5,976
Switzerland	3,601	2,319	8,107	2.57	24,121	22			7,977	246,451	0	10,592
Syrian Arab Republic	29	24	55		6	1	•••	10	0	30	0	0
Tajikistan			20				1	0	40	89,352	0	1,522
Tanzania			87		3	2	0	1	0	176,850	0	16
Thailand	286	115	727	0.24	18,203	30	14	1,584	1,117	4,548		
Togo			11		0	0	0	1				
Trinidad and Tobago	399	889	37	0.12	22	1			2	89,901	340	1,317
Tunisia	1,013	34	344	0.63	370	5	18	8	0	72,604		
Turkey	341	37	4,098	0.66	1,064	2	0	362	550	250,492	28,209	7,611
Turkmenistan			0						0	89,333	0	1,648
Uganda	24	14	91	0.81	12	13	6	6	0	177,305	0	14
Ukraine	1,774	463	2,256	1.16	572	5	40	268	37	90,563	0	5,285
United Arab Emirates			159						0	89,666		
United Kingdom	2,706		47,660	1.89	64,295	24	12,019	8,368	33,671	251,239	51,399	17,135
United States	4,484		200,870	2.60	216,016	32	52,643	23,901	198,339	183,398	181,693	30,944
Uruguay	366	50	155	0.26	22	2	0	10	44	572	5,863	9,514
Uzbekistan			204						717	89,902	756	2,166
Venezuela, RB	236		535	0.28	118	3	0	219	56	2,292		
Vietnam			158		594	6			2	90,135	0	1,929
West Bank and Gaza												
Yemen, Rep.			10		17	13		9				
Zambia	51	16	26	0.01	1	-			0	157,720	0	554
Zimbabwe			113		5				0	177,483	1	17
World	w	W	648,500 s		1,269,586			•		12,882,065 s		
Low income	••		13,147	0.73		4	59	248	1,469	3,003,874	8,489	26,165
Middle income	851	···	83,927	0.87	266,410		2,447	15,526	81,493	4,789,712	589,487	
Lower middle income	609	···	39,520	1.02		23	1,282	9,566	51,330	2,439,396	•	134,156
Upper middle income	1,411	308	44,407	0.68	119,785	17	1,165	5,961	30,163	2,350,316	***************************************	124,683
Low & middle income			97,074	0.85	201,022	···•	2,506	15,774	82,962	7,793,586	597,976	······································
East Asia & Pacific	663		22,722	1.31		34	484	7,347	40,469	581,580	321,648	66,765
Europe & Central Asia	1,907	379	39,077	0.98	32,514	9	992	4,118	34,159	3,071,921	106,252	137,176
Latin America & Carib.			16,045	0.57	40,852	13	563	3,425	7,255	1,166,254	163,101	62,928
Middle East & N. Africa			4,119		1,152	·	134	172	669	327,396	1,313	8,433
South Asia	119	102	11,611	0.75		4	17	100	220	181,463	5,342	2,242
Sub-Saharan Africa			3,500			4	317	612	190	2,464,972	320	7,460
High income	3,558		551,426	••	1,170,986	20	107,302	104,498	853,668	5,088,479	718,588	319,893
Europe EMU	2,607	1,230	148,169	2.20	361,128	16	17,110	38,459	129,155	2,448,271	222,821	92,713

Note: The original information on patent and trademark applications was provided by the World Intellectual Property Organization (WIPO). The International Bureau of WIPO assumes no responsibility with respect to the transformation of these data.

a. Excludes applications filed under the auspices of the African Regional Industrial Property Organization (3 by residents, 88,378 by nonresidents), European Patent Organization (67,677 by residents, 97,737 by nonresidents), and the Eurasian Patent Organization (549 by residents, 88,857 by nonresidents). b. Excludes applications filed under the auspices of the Office for Harmonization in the Internal Market (29,345 by residents, 15,669 by nonresidents). c. Data are for the most recent year available. d. Includes Luxembourg and the Netherlands.

About the data

During the last century technological innovation in public health, nutrition, and agriculture has led to improvements in human welfare—child mortality rates have been reduced, and life expectancy has increased in all regions of the world. Knowledge is a key factor in economic development, and societies that are able to produce, select, adapt, and commercialize knowledge have better chances of achieving sustained growth and improved quality of life. Science, advancing rapidly in virtually all fields particularly in biotechnology—is playing a growing economic role: countries able to access, generate. and apply scientific knowledge will have a competitive edge over those that cannot. And there is greater appreciation of the need for high-quality scientific input into public policy, such as regional and global environmental concerns.

Science and technology cover a range of issues too complex and too broad to be quantified by any single set of indicators, but those in the table shed light on countries' "technological base"—the availability of skilled human resources, the number of scientific and technical articles published, the competitive edge countries enjoy in high-technology exports, sales and purchases of technology through royalties and licenses, and the number of patent and trademark applications filed.

The United Nations Educational, Scientific, and Cultural Organization (UNESCO) Institute for Statistics collects data on researchers, technicians, and research and development (R&D) expenditure from countries and territories around the world through questionnaires and special surveys, supplemented by information from other international sources. Data for researchers and technicians are normally calculated in full-time equivalents.

R&D expenditures are all expenditures for R&D performed within a country, including both capital expenditures and current costs (annual wages, salaries, and associated costs of researchers, technicians. and supporting staff and noncapital purchases of materials, supplies, and R&D equipment such as utilities, books, journals, reference materials, subscriptions to libraries and scientific societies, and materials for laboratories).

The information does not reflect the quality of training and education, which varies widely. Similarly, R&D expenditures are no guarantee of progress; governments need to pay close attention to the practices that make R&D expenditures effective.

Scientific and technical journal article counts are from a set of journals classified and covered by the Institute for Scientific Information's Science Citation Index (SCI) and the Social Sciences Citation Index (SSCI). Article counts are based on fractional assignments; for example, an article with two authors from different countries is counted as half an article for each country (see Definitions for the fields covered). The SCI and SSCI databases cover the core set of scientific journals but may exclude some of regional or local importance. They may also reflect some bias toward English-language journals.

The method for determining a country's hightechnology exports was developed by the Organisation for Economic Co-operation and Development in collaboration with Eurostat. The product approach method is based on calculation of R&D intensity (R&D expenditure divided by total sales) for groups of products from six countries (Germany, Italy, Japan, the Netherlands, Sweden, and the United States). Because industrial sectors characterized by a few high-technology products may also produce many low-technology products, the product approach is more appropriate for analyzing international trade than is a sectoral approach. To construct a list of high-technology manufactured products (services are excluded), R&D intensity was calculated for products classified at the three-digit level of the Standard International Trade Classification revision 3. The final list was determined at the four-and five-digit levels. At these levels final selection was based on patent data and expert opinion, since no R&D data were available. This method takes only R&D intensity into account. Other characteristics of high technology are also important, such as know-how, scientific and technical personnel, and technology embodied in patents; considering these characteristics would result in a different list. (See Hatzichronoglou 1997 for further details.) Moreover, the R&D for hightechnology exports may not have occurred in the reporting country.

Most countries have adopted systems that protect patentable inventions. Most patent legislation requires that an idea, to be protected by law (patentable), be new in the sense that it has not already been published or publicly used; nonobvious (involve an inventive step) in the sense that it would not have occurred to any specialist in the industrial field had such a specialist been asked to find a solution to the problem; and capable of industrial application in the sense that it can be industrially manufactured or used. Information on patent applications filed is shown separately for residents and nonresidents.

A trademark provides protection to its owner by ensuring exclusive right to use it to identify goods or services or to authorize another to use it in return for payment. The period of protection varies, but a trademark can be renewed indefinitely by paying additional fees. The trademark system helps consumers identify and purchase a product or service whose nature and quality, indicated by its unique trademark,

Definitions

. Researchers in R&D are professionals engaged in the conception or creation of new knowledge, products, processes, methods, or systems and in the management of the projects concerned. Postgraduate PhD students (ISCED97 level 6) engaged in R&D are included.

 Technicians in R&D and equivalent staff are people whose main tasks require technical knowledge and experience in engineering, physical and life sciences (technicians), or social sciences and humanities (equivalent staff). They participate in R&D by performing scientific and technical tasks involving the application of concepts and operational methods, normally under the supervision of researchers. • Scientific and technical journal articles refer to published scientific and engineering articles in physics, biology, chemistry, mathematics, clinical medicine, biomedical research, engineering and technology, and earth and space sciences. • Expenditures for R&D are current and capital expenditures on creative work undertaken systematically to increase knowledge, including knowledge of humanity, culture, and society, and the use of knowledge for new applications. R&D covers basic research, applied research, and experimental development. • High-technology exports are products with high R&D intensity, as in aerospace, computers, pharmaceuticals, and scientific instruments, . Royalty and license fees are payments and receipts between residents and nonresidents for the authorized use of intangible, nonproduced, nonfinancial assets and proprietary rights (patents, copyrights, trademarks, franchises, industrial processes) and for the use. through licensing agreements, of produced originals of prototypes (films, manuscripts). • Patent applications filed are applications filed with a national patent office for exclusive rights to an invention—a product or process that provides a new way of doing something or a new technical solution to a problem. A patent protects the invention for the patent owner for a set period, generally 20 years. • Trademark applications filed are applications to register a trademark with a national or regional trademark office. Trademarks are distinctive signs identifying goods or services as produced or provided by a specific person or enterprise. Trademarks protect owners of the mark by ensuring exclusive right to use it to identify goods or services or to authorize its use in return for payment.

Data sources

Data on researchers, technicians, and expenditures in R&D are from the UNESCO Institute for Statistics. Data on journal articles are from the National Science Foundation's Science and Engineering Indicators 2004. Data on high-technology exports are from the United Nations Statistics Division's Commodity Trade (Comtrade) database. Data on royalty and license fees are from the International Monetary Fund's Balance of Payments Statistics Yearbook. Data on patents and trademarks are from the World Intellectual Property Organization's Industrial Property Statistics database.



n an era of uncertain alliances and global fears, it is striking that the world economy continues to become more integrated. Celebrated by some, deplored by others, globalization has been loudly debated over the past decade. But globalization is not a single process. It proceeds as people and institutions seek profits and competitive advantage through expanding trade in goods and services and cross-border flows of financial resources and people. It has been propelled by cheaper and faster transportation, more innovative information technology, fewer or lower trade barriers, and better economic management.

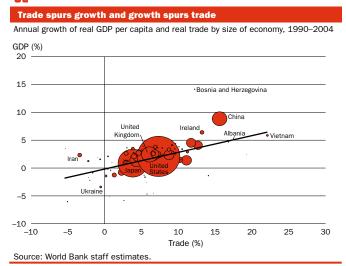
As the world becomes more integrated, decisions made in Washington, London, or Tokyo along with decisions made in New Delhi and Lagos and deals brokered in the virtual world of electronic communications can all have an impact on the lives and prospects of the world's people. But not all people have shared in the benefits of an expanding global economy. Compared with other developing country regions, Sub-Saharan Africa lags in this integration process and has not yet been able to take full advantage of opportunities brought by globalization.

Expanding trade

In an integrated world, trade spurs growth and growth spurs trade (figure 6a). The five fastest growing economies in the world from 1990 to 2004 measured by GDP per capita—Albania, Vietnam, Ireland, China, and Bosnia and Herzegovina—all experienced double-digit annual growth in trade. Rapid expansion of China's trade has not only been a driving force of China's continuous high growth, but has also helped its trading partners in East Asia and Pacific to integrate faster into the global manufacturing sector.

The global economy has become more open. In 1990 the total value of trade was less than 40 percent of global GDP; by 2004 the world economy had grown 50 percent and two-way trade exceeded 55 percent of global GDP. Trade in goods makes up 81 percent of trade and has been increasing 7 percent a year on average between 1990 and 2004. Although the nominal value of global trade in services nearly tripled over the same period and its share of GDP rose from less than 8 percent to more than 10 percent, its share of global trade has remained largely unchanged (table 6.1). In a world economy where services account for 70 percent of output, there appear to be unrealized opportunities for further trade.

During the last decade developing countries have become more important players in world trade. By 2004 low- and middle-income economies accounted for 28.5 percent of world trade, up from 22.3 percent in 1999. Between 1990 and 2004 their trade grew 11.5 percent a year compared with 7.2 percent for high-income economies. The middle-income economies were by far the fastest growing traders. Still, high-income economies, which account for more than 70 percent of world trade and almost 80 percent of global output (measured at market exchange rates), remain the most important markets (table 6.3).



Many obstacles to trade remain, especially for low-income economies. Trade-supporting infrastructure is essential and is improving due to more efficient communication and transportation technology. But landlocked economies and those lacking suitable seaports remain at a disadvantage. Poor roads and high inland transportation costs have kept many people from trading with the outside world.

Other obstacles include an unfriendly business environment and inadequate policies and institutions. For example, in Sub-Saharan Africa it takes twice as long to comply with the procedures required to export or import goods as it does in East Asia and Pacific and four times as long as in high-income countries (World Bank 2006a; see also table 5.3). Lack of access to capital and a small entrepreneurial class willing or able to take risks also impede the growth of trade.

But the greatest barriers are those erected by high-income economies. Even in an era of falling tariffs (table 6.7), developing countries have a hard time reaching high-value markets. Tariff escalation is one of the rich countries' protectionist strategies. EU tariffs are almost zero for cocoa beans but rise to about 10 percent for semiprocessed cocoa and to about 30 percent for chocolate. So tariff escalation penalizes producers when they add value.

Subsidies paid by Organisation for Economic Co-operation and Development (OECD) governments to their agricultural produces (see table 1.4) are another source of formidable disadvantage for developing economies. Cotton subsidies, particularly in the United States, lower world prices and cost West African economies an estimated \$250 million a year.

The economies of Sub-Saharan Africa are far from reaching their potential for trade. Their share in global trade is low—about 1.5 percent in 2004—and has changed little since 1999. However, the region's export structure is improving slowly. In 1984 primary products accounted

for 88 percent of merchandise exports from Sub-Saharan Africa to high-income countries. By 2004 that share had fallen to 73 percent.

The decline of primary products in overall exports is more pronounced if petroleum exports and South Africa are excluded, dropping from 67 percent to 46 percent over the same period. Some Sub-Saharan countries have made significant progress in specific product sectors: cut flowers from Kenya; music from Mali; clothing and textiles from Mauritius, Lesotho, and Madagascar; and outsourced services from Ghana are making headway into world markets.

Within Sub-Saharan Africa intraregional trade is also limited. A recent study found that only 15 percent of merchandise exports go to other countries in the region, and only 10 percent of merchandise imports originate in the region (Newfarmer 2006). Because of gaps in the statistical reporting, it is hard to know whether intraregional trade is accurately estimated. The United Nations Statistics Division's Comtrade database shows no entries for three-quarters of all possible two-way trade flows between Sub-Saharan economies in 2004.

Although regional agreements have proliferated, significant barriers to trade remain because of imperfect implementation of agreements, high border and behind-the-border costs, absence of common standards, restrictive rules of origin even within customs unions, and inconsistent (and inconsistently applied) tax policies. All of these issues will have to be dealt with before Africa can achieve effective regional integration.

Expanding flows of financial resource

Global capital markets are expanding rapidly. One measure of financial market integration is the size of gross private capital flows recorded in the balance of payments (table 6.1). Between 1990 and 2004 flows to and from high-income economies tripled as a share of their GDP. Expansion has been slower for most developing countries. Gross capital flows as a share of GDP have more than doubled but remain less than half those in high-income countries.

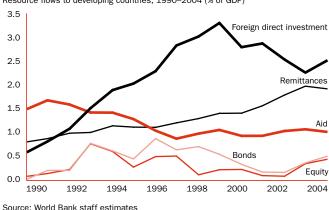
For developing countries foreign direct investment (FDI) is the largest source of external funding, but portfolio equity and bond investments continue to expand following the turnaround in 2002 (figure 6b). Although low- and middle-income economies still receive only one-third of global FDI, the absolute level has increased nearly tenfold between 1990 and 2004, growing much faster than in high-income economies. But their net inflow as a share of GDP has still not fully recovered to the peak achieved before the East Asian financial crisis.

There are large differences in FDI inflows among developing economies. Middle-income economies received more than 90 percent of net FDI inflows in 2004, and if measured as a share of GDP, these inflows are twice those to low-income

6b

Foreign direct investment is the largest source of external finance for developing countries

Resource flows to developing countries, 1990-2004 (% of GDP)



countries. The increase in FDI inflows has been greatest in Europe and Central Asia, followed by Latin America and the Caribbean and East Asia and Pacific. Although Sub-Saharan Africa has larger inflows than South Asia and the Middle East and North Africa, FDI in Sub-Saharan Africa is dominated by extractive industries, including oil and minerals. Four countries—Angola, Chad, Nigeria, and Sudan—together received nearly half of Sub-Saharan Africa's FDI inflows in 2004 (table 6.8).

Countries that have difficulty tapping financial markets must rely largely on aid flows to fund development programs. In 2004 developing countries received official development assistance and official aid totaling \$85.5 billion, up from \$76.7 billion in 2003 and \$56.6 billion in 2000. Aid to Afghanistan (up from \$141 million in 2000 to \$2.19 billion in 2004) and Iraq (up from \$116 million in 2000 to \$4.66 billion in 2004) accounted for a large part of the overall increase in aid (table 6.11).

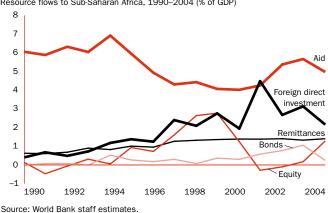
Even so, a substantial increase in aid flows and private capital flows will be required to help developing countries achieve the Millennium Development Goals. For example, aid is the largest source of external finance for the countries of Sub-Saharan Africa, but as a share of GDP aid declined from more than 6 percent at the beginning of the 1990s to 4 percent at the end of the decade (figure 6c). It has since increased to 5 percent.

If measured as a share of donors' gross national income, aid also declined sharply in the 1990s and rebounded somewhat after 2000. Only five rich countries have fulfilled the UN official development assistance target of 0.7 of GNI: Denmark, Luxembourg, the Netherlands, Norway, and Sweden. If donor countries follow through on their promises at the United Nations International Conference on Financing for Development, in Monterey, Mexico, in 2002 and at the more recent Group of Eight summit at Gleneagles, Scotland, aid is

6c

Aid is the largest source of external finance for Sub-Saharan

Resource flows to Sub-Saharan Africa, 1990-2004 (% of GDP)



expected to rise to about \$97 billion in 2006 and to reach \$128 billion in 2010 (box 6d).

Movement of people

The movement of people across national borders is another mark of integration. International tourist arrivals worldwide for 2005 exceeded 800 million—an all-time high—and these tourists also spent considerable amounts of money on their trips. Receipts from international tourists were 6.5 percent of exports in 2004 for middle-income countries and as high as 17 percent for the Middle East and North Africa (table 6.15).

Meanwhile, an estimated 190 million people (3 percent of the world's population) are living in countries in which they were not born. International migration has enormous economic, social, and cultural implications in both origin and destination countries.

Demographic trends in both developed and developing countries point to significant potential gains from migration. In many developed countries the population is aging fast, while in many developing countries the population is young and growing rapidly. This imbalance is likely to create strong demand in developed country labor markets for developing country workers, especially to provide services that can be supplied only locally. The share of immigrants in the total population of highincome countries increased to 11 percent in 2005, up from 7 percent two decades ago, while the shares for low- and middle-income countries have remained about the same (figure 6e).

The large wage gap between developed and developing countries, especially for unskilled and semiskilled labor, indicates that migration from developing countries to developed countries can generate significant welfare gains. The flow of formal remittances from migrants back to their country of origin has been increasing rapidly and has become

New promises of aid and debt relief

At the Group of Eight (G-8) summit at Gleneagles, Scotland, in 2005 commitments were made to relieve poor countries of their debts, increase aid and make it more effective, remove trade barriers, improve governance, and build stronger development partnerships.

Specific commitments included agreements to relieve 100 percent of the multilateral debts owed to the International Development Association, the African Development Bank, and the International Monetary Fund by all countries that have reached the completion point under the Heavily Indebted Poor Countries Debt Initiative. Also notable were EU commitments to spend at least 0.56 percent of gross national income on aid by 2010 and G-8 commitments to double aid to Africa.

The Organisation for Economic Co-operation and Development estimates that if all 2005 commitments to increase aid are met, official development assistance from Development Assistance Committee countries alone will rise by \$50 billion in real terms between 2004 and 2010, to nearly \$130 billion.

$\label{eq:commitments} \textbf{Aid commitments after the G-8 meeting at Gleneagles, Scotland}$

	200	04		2010	projection	
					Real change in ODA o	compared with 2004
	Net ODA	ODA/GNI	Net ODA	ODA/GNI	Amount	
Country	(\$ millions)	(%)	(\$ millions)	(%)	(\$ millions)	Percent
Denmark	2,037	0.85	2,185	0.80	148	7
France	8,473	0.41	14,110	0.61	5,638	67
Germany	7,534	0.28	15,509	0.51	7,975	106
Italy	2,462	0.15	9,262	0.51	6,801	276
Luxembourg	236	0.83	328	1.00	93	39
Netherlands	4,204	0.73	5,070	0.80	867	21
Spain	2,437	0.24	6,925	0.59	4,488	184
Sweden	2,722	0.78	4,025	1.00	1,303	48
United Kingdom	7,883	0.36	14,600	0.59	6,717	85
Other EU members ^a	4,899	0.36	9,206	0.60	4,306	88
EU members, total	42,886	0.35	81,221	0.59	38,335	89
Canada	2,599	0.27	3,648	0.33	1,049	40
Japan	8,906	0.19	11,906	0.22	3,000	34
Norway	2,199	0.87	2,876	1.00	677	31
United States	19,705	0.17	24,000	0.18	4,295	22
Other DAC members ^b	3,218	0.30	4,477	0.37	1,260	39
DAC members, total	79,512	0.26	128,128	0.36	48,616	61

a. Austria, Belgium, Finland, Greece, Ireland, and Portugal.

the largest source of foreign capital for many developing countries.

Remittance flows have more than tripled since 1990, reaching \$227.6 billion in 2004, with \$161 billion going to developing countries (table 6.14). Already twice the size of foreign aid, remittances are expected to continue growing. Empirical studies have found that remittances typically boost income levels, especially for the poor, and may encourage investment in physical and human capital and help to buffer the impact of negative shocks.

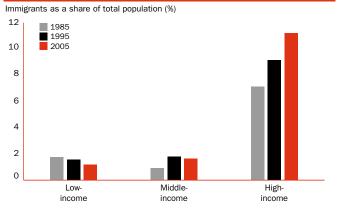
Among these international migrants are millions of highly educated people who have moved to developed countries from developing countries that already suffer from low levels of human capital and skilled workers. The flight of human capital, or "brain drain," may increase the concentration of poverty and reduce the beneficial impact of globalization. A recent study estimates that highly skilled immigrants represented 34.6 percent of the OECD immigration stock in 2000, while only 11.3 percent of the world labor force had a tertiary education (Özden and Schiff 2006). The most affected areas are Sub-Saharan Africa and small island economies in the Caribbean. Although Sub-Saharan Africa's emigration rate is not particularly high, 13 percent of those who do migrate have a tertiary education. In Jamaica four of five trained doctors were employed outside the country.

b. Australia. New Zealand. and Switzerland.

Source: OECD Journal on Development 2006.

6e

Immigrant populations are expanding in high-income economies

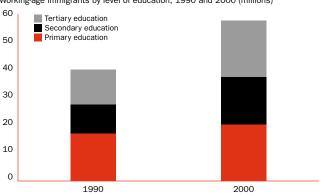


Source: World Bank staff estimates based on United Nations Population Fund data.

6f

Immigrants in OECD countries are better educated

Working-age immigrants by level of education, 1990 and 2000 (millions)



Source: Özden and Schiff 2005.





Integration with the global economy

		handise ade	1	nde rvices	Growth in real trade less growth in real GDP		private I flows		Foreign invest		
									% of		
	% 0 1990	of GDP 2004	1990	GDP 2004	percentage points 1990–2004	1990	GDP 2004	Net in 1990	110WS 2004	1990	utflows 2004
	1000	-	1 1330	2004	1330-2004	1 1330	2004	1330	2004	1330	2004
Afghanistan		47.2									
Albania	29.0	37.7	2.9	26.6	12.8	18.0	6.2	0.0	5.6	0.0	0.0
Algeria	36.6 53.5	59.7 104.4	2.9 18.7	26.3	0.1	2.6 10.1	25.7	0.1 -3.3	1.0 7.4	0.0	0.2
Angola Argentina	11.6	37.1	3.9	7.8	4.1	8.2	15.6	-3.3 1.3	2.7	0.0	0.2
Armenia	11.0	65.7	5.9	18.3	-7.6	0.2	13.9	0.2	7.1		0.2
Australia	26.3	30.7	7.7	8.1	3.0	9.3	32.0	2.6	6.7	0.3	2.8
Austria	54.8	80.5	22.7	32.6	3.3	9.6	41.9	0.4	1.4	1.0	2.5
Azerbaijan		83.7		37.8	14.4		100.4	0.0	41.7		14.1
Bangladesh	17.6	35.7	3.6	5.3	4.3	0.9	1.9	0.0	0.8	0.0	0.0
Belarus		131.5		12.2	-1.9		7.5	0.0	0.7		0.0
Belgium	120.4	168.0	26.4 ^a	40.9 ^a	2.2	81.5 ^a	222.2 ^a	3.9 ^a	30.9 ^a	3.0 ^a	26.4 ^a
Benin	30.0	37.7	13.9	12.0	-2.3	10.7	5.7	3.4	1.5	0.0	0.1
Bolivia	33.1	45.3	9.4	11.3	1.5	3.1	5.0	0.6	1.3	0.0	0.0
Bosnia and Herzegovina		90.2		15.0	-3.8		21.8		7.2		0.0
Botswana	98.4	75.9	15.4	17.0	-2.3	9.0	20.6	2.5	0.5	0.2	2.7
Brazil	11.7	26.9	2.4	4.9	4.6	1.9	8.8	0.2	3.0	0.1	1.6
Bulgaria	48.9	100.9	6.9	30.6	5.8	39.2	29.6	0.0	8.3	0.0	-0.9
Burkina Faso	22.0	33.2	9.1		-1.5	1.0		0.0	0.7	0.0	
Burundi	27.0	34.0	12.9	8.5	6.8	3.7	6.2	0.1	0.5	0.0	0.0
Cambodia	22.4	122.2	5.7	25.3	9.8	3.2	8.1	0.0	2.7	••	0.2
Cameroon	30.5	33.4	12.8		2.0	15.5		-1.0	0.0	0.1	
Canada	43.7	61.0	8.3	10.7	3.3	8.1	14.0	1.3	0.6	0.9	4.8
Central African Republic	18.4	20.7	16.0			2.2		0.1	-1.0	0.3	
Chad	27.2	70.4	15.5		4.5	5.6		0.5	11.3	0.0	
Chile	53.1	60.5	12.9	13.3	1.6	15.0	21.5	2.2	8.1	0.0	1.0
China	32.5	59.8	2.9	7.0	5.7	2.5	10.0	1.0	2.8	0.2	0.1
Hong Kong, China	221.5	330.4		51.6	3.6		145.5		20.9		24.4
Colombia	30.7	33.7	8.3	6.4	2.7	3.1	10.9	1.2	3.1	0.0	0.1
Congo, Dem. Rep.	43.5	49.6 129.4			5.9 3.4			-0.2	0.0		
Congo, Rep. Costa Rica	57.2 60.2	78.7	31.0	17.7	3.4	6.6 7.0	11.7	0.8 2.9	0.0 3.4	0.0	0.0 0.3
Côte d'Ivoire	47.9	66.3	20.3 20.5	19.2 17.8	0.7	3.5	12.3 5.2	0.4	3.4 1.1	0.0	0.0
Croatia	88.8	71.7	•••••	38.6	4.0		20.8	0.4	3.6		1.0
Cuba	00.0	····	••		····	••	•	······	······	••	1.0
Czech Republic	83.6	129.1		17.7	8.7		19.6	0.2	4.2		0.5
Denmark	52.6	60.1	17.3	28.9	3.4		38.0	0.8	-3.6	1.1	-4.1
Dominican Republic	73.2	72.8	21.7	25.4	3.4	5.0	13.5	1.9	3.5	0.0	0.0
Ecuador	44.2	51.2	13.0	9.0	1.9	11.0	13.1	1.2	3.8	0.0	0.0
Egypt, Arab Rep.	36.8	26.0	22.6	28.2	-1.7	6.8	13.3	1.7	1.6	0.0	0.2
El Salvador	38.4	60.4	13.4	13.0	6.2	2.0	12.5	0.0	2.9	0.0	0.0
Eritrea	77.0	74.1	••		-1.9	53.0		0.0	3.2		
Estonia		130.6	9.1	40.6	7.5	3.9	51.9	0.0	9.3	0.0	2.4
Ethiopia	16.0	46.5	7.7	24.6	3.6	1.6	4.0	0.1	6.8	0.0	
Finland	39.1	60.3	9.0	11.9	4.4	17.4	42.1	0.6	1.7	2.0	-0.8
France	36.4	44.7	11.1	10.2	4.2	20.2	26.1	1.1	1.2	2.8	2.3
Gabon	52.5	66.0	21.0	16.7	-1.4	18.0	18.7	1.2	4.5	0.5	0.3
Gambia, The	69.1	53.5	34.5		-3.3	0.9		4.5	14.5	0.0	
Georgia		48.0		19.6	10.2		12.4	0.0	9.6		0.2
Germany	45.5	59.4	8.7	12.2	4.3	9.6	27.4	0.2	-1.3	1.4	-0.3
Ghana	35.7	77.8	6.6	19.9	3.1	2.9	6.8	0.3	1.6	0.0	0.0
Greece	33.2	33.0	11.4	23.0	3.7	3.9	32.3	1.2	0.7	0.0	0.3
Guatemala	36.8	39.1	9.7	9.0	2.9	2.9	11.6	0.6	0.6	0.0	0.0
Guinea	49.5	35.9	18.6	9.3	-1.2	3.9	1.6	0.6	2.6		0.0
Guinea-Bissau	43.0	59.6	11.0	17.7	4.0	23.0	14.4	0.8	1.8	0.0	0.2
Haiti	17.2	48.1	4.3	13.4	-1.2	1.1	3.9	0.3	0.2	-0.3	0.0

Integration with the global economy 6.1



		handise ade		ade rvices	Growth in real trade less growth in real GDP		private I flows		_	n direct tment	
	% 0	f GDP	% of	GDP	percentage points	% of	GDP	Net in		GDP Net o	outflows
	1990	2004	1990	2004	1990-2004	1990	2004	1990	2004	1990	2004
Honduras	57.9	74.0	11.7	19.1	-0.4	7.2	8.0	1.4	4.0	0.0	0.0
Hungary	61.5	113.4	16.0	20.5	8.5	4.6	24.7	1.9	4.6	0.0	1.1
India	13.1	25.0	3.4	8.2	6.8	0.8	5.9	0.1	0.8	0.0	0.2
Indonesia	41.5	49.4	7.5	17.9	0.5	4.1	4.6	1.0	0.4	0.0	0.0
Iran, Islamic Rep.	32.9	48.4	3.7		-7.3	2.6		-0.3	0.3	0.0	
Iraq	55.4	155.9									
Ireland	93.9	90.8	18.2	64.4	5.7	22.2	314.1	1.3	6.1	0.8	8.7
Israel	55.0	69.6	18.1	23.5	1.1	6.5	18.7	0.3	1.4	0.4	2.7
Italy	32.0	41.7	8.8	9.9	2.7	10.6	10.4	0.6	1.0	0.7	1.1
Jamaica	67.2	58.2	37.5	45.4		8.4	45.5	3.0	6.8	0.0	0.7
Japan 	17.2	22.1	4.1	5.0	2.7	5.4	14.4	0.1	0.2	1.7	0.7
Jordan	91.1	104.9	67.5	36.9	-1.6	6.3	18.1	0.9	5.4	-0.8	0.0
Kazakhstan		80.7		17.1	-2.6		41.8	0.0	10.1		-3.1
Kenya	37.9	45.0	21.4	14.1	2.7	3.5	7.2	0.7	0.3	0.0	0.0
Korea, Dem. Rep.											
Korea, Rep.	51.1 59.8	70.4 73.1	7.5	13.5 19.6	6.3 <i>–3.2</i>	5.3	8.5	0.3	1.2 0.0	0.4	0.7
Kuwait Kyrgyz Republic		75.3	25.2	19.6	····	19.3	35.8	0.0		1.3	3.4
Lao PDR	30.5	75.3 35.4	 5.8	19.9	-1.5	3.7	17.2	0.0 0.7	3.5 0.7	0.0	2.0
Latvia		80.7	9.2	21.8	5.1	2.3	43.1	0.0	5.1	0.0	0.8
Lebanon	 106.5	51.2		21.0	-0.7		70.1	0.2	1.3	0.0	0.0
Lesotho	119.3	162.0	19.8	12.2	-0.5	9.6	14.2	2.8	9.4	0.0	0.0
Liberia	374.1	230.6						58.6	4.1		
Libya	64.2	91.0	5.2	7.6		7.3	24.5			0.4	-0.7
Lithuania		96.8		18.3	8.2		19.4	0.0	3.5		1.2
Macedonia, FYR	103.8	84.7		16.2	4.6		11.6	0.0	2.9		0.0
Madagascar	31.5	50.9	12.8	14.9	2.1	1.8	1.1	0.7	1.0	0.0	0.0
Malawi	52.7	65.6	16.2	14.0	-2.1	3.2	3.1	1.2	0.9	0.0	
Malaysia	133.4	195.9	21.2	29.9	2.9	10.3	22.6	5.3	3.9	0.0	1.3
Mali	39.7	50.2	19.0	16.3	2.0	2.0	8.4	0.2	3.7	0.0	0.0
Mauritania	84.1	52.8	16.0		-5.7	48.8		0.7	19.6	0.0	
Mauritius	118.0	79.2	38.0	41.1	0.1	8.0	6.5	1.7	0.2	0.0	0.5
Mexico	32.1	58.5	7.0	5.0	8.1	9.2	6.9	1.0	2.6	0.0	0.5
Moldova	••	106.4		27.4	11.4		16.9	0.0	3.1		0.1
Mongolia		116.0		52.2	15.5		26.1		5.8		0.0
Morocco	43.4	54.7	13.4	20.3	1.9	5.5	7.6	0.6	1.5	0.0	0.0
Mozambique Myonmor	40.8	57.1	12.5	12.9	2.4	0.4	7.9	0.4	4.0	0.0	0.0
Myanmar Namibia	95.6	74.7	20.7	 15.2	0.2	 16.5	23.5			0.1	-0.4
Nepal	•••••	39.2	10.2	12.4	0.2	3.5	6.8	0.2	0.0	0.0	-0.4
Netherlands	24.1 87.5	117.0	20.0	24.7	3.4	29.8	66.6	3.6	0.0	4.7	3.0
New Zealand	43.3	44.0	13.3	14.9	2.1	17.8	15.4	4.0	2.3	3.7	-0.8
Nicaragua	95.9	65.2	17.0	15.1	5.5	9.0	6.1	0.1	5.5	0.0	0.0
Niger	27.0	30.2	10.9	9.4	 	2.8	2.3	1.7	0.0	0.0	0.0
Nigeria	67.5	48.2	10.3	11.5	1.5	5.9	11.0	2.1	2.6	0.0	
Norway	52.8	51.9	21.6	20.1	1.3	11.9	31.8	0.9	0.2	1.3	0.8
Oman	70.1	91.4	6.7	14.7	2.5	3.5	8.6	1.2	-0.1	0.0	0.0
Pakistan	32.6	32.6	8.8	8.4	-0.8	4.2	3.5	0.6	1.2	0.0	0.1
Panama	35.4	32.6	33.5	30.4	-3.7	106.6	39.0	2.6	7.4	0.0	0.0
Papua New Guinea	73.6	107.8	18.9			5.7		4.8	0.7	0.0	
Paraguay	43.9	58.3	16.2	12.6	-3.3	5.4	3.4	1.5	1.3	0.0	0.1
Peru	22.3	33.0	7.5	6.8	3.2	3.2	6.8	0.2	2.6	0.0	0.0
Philippines	47.8	97.0	11.3	11.2	2.6	4.4	13.7	1.2	0.6	0.0	0.5
Poland	43.9	67.7	10.3	10.7	7.5	11.0	18.1	0.2	5.2	0.0	0.3
Portugal	58.3	54.1	12.7	14.6	3.2	11.4	37.6	3.7	0.5	0.2	3.6



6.1 Integration with the global economy

		handise ade		ade rvices	Growth in real trade less growth in real GDP	1	private Il flows		_	n direct tment	
	% o	f GDP	% of	GDP	percentage points	% of	GDP	Net ir	% of nflows		utflows
	1990	2004	1990	2004	1990-2004	1990	2004	1990	2004	1990	2004
Romania	32.8	76.7	3.6	10.2	8.5	2.9	14.2	0.0	7.4	0.0	0.1
Russian Federation		48.1		9.3	3.3		16.0	0.0	2.1		1.8
Rwanda	15.4	20.8	6.6	18.3	-0.6	2.8	1.0	0.3	0.4	0.0	0.0
Saudi Arabia	58.6	68.2	21.8	12.6		8.8	20.0			0.0	0.0
Senegal	34.7	54.5	20.9	15.5	2.1	4.8	4.9	1.0	0.9	-0.2	0.0
Serbia and Montenegro		65.6							4.0		
Sierra Leone	44.2	39.5	20.9	14.0		11.0	6.8	4.9	2.4	0.0	0.0
Singapore	307.6	321.5	58.1	76.6		54.2	116.9	15.1	15.0	5.5	9.9
Slovak Republic	110.8	138.8		19.4	6.8		15.5	0.0	2.7		0.1
Slovenia	102.4	102.6	18.0	18.8	1.9	3.4	22.4	0.9	2.6	0.0	1.7
Somalia			11.2			21.3		0.6		0.0	
South Africa	37.4	48.5	6.4	8.3	2.6	2.2	8.6	-0.1	0.3	0.0	0.7
Spain	27.2	41.1	8.4	13.7	5.7	11.0	30.8	2.7	1.6	0.7	4.8
Sri Lanka	57.3	68.5	13.4	17.1	2.5	13.1	5.2	0.5	1.2	0.0	0.0
Sudan	7.5	37.2	3.0	5.3	4.8	0.3	10.4	-0.2	7.2	0.0	0.0
Swaziland	138.2	162.8	32.4	43.1	1.1	10.7	7.0	3.4	2.9	0.9	0.1
Sweden	46.6	64.0	12.8	20.7	4.2	33.9	44.8	0.8	-0.2	6.1	4.4
Switzerland	56.6	64.4	12.8	18.8	2.9	28.1	54.8	2.4	-0.2	2.3	7.3
Syrian Arab Republic	53.7	46.7	14.3	19.1	2.8	18.0	1.6	0.6	1.1	0.0	0.0
Tajikistan		110.5		16.2	4.5		16.1	0.0	13.1		0.0
Tanzania	31.9	35.3	9.8	17.6	-1.0	0.2	3.5	0.0	2.3	0.0	0.0
Thailand	65.7	119.2	14.9	26.1	2.9	13.5	7.9	2.9	0.9	0.2	0.1
Togo	52.1	88.4	24.1	17.0	-1.3	9.6	14.8	1.1	2.9	0.0	-0.4
Trinidad and Tobago	60.6	89.6	15.9	10.1	3.7	11.4	25.2	2.2	8.0	0.0	-2.1
Tunisia	73.5	79.6	20.6	19.9	-0.1	9.5	6.6	0.6	2.1	0.0	0.0
Turkey	23.4	53.1	7.4	11.7	7.0	4.3	12.8	0.5	0.9	0.0	0.3
Turkmenistan		116.6			8.5						
Uganda	10.2	31.2	4.5	16.8	2.8	1.1	4.8	-0.1	3.3	0.0	0.0
Ukraine	102.2	95.1		17.6	3.6		34.2	0.0	2.6		0.0
United Arab Emirates	103.2	125.1	10.6	15.4	1.9	25.2	01 7	2.4			3.8
United Kingdom	41.2	38.1	10.6	15.4	3.4	35.3	91.7	3.4	3.4	2.0	•
United States Uruguay	15.8 32.7	20.0 45.9	4.6 9.2	5.4 12.6	4.0 2.1	5.6 12.7	20.0 22.0	0.8 0.4	0.9 2.4	0.6 0.0	2.2 0.1
Uzbekistan	32.1	64.1	•	12.0	-1.2	12.1	22.0	0.4	1.2	•	0.1
Venezuela, RB	52.8	44.7	7.9	5.3	0.6	51.6	16.2	1.0	1.4	0.8	-0.3
Vietnam	79.7	125.4		19.0	14.6		5.8	2.8	3.6		0.0
West Bank and Gaza	13.1	120.4			-3.1				•••••		
Yemen, Rep.	46.9	65.0	16.3	11.1	1.7	16.2	1.6	 –2.7	1.1		0.0
Zambia	76.9	68.8	15.0		1.4	64.7		6.2	6.2	0.0	
Zimbabwe	40.7	86.7	8.6		5.7	1.7		-0.1	1.3	0.0	
World	32.4 w		7.8 w	10.5 v		10.3 w		1.0 w	1.6 w	1.2 w	2.1 v
Low income	24.1	37.8	6.5	9.4		2.7	6.9	0.4	1.4	0.0	0.2
Middle income	34.4	61.5	7.1	10.2		6.6	12.2	0.8	2.8	0.1	0.5
Lower middle income	31.5	57.5	6.2	10.3	····	4.3	10.7	0.7	2.7	0.1	0.3
Upper middle income	38.3	67.0	8.1	10.2	····	8.0	14.2	1.0	2.8	0.3	0.7
Low & middle income	32.5	58.1	7.0	10.3	•	5.9	11.9	0.7	2.6	0.1	0.5
East Asia & Pacific	47.0	71.1	7.3	9.6		5.0	9.4	1.6	2.5	0.2	0.1
Europe & Central Asia	49.7	70.9	7.1	13.4		5.3	18.8	0.3	3.5	0.0	0.9
Latin America & Carib.	23.3	44.6	5.8	6.9		8.0	10.4	0.8	3.0	0.1	0.7
Middle East & N. Africa	42.9	55.1	9.1			4.9		0.3	1.1	0.0	
South Asia	16.5	27.9	4.2	8.2		1.4	5.4	0.1	0.8	0.0	0.2
Sub-Saharan Africa	42.4	54.7	11.0	12.1		5.1	9.5	0.4	2.2	0.0	0.3
High income	32.3	41.5	8.0	10.5		11.0	32.0	1.0	1.3	1.4	2.4
Europe EMU	44.4	59.4	11.1	14.8	-	13.4	41.3	1.1	1.3	1.7	2.6

a. Includes Luxembourg.

About the data

The growing integration of societies and economies has helped reduce poverty in many countries. One indication of increasing global economic integration is the growing importance of trade in the world economy. Another is the increasing size and importance of private capital flows to developing countries that have liberalized their financial markets.

The table presents standardized measures of the size of trade and capital flows relative to gross domestic product (GDP). The numerators on trade and private capital flows are based on gross flows that capture the two-way flow of goods, services, and capital. In conventional balance of payments accounting exports are recorded as a credit and imports as a debit. And in the financial account inward investment is a credit and outward investment a debit. Thus net flows, the sum of credits and debits, represent a balance in which many transactions are canceled out. Gross flows are a better measure of integration because they show the total value of financial transactions during a given period.

Merchandise trade and trade in services (exports and imports) are shown relative to total GDP. Merchandise trade is an important part of global trade. Trade in services (such as transport, travel, finance, insurance, royalties, construction, communications, and cultural services) is an increasingly important element of global integration. The difference between the growth of real trade in goods and services and the growth of GDP helps to identify economies that have integrated with the global economy by liberalizing trade, lowering barriers to foreign investment, and harnessing their abundant labor to gain a competitive advantage in labor-intensive manufactures and services.

have benefited considerably from the fast-growing services trade.

Source: International Monetary Fund Balance of Payments database

This year the table includes net inflows and outflows of foreign direct investment based on balance of payments data reported by the International Monetary Fund (IMF), supplemented by staff estimates using data reported by the United Nations Conference on Trade and Development and official national sources.

The internationally accepted definition of foreign direct investment is provided in the fifth edition of the IMF's *Balance of Payments Manual* (1993). For a more detailed explanation of foreign direct investment, see *About the data* for table 6.8.

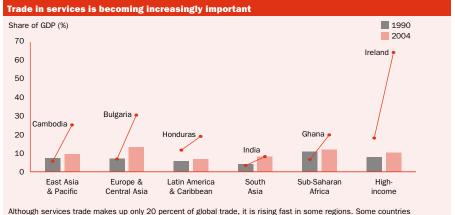
Foreign direct investment may be understated in many developing countries. Some countries fail to report reinvested earnings, and the definition of long-term loans differs among countries. Underreporting of FDI outflows is more pervasive, particularly when investors are attempting to avoid controls on capital and foreign exchange or high taxes on investment income. Some countries do not identify FDI outflows in their balance of payments statistics. However, the quality and coverage of the data are improving as a result of continuous efforts by international and national statistics agencies.

Trade and capital flows are converted to U.S. dollars at the IMF's average official exchange rate for the year shown. An alternative conversion factor is applied if the official exchange rate diverges by an exceptionally large margin from the rate effectively applied to transactions in foreign currencies and traded products.

Definitions

. Merchandise trade is the sum of merchandise exports and imports divided by the value of GDP, all in current U.S. dollars. • Trade in services is the sum of services exports and imports divided by the value of GDP, all in current U.S. dollars. • Growth in real trade less growth in real GDP is the difference between annual growth in trade of goods and services and annual growth in GDP. Growth rates are calculated using constant price series taken from national accounts and are expressed as a percentage. • Gross private capital flows are the sum of the absolute values of direct, portfolio, and other investment inflows and outflows recorded in the balance of payments financial account, excluding changes in the assets and liabilities of monetary authorities and general government. The indicator is calculated as a ratio to GDP in U.S. dollars. • Foreign direct investment net inflows are the net inflows of investment to acquire a lasting management interest in an enterprise operating in an economy other than that of the investor. It is the sum of equity capital, reinvestment of earnings, and other short- and long-term capital, as shown in the balance of payments. This series shows net inflows in the reporting economy and is divided by the value of GDP. • Foreign direct investment net outflows are the net outflows of investment from the reporting economy to the rest of the world.

6.1a



Data sources

Data on merchandise trade are from the World Trade Organization. Data on GDP are from the World Bank's national accounts files, converted from national currencies to U.S. dollars using the official exchange rate, supplemented by an alternative conversion factor if the official exchange rate is judged to diverge by an exceptionally large margin from the rate effectively applied to transactions in foreign currencies and traded products. Data on trade in services are from the IMF's Balance of Payments database. Data on real trade and GDP growth are from the World Bank's national accounts files. Gross private capital flows and foreign direct investment are reported in the World Bank Debtor Reporting System and are calculated using mainly the IMF's Balance of Payments database.





6.2 Growth of merchandise trade

	Exp volu	oort ume	Imp volu		Exp val		lmp val		terms (oarter of trade lex
	average % gro		average % gro		average % gro		average % gro		2000	= 100
	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1990	2004
Afghanistan										
Albania ^a						14.6		16.6		
Algeria	4.7	2.7	-8.0	1.7	-3.1	5.8	-2.7	1.2	74	126
Angola	9.0	5.8	-1.9	8.2	6.4	9.6	0.7	9.3	94	121
Argentina	2.1	6.9	-9.6	6.4	2.1	7.8	-6.5	5.3	64	110
Armenia ^a						1.3		3.6		
Australia ^a	6.3	5.5	6.0	7.6	6.6	4.8	6.4	6.0	116	116
Austria ^a	6.6		5.7		10.2	6.3	8.7	4.6		
Azerbaijan ^a						8.6		8.2		
Bangladesh	7.1	10.5	1.8	4.1	7.8	12.4	3.6	8.2	117	88
Belarus ^a			••		••	13.2	••	13.2	••	
Belgium ^a		5.8	••	5.4	••	6.2	••	6.4	106	99
Benin	11.8	3.0	-9.9	5.9	18.8	3.6	-4.9	6.3	107	93
Bolivia	3.1	4.9	-1.3	5.2	-1.9	5.6	-0.3	5.8	102	108
Bosnia and Herzegovina										
Botswana	14.8	3.8	11.5	2.3	18.8	3.4	11.1	1.3	98	92
Brazil	6.3	6.7	0.7	10.6	5.1	6.6	-1.9	7.6	66	110
Bulgaria ^a					-12.3	4.8	-14.0	8.2		
Burkina Faso	-0.3	12.1	3.8	5.0	7.9	10.5	4.3	5.2	119	97
Burundi	3.5	8.0	1.0	6.3	2.5	-6.3	2.2	-3.9	128	84
Cambodia										
Cameroon	7.0	3.3	4.8	7.2	1.4	2.7	0.1	4.6	81	112
Canada ^a	6.4	6.9	7.4	7.2	6.8	6.7	7.9	6.1	97	107
Central African Republic	0.0	14.7	4.2	1.6	3.5	1.7	7.9	-1.3	238	99
Chad	8.6	7.7	11.0	13.0	9.4	7.8	12.6	13.6	112	101
Chile	9.2	9.4	-3.0	6.8	8.1	8.2	2.8	7.1	114	115
China [†]	13.6	15.6	11.9	15.1	12.8	15.5	13.5	15.4	102	92
Hong Kong, China	15.4	7.4	13.7	7.5	16.8	6.5	15.0	6.7	100	99
Colombia	7.9	4.4	-2.1	6.2	7.7	5.9	0.0	6.6	81	93
Congo, Dem. Rep.	9.7	4.4	12.2	11.0	2.7	-3.3	3.1	1.5	86	94
Congo, Rep.	7.4	4.5	3.3	6.7	2.1	8.6	5.3	6.1	63	121
Costa Rica	3.8	10.1	5.2	11.8	4.6	11.3	4.4	11.0	75	102
Côte d'Ivoire	2.6	4.6	-2.1	0.7	1.7	6.0	-1.5	3.0	143	121
Croatia ^a			••		••	3.5	••	9.1	••	•••••
Cuba Czech Republic ^a		••	••	••	••	12.5	••		••	•••
Denmark ^a	4.1	5.1	3.1	5.1	9.0	<i>12.5</i> 4.1	6.8	11.7 4.2	102	102
Dominican Republic	-0.9	3.5	2.9	8.3	-2.1	4.1	5.4	8.6	96	95
Ecuador	-0.9 7.1	4.7	-1.8	6.3 7.6	-2.1 -0.4	6.2	-1.3	8.8	114	108
Egypt, Arab Rep.	13.4	3.4	8.1	-0.5	7.3	4.2	-1.3 12.6	2.0	101	108
El Salvador	-4.6	3.4	4.6	-0.5 6.6	-4.6	6.9	2.4	9.4	84	91
Eritrea	-4.0	-2.8		8.1	-4.0	-4.2		7.2	99	93
Estonia ^a						16.0		16.7		
Ethiopia	-1.0	9.7	4.0	9.6	-1.1	7.6	4.3	10.2	121	
Finland ^a	2.3	9.3	4.4	4.3	7.4	6.5	6.9	5.3	111	90
France ^a	3.6	3.6	3.7	3.6	7.5	4.2	6.5	4.1	103	111
Gabon	2.5	5.8	-3.5	1.3	-3.9	2.5	1.1	1.1	157	125
Gambia, The	2.2	-9.3	-6.0	-0.8	6.6	-9.1	2.5	-1.3	100	115
Georgia						12.5		9.6		
Germany ^{a, b}	4.5	5.9	4.9	4.3	9.2	5.0	7.1	4.0	110	107
Ghana	-17.2	4.7	-19.3	6.5	-2.7	6.6	0.6	6.6	100	123
Greece ^a	5.0	9.1	6.4	9.2	5.8	2.8	6.6	5.6	99	103
Guatemala	-1.1	6.8	0.1	9.8	-2.2	6.7	0.6	10.7	115	93
Guinea		3.2		2.5	4.0	0.2	9.7	-0.5	122	106
Guinea-Bissau	-2.0	14.0	-0.3	-4.1	4.2	11.7	5.2	-3.1	146	94
Haiti	-0.4	11.6	-4.6	10.8	-1.2	11.2	-2.9	12.4	132	87
†Data for Taiwan, China	26.1	2.8	30.3	3.3	14.9	5.8	12.4	6.4	97	92

Growth of merchandise trade

h	
U	

	Exp volu		lmp volu		Exp val		lmp val		terms	arter of trade lex
	average % gro		average % gro		average % gro		average % gro		2000	= 100
	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1990	2004
Honduras	4.1	2.7	1.6	10.5	1.6	4.9	0.6	11.6	78	90
lungary ^a	3.4	11.6	1.3	11.9	1.6	13.8	0.1	13.8	111	99
ndia	4.2	11.5	4.7	10.8	7.3	9.7	4.2	10.3	86	76
ndonesia	7.6	5.9	0.3	3.3	-1.3	6.5	2.6	3.2	95	104
ran, Islamic Rep.					7.2	4.8	0.2	0.8		
raq					2.0	23.6	-2.8	1.5		
reland ^a	9.3	12.8	4.8	9.0	12.8	12.0	7.0	8.9	106	97
srael ^a	6.9	8.6	5.8	6.6	8.3	9.3	5.9	6.4	89	95
:aly ^a	4.3	3.2	5.3	3.6	8.7	4.5	6.9	4.4	94	103
amaica	-1.0	1.4			1.1	0.8	2.8	5.8		
apan ^a	5.0	2.6	6.6	4.8	8.9	3.3	5.1	4.2	105	92
ordan	7.7	7.3	1.2	4.3	6.2	8.4	-1.9	6.4	94	87
Kazakhstan ^a						14.9		9.9		
(enya	1.7	5.0	2.5	6.1	-1.1	5.5	1.7	5.5	70	91
Korea, Dem. Rep.										
Korea, Rep.	12.4	14.9	11.8	8.9	15.0	8.8	11.9	6.9	133	85
luwait					-7.7	13.2	-4.1	5.6		
(yrgyz Republic ^a						4.8		4.8		
ao PDR ^a				••	11.0	9.2	6.6	6.0		
atvia ^a		7.5				11.7		16.5		
ebanon					-5.2	8.2	-5.5	8.5		
esotho	7.2	16.0	3.9	2.8	3.7	14.7	3.5	1.6	100	91
iberia										
ibya	2.8	-3.3	-1.8	-1.3	-7.4	-1.7	-4.4	-1.9		
ithuania ^a						13.8		15.0		
1acedonia, FYR ^a						2.4		5.5		
/ladagascar	-2.5	4.6	-6.2	4.3	-1.2	7.9	-4.3	5.8	81	82
1alawi	2.4	3.0	-0.1	-0.3	2.0	0.8	3.3	1.0	148	82
/lalaysia	4.8	11.4	8.5	8.5	8.6	9.3	7.7	7.2	103	99
⁄lali	4.4	10.9	3.0	6.2	6.0	8.6	2.7	5.7	135	113
/lauritania	3.9	1.2	-3.1	3.9	8.0	-3.0	-2.1	0.3	97	95
1auritius	11.5	2.3	11.7	2.3	14.4	3.4	12.9	3.2	93	89
/lexico	15.3	12.4	0.9	11.1	5.9	12.9	6.4	11.6	102	98
1oldova ^a						2.7		6.0		
/longolia					5.0	3.3	5.5	4.9		
1orocco	5.7	6.6	3.2	7.6	6.2	6.5	3.6	6.0	85	98
/lozambique	-9.5	21.5	-2.7	2.3	-9.6	16.3	0.1	3.1	175	94
1yanmar	-8.4	18.5	-18.1	8.6	-7.6	16.7	-4.7	14.8	252	102
lamibia		1.5	••	4.7	••	0.3	••	1.7	93	97
lepal ^a					8.1	8.7	6.9	6.8		
letherlands ^a	4.4	6.0	4.3	5.5	4.6	5.6	4.4	5.2	101	96
lew Zealand ^a	3.5	4.3	4.4	5.9	6.2	4.2	5.4	5.5	105	110
icaragua	-4.8	8.6	-3.5	7.2	-5.8	7.7	-3.1	9.3	155	91
iger	-5.2	1.4	-5.2	-0.9	-5.4	0.8	-3.5	1.4	165	131
igeria	-4.4	1.9	-20.8	5.2	-8.4	5.7	-15.0	5.8	89	122
orway ^a	4.2	5.3	3.5	6.5	5.3	6.2	6.2	3.7	67	100
man	11.2	2.4			3.3	7.4	0.7	6.5		136
akistan	8.0	4.7	2.7	2.2	8.1	4.9	3.0	3.7	109	85
anama	-0.5	5.1	-6.7	4.2	-0.5	7.0	-3.6	5.3	69	94
apua New Guinea	-0.6	-6.8			4.9	1.8	0.7	-0.7		113
araguay	12.8	1.9	10.4	1.6	11.6	3.6	4.2	2.7	103	112
eru	2.7	10.0	-2.0	5.4	-1.5	8.9	1.3	5.9	114	109
hilippines	19.5	13.8	21.0	9.9	3.9	13.6	2.9	8.8	87	84
oland ^a	4.8	10.9	1.5	14.7	1.4	11.8	-3.2	15.0	92	107
ortugal ^a	11.9	0.1	15.1	-0.2	15.1	4.8	10.3	4.3	103	102





6.2 Growth of merchandise trade

		port ume	1	port ume		port ilue		port ilue	terms	oarter of trade dex
		e annual rowth		e annual rowth		e annual rowth		e annual rowth	2000	= 100
	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1980-90	1990-2004	1990	2004
Romania ^a					-4.0	11.0	-3.8	10.3		
Russian Federation ^a						9.8		5.0		
Rwanda	2.6	-2.6	1.8	-0.2	-0.9	-0.5	2.7	-0.9	40	89
Saudi Arabia	-8.3	1.1			-12.7	5.6	-6.1	2.3		135
Senegal	1.2	10.5	0.4	6.1	3.5	4.7	1.4	5.8	172	96
Serbia and Montenegro										
Sierra Leone										78
Singapore	12.2	9.7	8.6	5.9	9.9	7.5	8.0	5.5	116	89
Slovak Republica						13.0		12.8		
Slovenia ^a						7.9		8.3		
Somalia										
South Africa	1.6	4.7	-0.9	7.1	0.7	3.5	-1.3	5.6	104	120
Spain	2.5	9.7	8.8	8.9	10.8	8.1	10.6	7.2	100	102
Sri Lanka	4.6	5.9	2.1	6.4	5.4	7.7	2.7	6.6	82	104
Sudan										121
Swaziland	7.6	4.0	2.4	2.0	4.7	4.6	-0.5	3.1	100	94
Sweden ^a	4.4	7.6	5.0	5.4	8.0	5.0	6.7	4.2	108	92
Switzerland ^a	3.7		4.3		9.5	3.6	8.8	2.8		
Syrian Arab Republic	19.6	3.4			2.4	4.5	-8.4	3.1		113
Tajikistan	···•						0.1			***************************************
Tanzania		8.6	••	2.0	-5.1	8.7	-0.5	2.7	107	100
Thailand	13.8	8.9	 11.1	2.8	14.0	8.8	12.7	5.2	119	92
Togo	-1.2	12.6	0.7	0.3	1.1	7.1	2.0	6.3	133	30
Trinidad and Tobago	0.1		-2.4	•••••••••••	-9.4	9.2	-12.3	11.1		•
Tunisia	3.0	6.6	-2.4 1.6	 5.6	-9.4 3.5	6.5	2.7	5.5	109	99
Turkey	19.4	11.6	15.6	9.6	14.0	10.2	9.3	9.4	109	102
Turkmenistan	19.4	71.0	13.0	9.0	14.0				709	±∪∠
Uganda	-13.5	14.4	-6.8	13.2	-4.0	9.8	4.5	12.7	146	88
Ukraine ^a	-13.0			13.2	-4.0	9.5		7.9	140	•
	·-	••	••	••					••	••
United Arab Emirates		·••			-0.8 5.9	<i>8.1</i> 4.3	0.7 8.5	10.7	101	105
United Kingdom ^a								5.1	101	105
United States ^a	3.6	4.8	7.2	8.0	5.7	5.1	8.2	8.3	101	101
Uruguay	4.4	3.4	-0.5	3.4	4.5	2.9	-1.2	3.5	116	108
Uzbekistan										
Venezuela, RB	3.4	2.4	-4.1	1.6	-4.4	5.7	-3.2	2.5	90	108
Vietnam			·····		·····	15.8	······································	13.7	······································	······································
West Bank and Gaza		••								
Yemen, Rep.			-7.2	6.3	-3.2	17.0	-5.0	2.9		117
Zambia	-0.5	6.5	2.0	6.6	0.9	-0.1	0.0	4.5	207	119
Zimbabwe	3.6	7.7	3.4	7.2	2.5	2.6	-0.5	1.9	98	104

a. Data are from the International Monetary Fund's International Financial Statistics database. b. Data prior to 1990 refer to the Federal Republic of Germany before unification.

Growth of merchandise trade

About the data

Data on international trade in goods are available from each country's balance of payments and customs records. While the balance of payments focuses on the financial transactions that accompany trade. customs data record the direction of trade and the physical quantities and value of goods entering or leaving the customs area. Customs data may differ from data recorded in the balance of payments because of differences in valuation and the time of recording. The 1993 System of National Accounts and the fifth edition of the International Monetary Fund's (IMF) Balance of Payments Manual (1993) attempted to reconcile the definitions and reporting standards for international trade statistics, but differences in sources, timing, and national practices limit comparability. Real growth rates derived from trade volume indexes and terms of trade based on unit price indexes may therefore differ from those derived from national accounts aggregates.

Trade in goods, or merchandise trade, includes all goods that add to or subtract from an economy's material resources. Thus the total supply of goods in an economy is made up of gross output plus imports less exports (currency in circulation, titles of ownership, and securities are excluded, but nonmonetary gold is included). Trade data are collected on the basis of a country's customs area, which in most cases is the same as its geographic area. Goods provided as part of foreign aid are included, but goods destined for extraterritorial agencies (such as embassies) are not.

Collecting and tabulating trade statistics are difficult. Some developing countries lack the capacity to report timely data. This is a problem especially for countries that are landlocked and those whose territorial boundaries are porous. As a result, it is necessary to estimate their trade from the data reported by their partners. (For further discussion of the use of partner country reports, see About the data for table 6.3.) Countries that belong to common customs unions may need to collect data through direct inquiry of companies. In some cases economic or political concerns may lead national authorities to suppress or misrepresent data on certain trade flows, such as oil, military equipment, or the exports of a dominant producer. In other cases reported trade data may be distorted by deliberate under- or overinvoicing to effect capital transfers or avoid taxes. And in some regions smuggling and black market trading result in unreported trade flows.

By international agreement customs data are reported to the United Nations Statistics Division, which maintains the Commodity Trade (Comtrade) database. The United Nations Conference on Trade and Development (UNCTAD) compiles a variety of international trade statistics, including price and volume indexes, based on the Comtrade data. The IMF and the World Trade Organization also compile data on trade prices and volumes. The growth rates and terms of trade for low- and middle-income economies shown in the table were calculated from index numbers compiled by UNCTAD. Volume measures for high-income economies were derived by deflating the value of trade using deflators from the IMF's International Financial Statistics. In some cases price and volume indexes from different sources may vary significantly as a result of differences in estimation procedures. All indexes are rescaled to a

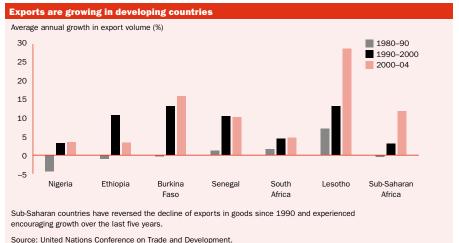
2000 base year. Terms of trade were computed from the same indicators.

The terms of trade measures the relative prices of a country's exports and imports. There are a number of ways to calculate terms of trade. The most common is the net barter (or commodity) terms of trade index, constructed as the ratio of the export price index to the import price index. When a country's net barter terms of trade index increases, its exports become more valuable or its imports cheaper.

Definitions

• Export and import volumes are average annual growth rates calculated for low- and middle-income economies from UNCTAD's quantum index series and for high-income economies from export and import data deflated by the IMF's trade price deflators. • Export and import values are average annual growth rates calculated from UNCTAD's value indexes or from current values of merchandise exports and imports. • Net barter terms of trade index is calculated as the ratio of the export price index to the corresponding import price index measured relative to the base year 2000.

6.2a



Data sources

The main source of trade data for developing countries is UNCTAD's annual *Handbook of Statistics*. The IMF's *International Financial Statistics* includes data on the export and import values and deflators for high-income and selected developing economies.





Direction and growth of merchandise trade

Direction of trade

High-income importers

76 UI	world	traue,	2004
	Ur	ited	

	European Union	Japan	United States	Other high- income	All high- income
Source of exports		-upun			
High-income economies	30.7	2.7	9.9	12.5	55.8
European Union	24.3	0.6	3.3	3.8	32.1
Japan	1.0	••	1.5	2.0	4.5
United States	1.9	0.6		3.7	6.3
Other high-income economies	3.4	1.5	5.2	2.9	13.0
Low- and middle-income economies	7.7	1.9	6.2	5.3	21.0
East Asia & Pacific	1.8	1.5	2.2	3.9	9.3
China	1.1	0.8	1.4	2.2	5.6
Europe & Central Asia	3.6	0.1	0.3	0.4	4.3
Russian Federation	0.8	0.0	0.1	0.2	1.1
Latin America & Caribbean	0.7	0.1	2.9	0.3	4.0
Brazil	0.2	0.0	0.2	0.1	0.6
Middle East & N. Africa	0.9	0.1	0.2	0.2	1.5
Algeria	0.2	0.0	0.1	0.0	0.3
South Asia	0.3	0.0	0.2	0.3	0.8
India	0.2	0.0	0.1	0.2	0.6
Sub-Saharan Africa	0.4	0.1	0.4	0.1	1.0
South Africa	0.2	0.0	0.1	0.1	0.3
World	38.4	4.6	16.1	17.8	76.8

Low- and middle-income importers

				% of world t	raue, 2004			
Source of exports	East Asia & Pacific	Europe & Central Asia	Latin America & Caribbean	Middle East & N. Africa	South Asia	Sub-Saharan Africa	All low- & middle- income	World
High-income economies	6.8	4.2	1.6	1.3	0.9	0.9	15.7	71.5
European Union	1.1	3.6	0.5	0.8	0.3	0.5	6.9	39.0
Japan	1.5	0.1	0.2	0.1	0.1	0.1	1.9	6.4
United States	0.7	0.1	0.7	0.1	0.1	0.1	1.8	8.1
Other high-income economies	3.5	0.3	0.3	0.3	0.4	0.2	5.1	18.1
Low- and middle-income economies	2.2	2.4	1.1	0.6	0.5	0.5	7.5	28.5
East Asia & Pacific	1.3	0.4	0.2	0.2	0.3	0.2	2.5	11.8
China	0.4	0.3	0.1	0.1	0.1	0.1	1.1	6.7
Europe & Central Asia	0.2	1.8	0.0	0.2	0.1	0.0	2.4	6.7
Russian Federation	0.1	0.6	0.0	0.1	0.0	0.0	0.8	1.9
Latin America & Caribbean	0.2	0.1	0.8	0.1	0.0	0.0	1.2	5.2
Brazil	0.1	0.0	0.2	0.0	0.0	0.0	0.4	1.0
Middle East & N. Africa	0.2	0.1	0.0	0.1	0.0	0.0	0.5	2.0
Algeria	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
South Asia	0.1	0.0	0.0	0.0	0.1	0.1	0.3	1.2
India	0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.9
Sub-Saharan Africa	0.2	0.0	0.1	0.0	0.0	0.2	0.5	1.5
South Africa	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.5
World	9.0	6.7	2.7	1.9	1.4	1.5	23.2	100.0

Direction and growth of merchandise trade 6.3



Nominal growth of trade

High-income importers

annual % growth, 1994–2004

	European Union	Japan	United States	Other high- income	All high- income
Source of exports	Ollion	Japan	States	ilicollie	ilicome
High-income economies	7.8	3.8	6.3	5.6	6.8
European Union	8.5	4.9	9.4	6.4	8.3
Japan	3.3		0.8	3.9	2.6
United States	4.5	0.2		4.5	4.0
Other high-income economies	6.9	5.5	6.7	7.8	6.8
Low- and middle-income economies	11.9	8.2	11.9	10.1	11.0
East Asia & Pacific	13.2	9.5	13.1	10.1	11.2
China	20.5	13.1	19.3	14.8	16.5
Europe & Central Asia	15.4	5.9	11.9	12.1	14.6
Russian Federation	11.6	4.4	8.3	9.4	10.6
Latin America & Caribbean	5.8	2.6	11.6	9.7	9.9
Brazil	5.9	0.7	8.5	9.1	6.9
Middle East & N. Africa	10.3	7.1	14.6	9.9	10.5
Algeria	11.0	3.0	17.7	26.4	13.3
South Asia	8.4	-1.5	9.5	11.5	9.0
India	9.2	-0.1	10.7	13.7	10.5
Sub-Saharan Africa	4.5	4.9	9.3	4.8	6.0
South Africa	3.5	2.7	2.0	3.7	3.2
World	8.5	5.4	8.1	6.7	7.8

Low- and middle-income importers

annual % growth, 1994-2004

				aiiiluai % giowi	11, 1994–2004			
Source of exports	East Asia & Pacific	Europe & Central Asia	Latin America & Caribbean	Middle East & N. Africa	South Asia	Sub-Saharan Africa	All low- & middle- income	World
High-income economies	9.2	13.5	3.0	7.6	9.0	7.0	9.0	7.2
European Union	9.0	14.4	3.3	7.7	9.7	7.0	10.4	8.6
Japan	7.8	14.2	0.4	2.9	3.0	0.6	6.6	3.7
United States	8.4	4.4	3.8	1.7	9.5	6.8	5.7	4.3
Other high-income economies	10.0	11.1	2.4	11.7	9.6	9.8	9.6	7.5
Low- and middle-income economies	16.9	12.1	9.0	14.3	13.5	12.1	13.0	11.5
East Asia & Pacific	16.6	19.4	15.2	15.8	16.5	19.7	17.0	12.2
China	19.9	23.0	19.2	21.8	20.3	23.9	21.1	17.1
Europe & Central Asia	11.7	11.0	9.2	14.5	15.0	15.3	11.4	13.3
Russian Federation	12.5	8.2	5.7	19.9	20.2	16.9	9.6	10.2
Latin America & Caribbean	18.4	16.6	7.3	13.3	8.8	11.2	9.5	9.8
Brazil	14.3	17.8	6.9	14.4	1.5	11.4	9.5	7.9
Middle East & N. Africa	25.6	14.0	14.2	14.1	4.5	20.3	16.2	11.7
Algeria	48.9	21.7	23.6	9.5	-14.6	10.5	20.1	14.0
South Asia	18.6	9.0	16.9	15.2	15.7	17.4	15.8	10.6
India	20.6	7.7	20.3	19.7	15.6	18.2	17.1	12.2
Sub-Saharan Africa	18.8	10.2	16.8	5.6	3.7	6.2	10.3	7.2
South Africa	2.0	2.8	2.9	1.8	3.2	1.6	1.9	2.8
World	10.6	13.0	5.1	9.4	10.4	8.6	10.1	8.3

Direction and growth of merchandise trade

About the data

The table provides estimates of the flow of trade in goods between groups of economies. The data are from the International Monetary Fund's (IMF) Direction of Trade database. All developed and 23 developing countries report trade on a timely basis, covering about 80 percent of trade for recent years. Trade by less timely reporters and by countries that do not report is estimated using reports of trading partner countries. Because the largest exporting and importing countries are reliable reporters, a large portion of the missing trade flows can be estimated from partner reports. Partner country data may introduce discrepancies due to smuggling, confidentiality, different exchange rates, overreporting of transit trade, inclusion or exclusion of freight rates, and different points of valuation and times of recording.

In addition, estimates of trade within the European Union (EU) have been significantly affected by changes in reporting methods following the creation of a customs union. The current system for collecting data on trade between EU members—Intrastat, introduced in 1993—has less exhaustive coverage than the previous customs-based system and has resulted in some problems of asymmetry (estimated imports are about 5 percent less than exports). Despite these issues,

only a small portion of world trade is estimated to be omitted from the IMF's *Direction of Trade Statistics Yearbook* and Direction of Trade database.

Most countries report their trade data in national currencies, which are converted into U.S. dollars using the IMF's published period average exchange rates (series rf or rh, monthly averages of the market or official rates) for the reporting country or, if those are not available, monthly average rates in New York. Because imports are reported at cost, insurance, and freight (c.i.f.) valuations, and exports at free on board (f.o.b.) valuations, the IMF adjusts country reports of import values by dividing them by 1.10 to estimate equivalent export values. This approximation is more or less accurate, depending on the set of partners and the items traded. Other factors affecting the accuracy of trade data include lags in reporting, recording differences across countries, and whether the country reports trade according to the general or special system of trade. (For further discussion of the measurement of exports and imports, see About the data for tables 4.4 and 4.5.)

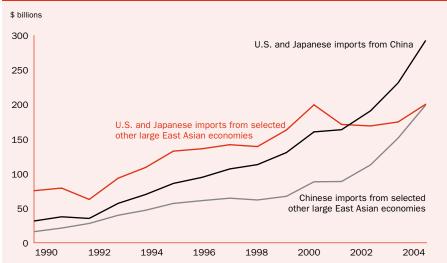
The regional trade flows shown in the table were calculated from current price values. The growth rates are presented in nominal terms; that is, they include the effects of changes in both volumes and prices.

Definitions

• Merchandise trade includes all trade in goods; trade in services is excluded. • High-income economies are those classified as such by the World Bank (see inside front cover). • European Union is defined as all high-income EU members: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, the Netherlands, Portugal, Slovenia, Spain, Sweden, and the United Kingdom. • Other high-income economies include all high-income economies (OECD and non-OECD) except the European Union, Japan, and the United States. • Low- and middle-income regional groupings are based on World Bank classifications and may differ from those used by other organizations.

6.3a

Triangular trade in manufactures between China, selected other large East Asian economies, and the United States and Japan



The strong rise in manufactured exports to China and Hong Kong, China, from selected large East Asian trading partners since the early 1990s has been accompanied by an almost equally strong rise in exports from China and Hong Kong, China, to the United States and Japan.

Note: Selected other large East Asian economies are Indonesia; Republic of Korea; Malaysia; Philippines; Taiwan, China; and Thailand.

Source: United Nations Statistic Division, Comtrade database

Data sources

Intercountry trade flows are published in the IMF's Direction of Trade Statistics Yearbook and Direction of Trade Statistics Quarterly; the data in the table were calculated using the IMF's Direction of Trade database.

High-income trade with low- and middle-income economies **6.4**



	High-incom	e countries	Europea	n Union	Jap	oan	United	States
	1994	2004	1994	2004	1994	2004	1994	2004
「otal (\$ billions)	56.6	118.9	27.0	52.3	8.1	11.1	6.2	15.8
% of total exports								
Food	9.0	6.8	9.4	7.4	0.7	0.5	22.8	13.3
Cereals	3.3	2.1	2.8	1.7	0.2	0.2	17.0	8.2
Agricultural raw materials	2.3	2.0	1.5	1.6	1.6	1.5	4.4	4.8
Ores and nonferrous metals	2.1	2.7	1.6	2.4	0.6	1.1	2.5	1.7
Fuels	4.7	5.8	2.5	3.5	0.9	0.8	0.8	1.8
Crude petroleum	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum products	3.9	4.1	2.4	3.4	0.8	0.4	0.8	1.0
Manufactured goods	78.8	79.1	81.2	82.9	95.3	92.3	65.8	74.5
Chemical products	12.0	11.7	12.6	12.7	5.9	6.5	12.8	12.2
Iron and steel	3.6	3.1	4.3	3.0	5.9	9.9	1.0	1.3
Machinery and transport equipment	45.0	41.5	41.0	40.6	71.6	61.6	41.9	46.2
Furniture	0.2	0.3	0.3	0.4	0.1	0.2	0.1	0.2
Textiles	6.2	5.5	2.8	2.6	4.0	4.6	4.7	5.6
Footwear	0.2	0.1	0.2	0.1	0.0	0.0	0.1	0.1
Other	11.6	16.9	19.9	23.5	7.7	9.4	5.3	9.0
Miscellaneous goods	3.0	3.5	3.8	2.2	0.8	3.9	3.7	3.9
Imports from low-income economie	es							
Total (\$ billions)	63.1	151.8	32.2	61.9	7.3	11.2	15.5	53.6
6 of total imports								
Food	19.7	12.4	22.7	16.9	26.9	19.0	9.4	6.8
Cereals	0.7	0.4	0.3	0.4	0.5	0.1	0.2	0.2
Agricultural raw materials	7.0	2.6	8.6	4.6	10.5	2.0	1.5	0.8
Ores and nonferrous metals	5.7	3.6	5.0	5.1	15.6	8.7	2.2	9.0
uels	22.9	25.2	17.1	11.9	13.7	31.0	36.3	37.
Crude petroleum	21.4	21.4	16.6	9.0	10.3	27.5	33.5	34.6
Petroleum products	1.4	2.6	0.3	0.9	2.8	1.5	2.7	2.5
Manufactured goods	44.2	55.7	46.0	61.0	32.7	38.8	50.1	53.5
Chemical products	2.1	3.3	2.1	3.5	1.0	2.9	1.8	2.4
Iron and steel	1.0	1.9	0.4	2.1	2.0	1.6	1.2	1.9
Machinery and transport equipment	2.6	5.1	2.7	5.9	0.3	9.9	1.7	3.2
Furniture	0.2	1.4	0.2	1.5	0.4	1.7	0.1	1.4
Textiles	26.1	26.6	27.0	29.9	16.9	10.9	27.8	30.6
Footwear	1.1	3.5	1.6	6.4	0.2	2.3	0.6	1.2
Other	11.1	14.0	11.9	11.6	11.9	9.6	16.8	12.8
Miscellaneous goods	0.5	0.5	0.7	0.4	0.6	0.5	0.5	0.7
Simple applied tariff rates on import	s from low-ii	ncome econom	ies (%)					
ood	2.8	2.5	2.9	3.6	6.7	5.6	1.2	3.2
Cereals	5.3	2.3	13.0	1.5	13.0	11.3	1.0	1.0
Agricultural raw materials	0.3	0.6	0.2	0.2	0.3	0.4	0.2	0.3
Ores and nonferrous metals	0.4	0.5	0.2	0.5	0.2	0.1	0.2	0.2
Fuels	0.9	0.6	0.2	0.1	1.0	0.3	2.6	0.6
Crude petroleum	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum products	1.5	0.9	0.3	0.1	1.6	0.6	2.6	1.3
Manufactured goods	3.9	3.1	1.2	0.9	2.5	2.7	5.4	4.6
Chemical products	1.3	1.3	0.5	0.5	0.9	0.4	2.0	1.
Iron and steel	2.4	1.1	0.8	1.1	0.3	0.4	4.7	0.3
Machinery and transport equipment	0.8	0.8	0.8	0.2	0.0	0.0	0.6	0.3
Furniture	2.3	2.3	0.2	0.2	0.0	0.0	0.8	1.0
Textiles	8.9	6.9	4.1	3.0	4.9	5.8	11.6	10.3
Footwear	9.0	7.0	1.0	3.4	13.0	11.1	14.5	9.2
Other	5.0	4.0	1.8	1.3	2.9	3.6	6.6	9.2 5.8
Viscellaneous goods	0.6	0.2	0.5	0.5	0.0	0.0	1.7	0.1
กเองอเเสเเองนอ ซูงงนอ	3.9	2.9	1.4	1.1	2.9	2.8	4.6	4.2



High-income trade with low- and middle-income economies

	High-incom	ne countries	Furones	an Union	la la	pan	linited	States
	nigh-ilicol	ne countries	Europea	an omon	Ja	pan	Onited	States
	1994	2004	1994	2004	1994	2004	1994	2004
Total (\$ billions)	565.7	1,309.6	207.5	544.8	85.2	161.9	134.7	252.8
% of total exports								
Food	7.2	4.8	9.0	5.0	0.4	0.3	9.7	8.7
Cereals	1.7	1.0	1.4	0.7	0.1	0.0	3.4	2.8
Agricultural raw materials	2.1	1.9	1.3	1.4	0.9	0.9	3.2	3.5
Ores and nonferrous metals	1.7	2.5	1.5	1.9	1.1	2.3	1.6	2.4
Fuels	2.5	2.4	1.7	1.5	0.8	0.7	2.1	2.9
Crude petroleum	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0
Petroleum products	2.0	1.9	1.3	1.3	0.7	0.6	1.5	2.4
Manufactured goods	83.4	85.6	82.5	87.9	95.9	92.2	79.3	79.3
Chemical products	10.2	12.3	11.7	13.3	6.0	8.8	10.4	12.2
Iron and steel	3.0	3.0	2.9	3.2	6.5	6.3	1.0	1.0
Machinery and transport equipment	48.3	50.7	46.2	49.4	68.2	62.1	49.1	48.4
Furniture	0.6	0.5	0.9	0.8	0.1	0.2	0.7	0.5
Textiles	7.4	5.6	6.2	5.4	3.4	2.8	5.7	5.6
Footwear	0.3	0.2	0.5	0.3	0.0	0.0	0.1	0.0
Other	13.6	13.4	14.3	15.5	11.7	12.0	12.2	11.6
Miscellaneous goods	3.1	2.7	4.0	2.3	0.9	3.6	4.0	3.2
•				-	-			
Imports from middle-income econo					•			
「otal (\$ billions)	622.1	1,833.7	213.2	674.0	80.5	186.4	187.9	606.6
% of total imports								
Food	12.7	6.7	16.1	8.3	19.5	9.8	8.7	4.9
Cereals	0.6	0.3	0.2	0.3	2.2	0.3	0.2	0.3
Agricultural raw materials	3.4	1.6	4.4	2.1	6.5	2.4	1.6	1.:
Ores and nonferrous metals	5.4	4.0	7.1	4.7	9.9	7.9	3.4	2.:
uels	14.5	15.6	19.2	18.6	20.6	15.8	12.4	15.8
Crude petroleum	9.5	10.1	12.1	12.2	11.8	7.2	9.1	12.0
Petroleum products	2.5	2.7	3.5	3.3	1.3	1.5	2.9	2.
Manufactured goods	62.1	70.7	50.2	65.0	42.6	62.9	71.7	73.9
Chemical products	3.4	3.2	4.6	3.4	2.6	3.2	2.6	2.6
Iron and steel	2.4	2.6	2.4	3.0	1.8	1.4	2.3	2.3
Machinery and transport equipment	20.3	33.4	11.9	29.4	8.7	27.8	29.5	35.9
Furniture	1.4	2.4	1.5	2.3	1.6	1.7	1.6	3.4
Textiles	15.3	10.3	15.8	10.5	15.0	12.0	13.1	9.2
Footwear	3.2	1.7	1.8	1.3	1.4	1.2	4.6	2.4
Other	16.0	17.0	12.1	15.2	11.5	15.7	18.1	18.0
discellaneous goods	1.9	1.4	3.1	1.3	1.0	1.2	2.2	2.2
viscellarieous goods	1.5	1.4	5.1	1.3	1.0	1.2	2.2	
imple applied tariff rates on import								
ood	5.6	3.7	9.4	3.6	9.4	7.9	1.6	2.7
Cereals	6.5	3.1	18.2	1.5	15.6	13.7	1.3	0.0
Agricultural raw materials	0.7	0.6	0.9	0.2	0.3	0.4	0.5	0.3
Ores and nonferrous metals	1.1	0.5	1.4	0.5	0.3	0.1	0.8	0.9
- Tuels	1.0	0.7	1.0	0.1	0.6	0.6	1.1	1.4
Crude petroleum	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Petroleum products	1.6	1.0	1.5	0.1	1.4	1.0	1.7	2.:
Manufactured goods	5.0	2.7	3.6	0.9	1.8	2.2	4.6	2.8
Chemical products	2.8	1.1	3.1	0.5	0.8	0.4	2.3	1.0
Iron and steel	3.2	1.0	3.2	1.1	0.8	0.3	4.1	0.:
Machinery and transport equipment	2.2	1.1	1.6	0.2	0.0	0.0	1.2	0.:
Furniture	3.7	2.8	1.5	0.0	0.0	0.0	0.8	0
Textiles	11.4	7.1	8.5	2.9	5.0	6.8	11.5	8.
Footwear	12.1	7.6	4.6	3.4	16.1	18.7	14.0	8.9
		·· · ········				·· · ·····	5.9	4.0
Other	6.3	3.7	4.5	1.3	2.5	3.3	•	• · · · · · · · · · · · · · · · · · · ·
Aiscellaneous goods	1.5	0.5	1.9	0.5	0.0	0.0	1.3	0.3
Average	4.8	2.7	3.9	1.1	2.6	2.7	4.0	2.

Note: Data for 1993 were used in the computation when data for 1994 were not available, and data for 2003 when data for 2004 were not available.

High-income trade with low- and middle-income economies

6.4

About the data

Developing countries are becoming increasingly important in the global trading system. Since the early 1990s trade between high-income countries and low- and middle-income economies has grown faster than trade among high-income economies. The increased trade benefits consumers and producers. But as the World Trade Organization's (WTO) Ministerial Conferences in Doha, Oatar, in October 2001. Cancun. Mexico. in September 2003, and Hong Kong, China, in December 2005 showed, achieving a more pro-development outcome from trade remains a challenge. Meeting it will require strengthening international consultation. Negotiations after the Doha meetings were launched on services, agriculture, manufactures, WTO rules, the environment, dispute settlement, intellectual property rights protection, and disciplines on regional integration. At the most recent negotiations in Hong Kong, China, trade ministers agreed to eliminate subsidies of agricultural exports by 2013; to abolish cotton export subsidies in 2006 and grant unlimited export access to selected cotton-growing countries in Sub-Saharan Africa; to cut more domestic farm supports in the European Union, Japan, and the United States; and to offer more aid to developing countries to help them compete in global trade.

Trade flows between high-income countries and low- and middle-income economies reflect the changing mix of exports to and imports from developing economies. While food and primary commodities have continued to fall as a share of high-income countries' imports, the share of manufactures in goods imports from both low- and middle-income

countries has grown. Moreover, trade between developing countries has grown substantially over the past decade. This growth has resulted from many factors, including developing countries' increasing share of world output and the liberalization of their trade.

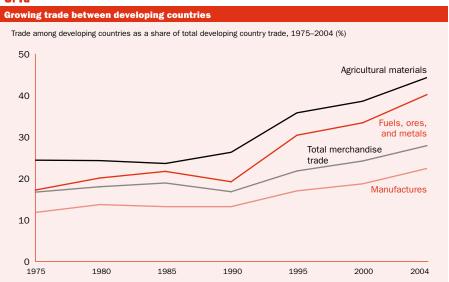
Yet trade barriers remain high. The table includes information about tariff rates by selected product groups. Applied tariff rates are the tariffs in effect for partners in preferential trade agreements such as the North American Free Trade Agreement. When these are unavailable, most favored nation rates are used. The difference between most favored nation and applied rates can be substantial. Simple averages of applied rates are shown because they are generally a better indicator of tariff protection.

The data are from the United Nations Conference on Trade and Development (UNCTAD). Partner country reports by high-income countries were used for both exports and imports. Exports are recorded free on board (f.o.b.); imports include insurance and freight charges (c.i.f.). Because of differences in sources of data, timing, and treatment of missing data, the numbers in the table may not be fully comparable with those used to calculate the direction of trade statistics in table 6.3 or the aggregate flows in tables 4.4, 4.5, and 6.2. Data are classified using the Harmonized System of trade at the six- or eight-digit level. Tariff line data were matched to Standard International Trade Classification (SITC) revision 1 codes to define commodity groups. For further discussion of merchandise trade statistics, see About the data for tables 4.4, 4.5, 6.2, and 6.3, and for information about tariff barriers, see table 6.7.

Definitions

The product groups in the table are defined in accordance with the SITC revision 1: food (0, 1, 22, and 4) and cereals (04); agricultural raw materials (2 excluding 22, 27, and 28); ores and nonferrous metals (27, 28, and 68); fuels (3), crude petroleum (331), and petroleum products (332); manufactured goods (5-8 excluding 68), chemical products (5), iron and steel (67), machinery and transport equipment (7). furniture (82), textiles (65 and 84), footwear (85), and other manufactured goods (6 and 8 excluding 65, 67, 68, 82, 84, and 85); and miscellaneous goods (9). • Exports are all merchandise exports by highincome OECD countries to low-income and middleincome economies as recorded in the United Nations Statistics Division's Comtrade database. • Imports are all merchandise imports by high-income countries from low-income and middle-income economies as recorded in the United Nations Statistics Division's Comtrade database. • High-, middle-, and lowincome economies are those classified as such by the World Bank (see inside front cover). • European Union is defined as all high-income EU members: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, the Netherlands, Portugal, Slovenia, Spain, Sweden, and the United Kingdom.

6.4a



As developing countries' share in global trade has steadily increased over the past three decades, the share of trade among developing countries has greatly increased, especially since 1990.

Source: United Nations Statistics Division, Comtrade database.

Data sources

Trade values are from United Nations Statistics Division's Comtrade database. Tariff data are from UNCTAD's Trade Analysis and Information System database and are calculated by World Bank staff using the World Integrated Trade Solution system.





Primary commodity prices

	1970	1980	1990	1995	2000	2001	2002	2003	2004	2005
World Bank commodity price index (1990 = 100)			•		•	•	•	•		
Nonenergy commodities	156	159	100	104	89	84	89	91	100	111
Agriculture	163	175	100	112	90	84	93	95	98	103
Beverages	203	230	100	129	91	76	91	87	88	107
Food	166	177	100	100	87	91	97	96	103	100
Raw materials	130	133	100	116	93	81	89	98	99	104
Fertilizers	108	164	100	88	109	105	108	106	118	123
Metals and minerals	144	120	100	87	85	80	78	82	105	130
Petroleum	19	204	100	64	127	113	117	126	154	213
Steel products ^a	111	100	100	91	79	71	73	79	114	126
MUV G-5 index	28	79	100	117	97	94	93	100	107	110
Commodity prices (1990 prices)										
Agricultural raw materials		•	•		•	•				•
Cotton (cents/kg)	225	260	182	182	134	112	109	140	128	111
Logs, Cameroon (\$/cu. m) ^a	153	319	344	290	283	282				
Logs, Malaysian (\$/cu. m)	154	248	177	218	195	169	175	187	184	185
Rubber (cents/kg)	145	181	86	135	69	61	82	108	122	137
Sawnwood, Malaysian (\$/cu. m)	625	503	533	632	612	510	565	550	543	601
Tobacco (\$/mt)	3,836	2,887	3,392	2,258	3,063	3,185	2,947	2,643	2,561	2,524
Beverages (cents/kg)										
Cocoa	240	330	127	122	93	113	191	175	145	140
Coffee, robustas	330	411	118	237	94	64	71	81	74	102
Coffee, Arabica	409	440	197	285	198	146	146	141	166	231
Tea, avg., 3 auctions	298	211	206	127	193	169	162	151	157	150
Energy										
Coal, Australian (\$/mt)		50	40	34	27	34	29	28	51	45
Coal, U.S. (\$/mt)		55	42	33	34	48	43			
Natural gas, Europe (\$/mmbtu)	••	4	3	2	4	4	3	4	4	6
Natural gas, U.S. (\$/mmbtu)	1	2	2	1	4	4	4	5	6	8
Petroleum (\$/bbl)	4	47	23	15	29	26	27	29	35	49

About the data

Primary commodities—raw or partially processed materials that will be transformed into finished goods—are often the most significant exports of developing countries, and revenues obtained from them have an important effect on living standards. Price data for primary commodities are collected from a variety of sources, including trade journals, international study groups, government market surveys, newspaper and wire service reports, and commodity exchange spot and near-term forward prices.

The table is based on frequently updated price reports. When possible, the prices received by exporters are used; if export prices are unavailable,

the prices paid by importers are used. Annual price series are generally simple averages based on higher frequency data. The constant price series in the table is deflated using the manufactures unit value (MUV) index for the Group of Five (G-5) countries (see below).

The commodity price indexes are calculated as Laspeyres index numbers, in which the fixed weights are the 1987–89 export values for low- and middle-income economies, rebased to 1990. Each index represents a fixed basket of primary commodity exports. The nonenergy commodity price index contains 37 price series for 31 nonenergy commodities. Separate

indexes are compiled for petroleum and steel products, which are not included in the nonenergy commodity price index.

The MUV index is a composite index of prices for manufactured exports from the five major (G-5) industrial countries (France, Germany, Japan, the United Kingdom, and the United States) to low-and middle-income economies, valued in U.S. dollars. The index covers products in groups 5–8 of the Standard International Trade Classification revision 1. To construct the MUV G-5 index, unit value indexes for each country are combined using weights determined by each country's export share.

	1970	1980	1990	1995	2000	2001	2002	2003	2004	2005
Commodity prices (continued)					•	•		•		•
(1990 prices)										_
Fertilizers (\$/mt)										
Phosphate rock	39	59	41	30	45	44	43	38	38	38
TSP	152	229	132	128	142	135	143	149	174	184
Food					•	•		•		
Fats and oils (\$/mt)			•	•	•	•				••••
Coconut oil	1,417	855	337	572	463	337	452	467	617	562
Groundnut oil	1,350	1,090	964	846	734	721	738	1,242	1,085	968
Palm oil	927	740	290	536	319	303	419	443	440	385
Soybeans	417	376	247	221	218	208	228	264	286	250
Soybean meal	367	332	200	168	195	192	188	211	225	195
Soybean oil	1,021	758	447	534	348	375	488	553	576	497
Grains (\$/mt)										
Sorghum	185	164	104	102	91	101	109	106	103	88
Maize	208	159	109	105	91	95	107	105	104	90
Rice	450	521	271	274	208	183	206	197	222	261
Wheat	196	219	136	151	117	134	159	146	147	139
Other food						_				
Bananas (\$/mt)	590	481	541	380	436	618	568	374	490	550
Beef (cents/kg)	465	350	256	163	199	226	226	198	235	239
Oranges (\$/mt)	599	496	531	454	374	631	606	680	803	800
Sugar, EU domestic (cents/kg)	40	62	58	59	57	56	59	60	63	61
Sugar, U.S. domestic (cents/kg)	59	84	51	43	44	50	50	47	42	43
Sugar, world (cents/kg)	29	80	28	25	19	20	16	16	15	20
Metals and minerals					•					
Aluminum (\$/mt)	1,982	1,847	1,639	1,542	1,594	1,531	1,449	1,430	1,603	1,732
Copper (\$/mt)	5,038	2,768	2,662	2,508	1,866	1,673	1,674	1,777	2,678	3,357
Iron ore (cents/dmtu)	35	36	33	24	30	32	31	32	35	59
Lead (cents/kg)	108	115	81	54	47	50	49	51	83	89
Nickel (\$/mt)	10,148	8,270	8,864	7,028	8,888	6,303	7,271	9,617	12,915	13,453
Tin (cents/kg)	1,310	2,128	609	531	559	475	436	489	795	673
Zinc (cents/kg)	105	97	151	88	116	94	84	83	98	126

a. Series not included in the nonenergy index.

Definitions

• Nonenergy commodity price index covers the 31 nonenergy primary commodities that make up the agriculture, fertilizer, and metals and minerals indexes. • Agriculture includes beverages, food, and agricultural raw materials. • Beverages include cocoa, coffee, and tea. • Food includes rice, wheat, maize, sorghum, soybeans, soybean oil, soybean meal, palm oil, coconut oil, groundnut oil, bananas, beef, oranges, and sugar. • Agricultural raw materials include cotton, timber (logs and sawnwood), natural rubber, and tobacco. • Fertilizers include phosphate rock and triple superphosphate (TSP).

• Metals and minerals include aluminum, copper,

iron ore, lead, nickel, tin, and zinc. • Petroleum price index refers to the average spot price of Brent, Dubai, and West Texas Intermediate crude oils, equally weighted. • Steel products price index is the composite price index for eight steel products based on quotations free on board (f.o.b.) Japan excluding shipments to China and the United States, weighted by product shares of apparent combined consumption (volume of deliveries) for Germany, Japan, and the United States. • MUV G-5 index is the manufactures unit value index for G-5 country exports to low- and middle-income economies. • Commodity prices—for definitions and sources, see "Commodity Price Data"

(also known as the "Pink Sheet") at the Global Prospects Web site (www.worldbank.org/prospects).

Data sources

Data on commodity prices and the MUV G-5 index are compiled by the World Bank's Development Prospects Group. Monthly updates of commodity prices are available on the Web at www.worldbank.org/prospects.





Regional trade blocs

Merchandise exports within bloc

	Year of					\$ millions				
	creation	1990	1995	1998	1999	2000	2001	2002	2003	2004
High-income and low-							•			•
and middle-income economies										
APEC ^a	1989	901,560	1,688,708	1,734,386	1,896,213	2,261,791	2,070,973	2,168,705	2,420,758	2,903,670
CEFTA	1992	4,235	12,118	14,234	13,226	15,123	17,054	19,180	25,309	37,340
CIS	1991		29,943	27,037	20,842	27,043	22,264	28,029	36,466	40,340
EMFTA	1995	1,057,338	1,366,726	1,341,891	1,522,340	1,548,718	1,526,481	1,620,324	1,952,123	2,315,677
European Union	1957	981,260	1,259,699	1,223,801	1,396,574	1,409,464	1,398,298	1,480,493	1,782,423	2,089,442
FTAA	1994	300,700	525,346	682,067	734,848	857,300	812,144	787,492	830,495	969,106
NAFTA	1994	226,273	394,472	521,649	581,161	676,141	639,419	626,020	651,060	737,591
Africa	•	•			•			•		•
CEMAC	1994	139	120	153	127	97	118	136	148	176
CEPGL	1976	7	8	8	9	10	11	13	15	19
COMESA	1994	963	1,386	1,501	1,348	1,536	1,496	1,786	2,189	2,848
Cross Border Initiative	1992	613	1,002	1,156	964	1,058	849	1,169	1,370	1,700
EAC	1996	230	530	555	438	485	453	479	573	753
ECCAS	1983	163	163	198	179	191	203	199	198	238
ECOWAS	1975	1,557	1,936	2,350	2,364	2,835	2,371	3,229	3,147	3,973
Indian Ocean Commission	1984	73	127	95	91	106	134	105	179	155
MRU	1973	0	1	2	4	5	4	5	5	6
SADC	1992	1,630	3,373	3,865	4,224	4,282	3,771	4,316	5,377	6,384
UDEAC	1964	139	120	152	126	96	117	134	146	174
UEMOA	1994	621	560	752	805	741	775	857	1,078	1,283
Latin America and the Caribbean					•••			•••••		•
ACS	1994	5,398	11,049	12,505	11,199	16,326	15,543	15,464	16,090	21,839
Andean Group	1969	1,312	4,812	5,408	3,929	5,310	5,623	5,070	5,203	7,094
CACM	1961	667	1,594	2,010	2,175	2,657	2,535	2,574	2,734	3,554
CARICOM	1973	448	867	1,020	1,136	1,050	1,420	1,184	1,410	1,797
Central American Group of Four	1993	399	1,026	1,230	1,369	1,838	1,712	1,737	1,843	2,297
Group of Three	1995	1,046	3,460	3,921	2,912	3,721	4,178	3,839	3,367	5,664
LAIA (ALADI)	1980	12,331	35,299	42,959	34,785	42,911	40,795	36,060	40,250	55,639
MERCOSUR	1991	4,127	14,199	20,352	15,313	17,829	15,156	10,228	12,732	17,470
OECS	1981	29	39	36	37	38	37	40	48	60
Middle East and Asia										
Arab Common Market	1964	911	1,368	978	951	1,312	1,728	1,998	1,797	6,297
ASEAN	1967	27,365	79,544	69,809	77,889	98,060	86,331	91,765	101,140	122,369
Bangkok Agreement	1975	4,476	12,066	12,851	14,463	16,844	16,733	17,957	21,809	24,925
EAEC	1990	281,067	634,606	549,010	612,415	772,423	698,552	779,390	940,963	1,177,295
ECO	1985	1,243	4,746	4,031	3,903	4,518	4,498	5,016	7,539	9,371
GAFTA	1997	13,313	13,129	13,548	13,752	16,238	17,528	19,195	21,511	36,027
GCC	1981	6,906	6,832	7,358	7,306	7,958	8,103	8,899	9,580	12,532
SAARC	1985	863	2,024	2,466	2,180	2,593	2,827	3,402	4,873	5,706
UMA	1989	958	1.109	881	919	1,094	1,137	1,202	1,338	1,372

Note: Regional bloc memberships are as follows: Asia Pacific Economic Cooperation (APEC), Australia, Brunei Darussalam, Canada, Chile, China, Hong Kong (China), Indonesia, Japan, the Republic of Korea, Malaysia, Mexico, New Zealand, Papua New Guinea, Peru, the Philippines, the Russian Federation, Singapore, Taiwan (China), Thailand, the United States, and Vietnam; Central European Free Trade Area (CEFTA), Bulgaria, the Czech Republic, Hungary, Poland, Romania, the Slovak Republic, and Slovenia; Commonwealth of Independent States (CIS), Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, the Kyrgyz Republic, Moldova, the Russian Federation, Tajikistan, Ukraine, and Uzbekistan; Euro-Mediterranean Free Trade Area (EMFTA), European Union, Algeria, Cyprus, Egypt, Israel, Jordan, Lebanon, Malta, Morocco, Syrian Arab Republic, Tunisia, Turkey, and West Bank and Gaza; European Union (EU; formerly European Economic Community and European Community), Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom; Free Trade Areas of the Americas (FTAA), Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Republica Bolivariana de Venezuela, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, the United States, and Uruguay; North American Free Trade Area (NAFTA), Canada, Mexico, and the United States; Economic and Monetary Community of Central Africa (CEMAC), Cameroon, the Central African Republic, Chad, the Republic of Congo, Equatorial Guinea, Gabon, and São Tomé and Principe; Economic Community of the Countries of the Great Lakes (CEPGL), Burundi, the Democratic Republic of Congo, and Rwanda; Common Market for Eastern and Southern Africa (COMESA), Angola, Burundi, Comoros, the Democratic Republic of Congo, Djibouti, the Arab Republic of Egypt, Eritrea, Ethiopia, Kenya, Madagascar, Malawi, Mauritius, Namibia, Rwanda, Seychelles, Sudan, Swaziland, Uganda, Tanzania, Zambia, and Zimbabwe; Cross Border Initiative, Burundi, Comoros, Kenya, Madagascar, Malawi, Mauritius, Namibia, Rwanda, Seychelles, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe; East African Community (EAC), Kenya, Tanzania, and Uganda; Economic Community of Central African States (ECCAS), Angola, Burundi, Cameroon, the Central African Republic, Chad, the Democratic Republic of Congo, the Republic of Congo, Equatorial Guinea, Gabon, Rwanda, and São Tomé and Principe; Economic Community of West African States (ECOWAS), Benin, Burkina Faso, Cape Verde, Côte d'Ivoire, the Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, and Togo: Indian Ocean Commission, Comoros, Madagascar, Mauritius, Réunion, and Sevchelles; Mano River Union (MRU), Guinea, Liberia, and Sierra Leone; Southern African Development Community (SADC; formerly Southern African Development Coordination Conference), Angola, Botswana, the Democratic Republic of Congo,

a. No preferential trade agreement.

Regional trade blocs

6.6

Merchandise exports within bloc

	Year of				% of	total bloc ex	ports			
	creation	1990	1995	1998	1999	2000	2001	2002	2003	2004
High-income and low-	···•		•		•					•
and middle-income economies										
APEC ^a	1989	68.3	71.8	69.7	71.8	73.1	72.6	73.4	72.6	72.0
CEFTA	1992	9.9	14.6	13.0	12.1	12.2	12.4	12.2	12.5	13.9
CIS	1991		27.6	26.6	20.7	19.2	18.2	18.8	19.6	16.7
EMFTA	1995	68.5	65.3	60.0	65.8	64.6	63.3	63.3	63.9	63.6
European Union	1957	65.9	62.4	56.8	62.9	61.6	60.8	60.6	61.2	60.7
FTAA	1994	46.6	52.5	58.1	59.7	60.7	60.6	60.8	60.1	60.1
NAFTA	1994	41.4	46.2	51.7	54.6	55.7	55.5	56.6	56.1	55.9
Africa										•
CEMAC	1994	2.3	2.1	2.3	1.7	1.1	1.4	1.5	1.4	1.3
CEPGL	1976	0.5	0.5	0.6	0.8	0.8	0.8	0.9	1.3	1.2
COMESA	1994	6.6	7.7	8.7	7.4	5.7	6.4	6.4	6.6	6.7
Cross Border Initiative	1992	10.3	11.9	13.9	12.1	10.6	9.0	12.3	11.4	13.2
EAC	1996	13.4	17.4	19.0	14.4	16.1	13.7	13.3	14.0	14.6
ECCAS	1983	1.4	1.5	1.8	1.3	1.1	1.3	1.1	1.0	0.9
ECOWAS	1975	7.9	9.0	10.7	10.4	7.9	8.5	10.9	8.6	8.5
Indian Ocean Commission	1984	4.1	6.0	4.7	4.8	4.4	5.6	4.3	6.1	4.3
MRU	1973	0.0	0.1	0.1	0.4	0.4	0.3	0.2	0.3	0.3
SADC	1992	4.8	8.7	10.4	11.9	9.3	8.6	9.5	9.8	9.5
UDEAC	1964	2.3	2.1	2.3	1.7	1.0	1.4	1.4	1.4	1.2
UEMOA	1994	13.0	10.3	11.0	13.1	13.1	12.7	12.2	13.3	13.9
Latin America and the Caribbean	*	13.0	10.5	11.0	13.1	13.1	12.1	12.2	13.3	13.3
ACS	1994	8.4	8.5	7.2	5.6	6.7	6.8	6.7	6.6	7.6
Andean Group	1969	4.1	12.0	12.8	8.8	8.8	10.6	9.5	8.6	8.7
CACM	1961	15.3	21.8	15.8	13.6	17.3	17.9	17.5	16.8	20.0
CARICOM	1973	8.1	12.1	17.3	16.9	14.7	16.5	13.8	12.4	12.5
Central American Group of Four	1973	13.7	22.2	17.3	14.6	19.2	18.7	18.4	18.2	20.0
Group of Three	1995	2.0	3.2	2.6	1.7	1.7	2.1	1.9	1.6	2.3
	···•·····		3.2 17.1		•		12.8			*
LAIA (ALADI)	1980	10.8 8.9		16.7 25.0	12.7	12.8	••	11.2	11.4	12.6 12.6
MERCOSUR	1991		20.3		20.6	20.0	17.1	11.5	11.9	•
OECS	1981	8.1	12.6	12.0	13.1	10.0	6.0	4.0	7.6	11.6
Middle East and Asia	1001	0.7								7.0
Arab Common Market	1964	2.7	6.7	4.8	3.3	2.9	4.4	5.1	4.1	7.9
ASEAN	1967	19.0	24.6	21.2	21.7	23.0	22.4	22.7	22.2	22.2
Bangkok Agreement	1975	3.7	5.0	5.0	5.1	5.1	5.5	5.5	5.7	5.2
EAEC	1990	39.7	47.9	42.0	43.8	46.6	46.6	48.2	49.4	49.8
ECO	1985	3.2	7.9	6.8	5.8	5.6	5.5	5.9	6.7	6.3
GAFTA	1997	10.3	9.9	11.0	8.9	7.2	8.4	9.3	8.5	10.2
GCC	1981	8.0	6.8	8.0	6.7	4.8	5.2	5.9	5.1	5.0
SAARC	1985	3.2	4.4	4.8	4.0	4.1	4.3	4.8	5.7	5.6
UMA	1989	2.9	3.8	3.3	2.5	2.3	2.6	2.8	2.4	1.9

Lesotho, Malawi, Mauritius, Mozambique, Namibia, Sevchelles, South Africa, Swaziland, Tanzania, Zambia, and Zimbabwe; Central African Customs and Economic Union (UDEAC; formerly Union Douanière et Economique de l'Afrique Centrale), Cameroon, the Central African Republic, Chad, the Republic of Congo, Equatorial Guinea, and Gabon; West African Economic and Monetary Union (UEMOA), Benin, Burkina Faso, Côte d'Ivoire, Guinea-Bissau, Mali, Niger, Senegal, and Togo; Association of Caribbean States (ACS), Antigua and Barbuda, the Bahamas, Barbados, Belize, Colombia, Costa Rica, Cuba, Dominica, the Dominican Republic, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, and República Bolivariana de Venezuela; Andean Group, Bolivia, Colombia, Ecuador, Peru, and República Bolivariana de Venezuela; Central American Common Market (CACM), Costa Rica, El Salvador, Guatemala, Honduras, and Nicaragua; Caribbean Community and Common Market (CARICOM), Antigua and Barbuda, the Bahamas (part of the Caribbean Community but not of the Common Market), Barbados, Belize, Dominica, Grenada, Guyana, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, and Trinidad and Tobago; Central American Group of Four, El Salvador, Guatemala, Honduras, and Nicaragua; Group of Three, Colombia, Mexico, and República Bolivariana de Venezuela; Latin American Integration Association (LAIA; formerly Latin American Free Trade Area), Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Mexico, Paraguay, Peru, Uruguay, and República Bolivariana de Venezuela; Southern Cone Common Market (MERCOSUR), Argentina, Brazil, Paraguay, and Uruguay; Organization of Eastern Caribbean States (OECS), Antigua and Barbuda, Dominica, Grenada, Montserrat, St. Kitts and Nevis, St. Lucia, and St. Vincent and the Grenadines; Arab Common Market, the Arab Republic of Egypt, Iraq, Jordan, Libya, Mauritania, the Syrian Arab Republic, and the Republic of Yemen; Association of South-East Asian Nations (ASEAN), Brunei, Cambodia, Indonesia, the Lao People's Democratic Republic, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam; Bangkok Agreement, Bangladesh, India, the Republic of Korea, the Lao People's Democratic Republic, the Philippines, Sri Lanka, and Thailand; East Asia Economic Caucus (EAEC, formerly East Asia Economic Group), Brunei, China, Hong Kong (China), Indonesia, Japan, the Republic of Korea, Malaysia, the Philippines, Singapore, Taiwan (China), and Thailand; Economic Cooperation Organization (ECO), Afghanistan, Azerbaijan, the Islamic Republic of Iran, Kazakhstan, the Kyrgyz Republic, Pakistan, Tajikistan, Turkey, Turkmenistan, and Uzbekistan; Gulf Cooperation Council (GCC), Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates; South Asian Association for Regional Cooperation (SAARC), Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka; and Arab Maghreb Union (UMA), Algeria, Libya, Mauritania, Morocco, and Tunisia.





6.6 Regional trade blocs

Total merchandise exports by bloc

	Year of									
	creation	1990	1995	1998	1999	2000	2001	2002	2003	2004
High-income and low-			•	••••••	•	•		•	•	•
and middle-income economies										
APEC ^a	1989	39.0	46.3	46.1	46.6	48.4	46.5	46.0	44.5	44.3
CEFTA	1992	1.3	1.6	2.0	1.9	1.9	2.2	2.4	2.7	2.9
CIS	1991		2.1	1.9	1.8	2.2	2.0	2.3	2.5	2.7
EMFTA	1995	45.6	41.2	41.4	40.8	37.5	39.2	39.9	40.7	40.0
European Union	1957	44.0	39.7	39.9	39.2	35.8	37.5	38.0	38.8	37.9
FTAA	1994	19.1	19.7	21.8	21.7	22.1	21.8	20.2	18.4	17.7
NAFTA	1994	16.2	16.8	18.7	18.8	19.0	18.7	17.2	15.5	14.5
Africa			•		•	•		•	•	•
CEMAC	1994	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
CEPGL	1976	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
COMESA	1994	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.5
Cross Border Initiative	1992	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1
EAC	1996	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ECCAS	1983	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3
ECOWAS	1975	0.6	0.4	0.4	0.4	0.6	0.5	0.5	0.5	0.5
Indian Ocean Commission	1984	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MRU	1973	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SADC	1992	1.0	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7
UDEAC	1964	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
UEMOA	1994	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Latin America and the Caribbean					•					•
ACS	1994	1.9	2.6	3.2	3.5	3.8	3.7	3.6	3.3	3.2
Andean Group	1969	0.9	0.8	0.8	0.8	1.0	0.9	0.8	0.8	0.9
CACM	1961	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.2
CARICOM	1973	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Central American Group of Four	1993	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Group of Three	1995	1.5	2.1	2.8	3.0	3.3	3.2	3.1	2.8	2.7
LAIA (ALADI)	1980	3.4	4.1	4.8	4.8	5.3	5.2	5.0	4.7	4.8
MERCOSUR	1991	1.4	1.4	1.5	1.3	1.4	1.4	1.4	1.4	1.5
OECS	1981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle East and Asia			•		•	••••••			•••••	•
Arab Common Market	1964	1.0	0.4	0.4	0.5	0.7	0.6	0.6	0.6	0.9
ASEAN	1967	4.3	6.4	6.1	6.3	6.7	6.3	6.3	6.1	6.1
Bangkok Agreement	1975	3.6	4.8	4.8	5.0	5.2	4.9	5.1	5.1	5.3
EAEC	1990	20.9	26.1	24.2	24.7	26.0	24.4	25.2	25.4	26.0
ECO	1985	1.1	1.2	1.1	1.2	1.3	1.3	1.3	1.5	1.6
GAFTA	1997	3.8	2.6	2.3	2.7	3.5	3.4	3.2	3.4	3.9
GCC	1981	2.5	2.0	1.7	1.9	2.6	2.5	2.3	2.5	2.7
SAARC	1985	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1
UMA	1989	1.0	0.6	0.5	0.6	0.7	0.7	0.7	0.7	0.8
					·····	·····			·····	

a. No preferential trade agreement.

Trade blocs are groups of countries that have established special preferential arrangements governing trade between members. Although in some cases the preferences—such as lower tariff duties or exemptions from quantitative restrictions—may be no greater than those available to other trading partners, such arrangements are intended to encourage exports by bloc members to one another—sometimes called intratrade.

Most countries are members of a regional trade bloc, and more than a third of the world's trade takes place within such arrangements. While trade blocs vary widely in structure, they all have the same main objective: to reduce trade barriers between member countries. But effective integration requires more than reducing tariffs and quotas. Economic gains from competition and scale may not be achieved unless other barriers that divide markets and impede the free flow of goods, services, and investments are lifted. For example, many regional trade blocs retain contingent protections or restrictions on intrabloc trade. These include antidumping, countervailing duties, and "emergency protection" to address balance of payments problems or to protect an industry from surges in imports. Other barriers include differing product standards, discrimination in public procurement, and cumbersome and costly border formalities.

Membership in a regional trade bloc may reduce the frictional costs of trade, increase the credibility of reform initiatives, and strengthen security among partners. But making it work effectively is challenging for any government. All sectors of an economy may be affected, and some sectors may expand while others contract, so it is important to weigh the potential costs and benefits that membership may bring.

The table shows the value of merchandise intratrade for important regional trade blocs (service exports are excluded) as well as the size of intratrade relative to each bloc's total exports of goods and the share of the bloc's total exports in world exports. Although the Asia Pacific Economic Cooperation (APEC) has no preferential arrangements, it is included in the table because of the volume of trade between its members.

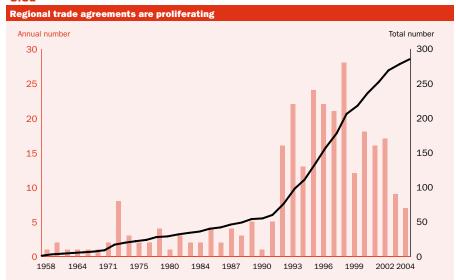
The data on country exports are drawn from the International Monetary Fund's (IMF) Direction of Trade database and should be broadly consistent with those from other sources, such as the United Nations Statistics Division's Commodity Trade (Comtrade) database. However, trade flows between many developing countries, particularly in Sub-Saharan Africa, are not well recorded. Thus the value of intratrade for certain groups may be understated. Data on trade between developing and high-income countries are generally complete.

Membership in the trade blocs shown is based on the most recent information available, from the World Bank Policy Research Report Trade Blocs (2000a), from the World Bank's Global Economic Prospects 2005, and from consultation with the World Bank's international trade unit. This year, the date of each trade bloc's creation has also been included. Although bloc exports have been calculated back to 1990 on the basis of current membership, several of the blocs came into existence in later years and their membership may have changed over time. For this reason, and because systems of preferences also change over time, intratrade in earlier years may not have been affected by the same preferences as in recent years. In addition, some countries belong to more than one trade bloc, so shares of world exports exceed 100 percent. Exports of blocs include all commodity trade, which may include items not specified in trade bloc agreements. Differences from previously published estimates may be due to changes in bloc membership or to revisions in the underlying data.

Definitions

• Merchandise exports within bloc are the sum of merchandise exports by members of a trade bloc to other members of the bloc. They are shown both in U.S. dollars and as a percentage of total merchandise exports by the bloc. • Total merchandise exports by bloc as a share of world exports are the ratio of the bloc's total merchandise exports (within the bloc and to the rest of the world) to total merchandise exports by all economies in the world.

6.6a



There are more than 250 regional trade agreements in force—six times as many as two decades ago. About a third of global trade takes place between countries that have some form of reciprocal regional trade agreement.

Source: World Bank 2005. Global Economic Prospects 2005.

Data sources

Data on merchandise trade flows are published in the IMF's *Direction of Trade Statistics Yearbook* and *Direction of Trade Statistics Quarterly*; the data in the table were calculated using the IMF's Direction of Trade database. The United Nations Conference on Trade and Development (UNCTAD) publishes data on intratrade in its *Handbook of International Trade and Development Statistics*. The information on trade bloc membership is from the World Bank Policy Research Report *Trade Blocs* (2000a), the World Bank's *Global Economic Prospects 2005*, and the World Bank's international trade unit.





		All products						Prin prod	-	Manufactured products	
	Most recent year	Binding coverage	Simple mean bound rate	Simple mean tariff	Weighted mean tariff	Share of lines with international peaks	Share of lines with specific rates	Simple mean tariff	6 Weighted mean tariff	Simple	% Weighted mean tariff
Albania	2002	100.0	7.0	8.3	8.4	0.0	0.0	9.2	7.7	8.2	8.7
Algeria	2003			17.9	12.0	39.4	0.0	18.1	10.5	17.8	12.5
Angola	2002			8.1	8.5	15.2	1.6	11.6	14.7	7.5	5.9
Argentina	2004 ^a	100.0	31.9	11.4	9.3	35.5	0.0	8.4	2.4	11.7	9.9
Armenia	2001	100.0	8.5	3.2	2.2	0.0	0.0	6.5	3.3	2.6	1.3
Australia	2005 ^a	97.1	10.0	4.2	3.1	5.6	0.2	1.5	0.7	4.6	3.6
Azerbaijan	2002			9.7	6.2	0.1	6.6	11.7	4.8	9.4	7.0
Bangladesh	2004	14.9	162.4	16.4	15.4	43.8	0.0	16.2	12.7	16.4	17.1
Belarus	2002	0.0		11.2	8.9	16.1	2.2	11.1	7.1	11.3	10.4
Belize	2003			12.9	11.4	38.9	0.4	20.1	13.3	11.7	10.8
Benin	2004	39.1	28.6	14.0	12.7	54.1	0.0	15.5	12.9	13.7	12.5
Bolivia	2004 ^a	100.0	40.0	7.5	5.4	0.0	0.0	7.6	5.0	7.5	5.6
Bosnia and Herzegovina Botswana	2001 ^a 2001 ^a	89.0	17.3	5.1 5.0	4.9 1.0	0.0 16.0	0.0 1.4	3.7 2.1	5.3 0.3	5.3 5.4	4.7 1.1
Brazil	2001 ^a	100.0	31.4	13.1	7.6	37.0	0.0	9.0	1.8	13.5	9.9
Brunei	2004 ^a	95.3	24.3	3.0	4.3	22.3	1.3	9.0	0.1	3.5	9.9 4.9
Bulgaria	2004 ^a	100.0	24.7	10.2	9.6	24.5	2.5	15.4	10.7	9.6	9.3
Burkina Faso	2004	39.3	41.9	13.2	11.4	49.5	0.0	13.7	11.3	13.1	11.5
Burundi	2002 ^a	20.9	67.6	20.0	14.7	32.6	0.6	22.4	10.6	19.6	16.9
Cambodia	2003 ^a			15.6	16.4	24.8	0.0	16.8	15.6	15.4	16.6
Cameroon	2002	31.0	79.9	18.1	15.0	49.5		21.1	16.5	17.7	14.4
Canada	2005 ^a	99.7	5.1	3.7	0.9	6.0	3.6	1.8	0.3	4.0	1.0
Chile	2004 ^a	100.0	25.1	4.9	3.8	0.0	0.0	4.4	2.4	4.9	4.4
China	2004	100.0	10.0	9.6	6.0	14.9	0.0	9.6	6.2	9.5	5.8
Colombia	2004 ^a	100.0	42.8	11.3	9.3	18.4	0.0	11.1	10.2	11.3	9.0
Congo, Dem. Rep.	2003			13.0	12.8	42.5	0.5	14.8	12.1	12.7	13.2
Costa Rica	2004 ^a	100.0	42.9	5.7	3.8	0.9	0.0	8.3	5.8	5.4	3.4
Côte d'Ivoire	2004	33.2	11.2	12.7	10.7	44.9	0.0	14.7	11.5	12.3	10.1
Croatia	2004	100.0	5.9	4.1	3.2	5.7	3.9	6.5	3.6	3.7	3.1
Cuba	2004	31.0	21.3	10.7	9.9	11.6		11.1	8.8	10.6	10.4
Czech Republic	2003	100.0	5.0	5.1	4.4	4.8	0.0	5.7	4.1	4.9	4.3
Djibouti	2002	100.0	40.9	30.9	26.8	92.3	2.3	21.9	19.7	32.6	32.3
Dominican Republic	2004	100.0	34.9	10.3	8.1	32.5	0.2	13.5	7.1	9.8	8.7
Ecuador	2004 ^a	99.9	21.8	11.5	9.0	20.5	0.0	10.7	6.6	11.5	9.5
Egypt, Arab Rep.	2002 2004 ^a	99.0 100.0	37.2 36.6	18.9 5.4	13.9 4.3	46.2 8.0	6.8 0.0	18.1 6.4	7.9 3.8	19.0 5.3	16.9 4.5
El Salvador Estonia	2004	100.0	8.7	1.0	0.9	5.4	0.0	8.2	3.8 4.0	0.0	0.0
Ethiopia	2003			19.4	13.5	52.0	0.0	22.0	6.7	19.1	15.7
European Union	2005 ^a	100.0	4.2	1.8	1.7	1.8	10.3	2.6	0.9	1.7	2.1
Fiji	2003	51.4	40.1	1.0	±•1			2.0	5.5	<u> </u>	
Gabon	2002	100.0	21.4	18.6	14.7	 52.3		23.2	19.7	17.9	13.5
Gambia, The	2002	13.6	100.6								
Georgia	2004	100.0	7.2	7.3	9.1	5.3	1.4	12.0	13.2	6.5	6.3
Ghana	2004	14.3	92.1	13.1	11.0	45.0	0.2	17.6	17.1	12.3	8.8
Guatemala	2004 ^a	34.9	36.5	5.1	4.9	1.4	0.0	7.3	5.1	4.8	4.8
Guinea	2004	39.0	20.1								
Guinea-Bissau	2004			13.9	13.6	56.0	0.0	16.6	14.5	13.4	12.9
Guyana	2003	100.0	56.7	12.0	11.5	36.2	0.4	20.2	14.1	10.8	9.6
Honduras	2004 ^a	100.0	32.5	5.2	5.4	1.1	0.0	7.2	8.0	4.9	4.0
Hungary	2002	96.2	9.8	8.9	7.9	10.9	0.0	17.9	6.7	7.7	8.0
Iceland	2003 ^a	95.0	13.5	5.1	3.0	5.7	1.3	6.2	3.8	4.9	2.7
India	2004 ^a	73.8	49.6	28.1	28.0	92.1	0.0	29.0	36.9	27.8	25.3
Indonesia	2004 ^a	96.6	37.5	6.4	5.5	8.7	0.3	7.7	3.2	6.2	6.2
Iran, Islamic Rep.	2004			17.5	14.8	41.6	0.5	14.3	13.6	17.6	15.0
Israel	2005 ^a	76.2	20.5	4.5	2.4	1.1	3.7	5.3	3.0	4.4	2.2
Jamaica	2003	100.0	49.8	9.4	9.8	36.5	0.3	16.0	11.0	8.4	9.3
Japan	2004 ^a	99.6	3.0	2.9	2.4	8.1	2.8	5.3	3.9	2.4	1.6
Jordan	2003	100.0	16.3	14.4	11.4	40.8	0.2	20.0	11.9	13.6	11.0
Kenya	2004	14.0	95.1	16.2	10.3	39.1	0.1	19.5	10.1	15.8	10.2

		All products %							nary lucts	Manufactured products	
	Most recent year	Binding coverage	Simple mean bound rate	Simple mean tariff	Weighted mean tariff	Share of lines with international peaks	Share of lines with specific rates	Simple mean tariff	% Weighted mean tariff	Simple mean tariff	% Weighted mean tariff
Korea, Rep.	2002	94.4	15.8	9.3	10.0	5.2	0.4	19.5	19.0	7.7	5.0
Kuwait	2002			3.5	3.9	0.1	1.4	1.5	3.7	4.0	4.0
Kyrgyz Republic	2003	99.9	7.4	4.1	4.3	0.1	2.3	6.6	6.1	3.6	2.9
Lao PDR	2004 ^a			8.5	12.1	8.4	0.1	13.6	13.8	7.8	11.4
Latvia	2001	100.0	12.8	3.2	2.6	2.9	0.0	8.0	5.5	2.5	1.5
Lebanon	2002 ^a			7.2	6.3	12.5	0.4	13.6	6.1	6.3	6.4
Lesotho	2001 ^a			10.8	17.8	42.1	2.9	16.0	9.2	10.5	17.8
Libya Lithuania	2002 2003 ^a	100.0	9.2	20.2 1.2	25.2 0.6	46.6 3.0	2.1 0.0	19.2 3.3	15.1 1.2	20.1 0.9	28.5 0.4
Macedonia, FYR	2003	100.0	9.2	10.2	7.6	26.0	3.4	12.2	8.4	9.9	7.2
Madagascar	2004	29.7	27.4	5.2	3.6	4.4	0.0	5.5	1.7	5.1	4.6
Malawi	2001 ^a	30.2	75.0	12.9	10.2	40.4	0.0	12.6	9.0	12.9	10.7
Malaysia	2001 2003 ^a	83.7	14.5	7.4	4.1	21.2	0.9	4.6	2.1	7.8	4.5
Maldives	2003	97.1	37.1	21.3	20.7	71.4	0.0	17.8	18.5	22.2	21.9
Mali	2004	40.7	28.8	12.8	10.7	45.9	0.0	15.4	11.5	12.4	10.4
Mauritania	2001	39.4	19.6	12.8	9.3	51.5	0.0	12.6	7.9	12.8	10.0
Mauritius	2002	18.0	94.0	23.5	13.0	40.0	0.1	19.6	9.9	23.8	14.4
Mexico	2004 ^a	100.0	35.0	14.6	3.7	38.5	0.0	13.0	2.6	14.7	3.8
Moldova	2001			4.6	2.8	0.1	0.9	8.3	2.6	4.0	2.9
Mongolia	2004	100.0	17.5		••			••			
Morocco	2003	100.0	41.3	28.3	24.9	75.1	0.0	33.5	25.4	27.8	24.6
Mozambique	2003 ^a			12.7	9.9	36.8	0.0	16.0	9.9	12.1	9.9
Myanmar	2004	16.5	83.2	4.4	4.1	3.3	0.0	7.2	4.6	4.1	3.9
Namibia	2001 ^a	88.9	17.3	4.5	0.5	13.8	2.4	3.5	0.4	4.6	0.6
Nepal	2004			14.8	14.3	21.5	0.6	13.9	9.3	14.7	16.3
New Zealand	2004 ^a 2004 ^a	100.0 100.0	10.3 41.7	3.7 4.9	3.0 3.8	7.0 0.9	5.6 0.0	1.7 7.0	0.6 3.9	4.0 4.7	3.5 3.6
Nicaragua Niger	2004	96.8	44.3	12.8	13.8	48.3	0.0	15.6	3.9 15.9	12.4	13.0
Nigeria	2004	19.3	118.0	24.8	18.5	51.8	1.0	36.8	26.7	23.2	15.7
Norway	2002 2003 ^a	100.0	3.0	0.5	0.4	0.5	5.5	1.5	1.4	0.3	0.2
Oman	2002	100.0	13.8	8.0	13.6	0.6	2.6	9.5	31.6	7.6	6.5
Pakistan	2004	44.8	52.2	16.1	13.2	50.3	0.1	14.7	9.4	16.2	15.7
Panama	2001			7.9	6.9	1.2	0.2	11.3	5.9	7.5	7.4
Papua New Guinea	2005	100.0	31.8	5.7	2.2	24.5	0.5	14.2	3.2	4.7	1.7
Paraguay	2004 ^a	100.0	33.6	8.5	6.3	23.7	0.0	6.2	1.9	8.7	7.9
Peru	2004 ^a	100.0	30.1	9.6	8.7	10.4	0.0	10.7	9.7	9.4	8.2
Philippines	2003	67.0	25.7	4.4	2.6	1.6	0.0	5.7	5.0	4.2	2.0
Poland	2003 ^a	96.2	11.9	4.3	2.2	8.8	5.0	18.1	6.7	2.4	1.2
Qatar	2002	100.0	16.0	4.1	4.3	0.2	0.0	4.5	5.7	4.0	4.0
Romania	2004 ^a	100.0	40.4	13.3	12.0	37.7	0.0	17.1	10.3	12.8	12.4
Russian Federation	2002	0.0		10.3	8.7	8.3	19.1	9.7	8.2	10.4	8.9
Rwanda Saudi Arabia	2003 ^a	100.0	89.1	8.3	6.6	10.7	0.0	11.8	6.4	7.9	6.6
Saudi Arabia	2004 2004	100.0		6.6	7.3	10.9	0.3	6.0 14.7	10.5	6.7	6.6
Senegal Serbia and Montenegro	2004	100.0	30.0	13.4 10.0	9.2 7.9	50.4 21.7	0.0	13.3	8.1 7.6	13.2 9.5	10.5 7.9
Seychelles	2002	••	••	27.2	23.4	57.6	0.0	38.8	46.6	25.4	7.9 18.5
Sierra Leone	2001	100.0	47.4	21.2	20.4	J1.0	0.3	JU.0	+0.0	20.4	10.5
Singapore	2004	69.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovak Republic	2002	100.0	5.0	22.1	21.2	51.0	0.0	19.5	12.8	22.4	23.6
Slovenia	2002 2003 ^a	100.0	23.7	3.9	1.6	10.4	1.4	6.1	3.3	3.5	1.1
South Africa	2001 ^a	88.9	17.3	8.5	5.6	30.9	2.0	6.7	3.9	8.6	5.8
Sri Lanka	2004 ^a	36.5	29.7	9.8	6.7	23.2	0.8	14.4	8.0	9.2	6.0
Sudan	2002			21.1	19.6	43.8	0.0	28.2	24.0	20.5	18.9
Suriname	2000			15.3	12.5	7.2	68.3	23.9	12.7	12.3	12.1
Swaziland	2001 ^a	88.9	17.3	1.8	0.6	7.0	0.8	0.9	0.1	2.0	0.9
Sweden	1989			5.4	4.3	3.6	2.3	1.4	1.0	6.0	5.0
Switzerland ^b	2001 ^a	99.8	1.7	3.2	1.5		37.7	15.0	9.5	1.1	0.2
Syrian Arab Republic	2002			14.6	15.5	23.2	0.1	14.2	11.7	14.5	16.6
Tanzania	2003 ^a	13.4	120.0	14.1	8.2	37.4	0.0	15.2	7.4	14.0	8.6



6.7 Tariff barriers

				pro	All ducts %	Primary products		Manufactured products			
	Most recent year	Binding coverage	Simple mean bound rate	Simple mean tariff	Weighted mean tariff	Share of lines with international peaks	Share of lines with specific rates	Simple mean tariff	% Weighted mean tariff	Simple mean tariff	% Weighted mean tariff
Thailand	2003ª	74.8	25.8	13.3	8.3	46.4	0.7	15.4	4.4	12.9	9.3
Togo	2004	13.2	80.0	14.4	10.8	55.7	0.0	15.5	10.1	14.1	11.3
Trinidad and Tobago	2003	100.0	55.8	9.7	5.5	36.2	0.0	15.5	4.8	8.8	5.9
Tunisia	2004	57.8	57.7	25.3	22.3	65.6	0.0	36.8	18.4	24.2	23.5
Turkey	2003 ^a	50.0	28.7	2.6	2.0	4.6	1.2	11.7	3.5	1.7	1.5
Turkmenistan	2002			5.1	2.9	13.7	3.3	15.6	13.2	3.6	1.1
Uganda	2004 ^a	14.9	73.5	6.7	5.4	0.0	0.0	9.5	6.4	6.4	5.0
Ukraine	2002			7.6	3.9	11.2	10.5	6.8	1.5	7.6	6.4
United States	2005 ^a	100.0	3.6	3.0	1.7	3.8	6.6	2.5	1.0	3.1	1.8
Uruguay	2004 ^a	100.0	31.7	10.8	4.2	33.5	0.0	6.9	1.4	11.1	5.8
Uzbekistan	2001			10.4	5.9	26.7	0.0	10.4	4.6	10.5	6.2
Venezuela, RB	2004 ^a	99.9	36.8	12.2	11.9	20.6	0.0	12.2	11.8	12.1	11.8
Vietnam	2004 ^a			13.6	14.5	33.6	0.2	17.8	17.7	12.8	13.3
Yemen, Rep.	2000			12.7	11.8	10.9	0.0	13.5	10.8	12.6	12.4
Zambia	2005 ^a	15.9	105.6	13.2	9.6	29.5	0.0	13.4	11.4	13.1	9.0
Zimbabwe	2003	20.8	91.3	15.9	18.7	36.3	5.7	19.2	27.2	15.4	15.7

a. Rates are either partially or fully recorded applied rates. All other simple and weighted tariff rates are most favored nation rates. b. Data for Switzerland include all specific rates converted to their ad valorem equivalents.

Tariff barriers

About the data

Poor people in developing countries work primarily in agriculture and labor-intensive manufactures, sectors that confront the greatest trade barriers. Removing barriers to merchandise trade could increase growth by about 0.8 percent a year in these countries—even more if trade in services (retailing, business, financial, and telecommunications services) were also liberalized.

In general, tariffs in high-income countries on imports from developing countries, though low, are twice the size of those collected from other high-income countries. But protection is also an issue for developing countries, which maintain high tariffs on agricultural commodities, labor-intensive manufactures, and other products and services. In some developing regions new trade policies could make the difference between achieving important Millennium Development Goals—reducing poverty, lowering maternal and child mortality rates, improving educational attainment—and falling far short.

Countries use a combination of tariff and nontariff measures to regulate imports. The most common form of tariff is an ad valorem duty, based on the value of the import, but tariffs may also be levied on a specific, or per unit, basis or may combine ad valorem and specific rates. Tariffs may be used to raise fiscal revenues or to protect domestic industries from foreign competition—or both. Nontariff barriers, which limit the quantity of imports of a particular good, include quotas, prohibitions, licensing schemes, export restraint arrangements, and health and quarantine measures.

Nontariff barriers are generally considered less desirable than tariffs because changes in an exporting country's efficiency and costs no longer result in changes in market share in the importing country. Further, the quotas or licenses that regulate trade become very valuable, and resources are often wasted in attempts to acquire these assets. A high percentage of products subject to nontariff barriers suggests a protectionist trade regime, but the frequency of nontariff barriers does not measure how much they restrict trade. Moreover, a wide range of domestic policies and regulations (such as health regulations) may act as nontariff barriers. Based on the difficulty of combining nontariff barriers into an aggregate indicator, they are not included in this table.

The tariff rates used in calculating the indicators in the table are most favored nation rates unless they are specified as applied rates. Effectively applied rates are those in effect for partners in preferential trade agreements such as the North American Free Trade Agreement. The difference between most favored nation and applied rates can be substantial. As more countries report their free trade agreements, suspensions of tariffs, or other special preferences, *World Development Indicators* will include their effectively applied rates. All estimates are calculated using the most up-to-date information, which is not necessarily updated every year. As a result, data for the same year may differ from data in last year's publication.

Three measures of average tariffs are shown: simple bound rates and the simple and the weighted mean tariffs. The most favored nation or applied rates are calculated using all traded items, while bound rates are based on all products in a country's tariff schedule. Weighted mean tariffs are weighted by the value of the country's trade with each trading partner. Simple averages are often a better indicator of tariff protection than weighted averages, which are biased downward because higher tariffs discourage trade and reduce the weights applied to these tariffs. Bound rates have resulted from trade negotiations that are incorporated into a country's schedule of concessions and are thus enforceable. If a contracting party raises a tariff to a higher level than its bound rate, beneficiaries of the earlier binding have a right to receive compensation, usually as reduced tariffs on other products they export to the country. If the beneficiaries are not compensated, they may retaliate by raising their own tariffs against an equivalent value of the original country's exports.

Some countries set fairly uniform tariff rates across all imports. Others are more selective, setting high tariffs to protect favored domestic industries. The share of tariff lines with international peaks (those for which ad valorem tariff rates exceed 15 percent) provides an indication of how selectively tariffs are applied. The effective rate of protection—the degree to which the value added in an industry is protected—may exceed the nominal rate if the tariff system systematically differentiates among imports of raw materials, intermediate products, and finished goods.

The share of tariff lines with specific duties shows the extent to which countries utilize tariffs based on physical quantities or other, non ad valorem measures. Some countries—for example, Switzerland—apply only specific duties. Specific duties are not included in the table, except for Switzerland. Work is under way to complete the estimations for ad valorem equivalents of specific duties for all countries.

The indicators were calculated from data supplied by the United Nations Conference on Trade

and Development (UNCTAD) and the World Trade Organization (WTO). Data are classified using the Harmonized System of trade at the six- or eight-digit level. Tariff line data were matched to Standard International Trade Classification (SITC) revision 2 codes to define commodity groups and import weights. Import weights were calculated using the United Nations Statistics Division's Commodity Trade (Comtrade) database. Data are shown only for the last year for which complete data are available. To conserve space, data for the European Union are shown instead of data for individual members.

Definitions

• Binding coverage is the percentage of product lines with an agreed bound rate. • Simple mean bound rate is the unweighted average of all the lines in the tariff schedule in which bound rates have been set. • Simple mean tariff is the unweighted average of effectively applied rates or most favored nation rates for all products subject to tariffs calculated for all traded goods. • Weighted mean tariff is the average of effectively applied rates or most favored nation rates weighted by the product import shares corresponding to each partner country. • Share of lines with international peaks is the share of lines in the tariff schedule with tariff rates that exceed 15 percent. • Share of lines with specific rates is the share of lines in the tariff schedule that are set on a per unit basis or that combine ad valorem and per unit rates. • Primary products are commodities classified in SITC revision 2 sections 0-4 plus division 68 (nonferrous metals). • Manufactured products are commodities classified in SITC revision 2 sections 5-8 excluding division 68.

Data sources

All indicators in the table were calculated by World Bank staff using the World Integrated Trade Solution system. Data on tariffs were provided by UNCTAD and the WTO. Data on global imports are from the United Nations Statistics Division's Comtrade database.





Global private financial flows

	Foreign direct investment			Port investme			Bank an related	
	\$ mil	lione	Bor	\$ mil	lions	Equity	\$ mil	lione
	1990	2004	1990	2004	1990	2004	1990	2004
Afghanistan								
Albania	0	426	••	0	0	0		30
Algeria	40	882	-16	0	0	0	-409	-479
Angola	-335	1,444	0	0	0	0	570	1,288
Argentina	1,836	4,084	-857	-671	0	-86	-1,195	-823
Armenia	4	219		0	0	1		0
Australia	8,111	42,469						
Austria	653	4,022						
Azerbaijan		3,556		0	0	0		117
Bangladesh	3	449	0	0	0	4	55	-16
Belarus		169		0	0	1		-62
Belgium	8,047 ^a	118,758 ^a						
Benin	62	60	0	0	0	1	0	0
Bolivia	27	116	0	0	0	0	-24	3
Bosnia and Herzegovina		613 47	0	0	0	0		39
Botswana	96	•			•	10	-19 -EFF	-1 470
Brazil	989 4	18,166	129	-4,436 -548	103 0	2,081 0	-555	-178 1,618
Bulgaria Burkina Faso	0	2,005 35	0	-546	0	0		1,616
Burundi	1	33	0	0	0	0	- <u>-</u> 1	-5
Cambodia		131	0	0	0	0	-0	_3 0
Cameroon	-113	0	0	0	0	0	-12	24
Canada	7,581	6,284						
Central African Republic	1	-13	0	0	0	0	-1	-4
Chad	9	478	0	0	0	0	-1	0
Chile	661	7,603	-7	1,451	367	8	1,194	-1,093
China	3,487	54,936	-48	3,690	0	10,923	4,668	4,280
Hong Kong, China		34,034						
Colombia	500	3,052	-4	553	0	130	-151	-1,844
Congo, Dem. Rep.	-14	0	0	0	0	0	-12	-4
Congo, Rep.	23	0	0	0	0	0	-100	0
Costa Rica	163	620	-42	49	0	0	-99	-21
Côte d'Ivoire	48	175	-1	0	0	-1	10	-134
Croatia		1,243		910	0	177		2,808
Cuba								
Czech Republic	72	4,454		2,696	0	738		-658
Denmark	1,132	-8,804	····				<u>.</u>	
Dominican Republic	133	645	0	-20	0	0	-3	440
cuador	126	1,160	0	0	0	1	58	598
gypt, Arab Rep.	734	1,253	-1	-100	0	26	-65	-128
El Salvador	2	466	0	294	0	0	6	-35
ritrea		30		0	0	0		0 4 F70
Estonia Ethiopia		1,049		857	0	176		1,570
inland	12	545 2.075	0	0	0	0	-57	71
inland	812 13,183	3,075 24,521	••	••	••		••	
rance Sabon	13,183	24,521 323	0	0	0	0	29	 –23
ambia, The	14	60	0	0	0	0	-8	-23 0
Georgia		499		0	0	0		63
Germany	3,005	-34,903	••		•			
Ghana	3,005	139	0	0	0	0	-23	31
Greece	1,005	1,355					-23 	
Guatemala	48	155	-11	380	0	0	1	-16
Guinea	18	100	0	0	0	0	-19	0
Guinea-Bissau	2	5	0	0	0	0	0	0
Haiti	8	7	0	0	0	0	0	0
	.				. .	-	.	

Global private financial flows 6.8



	Foreign invest			Port investme			Bank an related	d trade- lending
	\$ mill	ions	Bor	\$ mil		quity	\$ mil	lions
	1990	2004	1990	2004	1990	2004	1990	2004
londuras	44	293	0	0	0	0	32	161
Hungary	623	4,608	921	2,875	0	1,491	-1,379	7,978
ndia	237	5,335	147	3,722	0	8,835	1,459	-40
ndonesia	1,093	1,023	26	1,520	0	2,129	1,804	-2,467
ran, Islamic Rep.	-362	500	0	0	0	0	-30	652
raq								
reland	627	11,040						
srael	151	1,664						
taly	6,411	16,772						
amaica	138	602	0	641	0	0	-46	56
apan	1,777	7,805						
ordan	38	620	0	-11	0	-120	214	-5
(azakhstan		4,104		3,075	0	-14		5,102
(enya	57	46	0	0	0	3	65	-111
Korea, Dem. Rep.								
Korea, Rep.	788	8,189						
Kuwait	0	-20						
(yrgyz Republic	••	77		0	0	0	••	-54
ao PDR	6	17	0	0	0	0	0	0
atvia		699		503	0	23	••	1,129
ebanon	6	288	0	2,632	0	0	6	-48
esotho	17	123	0	0	0	0	0	-9
iberia	225	20	0	0	0	0	0	0
ibya								
ithuania		773		696	0	8		598
/lacedonia, FYR		157		0	0	15		27
/ladagascar	22	45	0	0	0	0	-15	-2
⁄lalawi	23	16	0	0	1	0	2	-2
/lalaysia	2,332	4,624	-1,239	2,063	0	4,400	-617	-2,039
⁄lali	6	180	0	0	0	1	-1	1
Mauritania 💮 💮	7	300	0	0	0	0	-1	0
Mauritius 💮 💮	41	14	0	0	0	19	45	-40
1exico	2,549	17,377	661	-1,904	1,995	-2,522	4,396	294
Moldova		81		-2	0	-2		-28
Mongolia	0	93		0	0	0		0
/lorocco	165	769	0	-40	0	572	318	-532
/lozambique	9	245	0	0	0	0	26	-23
⁄lyanmar	163	214	0	0	0	0	-8	-32
lamibia								
lepal	6	0	0	0	0	0	-14	0
letherlands	10,676	377						
lew Zealand	1,735	2,271						
licaragua	1	250	0	0	0	0	20	26
iger	41	0	0	0	0	0	10	-7
igeria	588	1,875	0	0	0	0	-121	-145
orway	1,003	502		••				
man	142	-17	0	550	0	147	-400	-578
akistan	245	1,118	0	283	0	50	-63	-132
anama	136	1,012	-2	769	-1	0	-4	11
apua New Guinea	155	25	0	0	0	0	49	-214
araguay	77	92	0	0	0	0	-9	-129
eru	41	1,816	0	1,242	0	-47	18	34
		400	005	4 000	0	44.0	000	-252
hilippines	530	469	395	1,823	0	418	-286	-202
hilippines oland	530 89	469 12,613	395 0	1,823 3,370	0	418 1,913	-286 -18	-252 -100





Global private financial flows

		ign direct estment		Port investme				d trade- lending
	\$	millions	Вог	\$ mil		quity	\$ mil	lions
	1990	2004	1990	2004	1990	2004	1990	2004
Romania	0	5,440	0	-187	0	111	4	4,152
Russian Federation		12,479		7,904	0	528		2,805
Rwanda	8	8	0	0	0	0	-2	C
Saudi Arabia								
Senegal	57	70	0	0	1	4	-15	92
Serbia and Montenegro		966		0	0	0		1,191
Sierra Leone	32	26	0	0	0	0	4	C
Singapore	5,575	16,032		••				
Slovak Republic		1,122	••	622	0	60		404
Slovenia		827						•
Somalia	6	9	0	0	0	0	0	C
South Africa	-76	585		1,249	389	6,661		-668
Spain	13,984	16,594	••	••				
Sri Lanka	43	233	0	100	0	-100	10	-57
Sudan	-31	1,511	0	0	0	0	0	54
Swaziland	30	68	0	0	-2	0	-2	16
Sweden	1,982	-588						
Switzerland	5,545	-797						
Syrian Arab Republic	71	275	0	0	0	0	-9	_4
ajikistan		272		0	0	0		-24
anzania	0	249	0	0	0	0	5	_4
hailand	2,444	1,412	-87	597	440	-295	1,574	117
ogo	18	60	0	0	4	3	0	C
rinidad and Tobago	109	1,001	-52	-150	0	0	-126	C
unisia	76	593	-60	282	5	24	-137	141
Turkey	684	2,733	597	2,109	89	1,427	466	5,826
Turkmenistan								
Jganda	-6	222	0	0	0	1	16	7
Jkraine		1,715		856	0	-2,204		4,637
Inited Arab Emirates				••				
Jnited Kingdom	33,504	72,561		••	••			
Jnited States	48,490	106,831						
Jruguay	42	311	-16	-186	0	0	-176	-123
Jzbekistan		140	···	0	0	0		-160
/enezuela, RB	451	1,518	345	872	0	-170	-922	-82
/ietnam	180	1,610	0	-13	0	0	0	23
Vest Bank and Gaza								
'emen, Rep.	-131	144	0	0	0	0	161	(
Zambia Zimbabwe	203	334	0 -30	-1 0	0	0	-9 127	-22 7
	-12 201 412 c	60					127	
World .ow income	201,413 s 2,233	· ·	\$ 116	s 3,990	s 7	s 8,899	s 1,532	-844
ow income Middle income	•	17,031	116 966	39,007	3,383	28,660	•	-844 35,627
Lower middle income	20,523 10,307	194,354 111,023	388		3,383 545		13,935 6 535	•
Upper middle income	10,307	83,331	577	9,711 29,297	2,838	13,653 15,007	6,535 7,400	18,478 17,149
.ow & middle income	•	211,385	1,081		3,390	37,559	•	•
East Asia & Pacific	22,756 10,505	64,563	-952	42,997 9,679	3,390 440		15,467 7,180	34,784 -594
	10,505			9,679 25,738		17,575	•	•
Europe & Central Asia	1,476	62,211	1,893	25,738	2.464	4,450	4,281	38,901 -2,767
Latin America & Carib. Middle East & N. Africa	8,244 780	60,843	101 -76	-1,087 3 313	2,464 5	-606 649	2,430 _350	•
South Asia	•	5,340 7,151		3,313 4 105	1	···•	-350 1,446	-982 -224
Sub-Saharan Africa	541 1 200	7,151	147 -31	4,105 1,249	393	8,789 6,701	1,446 479	-224 450
ligh income	1,209 178,657	11,276 413,412				··· ·	•	•
ABA HICOING	110,001	+±3,4±∠						

a. Includes Luxembourg.

Global private financial flows

About the data

The data on foreign direct investment are based on balance of payments data reported by the International Monetary Fund (IMF), supplemented by staff estimates using data reported by the United Nations Conference on Trade and Development and official national sources.

The internationally accepted definition of foreign direct investment is provided in the fifth edition of the IMF's Balance of Payments Manual (1993). Under this definition foreign direct investment has three components: equity investment, reinvested earnings, and short- and long-term intercompany loans between parent firms and foreign affiliates. But many countries fail to report reinvested earnings, and the definition of long-term loans differs among countries. Foreign direct investment, as distinguished from other kinds of international investment, is made to establish a lasting interest in or effective management control over an enterprise in another country. As a guideline, the IMF suggests that investments should account for at least 10 percent of voting stock to be counted as foreign direct investment. In practice, many countries set a higher threshold.

The Organisation for Economic Co-operation and Development has also published a definition, in consultation with the IMF, Eurostat, and the United Nations. Because of the multiplicity of sources and differences in definitions and reporting methods, there may be more than one estimate of foreign direct investment for a country and data may not be comparable across countries.

Foreign direct investment data do not give a complete picture of international investment in an economy. Balance of payments data on foreign direct investment do not include capital raised locally, which has become an

important source of financing for investment projects in some developing countries. In addition, foreign direct investment data capture only cross-border investment flows involving equity participation and thus omit nonequity crossborder transactions such as intrafirm flows of goods and services. For a detailed discussion of the data issues, see the World Bank's World Debt Tables 1993-94 (volume 1, chapter 3).

Portfolio flow data are compiled from several market and official sources, including Euromoney databases and publications; Micropal; Lipper Analytical Services; published reports of private investment houses, central banks, national securities and exchange commissions, and national stock exchanges; and the World Bank's Debtor Reporting System.

Gross statistics on international bond and equity issues are produced by aggregating individual transactions reported by market sources. Transactions of public and publicly guaranteed bonds are reported through the Debtor Reporting System by World Bank member economies that have received either loans from the International Bank for Reconstruction and Development or credits from the International Development Association. Information on private nonguaranteed bonds is collected from market sources, because official national sources reporting to the Debtor Reporting System are not asked to report the breakdown between private nonguaranteed bonds and private nonguaranteed loans. Information on transactions by nonresidents in local equity markets is gathered from national authorities, investment positions of mutual funds, and market sources.

The volume of portfolio investment reported by the World Bank generally differs from that reported by other sources because of differences in the sources,

in the classification of economies, and in the method used to adjust and disaggregate reported information. Differences in reporting arise particularly for foreign investments in local equity markets because clarity, adequate disaggregation, and comprehensive and periodic reporting are lacking in many developing economies. By contrast, capital flows through international debt and equity instruments are well recorded, and for these the differences in reporting lie primarily in the classification of economies, the exchange rates used, whether particular installments of the transactions are included, and the treatment of certain offshore issuances.

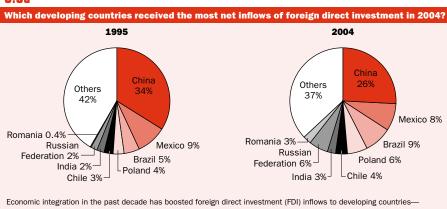
Net private capital flows—calculated as the sum of foreign direct investment, portfolio investment flows, and bank and trade-related lending-are no longer included in the table because they are likely to be overestimated. The source of overestimation is the possible double counting of intercompany lending, which is a debt liability but may also be included in foreign direct investment flows. There is currently no practical way to know when double counting has occured and therefore to adjust for it.

Definitions

• Foreign direct investment is net inflows of investment to acquire a lasting management interest in an enterprise operating in an economy other than that of the investor. It is the sum of equity capital, reinvestment of earnings, other long-term capital, and short-term capital, as shown in the balance of payments. • Portfolio investment flows are net and include portfolio debt flows (public and publicly guaranteed and private nonguaranteed bond issues purchased by foreign investors) and non-debt-creating portfolio equity flows (the sum of country funds, depository receipts, and direct purchases of shares by foreign investors). • Bank and trade-related lending covers commercial bank lending (public and publicly guaranteed and private nonguaranteed) and other private credits.

Data sources

Data are compiled from a variety of public and private sources, including the World Bank's Debtor Reporting System, the IMF's International Financial Statistics and Balance of Payments databases, and other sources mentioned in About the data. These data are also published in the World Bank's Global Development Finance 2006.



particularly those with improved investment climates. FDI is also increasingly concentrated. The top eight FDI-receiving developing countries account for 63 percent of net FDI inflow in 2004, up from 58 percent in 1995.

Source: World Bank Debtor Reporting System.



Net financial flows from Development Assistance Committee members

		O developme	fficial ent assista	ance	Other official flows			Private flows			Net grants by NGOs	Total net flows
\$ millions	Total 2004	Bilateral grants 2004	Bilateral loans 2004	Contributions to multilateral institutions 2004	2004	Total 2004	Foreign direct investment 2004	Bilateral portfolio investment 2004	Multilateral portfolio investment 2004	Private export credits 2004	2004	2004
Australia	1,460	1,191		270	35	482	506	-24			489	2,466
Austria	678	380	-28	325	-229	815	924			-109	89	1,352
Belgium	1,463	953	-50	561	-93	-735	-169			-566	181	816
Canada	2,599	2,022	-31	608	-794	3,542	3,613	-71		0	639	5,986
Denmark	2,037	1,192	11	835	21	518	518				58	2,634
Finland	655	353	9	293								
France	8,473	6,067	-500	2,906	-216	4,342	1,534	2,831		-23		12,599
Germany	7,534	4,513	-690	3,712	-1,051	4,199	3,613	-278	-85	949	1,148	11,830
Greece	465	304		161	4	-14	-14				17	472
Ireland	607	410		198	••	3,010		3,010		••	234	3,851
Italy	2,462	855	-151	1,757	507	221	808	-2,269		1,682	49	3,239
Japan	8,906	7,131	-1,213	2,988	-2,372	4,392	9,171	-3,426	-3,020	1,667	425	11,351
Luxembourg	236	171		64							6	242
Netherlands	4,204	3,217	-547	1,534	151	9,339	1,986	3,086	559	3,708	412	14,106
New Zealand	212	159		53	5	25	25				29	271
Norway	2,199	1,496	41	662	0	586	635			-49		2,785
Portugal	1,031	179	694	158	-692	335	187			148	3	676
Spain	2,437	1,227	173	1,037	25	10,300	10,503			-203		12,762
Sweden	2,722	2,066	10	646	-64	266	594			-328	31	2,954
Switzerland	1,545	1,173	14	359		-2,810	-2,082		-966	238	316	-949
United Kingdom	7,883	5,239	100	2,544	-155	18,805	13,335	5,826		-356	390	26,922
United States	19,705	17,027	-777	3,455	-679	6,465	20,355	-12,343	-1,255	-293	6,792	32,283
Total	79,512	57,322	-2,937	25,126	-5,599	64,082	66,041	-3,658	-4,766	6,465	11,307	148,646

Net flows to part II	countries										
			cial id		Other official flows			/ate ws			
\$ millions	Total 2004	Bilateral grants 2004	Bilateral loans 2004	Contributions to multilateral institutions 2004	2004	Total 2004	Foreign direct investment 2004	Bilateral portfolio investment 2004	Private export credits 2004	2004	2004
Australia	10	5		6	23	-1,478	-1,324	-154			-1,445
Austria	260	158	0	101	-2	3,702	3,778	0	-76	12	3,973
Belgium	190	8		182	-44	6,636	6,657	0	-21		6,782
Canada	93	93	0		-71	3,403	3,301	150	-48	••	3,425
Denmark	140	64	-21	97	5	767	767			5	918
Finland	92	45		47							92
France	2,358	1,532	32	795	-97		6,038	4,078	1,938	22	8,299
Germany	1,435	549	-74	959	-1,076		7,600	2,825	4,564	211	7,958
Greece	130	51		80	11	2	93	93			237
Ireland	3	3		••							3
Italy	664	14	••	650	-59	••	170	494	-1,758	1,434	775
Japan	121	129	-68	60	-90		5,671	5,344	1,081	-754	5,702
Luxembourg	15	3		13							15
Netherlands	222	64	-12	169			17,745	8,513	7,398	1,834	17,967
New Zealand	1	1		0							1
Norway	45	45			0		-1			-1	44
Portugal	62	1		61	-5		-82	-89		7	-24
Spain	15	15					2,169	2,169			2,184
Sweden	123	123			-13		862	724		138	972
Switzerland	100	85	4	12	1	13	8,262	8,312	0	-50	8,375
United Kingdom	834	70	0	764		4	20,667	4,284	16,648	-266	21,505
United States	1,605	1,702	-167	70	-278	3,577	9,124	18,713	-9,663	74	14,027
Total	8,519	4,759	-305	4,065	-1,694	3,613	91,347	68,639	20,204	2,504	101,785

Note: Data may not sum to totals because of gaps in reporting. A substantial part of the increase in private flows to part II countries is due to the transfer of countries from part I to part II of the Development Assistance Committee list of aid recipients.

The high-income members of the Development Assistance Committee (DAC) of the Organisation for Economic Co-operation and Development (OECD) are the main source of official external finance for developing countries. The table shows the flow of official and private financial resources from DAC members to official and private recipients in developing and transition economies.

DAC exists to help its members coordinate their development assistance and to encourage the expansion and improve the effectiveness of the aggregate resources flowing to recipient economies. In this capacity DAC monitors the flow of all financial resources, but its main concern is official development assistance (ODA). DAC has three criteria for ODA: It is undertaken by the official sector. It promotes the economic development and welfare of developing countries as a main objective. And it is provided on concessional terms, with a grant element of at least 25 percent on loans (calculated at a rate of discount of 10 percent).

This definition excludes nonconcessional flows from official creditors, which are classified as "other official flows," and military aid, which is not recorded in DAC statistics. The definition includes food aid, capital projects, emergency relief, technical cooperation, and postconflict peacekeeping efforts. Also included are contributions to multilateral institutions, such as the United Nations and its specialized agencies, and concessional funding to the multilateral development banks. In 1999, to avoid double counting extrabudgetary expenditures reported by DAC

countries and flows reported by the United Nations, all UN agencies revised their data to include only regular budgetary expenditures since 1990 (except for the World Food Programme and the United Nations High Commissioner for Refugees, which revised their data from 1996 onward).

DAC maintains a list of countries and territories that are aid recipients. Part I of the list comprises developing countries and territories considered by DAC members to be eligible for ODA. Part II comprises economies in transition: more advanced countries of Central and Eastern Europe, the countries of the former Soviet Union, and certain advanced developing countries and territories. Flows to these recipients that meet the criteria for ODA are termed official aid.

The table was compiled from replies by DAC member countries to questionnaires issued by the DAC Secretariat. Net flows of ODA, official aid, and other official resources are defined as gross disbursements of grants and loans minus repayments of principal on earlier loans. Because the table is based on donor country reports, it does not provide a complete picture of the resources received by developing and transition economies, for two reasons. First, flows from DAC members are only part of the aggregate resource flows to these economies. Second, the data that record contributions to multilateral institutions measure the flow of resources made available to those institutions by DAC members, not the flow of resources from those institutions to developing and transition economies.

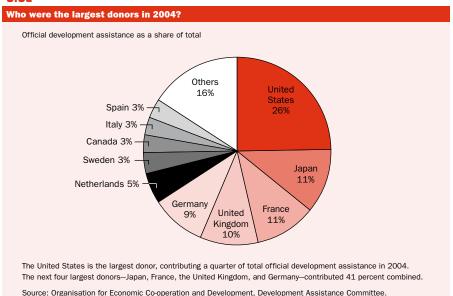
Definitions

• Official development assistance comprises grants and loans (net of repayments of principal) that meet the DAC definition of ODA and are made to countries and territories in part I of the DAC list of aid recipients. • Official aid comprises grants and loans (net of repayments) that meet the criteria for ODA and are made to countries and territories in part II of the DAC list of aid recipients. • Bilateral grants are transfers of money or in kind for which no repayment is required. • Bilateral loans are loans extended by governments or official agencies that have a grant element of at least 25 percent (calculated at a rate of discount of 10 percent). • Contributions to multilateral institutions are concessional funding received by multilateral institutions from DAC members in the form of grants or capital subscriptions. . Other official flows are transactions by the official sector whose main objective is other than development or whose grant element is less than 25 percent. • Private flows consist of flows at market terms financed from private sector resources in donor countries. They include changes in holdings of private long-term assets by residents of the reporting country. • Foreign direct investment is investment by residents of DAC member countries to acquire a lasting management interest (at least 10 percent of voting stock) in an enterprise operating in the recipient country. The data reflect changes in the net worth of subsidiaries in recipient countries whose parent company is in the DAC source country. • Bilateral portfolio investment covers bank lending and the purchase of bonds, shares, and real estate by residents of DAC member countries in recipient countries. . Multilateral portfolio investment records the transactions of private banks and nonbanks in DAC member countries in the securities issued by multilateral institutions. • Private export credits are loans extended to recipient countries by the private sector in DAC member countries to promote trade; they may be supported by an official guarantee. . Net grants by NGOs are private grants by nongovernmental organizations, net of subsidies from the official sector. . Total net flows comprise ODA or official aid flows, other official flows, private flows, and net grants by nongovernmental organizations.

Data sources

Data on financial flows are compiled by DAC and published in its annual statistical report, Geographical Distribution of Financial Flows to Aid Recipients, and its annual Development Cooperation Report. Data are available electronically on the OECD's International Development Statistics CD-ROM and to registered users at www.oecd. org/dataoecd/50/17/5037721.htm.

6.98





Aid flows from Development Assistance Committee members

Net flows to part I c	ountries										
				Net officia	l development	assistance	е			Untie	d aid ^a
	\$ mi 1999	llions 2004	% of 1999	F GNI 2004	average annual % change in volume ^b 1998–99 to 2003–04	donor	apita of country ^b \$ 2004		eneral disbursement 2004		ilateral mitments 2004
Australia	982	1,460	0.26	0.25	1.7	59	62	0.70	0.67	86.7	77.1
Austria	492	678	0.24	0.23	1.0	69	74	0.43	0.46	39.8	52.2
Belgium	760	1,463	0.30	0.41	11.4	84	125	0.60	0.84	39.0	92.7
Canada	1,706	2,599	0.28	0.27	1.7	65	73	0.61	0.66	29.6	56.7
Denmark	1,733	2,037	1.01	0.85	-2.0	378	336	1.78	1.50	70.8	88.8
Finland	416	655	0.33	0.35	5.0	91	113	0.63	0.70	84.7	
France	5,639	8,473	0.38	0.41	3.3	109	122	0.73	0.77	70.6	94.2
Germany	5,515	7,534	0.26	0.28	2.5	74	82	0.54	0.59	84.7	92.2
Greece	194	465	0.15	0.23	12.2	21	37	0.32	0.44	3.3	23.0
Ireland	245	607	0.31	0.39	13.5	82	133	0.75	0.98		100.0
Italy	1,806	2,462	0.15	0.15	-0.6	37	38	0.31	0.30	22.6	
Japan	12,163	8,906	0.27	0.19	-4.7	88	67	0.72	0.51	96.4	94.4
Luxembourg	119	236	0.66	0.83	8.8	320	466	1.43	1.61	96.1	
Netherlands	3,134	4,204	0.79	0.73	0.7	244	233	1.68	1.49	94.1	86.8
New Zealand	134	212	0.27	0.23	1.7	42	44	0.63	0.64		81.2
Norway	1,370	2,199	0.88	0.87	2.5	399	430	1.80	1.89	99.1	100.0
Portugal	276	1,031	0.26	0.63	13.8	33	89	0.53	1.27	73.7	99.2
Spain	1,363	2,437	0.23	0.24	4.0	43	50	0.56	0.60		67.7
Sweden	1,630	2,722	0.70	0.78	7.0	202	272	1.08	1.38	91.5	87.5
Switzerland	984	1,545	0.35	0.41	4.7	160	192	1.07	1.20	96.8	96.8
United Kingdom	3,426	7,883	0.24	0.36	10.2	65	115	0.59	0.84	91.8	100.0
United States	9,145	19,705	0.10	0.17	12.7	36	66	0.29	0.47		
Total or average	53,233	79,512	0.22	0.26	4.3	69	84	0.56	0.63	85.8	90.6

Net flows to part II countries

Net official aid

	ф	llions	0/ -4	· GNI	average annual % change in volume ^b	donor	apita of country ^b \$
	1999	2004	% OI 1999	2004	1998-99 to 2003-04	1999	⇒ 2004
Australia	3	10	0.00	0.00	33.3	0	0
Austria	184	260	0.09	0.09	2.8	26	28
Belgium	82	190	0.03	0.05	14.6	9	16
Canada	165	93	0.03	0.01	-13.2	6	3
Denmark	128	140	0.07	0.06	3.0	28	23
Finland	74	92	0.06	0.05	-1.0	16	16
France	745	2,358	0.05	0.11	19.0	14	34
Germany	729	1,434	0.03	0.05	10.6	10	16
Greece	11	131	0.01	0.06	45.2	1	10
Ireland		3		0.00		0	1
Italy	92	664	0.01	0.04	22.9	2	10
Japan	67	121	0.00	0.00	-187.9	0	1
Luxembourg	3	15	0.01	0.05	27.1	7	30
Netherlands	22	222	0.01	0.04	22.6	2	12
New Zealand	0	1	0.00	0.00	36.1	0	0
Norway	28	45	0.02	0.02	-3.0	8	9
Portugal	28	62	0.03	0.04	11.9	3	5
Spain	13	15	0.00	0.00	-3.6	0	0
Sweden	99	123	0.04	0.04	1.5	12	12
Switzerland	70	100	0.03	0.03	0.2	11	12
United Kingdom	407	834	0.03	0.04	8.8	8	12
United States	3,521	1,605	0.04	0.01	-14.9	14	5
Total or average	6,468	8,519	0.03	0.03	1.6	8	9

a. Excludes administrative costs and technical cooperation. b. At 2003 exchange rates and prices.

About the data

Effective aid supports institutional development and policy reforms, which are at the heart of successful development. To be effective, especially in reducing global poverty, aid requires partnerships among recipient countries, aid agencies, and donor countries. It also requires improvements in economic policies and institutions. Where traditional methods of nurturing such reforms have failed, aid agencies need to find alternative approaches and new opportunities.

As part of its work, the Development Assistance Committee (DAC) of the Organisation for Economic Co-operation and Development (OECD) assesses the aid performance of member countries relative to the size of their economies. As measured here, aid comprises bilateral disbursements of concessional financing to recipient countries plus the provision by donor governments of concessional financing to multilateral institutions. Volume amounts, at constant prices and exchange rates, are used to measure the change in real resources provided over time. Aid flows to part I recipients—official development assistance (ODA)—are tabulated separately from those to part II recipients—official aid (see About the data for table 6.9 for more information on the distinction between the two types of aid flows).

Measures of aid flows from the perspective of donors differ from aid receipts from the perspective of recipients for two main reasons. First, aid flows include expenditure items about which recipients may have no precise information, such as development-oriented research, stipends and tuition costs

for aid-financed students in donor countries, or payment of experts hired by donor countries. Second, donors record their concessional funding (usually grants) to multilateral agencies when they make payments, while the agencies make funds available to recipients with a time lag and in many cases in the form of soft loans where donors' grants have been used to reduce the interest burden over the life of the loan.

Aid as a share of gross national income (GNI), aid per capita, and ODA as a share of the general government disbursements of the donor are calculated by the OECD. The denominators used in calculating these ratios may differ from corresponding values elsewhere in this book because of differences in timing or definitions.

DAC members have progressively introduced the new United Nations System of National Accounts (adopted in 1993), which replaced gross national product (GNP) with GNI. Because GNI includes items not included in GNP, ratios of ODA to GNI are slightly smaller than the previously reported ratios of ODA to GNP.

The proportion of untied aid is reported here because tying arrangements may prevent recipients from obtaining the best value for their money and so reduce the value of the aid received. Tying arrangements require recipients to purchase goods and services from the donor country or from a specified group of countries. They may be justified on the grounds that they prevent a recipient from misappro-

priating or mismanaging aid receipts, but they may also be motivated by a desire to benefit suppliers in the donor country. The same volume of aid may have different purchasing power depending on the relative costs of suppliers in countries to which the aid is tied and the degree to which each recipient's aid basket is untied.

Definitions

• Net official development assistance (ODA) and net official aid record the actual international transfer by the donor of financial resources or of goods or services valued at the cost to the donor, less any repayments of loan principal during the same period. Data are shown at current prices and dollar exchange rates. • Aid as a percentage of GNI shows the donor's contributions of ODA or official aid as a share of its gross national income. • Average annual percentage change in volume and aid per capita of donor country are calculated using 2002 exchange rates and prices. • Aid as a percentage of general government disbursements shows the donor's contributions of ODA as a share of public spending. • Untied aid is the share of ODA that is not subject to restrictions by donors on procurement sources.

6.10a

Donor	2000	2001	2002	2003	2004
OECD members (non-DAC)					
Czech Republic	16	26	45	91	108
Hungary				21	55
Iceland	9	10	13	18	21
Korea, Rep.	212	265	279	366	423
Poland	29	36	14	27	118
Slovak Republic	6	8	7	15	28
Turkey	82	64	73	67	339
Arab countries					
Kuwait	165	73	20	133	209
Saudi Arabia	295	490	2,478	2,391	1,734
United Arab Emirates	150	127	156	188	181
Other donors					
Israel ^a	164	76	114	92	66
Other donors ^b	1	2	3	4	22
Total	1.128	1.178	3.201	3.416	3.726

Note: China also provides aid, but does not disclose the amount.

a. Includes \$66.8 million in 2000, \$50.1 million in 2001, \$87.8 million in 2002, \$68.8 million in 2003, and \$47.9 million in 2004 for first-year sustenance expenses for people arriving from developing countries (many of which are experiencing civil war or severe unrest) or people who have left their country for humanitarian or political reasons.

b. Includes Estonia, Latvia, and Lithuania

Source: Organisation for Economic Co-operation and Development.

Data sources

Data on financial flows are compiled by DAC and published in its annual statistical report, *Geographical Distribution of Financial Flows to Aid Recipients*, and its annual *Development Cooperation Report*. Data are available electronically on the OECD's *International Development Statistics* CD-ROM and to registered users at www.oecd. org/dataoecd/50/17/5037721.htm.



	Net of develo assista officia	pment ince or	l	l per pita				-	endency ios			
	\$ mil	lions	l	\$	% of	l as FGNI	capital f	of gross ormation	imports	s % of of goods ervices	of ce gover exper	as % entral nment nditure
	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004
Afghanistan	143	2,190	6			38.0						288.8
Albania	488	362	159	116	13.8	4.7	70.7	20.2	43.9			
Algeria	138	313	5	10	0.3	0.4	1.0	1.1			1.2	
Angola	388	1,144	29	74	8.2	6.6	23.2	49.1	5.5	8.7		
Argentina	100	91	3	2	0.0	0.1	0.2	0.3	0.2	0.2		0.3
Armenia	209	254	68	84	11.0	8.1	61.8	40.5	21.9	14.2		41.9
Australia												
Austria	400	470		04			440	2.0			40.5	
Azerbaijan	169 1,215	176	21 10	21 10	3.7 2.6	2.2 2.4	14.0	3.8	8.6 13.2	2.5 10.4	19.5	28.7
Bangladesh Belarus	39	1,404 46	4	5	0.3	0.2	11.9 1.4	10.3 0.7	0.6	0.3	1.2	0.7
Belgium	39	40	4	ບ	0.5	∪.∠	1.4	0.1	0.0	0.5	1.∠	0.1
Benin	211	378	30	46	8.9	9.3	50.5	45.6	23.7	•	•	
Bolivia	569	767	70	85	7.0	9.3	36.6	70.7	24.3	27.4		32.1
Bosnia and Herzegovina	1,040	671	277	172	21.0	7.7	79.3	37.8	23.2	9.3		20.4
Botswana	61	39	35	22	1.3	0.5	4.3	1.4	2.0			20.4
Brazil	187	285	1	2	0.0	0.0	0.2	0.2	0.2	0.3		
Bulgaria	271	622	33	80	2.1	2.6	11.7	11.0	3.9	3.6	6.7	7.3
Burkina Faso	398	610	36	48	14.2	12.7	59.6	66.2				
Burundi	74	351	12	48	10.6	54.6	114.1	501.4	55.5		44.5	
Cambodia	277	478	22	35	8.1	10.3	45.2	38.0	11.0	12.1		107.3
Cameroon	435	762	30	47	5.0	5.4	25.3	31.8				
Canada	•		•	•	•	•	•	•	•	•	•	•
Central African Republic	118	105	32	26	11.4	7.9	78.0	45.6				
Chad	188	319	24	34	12.4	11.8	121.6	30.6				
Chile	70	49	5	3	0.1	0.1	0.5	0.2	0.3	0.1		0.3
China	2,394	1,661	2	1	0.2	0.1	0.6	0.2	1.1	0.3		
Hong Kong, China	4	7	1	1	0.0	0.0	0.0	0.0	0.0	0.0		
Colombia	302	509	7	11	0.4	0.5	2.7	2.8	1.9	2.1		2.3
Congo, Dem. Rep.	132	1,815	3	32	3.1	28.6	91.0	213.9			10.2	
Congo, Rep.	142	116	43	30	8.6	3.5	21.7	11.0	7.2			
Costa Rica	-8	13	-2	3	-0.1	0.1	-0.3	0.3	-0.1	0.1	-0.3	0.3
Côte d'Ivoire	448	154	27	9	3.8	1.0	27.2	9.2	8.7	2.2		
Croatia	48	121	11	27	0.2	0.4	1.1	1.2	0.5	0.6	0.5	8.0
Cuba	59	90	5	8								
Czech Republic	325	280	32	27	0.6	0.3	2.0	0.9	0.9	0.3		0.7
Denmark Dominican Republic	195	87	24	10	1.2	0.5	4.6	2.3	1.9	0.8	8.3	
Ecuador	149	160	12	10	1.0	0.6	6.1	2.3 1.9	2.7	1.5	•	
Egypt, Arab Rep.	1,582	1,458	24	20	1.7	1.9	8.1	11.1	7.0	5.3	·••	
El Salvador	184	211	30	31	1.5	1.4	9.0	8.6	3.6	2.8		68.7
Eritrea	149	260	43	61	20.3	28.5	60.0	129.0	24.1			
Estonia	84	136	61	101	1.5	1.3	6.0	3.9	1.9	1.3	4.9	
Ethiopia	643	1,823	10	26	10.0	23.0	58.4	107.7	33.8	47.5		
Finland		_, 									•••••	······································
France										•	•	
Gabon	48	38	38	28	1.2	0.6	3.9	2.1	2.0			
Gambia, The	34	63	26	43	8.2	16.0	43.6	63.3				
Georgia	245	315	51	70	8.3	6.0	39.6	20.7	21.2	11.9	60.6	42.2
Germany												
Ghana	609	1,358	31	63	8.1	15.4	37.9	54.9	15.0	24.3		73.2
Greece												
Guatemala	293	218	27	18	1.6	0.8	9.2	4.5	5.5	2.4	15.2	7.2
Guinea	238	279	29	30	7.0	7.3	31.1	68.6	22.6	27.9		
Guinea-Bissau	52	76	39	50	24.9	28.3	139.0	219.4				
Haiti	263	243	34	29	6.4	6.7	23.2		20.8			



	Net of develo assista officia	pment ince or		l per pita				Aid depe rat	-			
	\$ mil	lions		\$		l as GNI		of gross ormation	imports	s % of of goods ervices	of ce gover	as % entral nment nditure
	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004
Honduras	818	642	131	91	15.6	9.1	41.8		25.2	13.5		
Hungary	249	303	25	30	0.6	0.3	1.8	1.3	0.7	0.4		
India	1,491	691	1	1	0.3	0.1	1.4	0.4	2.2		2.2	0.6
Indonesia	2,125	84	10	0	1.6	0.0	13.3	0.1	3.9	0.1	9.3	0.2
Iran, Islamic Rep.	162	189	3	3	0.2	0.1	0.5	0.3	1.0		0.4	0.6
Iraq	76	4,658	3						••			
Ireland							***************************************	• • • • • • • • • • • • • • • • • • • •				
Israel	906	479	148	70	0.9	0.4	3.8	2.4	1.9	0.8		0.8
Italy												
Jamaica	-22	75	-8	29	-0.3	0.9	-1.2	2.7	-0.5	1.2	-0.8	
Japan 			- · ·					~ .				
Jordan	432	581	91	107	5.4	5.0	22.7	21.1	7.9	6.0	19.8	15.9
Kazakhstan	175	265	12	18	1.1	0.7	5.8	2.7	2.4	1.2	7.3	4.4
Kenya	310	635	10	19	2.4	4.0	15.5	21.6	8.9	12.0	13.4	
Korea, Dem. Rep.	201	196	9	9								
Korea, Rep. Kuwait	-55 7	-68 3	-1 3	-1 1	0.0	0.0	0.0	0.0	0.0 0.1	0.0	-0.1 0.1	
•	283	•	58	51	•	12.2	125.8	84.9	•••••	20.9	127.8	
Kyrgyz Republic Lao PDR	283 295	258 270	58 57	47	24.1 21.0	11.4	125.8	84.9	35.8 46.9	•	•••••	
Latvia	100	165	42	71	1.4	1.2	 5.9	3.7	2.6	1.8	4.3	4.3
Lebanon	194	265	58	71 75	1.4	1.3	5.9	5.7			•••••	4.3
Lesotho	31	102	18	57	2.7	6.3	7.0	18.8	3.4	6.9		20.5
Liberia	94	210	32	65	28.1	53.4		346.8		• • • • • • • • • • • • • • • • • • • •		20.5
Libya	7	18	1	3		0.1	0.2	040.0	0.1	0.1		
Lithuania	134	252	38	73	1.3	1.2	5.5	4.8	2.3	1.8		3.9
Macedonia, FYR	277	248	138	122	7.6	4.7	38.3	21.5	14.0	7.4		
Madagascar	359	1,236	23	68	9.8	28.8	64.7	103.2	28.4			44.9
Malawi	447	476	40	38	25.8	25.9	171.7	229.4	55.1			
Malaysia	144	290	6	12	0.2	0.3	0.8	1.1	0.2		1.0	
Mali	355	567	31	43	14.0	12.2	65.1	59.2	32.9			
Mauritania	219	180	85	60	20.1	11.1	120.2	54.5				
Mauritius	42	38	36	31	1.0	0.6	3.8	2.6	1.4	1.0	4.4	2.9
Mexico	37	121	0	1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	
Moldova	107	118	25	28	9.0	4.0	40.0	18.0	12.1	5.2	31.5	16.8
Mongolia	222	262	93	104	24.9	16.4	66.4	44.3	33.5	18.3		
Morocco	679	706	24	23	2.0	1.4	8.3	5.6	5.2	3.4	6.8	
Mozambique	805	1,228	46	63	21.3	21.4	55.1	100.6	47.1	44.6		
Myanmar	81	121	2	2					3.2	3.7		
Namibia	179	179	97	89	5.3	3.1	22.7	12.3	9.2	6.6	15.8	••
Nepal	351	427	15	16	7.0	6.4	34.0	24.2	20.2	18.9	·•	
Netherlands						•	•			•	•	
New Zealand	676	4 000	400	000	400	00.0	40.0	05.0	00.0	40.4	00.0	407.0
Nicaragua Nicar	673 197	1,232	138	229	19.0	28.3	46.9	95.3	28.3	40.4	93.8	137.0
Niger	187 152	536 573	16	40	9.4	17.5	90.7	109.3	36.8		••	
Nigeria Norway	12∠	013	1	4	0.5	1.0	1.9	3.6	1.0	3.3	••	
Oman	40	55	17	22	0.3	0.2	1.7	1.3	0.6	0.5	0.9	•
Pakistan	733	1,421	5	9	1.2	1.5	7.5	8.5	5.4	5.8	6.5	10.2
Panama	15	38	5	12	0.1	0.3	0.5	1.3	0.1	0.3	0.6	10.2
Panama Papua New Guinea	216	266	42	46	6.6	7.6	38.6	1.3	10.3		21.4	
Paraguay	78	0	15	0	1.0	0.0	4.4	0.0	2.3	0.0	6.1	0.0
Peru	451	487	18	18	0.9	0.7	4.4	3.8	4.2	3.0	5.1	4.2
Philippines	690	463	9	6	0.9	0.7	4.8	3.1	1.7	0.9		7.2
Poland	1,186	1,525	31	40	0.7	0.6	2.9	3.1	2.2	1.3		
	2,100	1,020	91	70	٠.١	٥.٠	۷.٠	J.1		4.0	••	



	develo assista	fficial opment ance or al aid		per pita				•	endency ios			
		llions		\$	% of	as GNI	capital fo		imports and se	ervices	Aid a of cer govern expend	ntral ment diture
	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004
Romania	387	916	17	42	1.1	1.3	6.8	5.0	3.2	2.5	••	
Russian Federation	1,946	1,313	13	9	1.0	0.2	6.7	1.1	3.0	0.9		1.0
Rwanda	373	468	50	53	19.4	25.8	112.2	121.8	81.4	88.8		
Saudi Arabia	29	32	1	1	0.0	0.0	0.1	0.1	0.1	0.0	••	••
Senegal	535	1,052	53	92	11.5	13.9	60.9	57.9	26.7		91.0	····
Serbia and Montenegro	676	1,170	64	144	6.6	4.9	56.9	29.0				
Sierra Leone	74	360	17	67	11.5	34.3	204.7	211.3	36.5	87.1		••
Singapore	-1	9	0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Slovak Republic	319	235	59	44	1.6	0.6	5.7	2.2	2.3			
Slovenia	31	62	16	31	0.1	0.2	0.5	0.7	0.3	0.3	0.4	0.5
Somalia	115	191	17	24								
South Africa	541	617	13	14	0.4	0.3	2.5	1.6	1.5	0.9		1.0
Spain					······							
Sri Lanka	263	519	14	27	1.7	2.7	6.2	10.4	3.7	5.5	7.9	
Sudan	243	882	8	25	2.6	4.5	13.9	20.9	14.7	15.3	30.0	••
Swaziland	29	117	28	104	2.0	4.9	11.2	26.6	2.2	4.5	8.1	
Sweden					•	•	•	•	•	•	•	
Switzerland												
Syrian Arab Republic	228	110	14	6	1.5	0.5	6.8	2.2	3.7	1.2		·····
Tajikistan	123	241	20	37	11.9	12.1	65.0	124.7		16.0	112.7	84.4
Tanzania	990	1,746	29	46	11.6	16.2	73.8	83.8	42.0	52.7		
Thailand 	1,014	-2	17	0	0.9	0.0	4.0	0.0	1.6	0.0		0.0
Togo	71	61	14	10	4.7	3.0	33.9	16.5	10.2			······································
Trinidad and Tobago	26	-1	20	-1	0.4	0.0	1.8	0.0	0.8			
Tunisia - ·	253	328	27	33	1.3	1.2	4.6	4.7	2.5	2.1	4.4	4.1
Turkey	11	257	0	4	0.0	0.1	0.0	0.3	0.0	0.2		·····
Turkmenistan	24	37	5	. 8	1.0	0.6	2.5	2.4				••
Uganda	590	1,159	25	42	9.9	17.3	50.3	75.5	37.6	49.1	70.6	
Ukraine	569	360	11	. 8	1.9	0.6	10.3	2.9	3.5	1.0	7.2	1.7
United Arab Emirates	4	6	1	1	0.0	0.0	0.0	0.0			0.1	····
United Kingdom												
United States	00	00	-		0.4	0.0	0.7	4.0	0.5	0.5	0.4	0.0
Uruguay	22	22	7	6	0.1	0.2	0.7	1.3	0.5	0.5	0.4	0.6
Uzbekistan	155	246	6	9	0.9	2.1	5.2	10.2				
Venezuela, RB	44	49	2	2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	••
Vietnam	1,429	1,830	18	22	5.0	4.1	18.0	11.4	10.1	••		••
West Bank and Gaza	516	1,136	182	324	10.2		35.1					••
Yemen, Rep.	458	252	26	12	6.6	2.1	25.6	11.5	12.8	4.0	27.7	••
Zambia	624	1,081	59	94	21.0	21.2	113.4	77.1	46.1		114.2	••
Zimbabwe	245	186	20	14	4.3	4.0	28.5	31.0	0.7	0.7		
World	60,715 s	·	10 w	14 w	0.2 w	0.2 w 2.8	0.9 w			0.7 w	W	v
Low income	19,714	33,954		14	2.4	•	10.9	11.9	10.3	1.2	•••••••••••••••••••••••••••••••••••••••	······································
Middle income	27,137	31,603	9	10	0.6	0.4	2.4	1.6	1.9	1.2	••	••
Lower middle income Upper middle income	19,713	23,430 6,766	8 11	10 12	0.7 0.3	0.6 0.2	2.8 1.4	1.8 1.0	2.8 0.8	1.6	••	••
Low & middle income	6,158 58 885			•		•	.*	•	•	0.5		···
	58,885	85,456 6,916	12	16	1.1	1.0	4.5	3.8	3.6	2.8		••
East Asia & Pacific	9,890	6,916	6	4	0.6	0.3	2.1	0.7	2.1	0.6	••	····
Europe & Central Asia	11,478	11,869	24	25	1.3	0.7	6.1	2.9	3.2	1.5	••	
Latin America & Carib.	5,937 5,140	6,869	12	13	0.3	0.4	1.6	1.6	1.3	1.2	••	••
Middle East & N. Africa	5,149	10,517	19	35	1.1	1.7	4.7	6.4	4.0	••		
South Asia	4,293	6,758	3	5	0.7	0.8	3.2	3.3	4.2	12.0	••	••
Sub-Saharan Africa	13,263	26,004	21	36	4.2	5.3	22.2	26.1	11.5	13.9	••	••
High income												

Note: Regional aggregates include data for economies not specified elsewhere. World and income group totals include aid not allocated by country or region.

About the data

Ratios of aid to gross national income (GNI), gross capital formation, imports, and government spending provide a measure of the recipient country's dependency on aid. But care must be taken in drawing policy conclusions. For foreign policy reasons, some countries have traditionally received large amounts of aid. Thus aid dependency ratios may reveal as much about a donor's interest as they do about a recipient's needs. Ratios in Sub-Saharan Africa are generally much higher than those in other regions, and they increased in the 1980s. These high ratios are due only in part to aid flows. Many African countries saw severe erosion in their terms of trade in the 1980s, which, along with weak policies, contributed to falling incomes, imports, and investment. Thus the increase in aid dependency ratios reflects events affecting both the numerator and the denominator.

As defined here, aid includes official development assistance (ODA) and official aid (see *About the data* for table 6.9). The data cover loans and grants from Development Assistance Committee (DAC) member countries, multilateral organizations, and non-DAC donors. They do not reflect aid given by recipient countries to other developing countries. As a result, some countries that are net donors (such as Saudi Arabia) are shown in the table as aid recipients (see table 6.10a).

The table does not distinguish among different types of aid (program, project, or food aid; emergency assistance; postconflict peacekeeping assistance; or technical cooperation), each of which may have very different effects on the economy. Expenditures on technical cooperation do not always directly benefit the economy to the extent that they defray costs incurred outside the country on the salaries and benefits of technical experts and the overhead costs of firms supplying technical services.

In 1999, to avoid double counting extrabudgetary expenditures reported by DAC countries and flows

reported by the United Nations, all UN agencies revised their data since 1990 to include only regular budgetary expenditures (except for the World Food Programme and the United Nations High Commissioner for Refugees, which revised their data from 1996 onward). These revisions have affected net ODA and official aid and, as a result, aid per capita and aid dependency ratios.

Because the table relies on information from donors, it is not necessarily consistent with information recorded by recipients in the balance of payments, which often excludes all or some technical assistance—particularly payments to expatriates made directly by the donor. Similarly, grant commodity aid may not always be recorded in trade data or in the balance of payments. Moreover, DAC statistics exclude purely military aid.

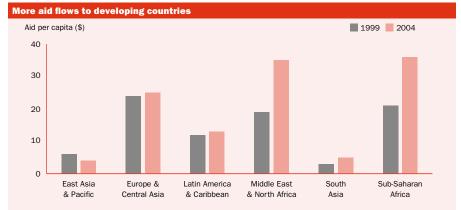
The nominal values used here may overstate the real value of aid to the recipient. Changes in international prices and in exchange rates can reduce the purchasing power of aid. The practice of tying aid, still prevalent though declining in importance, also tends to reduce its purchasing power (see *About the data* for table 6.10).

The values for population, GNI, gross capital formation, imports of goods and services, and central government expenditure used in computing the ratios are taken from World Bank and International Monetary Fund (IMF) databases. The aggregates also refer to World Bank definitions. Therefore the ratios shown may differ somewhat from those computed and published by the Organisation for Economic Cooperation and Development (OECD). Aid not allocated by country or region—including administrative costs, research on development issues, and aid to nongovernmental organizations—is included in the world total. Thus regional and income group totals do not sum to the world total.

Definitions

• Net official development assistance consists of disbursements of loans made on concessional terms (net of repayments of principal) and grants by official agencies of the members of DAC, by multilateral institutions, and by non-DAC countries to promote economic development and welfare in countries and territories in part I of the DAC list of aid recipients. It includes loans with a grant element of at least 25 percent (calculated at a rate of discount of 10 percent). • Net official aid refers to aid flows (net of repayments) from official donors to countries and territories in part II of the DAC list of aid recipients: more advanced countries of Central and Eastern Europe, the countries of the former Soviet Union, and certain advanced developing countries and territories. Official aid is provided under terms and conditions similar to those for ODA. • Aid per capita includes both ODA and official aid. • Aid dependency ratios are calculated using values in U.S. dollars converted at official exchange rates. For definitions of GNI, gross capital formation, imports of goods and services, and central government expenditure, see Definitions for tables 1.1, 4.8, and 4.11.

6.11a



Between 1999 and 2004 the flow of aid to Sub-Saharan Africa and Middle East and North Africa increased while the flow of aid to other regions changed little.

Source: Organisation for Economic Co-operation and Development, Development Assistance Committee.

Data sources

Data on financial flows are compiled by DAC and published in its annual statistical report, *Geographical Distribution of Financial Flows to Aid Recipients*, and in its annual *Development Cooperation Report*. Data are available in electronic format on the OECD's *International Development Statistics* CD-ROM and to registered users at www.oecd.org/dataoecd/50/17/5037721.htm. Data on population, GNI, gross capital formation, imports of goods and services, and central government expenditure are from World Bank and IMF databases.



Distribution of net aid by Development Assistance Committee members

					,	Ten major	DAC donors					
						¢ m	illions					
	Total \$ millions 2004	United States 2004	France 2004	Japan 2004	United Kingdom 2004	Germany		Sweden 2004	Canada 2004	Norway 2004	Spain 2004	Other DAC donors \$ millions 2004
Afghanistan	1,697.5	778.3	15.0	172.5	224.0	75.1	90.3	55.7	56.2	67.7	16.6	146.5
Albania	228.4	40.3	6.6	9.8	4.0	23.6	11.0	5.7	1.1	8.0	1.6	117.1
Algeria	234.6	3.8	172.9	-1.0	0.0	-2.6	0.1	2.0	1.1	1.6	12.7	44.6
Angola	1,015.0	121.3	21.9	25.5	15.1	13.0	19.6	17.3	4.8	24.8	9.3	743.2
Argentina	78.5	1.8	13.6	9.3		10.9	1.0	0.3	2.3	0.0	33.4	6.4
Armenia	133.9	73.1	4.0	4.7	6.6	18.7	9.2	2.3	0.6	3.3	1.4	10.4
Australia Austria									_			···•
Azerbaijan	91.9	47.6	2.4	9.6	0.2	17.0	3.5	0.5	0.9	5.7	0.1	5.1
Bangladesh	632.9	62.9	0.9	38.2	252.7	25.2	65.2	26.6	48.9	23.9	0.1	88.7
Belarus	31.4	2.0	4.4	0.2	0.2	12.6	1.5	6.0	0.2	23.9	0.0	4.8
Belgium										•••	J. U	
Benin	210.3	27.9	62.9	11.2		24.5	10.4	0.1	6.4	0.2	0.3	67.1
Bolivia	557.4	137.6	17.8	50.8	50.8	75.3	48.1	29.0	11.9	3.4	54.5	78.8
Bosnia and Herzegovina	301.0	61.9	3.4	22.2	11.0	29.9	24.8	34.1	5.9	17.0	24.7	66.6
Botswana	32.6	21.1	1.9	-1.4	0.5	3.8	1.2	0.4	1.2	1.6	0.0	2.8
Brazil	147.3	-57.5	31.1	41.7	11.1	51.9	16.3	2.5	9.1	3.1	9.9	28.7
Bulgaria	246.0	38.9	24.7	28.7	3.0	106.5	3.5	0.8	1.7	1.2	0.5	37.1
Burkina Faso	331.3	17.6	83.6	8.5	6.5	38.5	55.0	12.2	16.2	0.2	2.3	91.3
Burundi	184.3	43.8	34.8	0.4	9.5	10.4	23.3	6.6	4.3	11.9	0.8	39.1
Cambodia	297.8	48.1	25.6	86.4	17.6	22.5	8.7	22.6	8.5	3.3	0.1	54.9
Cameroon	572.0	17.2	129.1	16.9	30.0	205.7	11.6	14.3	43.2	1.7	-5.6	108.5
Cantral African Banublia	E4.0	12.0	26.6	0.1	· <u>·</u> ·····	2.4	0.6	0.7	0.4	0.5	0.1	2.0
Central African Republic Chad	54.8 162.2	12.0 47.4	36.6 46.3	0.1 0.7	8.1	31.0	0.6 4.4	0.7 1.5	0.4 1.7	0.5	0.1 3.1	18.7
Chile	25.9	-1.7	46.3 15.1	-34.6	1.1	27.4	1.4	0.8	3.5	3.9	3.4	6.2
China	1,585.4	21.5	102.8	964.7	72.2	260.5	25.6	18.2	34.9	14.8	12.7	58.2
Hong Kong, China	6.3	0.2	2.1	2.2			0.0				0.0	2.3
Colombia	470.0	375.6	5.6	-8.4	2.0	8.8	26.0	14.1	9.2	8.5	9.6	19.7
Congo, Dem. Rep.	1,164.4	189.6	134.7	48.5	301.0	59.3	58.8	23.3	20.3	18.0	6.1	305.5
Congo, Rep.	47.5	0.4	36.1	0.3	4.9	0.5	1.3	3.6	0.4	1.7	-0.3	-0.8
Costa Rica	11.2	-15.1	5.8	-5.2	-15.9	8.9	12.2	1.2	2.9	4.6	9.9	2.5
Côte d'Ivoire	196.0	31.8	62.2	1.9	5.9	14.5	1.9	1.6	4.7	3.0	3.9	65.2
Croatia	87.3	45.9	3.8	0.7	2.3	2.4	2.3	6.9	0.8	14.9	0.6	7.3
Cuba	69.3	10.6	4.3	3.4	3.3	2.9	1.4	2.7	8.2	4.5	16.6	12.1
Czech Republic	42.8	0.7	11.4	1.7		18.2	2.2	0.1	0.5	0.1	0.5	8.2
Denmark	04.4			45.0		40.5					45.4	
Dominican Republic	84.4	-4.1	6.6	15.3	0.2	10.5	1.9	0.1	2.8	0.6	45.1	5.9
Education Pop	159.8	74.5	1.5	-2.7 64.0	-14.8	15.6	12.9	1.3	7.8	2.4	31.5	30.6
Egypt, Arab Rep. El Salvador	1,177.1 201.9	704.5 114.8	109.2 3.6	64.9 2.3	76.8 0.2	107.3 12.7	9.8 6.5	1.7 7.7	10.6 4.8	0.7 1.1	19.8 27.5	72.6 21.4
Eritrea	178.3	95.0	0.8	2.3 1.6	5.0	4.4	12.5	3.2	5.2	18.6	0.2	32.3
Estonia	27.4	2.9	2.3	0.8	5.0	4.5	0.6	4.6	0.4	0.4	0.2	11.5
Ethiopia	1,026.2	402.3	26.3	33.3	147.1	126.1	57.5	50.8	59.5	34.0	0.1	89.1
Finland	-,							- 2.0				30.1
France			-									
Gabon	23.5	2.9	13.7	2.7		1.0	0.8		1.7	0.1	0.0	1.2
Gambia, The	11.7	3.2	0.2	2.7	0.5	1.9	0.5	0.6	0.9	0.3		1.6
Georgia	210.3	92.3	3.9	10.6	3.1	58.4	7.5	4.1	2.5	4.8	0.1	23.5
Germany												
Ghana	896.9	80.4	74.5	115.4	263.5	65.6	152.6	0.5	48.5	1.7	19.1	75.6
Greece				· •	·•·····	· • · · · · · · · · · · · · · · · · · ·				•		···•
Guatemala	203.4	53.5	2.4	25.4	-0.3	23.3	20.9	16.0	7.6	13.0	22.4	19.7
Guinea	178.4	47.7	72.3	16.5	3.2	20.2	3.2	1.4	8.0	1.6		4.8
Guinea-Bissau	28.6	0.1	5.4	0.0		0.8	3.3	2.4	0.7	0.1	1.5	14.9
Haiti	208.7	91.2	25.0	5.9	3.5	7.5	7.1	2.2	37.4	7.0	4.5	18.0

Distribution of net aid by Development Assistance Committee members 6.12



Pendurang Pend							Ten major	DAC donors					
Part							\$ m	illions					
Hungary		\$ millions	States			Kingdom	-				-		DAC donors \$ millions 2004
Incide In	Honduras	328.5	112.1	21.3	31.3	1.2	26.1	16.1	27.7	9.4	1.8	54.0	28.0
Indonesia 1456	Hungary	61.0	1.5	12.8	4.7		22.9	1.8	1.1	0.8	0.1	4.4	11.4
Tran, Isalmic Rep. 1402	India	20.9	50.5	-13.0	-82.1	370.2	-10.7	-315.8	11.6	33.6	13.3	9.5	-45.6
Irea	Indonesia	-145.6	68.9	-28.2	-318.5	8.5	-8.6	-0.5	9.1	9.3	7.4	10.9	96.9
Irespand Issigned Iss	Iran, Islamic Rep.	140.2	4.8	15.7	19.8	4.8	41.2	11.1	2.6	0.4	11.5	3.7	25.2
Israel 477,9 501,1 9.1 0.7 0.1 0.9 2 Israelica 7.8 11.6		4,392.1	3,022.0	4.2	662.1	275.1	10.2	140.8	21.3	72.0	18.5	59.4	107.0
Italy Jamaics 7.8 11.6 -1.5 -15.8 7.5 -10.4 7.7 0.2 9.2 0.3 0.4 -0 Japan Japanics 7.8 11.6 -1.5 -15.8 7.5 -10.4 7.7 0.2 9.2 0.3 0.4 -0 Japan Japanics 7.8 16.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1				*	•								.
Jamelace 7.8 11.6 -1.5 -	•	477.9	501.1	9.1	0.7		-36.6	1.0	••	0.1		0.9	2.1
Japan													
Jordan	•	7.8	11.6	-1.5	-15.8	7.5	-10.4	7.7	0.2	9.2	0.3	0.4	-0.9
Kazakhstata 203.3 56.4 2.8 120.8 1.8 -0.6 3.3 12 0.5 1.5 4.5 1 Kernya 469.5 140.9 32.2 70.9 45.8 41.7 24.4 29.9 18.1 7.9 2.4 55 Korea, Dem. Rep. 137.1 55.7 -0.5 37.4 7.5 0.5 5.4 2.4 5.6 0.1 25 5 Korea, Dem. Rep. 68.7 -44.4 18.2 -58.9 11.5 0.1 3.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Kyrgyr Republic 108.8 39.9 0.9 26.7 6.3 13.7 3.1 2.5 0.3 3.1 0.1 12 Laco PDR 177.6 3.5 19.7 71.7 2.2 15.9 2.4 22.2 2.5 2.5 2.5 1.5 12 Lavia 29.1 2.8 2.0 0.7 6.0 0.6 5.7 0.2 0.3 0.0 11 Lebanon 128.2 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lebanon 128.2 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lebanon 128.2 18.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lebanon 128.2 18.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 0.0 0.5 1.3 10 Liberia 161.9 102.5 0.8 16.5 -3.1 8.6 12.5 1.0 11.6 11 Liberia 161.9 102.5 0.8 16.5 -3.1 8.6 12.5 1.0 11.6 11 Liberia 32.1 1.6 3.7 3.2 9.8 1.2 7.0 0.3 0.6 0.1 5 Macedonia, FYR 161.4 53.1 4.3 4.2 3.0 18.2 28.5 9.3 0.7 12.6 2.3 25 Madagascar 684.8 40.7 484.5 28.0 27.5 7.6 0.9 0.2 17.8 8.5 8.0 62 Malawi 308.4 56.8 1.3 19.0 119.5 24.6 15.8 15.9 16.0 27.2 -0.4 13 Malawi 308.4 56.8 1.3 19.7 119.5 24.6 15.8 15.9 16.0 27.2 -0.4 13 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 2.8 Malawi 33.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 11 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 1.1 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 1.1 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 1.1 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 1.1 Malawi 32.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 0.0 1.1 Malawi 32.5 45.5 81.5 13.7 0.4 26.5 0.5 13.3 0.0 0.0 0.3 0.0 0.0 0.3 0.0 0.0 0.3 0.0 0.0		100.0	0740				01.0						400
Kernya		······			•		· • · · · · · · · · · · · · · · · · · ·					•	19.9
Korea, Rep. 137.1 55.7 -0.5 37.4 7.5 0.5 5.4 2.4 5.6 0.1 23 Korea, Rep. 68.7 -44.4 18.2 -58.9 . 11.5 0.1 . 3.2	•	······		*	•	•••••	•••••				•	•	1.7
Korea, Rep. 68.7 -44.4 18.2 -58.9 . 11.5 0.1		······		•	70.9	· •	· •				•	•	55.9
Kuwait 2.2 - 1.7 0.3 - 0.0 - - 0.0 0 Kyrgyz Republic 108.8 39.9 9 26.7 6.3 13.7 3.1 2.5 0.3 3.1 0.1 12 Labria 197 2.8 2.0 0.7 . 6.0 0.6 5.7 0.2 0.3 0.0 11 Lebanon 128.2 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.0 5.7 0.2 0.3 0.0 11.3 3.3 7 Lesotho 35.1 4.0 0.08 1.2 7.2 5.3 0.1 0.0 5.5 1.3 . 1.6 1.1 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.0 9.0 1.1 1.0 1.1 1.1 1.1 1.1 1.2 2.0		······		*		- *	· • · · · · · · · · · · · · · · · · · ·				•	•	23.6 2.2
Kyrgyz Republic 108.8 39.9 0.9 26.7 6.3 13.7 3.1 2.5 0.3 3.1 0.1 12 Lao PDR 17.6 3.5 19.7 71.7 2.2 15.9 2.4 22.2 2.5 2.5 3.0 0.1 Lebanon 128.2 28.8 85.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7.7 Lesotho 35.1 4.0 -0.8 1.2 7.2 5.3 0.1 0.0 0.5 1.3 16 Lberia 161.9 102.5 0.8 1.2 7.3 8.6 12.5 1.0 11.6 11 Liberia 161.4 5.1 4.3 4.2 3.0 18.2 8.5 1.0 11.6 4.6 1.1 11.6 4.6 1.1 11.6 4.6 1.8 8.0 6.0 1.3 1.0 0.0 0.0 1.0 1.		······		•	•	•••••	•••••			•	•••••	•	0.7
Lao PDR 177.6 3.5 19.7 71.7 2.2 15.9 2.4 22.2 2.5 2.5 35 Latvia 29.1 2.8 2.0 0.7 0.7 6.0 0.6 5.7 0.2 0.3 0.0 15 Latvia 29.1 2.8 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lesotho 35.1 4.0 0.8 1.2 7.2 5.3 0.1 0.0 0.5 1.3 16 1 Lebianon 128.2 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lesotho 35.1 4.0 0.8 1.2 7.2 5.3 0.1 0.0 0.5 1.3 16 1 Lebiano 161.9 102.5 0.8 16.5 -3.1 8.6 12.5 1.0 1.5 1.3 16 1 Lebiano 161.9 102.5 0.8 16.5 -3.1 8.6 12.5 1.0 1.5 1.3 16 1 Lebiano 17.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1		······					•••••				•	•	12.8
Latvia		······		*	***************************************	· · ····	· • · · · · · · · · · · · · · · · · · · ·				*	•	35.6
Lebanon 128.2 28.8 58.6 8.1 0.3 12.0 0.2 0.7 2.7 6.4 3.3 7 Lesotho 35.1 4.0 -0.8 1.2 7.2 5.3 0.1 0.0 0.5 1.3 16 Libria 161.9 10.25 0.8 16.5 -3.1 8.6 12.5 1.0 1.3 16 Libya 9.6 0.0 3.0 0.3 2.8 0.1		······		*	•	-•	•••••				•	•	11.4
Lesotho 35.1 4.0 -0.8 1.2 7.2 5.3 0.1 0.0 0.5 1.3 16		······					· 					•	7.6
Liberia 161.9 102.5 0.8	•	·	•••••	*	*	· * · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •			*	*	•	16.8
Libya 9,6 0,0 3,0 0,3 2,8 0,1		······		•	•	· • · · · · · · · · · · · · · · · · · · ·	•••••				•	•	11.9
Lithuania 32.1 1.6 3.7 3.2 9.8 1.2 7.0 0.3 0.6 0.1 5 Macedonia, FYR 161.4 53.1 4.3 4.2 3.0 18.2 28.5 9.3 0.7 12.6 2.3 25 Madadagascar 684.8 40.7 484.5 28.0 27.5 7.6 0.9 0.2 17.6 8.5 8.0 62 Malawi 308.4 56.8 1.3 19.0 119.5 24.6 15.8 15.9 16.0 27.2 -0.4 13 Malaysia 266.8 1.1 -2.4 256.5 0.5 7.3 0.2 0.3 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9		······			•		· 						3.9
Macedonia, FYR 161.4 53.1 4.3 4.2 3.0 18.2 28.5 9.3 0.7 12.6 2.3 25 Madagascar 684.8 40.7 484.5 28.0 27.5 7.6 0.9 0.2 17.6 8.5 8.0 62 Malawi 308.4 56.8 1.3 19.0 119.5 24.6 15.8 15.9 16.0 27.2 -0.4 43 Malayisia 286.8 1.1 -2.4 256.5 0.5 7.3 0.2 0.3 0.9 0.9 22 Mali 327.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Maurituis 14.7 0.3 12.3 1.15 0.2 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		······	•	*	•		. *			0.3	0.6	0.1	5.3
Madagascar 684.8 40.7 484.5 28.0 27.5 7.6 0.9 0.2 17.6 8.5 8.0 62 Malawi 308.4 56.8 1.3 19.0 119.5 24.6 15.8 15.9 16.0 27.2 -0.4 13 Malaysia 286.8 1.1 -2.4 266.5 0.5 7.3 0.2 0.3 0.9 9.2 Mali 327.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Mauritusi 14.7 0.3 12.3 1.5 0.2 -1.3 0.0 0.0 0.3 0.0 22 Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.2 0.2 5.1 0.4 -28.3 3 Moldova 76.9 32.8 4.2 3.3 4.9 6.5 5.6 7.2 0.6 1.1		······		•	•	3.0	· • · · · · · · · · · · · · · · · · · · ·			•	•	•	25.7
Malaysia 286.8 1.1 -2.4 256.5 0.5 7.3 0.2 0.3 0.9 0.9 22 Mali 327.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Mauritania 82.6 11.0 29.2 11.1 0.5 11.3 0.8 0.4 2.1 0.7 11.5 4 Maurituis 14.7 0.3 12.3 1.5 0.2 -1.3 0.0 0.0 0.3 0.0 2 Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.2 0.2 5.1 0.4 -28.3 3 Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Morridoco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 <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>62.0</td></t<>		·····					· ·· ····					•	62.0
Malif 327.5 45.5 81.5 13.7 0.4 26.4 64.1 14.9 44.1 8.0 1.3 28 Mauritania 82.6 11.1 29.2 11.1 0.5 11.3 0.8 0.4 2.1 0.7 11.5 4 Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.2 0.2 5.1 0.4 -28.3 3 Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Mongolia 154.7 25.9 5.3 65.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morrocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Morrigan 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 <t< td=""><td>Malawi</td><td>308.4</td><td>56.8</td><td>1.3</td><td>19.0</td><td>119.5</td><td>24.6</td><td>15.8</td><td>15.9</td><td>16.0</td><td>27.2</td><td>-0.4</td><td>13.3</td></t<>	Malawi	308.4	56.8	1.3	19.0	119.5	24.6	15.8	15.9	16.0	27.2	-0.4	13.3
Mauritania 82.6 11.0 29.2 11.1 0.5 11.3 0.8 0.4 2.1 0.7 11.5 4 Mauritius 14.7 0.3 12.3 1.5 0.2 -1.3 0.0 0.0 0.3 0.0 2 Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.0 0.0 0.3 0.0 2 Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Morgandia 154.7 25.9 5.3 65.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 2 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 61.1 32.5	Malaysia	286.8	1.1	-2.4	256.5	0.5	7.3	0.2		0.3	0.9	0.9	22.1
Mauritius 14.7 0.3 12.3 1.5 0.2 -1.3 0.0 0.0 0.3 0.0 2 Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.2 0.2 5.1 0.4 -28.3 3 Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Mongolia 154.7 25.9 5.3 66.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.2 26.4 65.8 52.6 14.1 1.1 1.7 23.0	Mali	327.5	45.5	81.5	13.7	0.4	26.4	64.1	14.9	44.1	8.0	1.3	28.2
Mexico 78.9 42.8 18.7 13.0 0.2 23.3 0.2 0.2 5.1 0.4 -28.3 3 Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Mongolia 154.7 25.9 5.3 65.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Mozambique 728.1 110.0 14.6 19.4 65.9 38.7 54.7 67.9 27.3 61.1 32.5 236 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Nembridia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7	Mauritania	82.6	11.0	29.2	11.1	0.5	11.3	0.8	0.4	2.1	0.7	11.5	4.5
Moldova 76.9 32.8 4.2 3.3 4.9 6.3 5.6 7.2 0.6 1.3 0.0 11 Morgolia 154.7 25.9 5.3 65.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands 1.0 1.0 2.0 45.4 45.7 5.5 0.1 7.6 1.9 1.	Mauritius	14.7	0.3	12.3	1.5	0.2	-1.3	0.0	0.0	0.3	0.0		2.0
Mongolia 154.7 25.9 5.3 65.6 7.4 26.5 9.5 2.4 1.3 1.2 2.8 7 Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Mozambique 728.1 110.0 14.6 19.4 66.9 38.7 54.7 67.9 27.3 61.1 32.5 236 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands 38.2 35.4 -2.2 56.4 65.8 22.6 14.1 9.0 12.	Mexico	78.9	42.8	18.7	13.0	0.2	23.3	0.2	0.2	5.1	0.4	-28.3	3.9
Morocco 393.5 -10.3 218.1 66.3 0.1 34.5 6.5 0.7 4.6 0.8 51.0 21 Mozambique 728.1 110.0 14.6 19.4 65.9 38.7 54.7 67.9 27.3 61.1 32.5 236 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 New Zealand 20.1 30.3 40.1 8.1 9.1 9.0 1.0 1.0 9.3 </td <td>Moldova</td> <td>76.9</td> <td>32.8</td> <td>4.2</td> <td>3.3</td> <td>4.9</td> <td>6.3</td> <td>5.6</td> <td>7.2</td> <td>0.6</td> <td>1.3</td> <td>0.0</td> <td>11.3</td>	Moldova	76.9	32.8	4.2	3.3	4.9	6.3	5.6	7.2	0.6	1.3	0.0	11.3
Mozambique 728.1 110.0 14.6 19.4 65.9 38.7 54.7 67.9 27.3 61.1 32.5 236 Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands New Zealand Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 <td>Mongolia</td> <td>·</td> <td>•</td> <td>*</td> <td>*</td> <td></td> <td>. *</td> <td>9.5</td> <td>2.4</td> <td>1.3</td> <td>*</td> <td>•</td> <td>7.4</td>	Mongolia	·	•	*	*		. *	9.5	2.4	1.3	*	•	7.4
Myanmar 81.4 5.7 2.0 26.8 12.0 4.7 2.8 3.7 0.6 7.1 16 Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands New Zealand 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway 0man 2.0 -5.0 1.0 5.3 0.2	Morocco	······		*	66.3	· • · · · · · · · · · · · · · · · · · · ·	· • · · · · · · · · · · · · · · · · · · ·				0.8	•	21.7
Namibia 129.7 34.3 4.3 1.2 2.7 33.2 4.2 9.8 0.7 2.7 11.1 26 Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands New Zealand Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway Oman 2.0 -5.0 1.0 5.3 0.2		······					· 					32.5	236.6
Nepal 318.5 35.4 -2.2 56.4 65.8 52.6 14.1 1.1 7.7 23.0 0.1 65 Netherlands New Zealand Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway 0man 2.0 -5.0 1.0 5.3 0.2		······	•	*	***************************************	· · ····	• • • • • • • • • • • • • • • • • • • •			*	•		16.5
Netherlands New Zealand Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway Oman 2.0 -5.0 1.0 5.3 0.2 1 Pakistan 382.7 76.9 5.1 134.1 90.8 20.4 7.9 2.1 15.5 8.1 0.1 22 Panama 25.3 9.3 0.5 6.2 0.0 1.3 0.3 0.7 6.6 0 Papua New Guinea 249.9 0.1 0.2 -6.1 1.9 0.8 0.1 0.6 0.4 0.1 252 Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal	•	······		*	•	· • · · · · · · · · · · · · · · · · · ·	· • · · · · · · · · · · · · · · · · · ·				*	•	26.0
New Zealand Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway Oman 2.0 -5.0 1.0 5.3 . 0.2		318.5	35.4	-2.2	56.4	65.8	52.6	14.1	1.1	7.7	23.0	0.1	65.2
Nicaragua 858.0 69.7 65.3 29.9 13.4 278.0 40.8 41.1 9.0 12.6 207.7 91 Niger 305.7 19.3 195.8 14.1 8.4 16.7 5.5 0.1 7.6 1.9 1.0 35 Nigeria 314.2 120.2 7.4 8.7 126.1 13.7 3.8 1.2 15.2 5.5 0.6 12 Norway Oman 2.0 -5.0 1.0 5.3 0.2 1 Pakistan 382.7 76.9 5.1 134.1 90.8 20.4 7.9 2.1 15.5 8.1 0.1 22 Panama 25.3 9.3 0.5 6.2 0.0 1.3 0.3 0.7 6.6 0 Papua New Guinea 249.9 0.1 0.2 -6.1 1.9 0.8 0.1 0.6 0.4 0.1 252 Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal				•	•					•		•	
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Norway Oman 2.0 -5.0 1.0 5.3 0.2 1 Pakistan 382.7 76.9 5.1 134.1 90.8 20.4 7.9 2.1 15.5 8.1 0.1 22 Panama 25.3 9.3 0.5 6.2 0.0 1.3 0.3 0.7 6.6 0 Papua New Guinea 249.9 0.1 0.2 -6.1 1.9 0.8 0.1 0.6 0.4 0.1 252 Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4			•••••	•	•	· * ······	• • • • • • • • • • • • • • • • • • • •				•	•	35.8
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Pakistan 382.7 76.9 5.1 134.1 90.8 20.4 7.9 2.1 15.5 8.1 0.1 22 Panama 25.3 9.3 0.5 6.2 0.0 1.3 0.3 0.7 6.6 0 Papua New Guinea 249.9 0.1 0.2 -6.1 1.9 0.8 0.1 0.6 0.4 0.1 252 Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		2.0	- 50	1 0	F 2	· 	0.2					<u>.</u>	1 0
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Papua New Guinea 249.9 0.1 0.2 -6.1 1.9 0.8 0.1 0.6 0.4 0.1 252 Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		······		•	•		•••••				•	•	0.8
Paraguay 5.4 14.8 -0.4 -3.3 -0.5 -19.1 1.9 1.7 2.1 0.6 6.4 1 Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		······		*	***************************************	· •·····	· • · · · · · · · · · · · · · · · · · · ·			*	*	•	252.3
Peru 460.2 177.9 12.8 89.8 5.3 40.7 18.1 4.6 14.2 1.3 56.2 40 Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		·····		*	•	· • · · · · · · · · · · · · · · · · · ·	· • · · · · · · · · · · · · · · · · · ·			***************************************	•	•	1.8
Philippines 433.4 79.5 -6.9 211.4 0.4 39.1 16.9 6.3 12.4 1.9 14.1 59 Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		······					· 					•	40.0
Poland 413.0 -0.8 196.5 -4.0 72.9 1.0 1.3 49.6 0.4 2.1 94 Portugal		······		•	•	· • · · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •				•	•	59.0
Portugal		······		•	•	0.1	· • · · · · · · · · · · · · · · · · · · ·			•	•	•	94.6
											<u> </u>		30
Puerto Rico	Puerto Rico	······		•	•						•	•	



B.12 Distribution of net aid by Development Assistance Committee members

						Ten major	DAC donors	•				
						\$ m	illions					
	Total \$ millions 2004	United States 2004	France 2004	Japan 2004	United Kingdom 2004	Germany 2004	Netherlands	S Sweden	Canada 2004	Norway 2004	Spain 2004	Other DAC donor \$ millions 2004
Romania	209.3	38.0	42.1	34.2	8.5	51.4	2.3	1.0	1.9	0.8	1.5	28.0
Russian Federation	1,075.2	716.4	31.9	4.8	37.9	98.3	12.8	69.7	13.2	29.6	3.3	57.9
Rwanda	217.2	50.3	7.3	0.9	58.2	16.6	25.5	8.5	6.1	6.2	0.4	37.8
Saudi Arabia	8.5	0.1	6.8	-0.2		1.7	0.1		0.0			0.6
Senegal	755.4	49.8	509.8	50.4	9.1	33.1	16.9	8.9	24.6	1.0	18.3	34.0
Serbia and Montenegro	585.3	181.2	9.0	11.4	9.6	115.7	22.8	39.4	10.4	37.0	18.5	130.7
Sierra Leone	163.1	30.1	3.5	0.2	60.9	11.7	9.5	3.2	3.2	5.2	1.6	34.6
Singapore	9.1		3.6	2.7	0.1	1.9			0.0		0.1	1.3
Slovak Republic	58.9	1.1	6.7	22.8	0.0	11.9	2.5	0.1	1.2	0.1	0.3	12.7
Slovenia	4.3	0.9	1.5	0.1	0.1	-2.1	0.3	0.1	0.1	<u>.</u>	0.2	3.7
Somalia	139.3	31.9	0.4		11.8	2.5	18.9	13.7	1.8	33.7		25.1
South Africa	460.4	94.7	2.5	18.8	87.1	56.5	55.7	25.6	12.0	15.9	0.5	91.7
Spain				-	.	· .				<u>+</u>	-	<u>.</u>
Sri Lanka	337.8	-3.4	4.7	179.5	16.8	28.6	13.9	23.0	5.5	30.3	0.6	38.9
Sudan	744.8	377.6	11.6	1.6	116.6	48.3	0.3	26.5	26.3	57.2	7.9	71.5
Swaziland	104.5	1.2	0.1	4.9	1.4	-3.1	97.6	0.2	0.6	0.4		1.8
Sweden												
Switzerland												
Syrian Arab Republic	14.9	0.0	23.7	-26.5	0.1	-0.2	4.8	0.1	1.6	1.3	0.7	9.8
Tajikistan	92.5	47.5	0.3	6.6	1.5	5.4	1.2	3.1	6.9	1.5		19.0
Tanzania	1,029.5	89.5	120.0	52.5	215.6	56.4	117.6	83.6	32.7	59.6	5.8	196.7
Thailand -	-24.9	10.1	-0.5	-55.6	-19.7	-1.5	4.0	6.4	4.0	2.2	0.7	25.6
Togo	52.3	3.6	26.5	0.8	0.3	9.7	1.2	0.2	6.0	0.3	0.7	3.8
Trinidad and Tobago	7.2	1.8	1.7	1.9	0.4	0.4	0.1		1.0		0.1	0.6
Tunisia	230.8	-15.7	141.4	59.7		12.3	-2.4	0.6	0.5	0.1	9.7	25.2
Turkey	-45.4	-29.7	10.7	-25.9	-3.7	-74.6	2.3	1.8	-2.4	1.6	49.5	25.6
Turkmenistan	11.3	6.5	0.8	2.2	0.1	1.2	0.0		0.1	0.1		0.8
Uganda	682.6	207.7	6.2	11.8	107.6	41.8	70.9	42.7	10.2	41.7	3.3	139.3
Ukraine	233.4	102.8	11.3	2.1	11.1	50.8	5.8	9.6	19.3	0.2	0.2	20.6
United Arab Emirates	5.2	0.3	3.6	0.2	···	1.0					0.0	0.5
United Kingdom				···•	···•	••••••						
United States	9.4	-1.6	3.3	2.0	.	0.3	0.0	0.2	1.4		2.7	1.6
Uruguay Uzbekistan	206.1	61.2	3.1	99.8	1.5	0.3 20.3	0.0	0.2	0.8	1.0	1.3	16.8
	28.3		6.6	···•	···•	20.3		0.4	0.8		2.8	2.1
Venezuela, RB Vietnam	1,181.5	9.0 30.5	106.8	4.6 615.3	0.4 67.7	74.8	0.1 52.3	26.8	25.3	0.3 12.1	6.3	164.2
West Bank and Gaza	605.1	273.9	25.2	9.0	29.5	31.2	20.9	39.4	22.4	53.8	23.8	76.6
Yemen, Rep.	152.6	43.3	3.7	18.2	12.7	35.8	29.8	0.3	0.6	0.4	23.6	5.8
Zambia	745.3	81.8	103.8	14.3	282.6	36.2	53.6	26.2	25.0	37.4	0.9	84.2
Zimbabwe	165.4	30.4	3.1	3.6	49.7	15.7	12.4	12.9	11.9	8.1	0.2	18.0
World							2,722.8 s					
Low income	20,730.2	4,206.9	2,730.1	1,973.9	3,307.0	1,748.2	943.1	736.0	780.2	682.2	380.9	3,273.6
Middle income	21,485.4		2,055.1	2,768.1	785.4	1,764.1	839.2	532.3	467.9	430.8	776.2	2,977.5
Lower middle income	16,988.3	6,666.7	1,151.0	2,431.0	637.1	1,375.7	698.4	381.2	343.8	307.0	641.9	2,385.8
Upper middle income	3,359.0	948.1	659.5	333.8	147.3	329.3	101.0	127.6	106.5	82.2	114.6	434.1
Low & middle income	57,254.0	17,285.8	···•	6,030.1	5,408.7	4,311.0	2,732.8	2,198.6	2,080.7	1,581.1	1,413.6	8,210.6
East Asia & Pacific	5,271.0	541.5	395.0	1,980.3	202.3	456.6	141.6	138.4	110.0	68.0	49.9	1,203.2
Europe & Central Asia	5,230.6	1,758.6	483.9	417.4	123.8	730.4	188.4	238.7	119.3	167.0	117.6	902.2
Latin America & Carib.	5,141.7	1,810.3	343.3	309.3	149.8	662.8	289.0	188.5	211.5	90.5	631.5	476.2
Middle East & N. Africa	8,073.3	4,437.9	862.3	888.7	407.6	313.9	225.3	78.0	126.2	98.2	208.6	434.9
South Asia	3,452.1	1,000.5	10.6	514.4	1,020.7	192.2	-112.1	121.0	168.5	167.5	26.9	346.4
Sub-Saharan Africa	17,125.5		3,011.6	641.3	2,329.4	1,246.5	1,210.8	671.2	614.5	623.5	180.6	3,124.9
	,	-,	-,		_,	-,	_,					-,

Note: Regional aggregates include data for economies not specified elsewhere. World and income group totals include aid not allocated by country or region.

About the data

The table shows net bilateral aid to low- and middleincome economies from members of the Development Assistance Committee (DAC) of the Organisation for Economic Co-operation and Development (OECD). The DAC compilation of the data includes aid to some countries and territories not shown in the table and aid to unspecified economies that is recorded only at the regional or global level. Aid to countries and territories not shown in the table has been assigned to regional totals based on the World Bank's regional classification system. Aid to unspecified economies has been included in regional totals and, when possible, in income group totals. Aid not allocated by country or region—including administrative costs, research on development issues, and aid to nongovernmental organizations—is included in the world total. Thus regional and income group totals do not sum to the world total.

In 1999 all UN agencies revised their data since 1990 to include only regular budgetary expenditures (except for the World Food Programme and the United Nations High Commissioner for Refugees, which revised their data from 1996 onward). They did so to

avoid double counting extrabudgetary expenditures reported by DAC countries and flows reported by the United Nations.

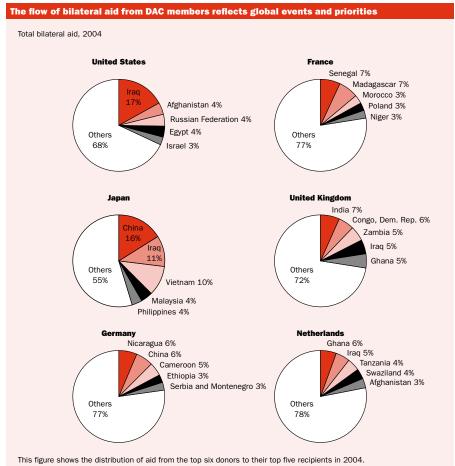
The table is based on donor country reports of bilateral programs, which may differ from reports by recipient countries. Recipients may lack access to information on such aid expenditures as development-oriented research, stipends and tuition costs for aid-financed students in donor countries, and payment of experts hired by donor countries. Moreover, a full accounting would include donor country contributions to multilateral institutions, the flow of resources from multilateral institutions to recipient countries, and flows from countries that are not members of DAC.

The expenditures that countries report as official development assistance (ODA) have changed. For example, some DAC members have reported as ODA the aid provided to refugees during the first 12 months of their stay within the donor's borders.

Some of the aid recipients shown in the table are also aid donors. See table 6.10a for a summary of ODA from non-DAC countries.

Definitions

• Net aid comprises net bilateral official development assistance to part I recipients and net bilateral official aid to part II recipients (see About the data for table 6.9). • Other DAC donors are Australia. Austria. Belgium, Denmark, Finland, Greece, Ireland, Luxembourg, New Zealand, Norway, Portugal, and Switzerland.



Source: Organisation for Economic Co-operation and Development, Development Assistance Committee.

Data on financial flows are compiled by DAC and published in its annual statistical report, Geographical Distribution of Financial Flows to Aid Recipients, and its annual Development Cooperation Report. Data are available electronically on the OECD's International Development Statistics CD-ROM and to registered users at www.oecd. org/dataoecd/50/17/5037721.htm.



Net financial flows from multilateral institutions

		Ir	nternation	ial financial	institutio	ons			U	nited Natio	ns		Total
		David		\$ millions	deve b	gional lopment anks				\$ millions			
	World IDA 2004	IBRD 2004	Conces- sional 2004	Non- concessional 2004	Conces- sional 2004	Non- concessional 2004	Others 2004	UNDP 2004	UNFPA 2004	UNICEF 2004	WFP 2004	Others 2004	\$ millions
Afghanistan								5.8	3.3	11.1	0.2	53.7	74.1
Albania	64.3	0.0	2.4	0.0	0.0	11.2	22.3	2.0	0.3	0.7	0.4	1.5	105.2
Algeria	0.0	-149.2	0.0	-371.6	0.0	-679.6	-53.0	1.1		1.2	2.8	2.3	-1,246.0
Angola	12.9	0.0	0.0	0.0	0.6	-1.6	4.3	3.7	2.1	5.2	14.4	8.7	50.2
Argentina	0.0	-61.0	0.0	-2,035.0	0.0	-145.5	0.0	0.0	0.4	0.4		6.3	-2,234.4
Armenia	77.8	-0.6	1.9	-8.3	0.0	-7.8	-4.0	1.0	0.6	0.7	0.3	2.5	64.0
Australia													
Austria									-				
Azerbaijan	49.2	0.0	-21.7	-38.0	0.0	-8.5	7.7	2.4	0.6	1.1	1.4	2.4	-3.4
Bangladesh	474.3	-7.3	147.4	0.0	-20.8	71.8	13.1	19.6	6.8	11.0	9.9	7.7	733.3
Belarus	0.0	-13.5	0.0	-17.3	0.0	-13.2	0.0	0.6	0.3	0.6	••	1.7	-41.0
Belgium	26.5	0.0	۲,		22.7	0.4	105	0.0	0.0	0.1	2.2		60.7
Benin	36.5	0.0	-5.6	0.0	33.7	-0.4	-12.5	2.3	2.3	2.1	2.3	2.9	63.7
Bolivia	116.6	0.2	-21.8	55.6	80.1	-69.3	103.2	1.4	2.6	2.1	2.2	2.3	275.1
Bosnia and Herzegovina Botswana	208.5 -0.5	-24.4 -1.7	0.0	-29.8 0.0	0.0 1.0	4.8 -9.3	37.9 –10.2	0.8 0.5	0.2 1.2	0.8 0.6	••	11.9 4.2	210.7 -14.3
Brazil	0.0	-116.3	0.0	-4,356.8	0.0	-9.3 -1,468.2	-10.2 -4.5	1.1	0.9	1.7	••	132.4	-14.3 -5,809.7
Bulgaria	0.0	123.7	0.0	-4,356.8 -55.1	0.0	-10.9	-4.5 80.6	0.6	0.3		••	1.9	141.0
Burkina Faso	128.6	0.0	2.2	0.0	37.6	-0.2	14.6	7.0	2.7	5.3	4.5	3.4	205.7
Burundi	29.3	0.0	39.1	-28.5	-13.3	-7.0	-0.6	8.9	1.6	3.4	3.8	9.6	46.3
Cambodia	46.3	0.0	-10.4	0.0	53.5	0.0	9.5	6.3	2.8	4.1	3.1	2.3	117.5
Cameroon	96.9	-29.7	-22.9	0.0	48.5	-26.1	2.6	3.6		2.7	1.4	5.2	82.1
Canada									•				
Central African Republic	0.0	0.0	-2.4	8.3	0.0	0.0	-1.6	4.2	1.8	2.7	3.8	5.3	21.9
Chad	69.9	5.9	-12.9	0.0	7.5	0.0	12.7	5.7	2.3	4.8	4.7	6.5	107.1
Chile	-0.7	18.8	0.0	0.0	-1.8	-49.8	-1.5	0.5	0.2	0.5		1.8	-32.0
China	-116.7	306.3	0.0	0.0	0.0	200.3	-201.5	9.0	4.8	12.3	6.3	7.3	228.2
Hong Kong, China												0.0	0.0
Colombia	-0.7	200.0	0.0	0.0	-17.3	-71.0	115.3	1.4	1.9	1.0	0.0	3.8	234.3
Congo, Dem. Rep.	166.6	0.0	79.1	0.0	44.4	0.0	-10.9	11.7	4.8	18.7	3.4	15.3	333.1
Congo, Rep.	23.6	-3.2	7.5	-7.8	-0.7	-74.7	-2.3	1.1	0.9	1.0	1.9	8.0	-44.7
Costa Rica	-0.2	-8.7	0.0	0.0	-11.8	1.7	39.1	0.5	0.5	0.6		2.0	23.8
Côte d'Ivoire	33.1	-38.4	-126.7	0.0	1.1	-0.4	-12.2	4.9	1.4	3.5	-0.4	12.0	-122.1
Croatia	0.0	36.0	0.0	0.0	0.0	43.6	19.0	0.4		0.2		5.3	104.5
Cuba								0.8	0.9	0.8	3.0	1.7	7.1
Czech Republic	0.0	-18.9	0.0	0.0	0.0	-13.4	87.1				••	2.4	57.2
Denmark													
Dominican Republic	-0.7	29.3	0.0	64.9	-20.3	208.7	2.6	0.6	0.8	0.9	0.2	4.9	291.8
Ecuador	-1.1	-52.9	0.0	-112.0	-27.0	-90.5	46.6	0.9	1.1	1.3	0.1	3.2	-230.3
Egypt, Arab Rep.	36.2	-51.8	0.0	0.0	15.4	0.3	-18.3	1.2	2.4	2.7	3.9	6.5	-1.4
El Salvador	-0.8	-24.3	0.0	0.0	-23.5	-20.6	-34.1	0.5	1.0	0.6	1.1	1.3	-98.8
Eritrea	35.1	0.0	0.0	0.0	19.1	0.0	-1.4	2.4	1.9	1.6	2.5	5.3	66.4
Estonia Ethionia	0.0 189.2	-4.1 0.0	0.0	0.0	0.0	0.0 -4.4	-3.4 11.1	11.0	0.0 5.3	196		0.3 15.9	-7.1
Ethiopia Finland	109.2	0.0	21.9	0.0	68.3	-4.4	11.1	11.0	5.3	18.6	9.8	15.9	346.7
France						<u>.</u>		-	-				
Gabon	0.0	-11.7	0.0	37.0	-0.2	52.6	5.0	0.5	0.2	0.6		5.4	89.5
Gambia, The	19.4	0.0	-11.2	0.0	6.7	0.0	7.6	2.1	0.2	0.8	0.9	2.5	29.7
Georgia	64.4	0.0	-20.4	-13.7	0.0	-6.3	-5.6	1.8	0.7	0.9	0.9	4.2	25.7
Germany	04.4	0.0	-20.4	-13.1	0.0	-0.3	-3.0	1.0	0.5	0.1	0.0	+.∠	۷.۱
Ghana	218.3	-1.6	15.5	0.0	47.9	6.6	32.9	4.1	4.2	3.9	0.8	6.7	339.2
Greece	210.0	1.0	10.0	0.0	71.3	0.0	J2.3	7.1	7.2	5.5	0.0	0.1	555.2
Guatemala	0.0	50.0	0.0	0.0	-18.4	61.1	10.3	0.8	4.4	1.1	0.4	1.2	111.0
Guinea	31.2	0.0	-19.1	0.0	1.3	-40.6	-24.2	1.1	2.0	2.8	2.5	13.5	-29.5
Guinea-Bissau	24.9	0.0	-3.1	-2.2	4.1	0.0	-0.7	2.6	1.0	1.3	2.2	2.0	32.1
Haiti	-40.5	0.0	-4.4	-2.7	-11.5	0.0	-1.4	3.8	2.2	4.2	6.9	1.7	-41.8
-													

Net financial flows from multilateral institutions 6.13



		In	ternation	al financial i	institutio	ns			U	nited Natio	ons		Total
				\$ millions	deve	gional lopment anks							
	World IDA 2004	d Bank IBRD 2004	Conces- sional 2004	Non- concessional 2004	Concessional	Non- concessional 2004	Others 2004	UNDP 2004	UNFPA 2004	\$ millions UNICEF 2004	WFP 2004	Others 2004	\$ millions
Honduras	113.4	-15.1	21.0	0.0	114.5	-21.6	12.7	1.0	3.2	1.4	2.1	2.2	234.8
Hungary	0.0	-39.5	0.0	0.0	0.0	-3.1	478.7					2.7	438.7
India	422.3	616.2	0.0	0.0	0.0	423.4	-24.0	20.3	11.9	28.9	8.5	11.1	1,518.6
Indonesia	94.8	-825.6	0.0	-1,004.9	34.8	5.1	-36.3	7.8	5.3	5.5	0.6	6.9	-1,705.9
Iran, Islamic Rep.	0.0	-34.3	0.0	0.0	0.0	0.0	2.0	1.2	2.2	1.8	0.1	19.7	-7.3
Iraq							••	3.9	3.8	1.3	3.0	1.5	13.5
Ireland						.			•				
Israel												0.2	0.2
Italy													
Jamaica	0.0	-40.7	0.0	-8.0	-5.3	1.9	33.7	0.5		0.9		1.3	-15.6
Japan										<u> </u>			
Jordan	-2.6	-56.7	0.0	-98.0	0.0	0.0	-38.0	0.7	0.6	0.6	1.7	92.4	-99.3
Kazakhstan	0.0	-27.4	0.0	0.0	0.0	0.7	-17.9	0.7	0.6	1.0		2.0	-40.3
Kenya	26.7	-4.8	-14.1	0.0	16.6	-1.9	-7.5	5.0	2.7	5.3	7.4	18.4	53.8
Korea, Dem. Rep.								0.9	1.0	1.1	7.5	2.6	13.0
Korea, Rep.								0.1				0.9	1.0
Kuwait						••					••	0.4	0.4
Kyrgyz Republic	22.7	0.0	-3.9	0.0	54.4	-8.0	1.5	2.1	0.7	1.1		1.4	72.0
Lao PDR	29.2	0.0	-7.8	0.0	35.0	0.0	-2.7	3.3	1.2	1.8	2.0	2.5	64.4
Latvia	0.0	-8.0	0.0	-5.7	0.0	-2.5	-238.1	0.4	0.1			0.5	-253.3
Lebanon	0.0	14.2	0.0	0.0	0.0	0.0	-1.8	0.7	0.8	0.6		62.1	76.6
Lesotho	10.1	-2.4	9.8	0.0	9.0	-1.7	-0.3	1.3	0.4	1.5	6.3	1.8	35.7
Liberia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.9	3.2	6.6	2.1	18.1
Libya												6.6	6.6
Lithuania	0.0	-92.8	0.0	-19.8	0.0	-0.6	-0.9	0.3	0.1			0.4	-113.4
Macedonia, FYR	13.6	32.2	-8.1	-0.4	0.0	4.1	27.7	1.0		0.7		3.0	73.8
Madagascar	216.7	0.0	45.5	0.0	46.8	-2.4	19.5	3.8	2.0	5.0	2.4	2.0	341.2
Malawi	50.9	-0.5	-9.5	0.0	23.4	-0.4	-6.2	5.6	4.0	4.9	4.9	3.7	80.8
Malaysia	0.0	-69.8	0.0	0.0	0.0	-43.1	49.5	0.2	0.4	0.5		1.1	-61.2
Mali	69.0	0.0	-16.1	0.0	38.2	0.0	14.2	8.3	2.3	6.0	3.0	3.3	128.1
Mauritania	36.8	0.0	-9.4	0.0	10.3	11.1	25.4	2.2	2.0	1.3	1.7	3.1	84.6
Mauritius	-0.6	-9.0	0.0	0.0	-0.1	-9.4	-2.6	0.1	0.1			1.0	-20.6
Mexico	······	-1,153.3	0.0	0.0	0.0	174.6	0.0	0.8	2.1	0.8		9.0	-966.0
Moldova	17.2	-10.4	0.0	-21.6	0.0	-8.0	-13.1	1.5	0.2	0.7		1.6	-32.0
Mongolia	47.2	0.0	-7.2	0.0	36.1	0.0	4.6	1.5	1.1	1.0		2.3	86.5
Morocco	-1.4	-338.2	0.0	0.0	3.9	120.0	59.9	0.8	2.6	1.8	0.2	3.6	-146.8
Mozambique	185.7	0.0	-6.7	0.0	86.0	-0.8	21.9	8.5	9.0	8.5	5.2	6.8	324.0
Myanmar	0.0	0.0	0.0	0.0	0.0	0.0	-1.7	7.5	4.0	7.0	1.3	5.1	23.2
Namibia	0.0	0.0	0.0	0.0	0.0	0.0		0.8	1.1	1.1	2.5	6.5	12.0
Nepal	 45.3	0.0	9.8	0.0	-9.1	0.0	-2.0	7.4	5.8	5.4	9.6	5.9	78.1
Netherlands	40.0	0.0	3.0	0.0	3.1	0.0	2.0	1.4	5.0	J. 4	3.0	5.9	10.1
New Zealand						··•·····••			•				
Nicaragua	126.0	0.0	32.7	0.0	139.7	-1.5	9.7	2.9	3.4	0.8	4.5	1.9	320.0
Niger	63.2	0.0	5.8	0.0	27.6	-1.5 12.5	9.7 2.2	2.9 5.9	3.4	6.9	4.5 5.6	2.6	135.3
Niger Nigeria	137.2	-216.4	0.0	0.0	-1.2	-60.9	0.0	3.5	6.4	24.5	٥.٥	10.9	-96.0
	131.2	-∠10.4	0.0	0.0	-1.2	-00.9	0.0	ა.ט	0.4	24.0	••	10.9	-90.0
Norway Oman	0.0	0.0	0.0	0.0	0.0	0.0	_125.2					11	-134.1
Oman Pakistan		•	•••••			0.0	-135.2	71	 5 0	40.6		1.1	. *
Pakistan	676.1	-303.1	146.9	-460.5	70.8	-950.5 27.0	92.0	7.1	5.0	12.6	8.6	28.6	-666.4
Panama	0.0	-25.4	0.0	-9.9 FO.0	-8.9	-27.9	-6.0	0.6	0.6	0.6	••	15.1	-61.3
Papua New Guinea	-3.6	-13.0	0.0	-59.9	2.7	-3.6	-3.6	2.2	0.8	1.3		2.3	-74.2
Paraguay	-1.5	-16.7	0.0	0.0	-15.1	8.4	-3.1	0.4	1.1	0.8		0.6	-25.2
Peru	0.0	45.4	0.0	-39.6	-10.1	245.4	237.4	0.8	9.4	1.2	1.2	6.6	497.7
Philippines	-6.9	-226.4	0.0	-472.5	-15.7	-133.9	21.9	2.2	4.5	2.3	••	5.0	-819.5
Poland Portugal	0.0	-676.5	0.0	0.0	0.0	0.0	0.0	0.5	0.1			1.2	-674.7



Net financial flows from multilateral institutions

IDA 2004	d Bank IBRD 2004 142.0 -608.3 0.0 0.0 0.0 74.4 0.0 7.0 -2.0 0.8 88 -4.5 0.0 -2.9	Concessional 2004 0.0 0.0 1.129.4 0.0 40.2 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0	\$ millions IMF	devel back Conces-	gional opment anks Non-concessiona 2004 62.0 143.8 0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Others 2004 161.7	UNDP 2004 0.7 0.8 5.1 4.4 0.6 5.9 5.0 3.1 2.5 10.7 0.4 1.4 3.6	UNFPA 2004 0.5 0.7 2.1 2.2 1.8 0.4 0.4 0.6	\$ millions UNICEF 2004 0.8 1.3 3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2	WFP 2004 1.6 7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7	Others 2004 2.0 9.3 6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	\$ millions 2004 243.1 -2,106.9 121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
IDA 2004 2	1BRD 2004 142.0 -608.3 0.0 0.0 0.0 74.4 0.0 -2.0 8.8 -4.5 0.0 -2.9	Concessional 2004 0.0 0.0 1.129.4 0.0 40.2 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0	Non- concessional 2004 -170.9 -1,656.0 0.0 0.0 0.0 0.0 -103.4 -31.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Concessional 2004 44.3 0.0 15.9 51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8	Non- concessiona 2004 62.0 143.8 0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0 0.0	2004 161.7 0.0 -1.9 79.8 0.0 12.8152.4 0.0 33.5 45.2 7.9 -47.2 13.2	2004 0.7 0.8 5.1 4.4 0.6 5.9 5.0 3.1 2.5 10.7 0.4	2004 0.5 0.7 2.1 2.2 1.8 0.4 0.4 0.4 2.4	UNICEF 2004 0.8 1.3 3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2	2004 1.6 7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7	2004 2.0 9.3 6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	2004 243.1 -2,106.9 121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Russian Federation 0.0 Rwanda 82.2 Saudi Arabia Senegal 158.0 Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland 54.6 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turikad -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Kingdom United States Uruguay 0.0 Uzbekistan 4.5	-608.3 0.0 0.0 0.0 0.0 74.4 0.0 7.0 0.0 -2.0 0.0 8.8	0.0 1.129.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0	-1,656.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 15.9 51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8	143.8 0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	0.0 -1.9 79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9	0.8 5.1 4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	0.7 2.1 2.2 1.8 0.4 0.4 1.0 4.0 0.6	1.3 3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2	7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7	9.3 6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	-2,106.9 121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Russian Federation 0.0 Rwanda 82.2 Saudi Arabia Senegal 158.0 Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland 5yrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turikey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 <t< td=""><td>-608.3 0.0 0.0 0.0 0.0 74.4 0.0 7.0 0.0 -2.0 0.0 8.8</td><td>0.0 1.129.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0</td><td>-1,656.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>0.0 15.9 51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8</td><td>143.8 0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0</td><td>0.0 -1.9 79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9</td><td>0.8 5.1 4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4</td><td>0.7 2.1 2.2 1.8 0.4 0.4 1.0 4.0 0.6</td><td>1.3 3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2</td><td>7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7</td><td>9.3 6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7</td><td>-2,106.9 121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1</td></t<>	-608.3 0.0 0.0 0.0 0.0 74.4 0.0 7.0 0.0 -2.0 0.0 8.8	0.0 1.129.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0	-1,656.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 15.9 51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8	143.8 0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	0.0 -1.9 79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9	0.8 5.1 4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	0.7 2.1 2.2 1.8 0.4 0.4 1.0 4.0 0.6	1.3 3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2	7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7	9.3 6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	-2,106.9 121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Rwanda 82.2 Saudi Arabia Senegal 158.0 Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Somalia 0.0 South Africa 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Switzerland Switzerland 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza	0.0 0.0 0.0 0.0 74.4 0.0 7.0 0.0 0.0 4.5 0.0 -2.9	1.129.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	15.9 51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8 0.0	0.01.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	-1.9 79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9 -47.2 13.2	5.1 4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	2.1 2.2 1.8 0.4 0.4 1.0 4.0 0.6	3.6 2.5 0.7 2.5 4.8 1.1 1.0 7.0 1.2	7.0 2.5 0.0 4.8 1.7 3.4 10.8 0.7	6.9 14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	121.9 14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Saudi Arabia Senegal 158.0 Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland 54.6 Fajikistan 54.6 Fazijikistan 54.6 Fazijikistan 54.6 Fazijikistan 54.6 Fazijikistan 54.6 Fazijikistan -2.1 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkey -5.9 Turkey -5.9 Ulrited Arab Emirates Ulrited Kingdom Ulrited Kingdom	 0.0 0.0 0.0 74.4 0.0 7.0 0.0 8.8	29.4	 0.0 0.0 0.0 0.0 0.0 -103.4 -31.3 0.0	51.0 0.0 31.0 0.0 0.0 0.0 75.2 0.0 -0.8	1.7 0.0 0.0 1.6 0.0 30.5 17.2 -3.1 9.7	 79.8 0.0 12.8 -152.4 0.0 0.0 33.5 45.2 7.9	4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	2.2 1.8	2.5 0.7 2.5 	2.5 0.0 4.8 	14.6 4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	14.6 273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Senegal 158.0 Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Somalia 0.0 Somalia 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland 54.6 Tarjikistan 54.6 Tarzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turinidad and Tobago 0.0 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Kingdom United Kingdom Uriguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza <t< td=""><td>0.0 0.0 0.0 74.4 0.0 7.0 -2.0 0.0 8.8</td><td>-29.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0</td><td>0.0 0.0 0.0 0.0 0.0 0.0 -103.4 -31.3 0.0</td><td>51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8 0.0 19.1 58.6</td><td>-1.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0</td><td>79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9 -47.2 13.2</td><td>4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4</td><td>2.2 1.8 0.4 0.4 1.0 4.0 0.6</td><td>2.5 0.7 2.5 4.8 1.1 1.0 7.0</td><td>2.5 0.0 4.8 1.7 3.4 10.8 0.7</td><td>4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7</td><td>273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1</td></t<>	0.0 0.0 0.0 74.4 0.0 7.0 -2.0 0.0 8.8	-29.4 0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 0.0 0.0 0.0 -103.4 -31.3 0.0	51.0 0.0 31.0 0.0 0.0 75.2 0.0 -0.8 0.0 19.1 58.6	-1.7 0.0 0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	79.8 0.0 12.8152.4 0.0 0.0 33.5 45.2 7.9 -47.2 13.2	4.4 0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	2.2 1.8 0.4 0.4 1.0 4.0 0.6	2.5 0.7 2.5 4.8 1.1 1.0 7.0	2.5 0.0 4.8 1.7 3.4 10.8 0.7	4.2 22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	273.4 186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Serbia and Montenegro 161.9 Sierra Leone 30.6 Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland 54.6 Sarjikistan 54.6 Farajikistan 54.6 Farazania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turinidad and Tobago 0.0 Turkey -5.9 Turkmenistan Uganda 120.6 Uhriane 0.0 United Kingdom United Kingdom Urited Kingdom Urited Rabe 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam	0.0 0.0 74.4 0.0 7.0 -2.0 0.0 8.8 -4.5 0.0	0.0 40.2 0.0 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 0.0 0.0 -103.4 -31.3 0.0	0.0 31.0 0.0 0.0 0.0 75.2 0.0 -0.8	0.0 0.0 -1.6 0.0 30.5 17.2 -3.1 9.7	0.0 12.8 -152.4 0.0 0.0 33.5 45.2 7.9	0.6 5.9 0.5 5.0 3.1 2.5 10.7 0.4	1.8	0.7 2.5 4.8 1.1 1.0 7.0 1.2	0.0 4.8 1.7 3.4 10.8 0.7	22.9 13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	186.0 142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Sierra Leone 30.6 Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Fajikistan 54.6 Fazikistan 54.6 Fazikistan 54.6 Fazikistan -2.1 Fogo 0.0 Frinidad and Tobago 0.0 Furnidad and Tobago 0.0 Jyrinidad and Tobago <td>0.0 74.4 0.0 7.0 -2.0 0.0 8.8 -4.5 0.0 -2.9</td> <td>40.2 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0</td> <td>0.0 0.0 0.0 0.0 -103.4 -31.3 0.0</td> <td>31.0 0.0 0.0 0.0 75.2 0.0 -0.8</td> <td>0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0</td> <td>12.8 -152.4 0.0 0.0 33.5 45.2 7.9</td> <td>5.9 0.5 5.0 3.1 2.5 10.7 0.4</td> <td>1.8 0.4 0.4 1.0 4.0 0.6</td> <td>2.5 </td> <td>4.8 1.7 3.4 10.8 0.7</td> <td>13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7</td> <td>142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1</td>	0.0 74.4 0.0 7.0 -2.0 0.0 8.8 -4.5 0.0 -2.9	40.2 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 0.0 -103.4 -31.3 0.0	31.0 0.0 0.0 0.0 75.2 0.0 -0.8	0.01.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	12.8 -152.4 0.0 0.0 33.5 45.2 7.9	5.9 0.5 5.0 3.1 2.5 10.7 0.4	1.8 0.4 0.4 1.0 4.0 0.6	2.5 	4.8 1.7 3.4 10.8 0.7	13.2 0.1 1.7 0.9 3.9 5.7 4.2 15.7	142.9 0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Singapore Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Farazania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkey -5.9 Turkey -5.9 Turkey -0.0 Ukraine 0.0 Ukraine 0.0 United Arab Emirates Urited States Urited States Urited Ringdom Urited Ringdom <td> 74.4 0.0 7.02.0 0.0 8.84.5 0.0 -2.9</td> <td> 0.0 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0</td> <td> 0.0 0.0 0.0 -103.4 -31.3 0.0</td> <td> 0.0 0.0 0.0 75.2 0.0 -0.8</td> <td>1.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0 0.0 0.0</td> <td>152.4 0.0 0.0 33.5 45.2 7.9</td> <td>0.5 5.0 3.1 2.5 10.7 0.4</td> <td></td> <td></td> <td>1.7 3.4 10.8 0.7</td> <td>0.1 1.7 0.9 3.9 5.7 4.2 15.7</td> <td>0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1</td>	74.4 0.0 7.02.0 0.0 8.84.5 0.0 -2.9	 0.0 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	 0.0 0.0 0.0 -103.4 -31.3 0.0	 0.0 0.0 0.0 75.2 0.0 -0.8	1.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0 0.0 0.0	152.4 0.0 0.0 33.5 45.2 7.9	0.5 5.0 3.1 2.5 10.7 0.4			1.7 3.4 10.8 0.7	0.1 1.7 0.9 3.9 5.7 4.2 15.7	0.1 -77.4 0.9 15.7 47.8 54.1 57.2 28.1
Slovak Republic 0.0 Slovenia Somalia 0.0 South Africa 0.0 Spain Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkey -5.9 Turkey -5.9 Turkey -0.0 Ukraine 0.0 United Arab Emirates United Kingdom United States Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2	74.4 0.0 7.0 -2.0 0.0 8.8 -4.5 0.0 -2.9	 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 -103.4 -31.3 0.0	0.0 0.0 75.2 0.0 -0.8 0.0 19.1 58.6	-1.6 0.0 30.5 17.2 -3.1 9.7 0.0 0.0 0.0	 0.0 0.0 33.5 45.2 7.9 -47.2 13.2	0.5 5.0 3.1 2.5 10.7 0.4	 0.4 0.4 1.0 4.0 0.6	4.8 1.1 1.0 7.0 1.2	3.4 10.8 0.7	1.7 0.9 3.9 5.7 4.2 15.7	-77.4 0.9 15.7 47.8 54.1 57.2 28.1
Slovenia Somalia 0.0 South Africa 0.0 Spain 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United Kingdom United States Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low Income	 0.0 7.0 -2.0 0.0 8.8 -4.5 0.0	 0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	 0.0 0.0 -103.4 -31.3 0.0	0.0 0.0 75.2 0.0 -0.8 0.0 19.1 58.6	 0.0 30.5 17.2 -3.1 9.7	 0.0 0.0 33.5 45.2 7.9 -47.2 13.2	 5.0 3.1 2.5 10.7 0.4	0.4 0.4 1.0 4.0 0.6	1.0 7.0 1.2	3.4 10.8 0.7	0.9 3.9 5.7 4.2 15.7	0.9 15.7 47.8 54.1 57.2 28.1
Somalia 0.0 South Africa 0.0 Spain 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	0.0 7.0 -2.0 0.0 8.8 -4.5 0.0	0.0 0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 0.0 -103.4 -31.3 0.0 0.0 0.0	0.0 0.0 75.2 0.0 -0.8 0.0 19.1 58.6	0.0 30.5 17.2 -3.1 9.7 0.0 0.0	0.0 0.0 33.5 45.2 7.9 -47.2 13.2	5.0 3.1 2.5 10.7 0.4	0.4 0.4 1.0 4.0 0.6	4.8 1.1 1.0 7.0 1.2	1.7 3.4 10.8 0.7	3.9 5.7 4.2 15.7	15.7 47.8 54.1 57.2 28.1
South Africa 0.0 Spain 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	7.0 -2.0 0.0 8.8 -4.5 0.0 -2.9	0.0 -8.3 0.0 0.0 0.0 17.1 -16.2 0.0	0.0 -103.4 -31.3 0.0 0.0 0.0 0.0	0.0 75.2 0.0 -0.8 0.0 19.1 58.6	30.5 17.2 -3.1 9.7 0.0 0.0	0.0 33.5 45.2 7.9 -47.2 13.2	3.1 2.5 10.7 0.4	0.4 1.0 4.0 0.6	1.1 1.0 7.0 1.2	3.4 10.8 0.7	5.7 4.2 15.7	47.8 54.1 57.2 28.1
Spain 29.9 Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	-2.0 0.0 8.8 -4.5 0.0 -2.9	-8.3 0.0 0.0 17.1 -16.2 0.0	-103.4 -31.3 0.0 0.0 0.0 0.0	75.2 0.0 -0.8 0.0 19.1 58.6	17.2 -3.1 9.7 0.0 0.0	33.5 45.2 7.9 -47.2 13.2	2.5 10.7 0.4	1.0 4.0 0.6	1.0 7.0 1.2	3.4 10.8 0.7	4.2 15.7	54.1 57.2 28.1
Sri Lanka 29.9 Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United Kingdom Urited States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	0.0 8.8 -4.5 0.0 -2.9	0.0 0.0 0.0 17.1 -16.2 0.0	-31.3 0.0 0.0 0.0 0.0	0.0 -0.8 0.0 19.1 58.6	-3.1 9.7 0.0 0.0 0.0	45.2 7.9 -47.2 13.2	10.7 0.4 1.4	4.0 0.6 2.4	7.0 1.2	10.8 0.7	15.7 	57.2 28.1
Sudan -1.8 Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turikey -5.9 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	0.0 8.8 -4.5 0.0 -2.9	0.0 0.0 0.0 17.1 -16.2 0.0	-31.3 0.0 0.0 0.0 0.0	0.0 -0.8 0.0 19.1 58.6	-3.1 9.7 0.0 0.0 0.0	45.2 7.9 -47.2 13.2	10.7 0.4 1.4	4.0 0.6 2.4	7.0 1.2	10.8 0.7	15.7 	57.2 28.1
Swaziland -0.3 Sweden Switzerland Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	-4.5 0.0 -2.9	0.0 0.0 17.1 -16.2 0.0	0.0 0.0 0.0 0.0	0.0 19.1 58.6	9.7 0.0 0.0 0.0	7.9 -47.2 13.2	0.4 1.4	2.4	1.2	0.7		
Switzerland Syrian Arab Republic	0.0 -2.9	17.1 -16.2 0.0	0.0 0.0	19.1 58.6	0.0 0.0	13.2	•		1.0	1 7	25.4	
Syrian Arab Republic -1.5 Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	0.0 -2.9	17.1 -16.2 0.0	0.0 0.0	19.1 58.6	0.0 0.0	13.2	•		1.0	17	25.4	
Tajikistan 54.6 Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom Uriguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	0.0 -2.9	17.1 -16.2 0.0	0.0 0.0	19.1 58.6	0.0 0.0	13.2	•		1.0	17	25.4	*
Tanzania 329.9 Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkinisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	-2.9	-16.2 0.0	0.0	58.6	0.0	•	3.6	^ ^	4.0	4.1	33.I	-11.7
Thailand -3.4 Togo 0.0 Trinidad and Tobago 0.0 Turkinidad and Tobago 0.0 Turkinidad and Tobago -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7		0.0	-		· 	6.2		0.6	1.3	1.7	1.9	113.1
Togo 0.0 Trinidad and Tobago 0.0 Tunisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7		···•···	0.0	_3 U		0.3	7.2	5.9	10.0	3.5	3.1	405.5
Trinidad and Tobago 0.0 Tunisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World Low income 5,195.7	-1,615.0			-3.0	-76.7	-15.0	1.4	0.9	0.9		6.4	-1,703.5
Tunisia -2.1 Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7	0.0	-16.1	0.0	0.0	9.9	7.1	2.1	1.3	1.6		1.9	7.8
Turkey -5.9 Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7	-15.2	0.0	0.0	-0.1	-16.1	-6.1	0.5				1.9	-35.2
Turkmenistan Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7	-88.7	0.0	0.0	0.0	72.2	223.0	0.5	0.8	0.8		2.2	208.7
Uganda 120.6 Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low Income 5,195.7	919.5	0.0	-3,504.1	0.0	0.0	285.1	0.1	1.1	1.4		6.9	-2,296.0
Ukraine 0.0 United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low Income 5,195.7							0.7	0.5	1.1		1.3	3.5
United Arab Emirates United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7	0.0	-26.2	0.0	52.9	0.0	-0.6	5.4	5.3	7.8	12.5	12.3	190.0
United Kingdom United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7	-132.9	0.0	-299.1	0.0	11.7	-62.6	2.2	0.5	1.1		3.6	-475.5
United States Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7											0.3	0.3
Uruguay 0.0 Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7				***************************************		•	•					•
Uzbekistan 4.5 Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7												
Venezuela, RB 0.0 Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7	63.6	0.0	151.9	-2.4	-57.2	-0.5	0.2	0.3	0.5		0.9	157.4
Vietnam 435.7 West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7	4.5	0.0	-24.6	2.6	85.6	5.0	2.3	0.7	1.9		1.9	84.3
West Bank and Gaza Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7	-191.4	0.0	0.0	0.0	-189.7	100.1	0.5	1.0	0.7		6.0	-272.9
Yemen, Rep. 66.2 Zambia 140.7 Zimbabwe 0.0 World s Low income 5,195.7	0.0	-71.6	-1.5	145.6	-2.0	4.4	6.4	7.7	4.4		4.8	533.8
Zambia 140.7 Zimbabwe 0.0 Worlds Low income 5,195.7							4.0	1.9	1.6	2.7	273.9	284.1
Zimbabwe 0.0 Worlds Low income 5,195.7	0.0	-31.4	-9.9	0.0	0.0	11.7	5.5	4.1	3.6	7.5	5.7	63.0
World s Low income 5,195.7	-3.3	-4.5	0.0	9.2	-15.2	28.3	4.3	1.5	4.0	7.7	13.7	186.4
Low income 5,195.7	-1.7	-15.1	-5.8	-1.1	0.0	5.6	3.0	1.4	2.5	-2.4	4.9	-8.8
	·	s	s s		9	s	388.9 s	314.3 s	655.1 s	269.6 s	1,534.2 s	3,162.1
Middle income 938.1	-11.8	117.5	-648.2	•	-594.7	389.3	289.2	159.4	293.4	209.3	400.3	7,108.4
	-4,782.7	-45.4	-14,114.9	234.3	-1,686.7	1,427.3	86.1	86.8	83.2	59.9	907.2	-16,806.9
	-2,921.1	···•	-7,073.3	*	-1,565.4	857.3	72.5	70.4	71.1	58.3	*	-8,562.4
Upper middle income -0.6	2,021.1	5.0	-7,041.6	-25.7	-121.3	569.9	12.7	11.7	11.6	1.6	•	-8,273.4
Low & middle income 6,133.9	-2,921.1 -1,861.6	72.1	-14,763.1	1,543.4	-2,281.4	1,816.5	380.5	314.3	655.1	269.6	1,513.6	-9,139.9
East Asia & Pacific 525.6	*	-97.0	-1,538.8	287.9	-47.3	-172.7	52.0	39.2	46.1	21.0	58.1	-3,271.8
Europe & Central Asia 732.8	-1,861.6	-32.6	-5,858.5	120.5	353.2	832.4	28.2	9.3	19.2	5.4	98.2	-4,015.6
Latin America & Carib. 323.6	-1,861.6 -4,794.5	35.4	-6,291.7	202.0	-1,532.8	746.7	22.2	43.4	26.7	21.8	236.3	-7,480.7
Middle East & N. Africa 103.5	-1,861.6 -4,794.5 -2,445.8		-479.6	21.8	-487.0	19.8	21.5	24.8	18.2	25.0	552.8	-919.7
South Asia 1,661.6	-1,861.6 -4,794.5 -2,445.8 -323.6	-31.4	-564.0	122.7	-438.1	114.0	65.0	35.2	71.9	42.8	114.2	1,824.8
Sub-Saharan Africa 2,786.7	-1,861.6 -4,794.5 -2,445.8 -323.6 -1,314.4	-31.4 295.7	-504.0	700 4	-129.5	276.6	186.4	106.2	200.2	153.6	351.7	4,286.3
High income	-1,861.6 -4,794.5 -2,445.8 -323.6 -1,314.4 -709.2	···•	-30.5	788.4								

Note: The aggregates for the United Nations and total net financial flows include amounts for economies not specified elsewhere.

About the data

The table shows concessional and nonconcessional financial flows from the major multilateral institutions—the World Bank, the International Monetary Fund (IMF), regional development banks, UN agencies, and regional groups such as the Commission of the European Communities. Much of the data comes from the World Bank's Debtor Reporting System.

The multilateral development banks fund their nonconcessional lending operations primarily by selling low-interest, highly rated bonds (the World Bank, for example, has a AAA rating) backed by prudent lending and financial policies and the strong financial support of their members. These funds are then on-lent at slightly higher interest rates and with relatively long maturities (15–20 years) to developing countries. Lending terms vary with market conditions and the policies of the banks.

Concessional flows from bilateral donors are defined by the Development Assistance Committee (DAC) of the Organisation for Economic Co-operation and Development (OECD) as financial flows containing a grant element of at least 25 percent. The grant element of loans is evaluated assuming a nominal market interest rate of 10 percent. The grant element is nil for a loan carrying a 10 percent interest rate, and it is 100 percent for a grant, which requires no repayment. Concessional flows from multilateral development agencies are credits provided through their concessional lending facilities. The cost of these loans is reduced through subsidies provided by donors or drawn from other resources available to the agencies. Grants provided by multilateral agencies are not included in the net flows.

All concessional lending by the World Bank is carried out by the International Development Association

(IDA). Eligibility for IDA resources is based on gross national income (GNI) per capita; countries must also meet performance standards assessed by World Bank staff. Since July 1, 2005, the GNI per capita cutoff has been set at \$825, measured in 2003 using the World Bank Atlas method (see Users guide). In exceptional circumstances IDA extends eligibility temporarily to countries that are above the cutoff and are undertaking major adjustment efforts but are not creditworthy for lending by the International Bank for Reconstruction and Development (IBRD). An exception has also been made for small island economies. Lending by the International Finance Corporation is not included in this table.

The IMF makes concessional funds available through its Poverty Reduction and Growth Facility, which replaced the Enhanced Structural Adjustment Facility in 1999, and through the IMF Trust Fund. Eligibility is based principally on a country's per capita income and eligibility under IDA, the World Bank's concessional window.

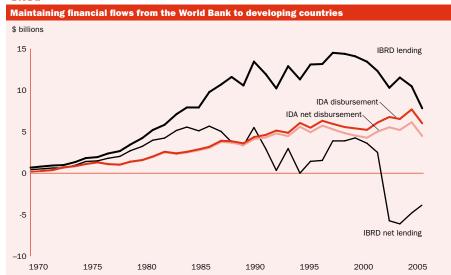
Regional development banks also maintain concessional windows for funds. Loans from the major regional development banks—the African Development Bank, Asian Development Bank, and Inter-American Development Bank—are recorded in the table according to each institution's classification.

In 1999 all UN agencies revised their data since 1990 to include only regular budgetary expenditures (except for the World Food Programme and the United Nations High Commissioner for Refugees, which revised their data from 1996 onward). They did so to avoid double counting extrabudgetary expenditures reported by DAC countries and flows reported by the United Nations.

Definitions

• Net financial flows are disbursements of public or publicly guaranteed loans and credits, less repayments of principal. • IDA is the International Development Association, the concessional loan window of the World Bank. • IBRD is the International Bank for Reconstruction and Development, the founding and largest member of the World Bank Group. • IMF is the International Monetary Fund. Its nonconcessional lending consists of the credit it provides to its members, mainly to meet their balance of payments needs. It provides concessional assistance through the Poverty Reduction and Growth Facility and the IMF Trust Fund. • Regional development banks include the African Development Bank, in Tunis, Tunisia, which lends to all of Africa, including North Africa; the Asian Development Bank, in Manila, Philippines, which serves countries in South and Central Asia and East Asia and Pacific; the European Bank for Reconstruction and Development, in London, United Kingdom, which serves countries in Europe and Central Asia; the European Development Fund, in Brussels, Belgium, which serves countries in Africa, the Caribbean, and the Pacific; and the Inter-American Development Bank, in Washington, D.C., which is the principal development bank of the Americas. Concessional financial flows cover disbursements made through concessional lending facilities. Nonconcessional financial flows cover all other disbursements. • Others is a residual category in the World Bank's Debtor Reporting System. It includes such institutions as the Caribbean Development Bank and the European Investment Bank. • United Nations includes the United Nations Development Programme (UNDP), United Nations Population Fund (UNFPA), United Nations Children's Fund (UNICEF), World Food Programme (WFP), and other UN agencies, such as the United Nations High Commissioner for Refugees, United Nations Relief and Works Agency for Palestine Refugees in the Near East, and United Nations Regular Programme for Technical Assistance.

6.13a



As the World Bank's nonconcessional lending portfolio matures, repayment of principal has begun to balance out new disbursements. IDA, as the World Bank's concessional financing arm, has maintained a steady flow of new funds to the world's progrest countries.

Source: World Bank Debtor Reporting System.

Data sources

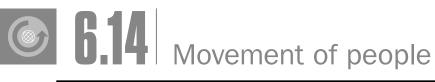
Data on net financial flows from international financial institutions are from the World Bank's Debtor Reporting System. These data are published in the World Bank's *Global Development Finance 2006* and electronically as *GDF Online*. Data on aid from UN agencies are from the DAC annual *Development Cooperation Report*. Data are available in electronic format on the OECD's *International Development Statistics* CD-ROM and to registered users at www. oecd.org/dataoecd/50/17/5037721.htm.



	Net mi	gration	Migratio	on stock		Refu	ugees			orkers' rem		
						thou	sands			\$ mil	lions	
		ands 1995–2000	thous	ands 2005	By countr	ry of origin 2004	By country 1995	of asylum 2004	Rec 1990	eived 2004	Pa 1990	id 2004
Afghanistan	3,313	-397	29	43	2,679.1	2,085.5	19.6	0.0				
Albania	-423	-267	66	83	5.8	10.5	4.7	0.1	0	889		4
Algeria	-58	-185	274	242	1.5	10.7	192.5	169.0	352	2,460	31	
Angola	143	-120	34	56	246.7	228.8	10.9	14.0			150	296
Argentina	50	-100	1,650	1,500	0.3	0.8	10.3	2.9	15	288	21	151
Armenia	-500 390	-225 510	659	235	201.4	13.4 0.0	219.0 62.1	235.2		336	 674	127
Australia Austria	262	510 45	3,984 473	4,097 1,234	0.0 0.1	0.0	34.4	63.5 17.8	2,370 635	2,744 2,475	320	1,955 2,013
Azerbaijan	-116	-128	361	1,234	200.5	250.6	233.7	8.6	033	2,473	•••••••••••••••••••••••••••••••••••••••	200
Bangladesh	-260	-300	882	1,032	57.0	5.7	51.1	20.4	779	3,584		8
Belarus	15	14	1,271	1,191	0.1	8.2	29.0	0.7		244		80
Belgium	85	99	899	719	0.0	0.0	31.7	13.5	3,583	6,840	2,310	2,623
Benin	105	-29	76	175	0.1	0.3	23.8	4.8	101	55	21	6
Bolivia	-100	-100	60	116	0.2	0.3	0.7	0.5	5	158	8	43
Bosnia and Herzegovina	-1,000	350	56	41	769.8	229.3	40.0	22.2		1,824		26
Botswana	-7	-7	27	80	0.0	0.0	0.3	2.8	86	39	119	206
Brazil	-184	-130	804	641	0.1	0.4	2.1	3.3	573	3,575	12	401
Bulgaria Burkina Faso	-309 -128	-50 -121	22 345	104 773	4.2 0.1	2.6 0.9	1.3 29.8	4.7 0.5	140	103 50	 81	11 44
Burundi	-128 -250	-121 -400	333	100	350.6	485.8	173.0	48.8			6	44
Cambodia	194	100	38	304	61.2	18.1	0.0	0.4	9	 177	14	139
Cameroon	-5	0	171	137	2.0	7.6	45.8	58.9	23	11	111	
Canada	643	733	4,319	6,106	0.0	0.1	152.1	141.4				
Central African Republic	37	11	63	76	0.2	31.1	33.9	25.0			36	
Chad	20	99	74	437	59.7	52.7	0.1	259.9	1		39	
Chile	90	60	108	231	14.3	1.2	0.3	0.6	1	13	7	3
China	-1,281	-1,950	380	596	104.7	134.7	288.3	299.4	210	21,283	5	2,067
Hong Kong, China	300	300	2,218	2,999	0.2	0.0	1.5	1.9		240		319
Colombia Congo, Dem. Rep.	-200 1 208	-200 1 410	102 919	123	1.9	47.4	0.2	0.1	495	3,190	44	50
Congo, Rep.	1,208 14	-1,410 42	130	539 288	89.7 0.2	462.2 28.2	1,433.8 19.4	199.3 68.5	4	1	 55	24
Costa Rica	62	128	418	441	0.2	0.1	24.2	10.4	12	320		192
Côte d'Ivoire	200	150	1,953	2,371	0.2	23.7	297.9	72.1	44	148	471	635
Croatia	153	-150	475	661	245.6	215.5	198.6	3.7		1,222		69
Cuba	-100	-100	100	74	24.9	15.7	1.8	0.8				
Czech Republic	38	52	424	453	2.0	4.5	2.7	1.1		454		1,337
Denmark	58	84	220	389	0.0	0.0	64.8	65.3	464	1,075	160	1,226
Dominican Republic	-220	-180	103	156	0.0	0.1	1.0	••	315	2,471	••	24
Ecuador	-50	-300	78	114	0.2	0.7	0.2	8.5	51	1,610	2	7
Egypt, Arab Rep.	-600 57	-500	176	166	0.9	5.4	5.4	90.3	4,284	3,341	27	13
El Salvador Eritrea	-57 -359	-38 -9	47 12	24 15	23.5 286.7	4.5 131.1	0.2 1.1	0.2 4.2	366	2,564	3	33
Estonia	-359 -117	-9 -46	382	202	280.7	1.0	1.1	0.0		164		27
Ethiopia	888	- 7 7	1,155	555	101.0	63.1	 393.5	116.0	 5	133	1	9
Finland	43	20	61	156	0.0	0.0	10.2	11.3	63	577	_ 16	164
France	424	219	5,907	6,471	0.0	0.1	155.2	139.9	4,035	12,663	6,949	4,882
Gabon	20	14	128	245	0.0	0.0	0.8	13.8		6	147	115
Gambia, The	45	45	118	232	0.2	0.8	6.6	7.3	10	8		
Georgia	-560	-350	338	191	0.3	6.6	0.1	2.6		303		26
Germany	2,688	1,134	5,936	10,144	0.4	0.7	1,267.9	876.6	4,876	6,497	6,856	10,442
Ghana	40	-51	717	1,669	13.6	14.8	83.2	42.1	6	82	4	6
Greece	470	300	412	974	0.2	0.3	4.4	2.5	1,817	1,242	122	497
Guinea	-360 350	-390 227	264 402	53	42.9	4.4	1.5	0.7	119	2,591	14	36
Guinea Guinea-Bissau	350 20	-227 -11	402 14	406 19	0.4 0.8	3.9 1.0	672.3 15.4	139.3 7.5	<i>27</i> 1	42 23	20 12	48 7
Haiti	–105	-105	19	30	13.9	9.2	10.4		61	23 876	63	
	100	100	тэ	30	10.0	ع.∠			OT	010	00	

Movement of people 6.14

	Net mig	gration	Migratio	on stock		Refu	igees			orkers' rem mpensation		
							sands			\$ mil		
	thous 1990–95	ands 1995–2000	thous 1990	ands 2005	By country 1995	of origin	By country 1995	of asylum 2004	Rece 1990	eived 2004	Pa 1990	id 2004
Honduras	-40	-20	270	26	1.2	0.6	0.1	0.0	63	1,142		1
Hungary	101	100	348	316	2.4	3.4	11.4	7.7		307		128
India	-1,407	-1,400	7,493	5,700	5.0	13.3	227.5	162.7	2.384	21,727	106	1,008
Indonesia	_725	-900	466	160	9.8	27.9	0.0	0.2	166	1,866		913
Iran, Islamic Rep.	-1,512	-456	3,809	1,959	112.4	115.1	2,072.0	1,046.0	1,200	1,032		
Iraq	170	139	84	28	718.7	311.9	116.7	46.1	_,			
Ireland	-1	89	230	585	0.0	0.0	0.4	7.2	286	358	165	856
Israel	484	276	1,633	2,661	0.9	0.6		0.6	812	398	850	2,116
Italy	573	600	1,346	2,519	0.1	0.2	74.3	15.7	5,075	2,172	3,764	4,745
Jamaica	-100	-100	21	2,319	0.0	0.2	0.0	•••••••••••••••••••••••••••••••••••••••	229	1,623	27	425
Japan	248	280	877	2,048	0.0	0.0	5.4	2.0	508	931	290	1,411
Jordan ^a	495	35	1,146	2,048	0.5	1.2	0.7	1.1	499	2,287	290 71	272
Kazakhstan	-1,509	-1,320	3,619	2,225	0.5	6.1	15.6	15.8	499	2,287	······	1,353
Kenya	-1,509 222	-1,320 -21	3,619	2,502 345	9.3	3.8	234.7	239.8	139	494	7	34
		······					234.7	239.8	139	494	······································	34
Korea, Dem. Rep.	0	0	34	37	0.0	0.3						
Korea, Rep.	-115	-80	572	551	0.0	0.2	0.0	0.0	1,037	832	364	2,545
Kuwait	-626	347	1,551	1,669	0.8	0.6	3.3	1.5	••		770	2,402
Kyrgyz Republic	-273	-27	623	288	0.0	3.3	13.4	3.8		189		73
Lao PDR	-10	-7	23	25	58.2	16.1			11	1		1
Latvia	-174	-56	805	449	0.2	3.2	<u> </u>	0.0		230		13
Lebanon ^a	178	-30	520	657	13.5	19.9	1.9	1.8	1,818	2,700		
Lesotho	-84	-36	7	6	0.0	0.0	0.1		428	355		29
Liberia	-283	555	81	50	744.6	335.5	120.1	15.2				
Libya	10	10	457	618	0.6	1.6	4.0	12.2	····	10	446	790
Lithuania	-100	-109	349	165	0.1	1.5	0.0	0.5		325		28
Macedonia, FYR	-27	-5	95	121	12.9	5.1	9.0	1.0		213		16
Madagascar	-6	-3	58	63	0.1	0.1	0.1		8	16	18	7
Malawi	-835	-50	1,157	279	0.0	0.1	1.0	3.7		1		1
Malaysia	230	390	1,014	1,639	0.1	0.2	5.3	24.9	325	987	230	3,464
Mali	-260	-284	60	46	77.2	0.5	17.9	11.3	107	154	45	58
Mauritania	-15	10	94	66	84.3	31.1	34.4	0.5	14	2	31	
Mauritius	-7	-2	9	21	0.0	0.1				215	1	11
Mexico	-1,800	-2,000	702	644	0.4	1.7	38.7	4.3	3,098	18,143		
Moldova	-121	-70	579	440	0.5	11.9		0.1		703		52
Mongolia	-60	-90	7	9	0.0	0.3				203		49
Morocco	-300	-300	85	132	0.3	1.3	0.1	2.1	2,006	4,221	16	42
Mozambique	650	75	122	406	125.6	0.1	0.1	0.6	70	58	25	20
Myanmar	-126	60	101	117	152.3	161.0			6	118		25
Namibia	3	20	119	143	0.0	1.3	1.7	14.8	13	15	30	18
Nepal	-101	-99	413	819	0.0	1.2	124.8	124.9	0	823		64
Netherlands	190	161	1,192	1,638	0.1	0.3	80.0	126.8	709	2,164	1,393	5,153
New Zealand	79	20	529	642		0.0	3.8	5.4	762	1,132	367	911
Nicaragua	-110	-155	41	28	23.9	1.8	0.6	0.3	0	519		
Niger	5	-6	115	124	10.3	0.7	27.6	0.3	14	26	66	9
Nigeria	-96	-95	447	971	1.9	23.9	8.1	8.4	10	2,273	9	21
Norway	42	67	185	344	0.0	0.0	47.6	44.0	158	392	295	916
Oman	25	-40	452	628	0.0	0.0		0.0	39	40	856	1,826
Pakistan	-2,611	-41	6,556	3,254	5.3	25.9	1,202.5	960.6	2,006	3,945	1	11
Panama	-2,011 8	11	62	102	0.2	0.0	0.9	1.6	110	127	22	87
Papua New Guinea	0	0	33	25	2.0	0.0	9.6	7.6	5	6	43	17
Paraguay	-25	-25	183	168	0.1	0.0	0.1	0.0	34	260	•••••••••••	Τ1
Peru	-25 -450	-25 -350	163 56	42	5.9	4.8	0.6	0.8	34 87	1,123	 75	123
Philippines	-430 -900	-900	164	374	0.5	0.4	0.8	0.8	1,465	11,634	75 5	16
Poland	-900 -77	······	1,127	703	19.7	10.7	0.6	2.5	1,400	•	······································	460
	-77 -7	-71 175							4 470	2,710		
Portugal		175	436	764	0.0	0.1	0.2	0.4	4,479	3,212	77	1,024
Puerto Rico	-4	-1	322	418	0.0							



	Net mi	gration	Migrati	on stock		Refi	ugees			orkers' ren mpensatior		
	thous	sands	thou	sands	By count	thou ry of origin	ısands By countr	y of asylum	Rec	\$ mi eived	llions P	aid
	1990-95	1995–2000	1990	2005	1995	2004	1995	2004	1990	2004	1990	2004
Romania	-529	-350	143	133	17.0	5.9	0.2	1.6		132		8
Russian Federation	1,858	2,300	11,525	12,080	207.0	108.0	246.7	1.9		2,668		5,534
Rwanda	-1,714	1,977	73	121	1,819.4	63.8	7.8	50.2	3	10	21	31
Saudi Arabia	-325	75	4,743	6,361	0.3	0.2	13.2	240.6			11,221	13,555
Senegal	-100	-100	293	326	17.6	8.3	66.8	20.8	142	511	79	57
Serbia and Montenegro	200	-100	130	512	86.1	237.0	650.7	276.7		4,129		
Sierra Leone	-380	-110	112	119	379.5	41.8	4.7	65.4		25		3
Singapore	250	368	727	1,843	0.0	0.0	0.1	0.0				
Slovak Republic	9	9	41	124	0.0	0.7	2.3	0.4		425		15
Slovenia	38	8	178	167	12.9	0.6	22.3	0.3	38	290	2	60
Somalia	-1,083	-214	633	282	638.7	389.3	0.6	0.4				
South Africa	1,125	364	1,225	1,106	0.5	0.3	101.4	27.7	136	521	1,199	935
Spain	500	676	766	4,790	0.0	0.1	5.9	5.6	2,186	6,900	254	5,411
Sri Lanka	-182	-160	461	368	107.6	114.0	0.0	0.1	401	1,590		236
Sudan	-158	-207	1,273	639	445.3	730.7	674.1	141.6	62	1,403	2	2
Swaziland	-38	-12	73	45	0.0	0.0	0.7	0.7	113	89	4	131
Sweden	151	60	781	1,117	0.0	0.0	199.2	73.4	153	643	654	672
Switzerland	80	80	1,376	1,660	0.0	0.0	82.9	47.7	924	1,760	8,168	12,796
Syrian Arab Republic ^a	-30	-30	711	985	8.0	21.4	36.2	15.6	385	855		42
Tajikistan	-313	-345	426	306	59.0	56.8	0.6	3.3		252		119
Tanzania	591	-206	574	792	0.1	0.7	829.7	602.1		11		33
Thailand	-88	-88	391	1,050	0.2	0.3	106.6	121.1	973	1,622	199	
Togo	-122	128	163	183	93.2	10.8	10.9	11.3	27	149	13	28
Trinidad and Tobago	-24	-20	51	38	0.0	0.0		····	3	87	22	
Tunisia	-22	-20	38	38	0.3	2.6	0.2	0.1	551	1,432	13	19
Turkey	71	135	1,150	1,328	44.9	174.6	12.8	3.0	3,246	804	••	
Turkmenistan	50	-50	307	224	0.1	0.8	23.3	13.3				
Uganda	135	-66	550	518	24.2	32.0	229.4	250.5		306		231
Ukraine	598	- 700	7,097	6,833	1.7	89.6	5.2	2.5		411		20
United Arab Emirates	340	567	1,330	3,212	0.0	0.0	0.4	0.1		·····		
United Kingdom	381	574	3,753	5,408	0.1	0.2	90.9	289.1	2,099	6,350	2,034	2,957
United States	5,200	6,200	23,251	38,355	0.3	0.4	623.3	420.9	1,170	3,038	11,850	38,751
Uruguay	-20	-16	98	84	0.3	0.1	0.1	0.1		57		1
Uzbekistan	-340	-400	1,653	1,268	0.1	7.3	2.6	44.5				
Venezuela, RB	40	40	1,024	1,010	0.5	0.6	1.6	0.2	1	20	701	214
Vietnam	-270	-200	28	21	543.5	349.8	34.4	2.4		3,200		
West Bank and Gaza ^a	-5 050	11	911	1,680	72.8	350.6				692		
Yemen, Rep.	650	-50	107	265	0.4	1.6	53.5	66.4	1,498	1,283	106	108
Zambia	-7 182	86 425	280	275	0.0	0.1	130.0	173.9			17	24
Zimbabwe	–182 ^b	–125 b	804	511	0.0	9.6	0.5	6.9 9,236.8 s	1	227,579 s	16	454.070
World								4,054.4		•	•	3 040
Low income	-3,592	-4,422	32,672	28,018	9,143.2	5,854.5	7,369.9	.*	8,115	43,967	1,471	3,049
Middle income Lower middle income	-9,367	-9,689	50,374 25,684	49,923 24,234	3,358.7 2,804.9	2,795.0 2,260.7	4,487.2 4,060.2	2,563.5	23,036	117,127 84,060	4,610 793	22,929
	-11,096 1,720	-10,646 957	24,690			534.3		2,438.6	13,919	•••••	•	7,284
Upper middle income Low & middle income	1,729 –12,958	–14,111	83,047	25,689	553.8 12,501.9	8,649.4	427.0 11,857.0	124.9 6,617.8	9,117 31,151	33,067 161,094	3,817 6,081	15,645 25,978
East Asia & Pacific	-12,958 -3,072	-14,111 -3,859	2,748	4,432	932.9	708.3	447.0	456.1	31,151	41,250	527	6,770
Europe & Central Asia	-3,398	-3,659 -1,858	34,071	31,137	1,881.8	1,454.9	1,436.9	657.3	3,246	19,431	•••••	9,725
Latin America & Carib.	-3,396 -3,776	-1,656 -4,156	6,355	5,795	155.7	88.9	93.9	36.2	5,776	41,051	1,002	1,895
Middle East & N. Africa	-1,030	-4,136 -1,396	8,828	9,642	948.0	835.5	2,510.4	1,468.7	11,432	20,353	1,566	3,112
South Asia	-1,030 -1,368	-1,390 -2,401	15,845	11,229	2,958.7	2,349.9	1,625.5	1,268.8	5,572	31,671	1,300	1,388
Sub-Saharan Africa	-1,306 -314	-2,401 -439	15,200	15,706	5,624.8	3,211.9	5,743.4	2,730.8	1,862	7,339	2,871	3,089
High income	12,929	-439 14,104	71,641	112,264						•••••	•	
HISD INCOME					16.6	0.6	3,039.1	2,618.9	37,433	66,485	60,214	128,092

a. Palestinian refugees under the mandate of the United Nations Relief and Works Agency for Palestine Refugees in the Near East are not included in statistics from the United Nations Office of the High Commissioner for Refugees. b. World totals computed by the United Nations sum to zero, but because the aggregates shown here refer to World Bank definitions, regional and income group totals do not equal zero.

Movement of people

About the data

Movement of people, most often through migration, is a significant part of integration. Migrants contribute to the economies of both their host country and their country of origin. Yet reliable statistics on migration are difficult to collect and are often incomplete, making international comparisons a challenge.

The United Nations Population Division provides data on net migration and migration stock. To derive estimates of net migration, the organization takes into account the past migration history of a country or area, the migration policy of a country, and the influx of refugees in recent periods. The data to calculate these official estimates come from a variety of sources, including border statistics, administrative records, surveys, and censuses. When no official estimates can be made due to insufficient data, net migration is derived through the balance equation, which is the difference between overall population growth and the natural increase during the 1990-2000 intercensal period.

The data used to estimate the international migrant stock at a particular point in time are obtained mainly from population censuses. The estimates are derived from the data on foreign-born population—those who have residence in one country but who were born in another country. When data on the foreign-born population are not available, data on foreign population are used as estimates.

After the breakup of the Soviet Union in 1991, people living in one of the newly independent countries who were born in another of the countries were classified as international migrants. Estimates of migration stock in the newly independent states from 1990 on are based on the 1989 census of the

For countries with information on the international migration stock for at least two points in time, interpolation or extrapolation was used to estimate the

Source: International Monetary Fund Balance of Payments database.

international migrant stock on July 1 of the reference years. For countries with only one observation, estimates for the reference years were derived using rates of change in the migrant stock in the years preceding or following the single observation available. A model was used to estimate migration for countries that had no data.

Registration, together with other sources—including estimates and surveys-are the main sources of refugee data. Yet there are difficulties in collecting accurate statistics. Although refugees are often registered individually, the accuracy of registrations varies greatly. Many refugees may not be aware of the need to register or may choose not to do so. And administrative records tend to overestimate the number of refugees because it is easier to register than to de-register. Palestinian refugees under the mandate of the United Nations Relief and Works Agency for Palestinian Refugees in the Near East are not included in the statistics of the United Nations Office of the High Commissioner for Refugees (UNHCR).

Workers' remittances and compensation of employees are World Bank staff estimates based on data from the International Monetary Fund's (IMF) Balance of Payments Yearbook. The IMF data are supplemented by World Bank staff estimates for missing data for countries where workers' remittances are important. The data reported here are the sum of three items defined in the IMF Balance of Payments Manual (fifth edition). These are workers' remittances, compensation of employees, and migrants' transfers. Workers' remittances are classified as current private transfers from migrant workers who are residents of the host country to recipients in their country of origin. They include only transfers made by workers who have been living in the host country for more than a year, irrespective of their immigration status. Compensation of employees is the income of

migrants who have lived in the host country for less than a year. Migrants' transfers are defined as the net worth of migrants who are expected to remain in the host country for more than one year that is transferred from one country to another at the time of migration.

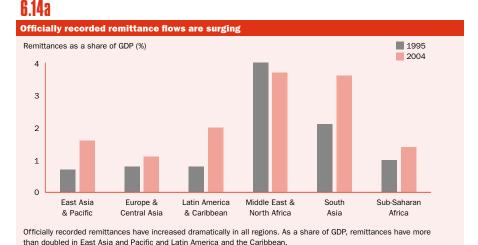
The distinction between these three items is not always consistent in the data reported by countries to the IMF. In some cases, countries compile data on the basis of the citizenship of migrant workers rather than their residency status. Some countries also report remittances entirely as workers' remittances or compensation of employees. Following the fifth edition of the Balance of Payments Manual in 1993, migrants' transfers are considered a capital transaction but in previous editions they were regarded as current transfers. For these reasons the figures presented in the table take all three items into account.

Definitions

• Net migration is the net average annual number of migrants during the period, that is, the annual number of immigrants less the annual number of emigrants, including both citizens and noncitizens. Data are five-year estimates. • Migration stock is the number of people born in a country other than that in which they live. It includes refugees. • Refugees are people who are recognized as refugees under the 1951 Convention Relating to the Status of Refugees or its 1967 Protocol, the 1969 Organization of African Unity Convention Governing the Specific Aspects of Refugee Problems in Africa, people recognized as refugees in accordance with the UNHCR statute, people granted a refugee-like humanitarian status, and people provided with temporary protection. Asylum seekers are people who have applied for asylum or refugee status and who have not yet received a decision or who are otherwise registered as asylum seekers. • Country of origin generally refers to the nationality or country of citizenship of a claimant.

• Country of asylum is the country where an asylum claim was filed. • Workers' remittances and compensation of employees, received and paid comprise current transfers by migrant workers and wages and salaries earned by nonresident workers.

Data on net migration come from the United Nations Population Division's World Population Prospects: The 2004 Revision. Data on migration stock come from the United Nations Population Division's Trends in Total Migrant Stock: The 2005 Revision. Data on refugees are from the United Nations Office of the High Commissioner for Refugees' Statistical Yearbook 2004. Data on remittances are World Bank staff estimates based on IMF balance of payments data.





		Internation	nal tourists		Tourisi	m expenditu	ure in the	country	Tourism	expenditure	in other o	ountries
	Inbo 1995		sands Outb 1995	ound 2004	\$ mil	lions 2004	% of 6 1995	exports 2004	\$ mil	lions 2004	% of it	mports 2004
Afghaniatan				2004		2004	2000	2004	•	200-	2000	2004
Afghanistan Albania	40	42	12		70	 756	23.2	46.0	1 19	668	2.3	19.6
Algeria	520	1,234	1,090	1,417	32	112			186	255		
Angola	9	194	3		27	82	0.7	0.6	113	86	3.2	0.8
Argentina	2,289	3,353	3,815	3,385	2,550	2,990	10.2	7.5	4,013	3,561	15.4	12.6
Armenia	12	263		169	14	103	4.7	10.5	12	102	1.7	6.7
Australia	3,726	5,215	2,519	3,388	11,658	17,946	16.8	15.9	7,074	13,004	9.5	9.9
Austria	17,173	19,373	3,713	6,798	14,529	18,401	16.2	11.4	11,686	12,811	12.7	8.2
Azerbaijan	93	1,349	432	1,473	88	79	11.2	1.9	165	140	12.8	2.2
Bangladesh	156	271	830	1,414		59		0.7	251	389	3.4	3.5
Belarus	161	67	626 5.645	514	28	379	0.5	2.4	101	574	1.8	3.4
Belgium	5,560	6,690 72	5,645	7,268	70	10,044				15,295		4.9
Belivio	138	•	418	201	79	108	12.1	15.1	48	<i>53</i>	5.4	•••••
Bolivia Bosnia and Herzegovina	284 115	405 165	249	281	92	265 514	7.5	10.4 17.6	72	219 169	4.6	9.4 2.4
Botswana	521	975	369	••		459	7.3	12.4	153	235	7.5	2.4 8.5
Brazil	1,991	4,794	2,600	 2,293	1,085	3,389	2.1	3.1	3,982	3,752	6.3	4.7
Bulgaria	3,466	4,630	3,524	3,882	662	2,718	9.8	19.4	312	1,356	4.8	8.2
Burkina Faso	124	163				2,710		13.4	312	1,330	4.0	
Burundi	34		36		2	1	1.9	2.8				
Cambodia	220	1,055	31	239	71	674	7.3	20.8	22	80	1.6	2.2
Cameroon	100	226			75		3.7		140		8.7	
Canada	16,932	19,095	18,206	19,595	9,176	14,925	4.2	4.0	12,658	19,730	6.3	5.9
Central African Republic	26				4	3			43	29		
Chad	19	21			43	25			38	80		
Chile	1,540	1,785	1,070	2,343	1,186	1,554	6.1	4.1	934	1,196	5.1	4.0
China	20,034	41,761	4,520	20,222	12,626	27,755	6.1	4.2	9,220	21,360	5.6	3.5
Hong Kong, China	10,200	21,811	3,023	5,003		11,815		3.8				
Colombia	1,433	791	1,057	1,405	887	1,340	7.2	6.9	1,162	1,644	7.3	8.2
Congo, Dem. Rep.	35	35										
Congo, Rep.	37	22			15	26	1.1	1.0	69	85	5.1	5.3
Costa Rica	785	1,453	273	425	763	1,585	17.1	18.4	336	481	7.1	5.3
Côte d'Ivoire	188				103	76	2.4	1.2	312	551	8.2	11.0
Croatia	1,485	7,912				7,191		40.3		872	••	4.3
Cuba	742	2,017	72	115	963	1,915						
Czech Republic	3,381	6,061	44,873	36,650	·····	4,956		6.5		2,659		3.5
Denmark Dominican Republic	2,124 1,776	3,358 3,450	<i>5,035</i> 168	4,630 368			••	••	267	 448	4.4	5.0
Ecuador	440	793	271	605	315	369	6.1	4.2	331	577	5.8	6.2
Egypt, Arab Rep.	2,871	5,746	2,683	3,644	2,954	6,328	22.3	23.9	1,371	1,543	8.0	5.7
El Salvador	2,871	966	348	1,218	152	632	7.5	14.7	99	321	2.7	4.6
Eritrea	315	87			58	73		- 1.1			٠.	
Estonia	530	1,750	1,764	2,075	452	1,102	17.6	12.5	121	481	4.2	5.0
Ethiopia	103	180	120	-,	177	457	23.1	27.1	30	61	2.1	1.6
Finland	1,779	2,047	5,147	5,798	2,384	2,867	5.0	4.0	2,853	3,597	7.6	5.9
France	60,033	75,121	18,686	21,131	31,295		8.6		20,699		6.2	
Gabon	125	222		236	94	84	3.2	2.5	183	239	10.3	12.7
Gambia, The	45	73		••	67		30.5		16	••	6.9	
Georgia	85	368	228	317	75	209	13.1	12.8	171	196	12.1	7.9
Germany	14,847	18,399	55,800	74,600	24,052	35,589	4.0	3.4	66,981	78,553	11.3	8.6
Ghana	286	483			30	495	1.9	14.2	74	270	3.5	5.0
Greece	10,130	13,969	1,738	••	4,182	12,809	26.9	26.2	1,495	2,880	6.0	4.7
Guatemala	563	1,182	333	854	216	806	7.7	17.5	167	456	4.5	5.4
Guinea	12	45			1	32	0.1	4.3	29	29	2.9	3.0
Guinea-Bissau						3		3.7	6	21	6.7	20.7
Haiti	145						••					



		Internation	nal tourists		Tourisi	m expendit	ure in the o	country	Tourism	expenditure	e in other o	countries
	Inho	thous	sands Outb	ound	\$ mil	lions	% of e	exports	\$ mil	lions	% of i	mports
	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004
Honduras	271	672	149	295	85	403	5.2	13.1	99	269	5.3	6.1
Hungary	2,878	3,270	13,083	17,558	2,938	4,084	14.9	6.2	1,501	2,908	7.5	4.2
India	2,124	2,726	3,056	5,351		4,128		5.0		4,758		5.1
Indonesia	4,324	5,321	1,782	••		5,226		5.8		4,570		5.8
Iran, Islamic Rep.	489	1,659	1,000	2,921	205	1,324	1.1		247	4,353	1.6	
Iraq	61		199									
Ireland	4,818	6,982	2,547	5,409	2,698	5,962	5.5	3.9		5,287	••	4.2
Israel	2,215	1,506	2,259	3,614	3,491	2,819	12.7	5.5	2,626	3,663	7.4	7.0
Italy	31,052	37,071	18,173	23,349	30,426	37,872	10.3	8.7	17,219	24,062	6.9	5.7
Jamaica	1,147	1,415			1,199	1,733	35.3	44.5	173	318	4.6	6.0
Japan	3,345	6,138	15,298	16,831	4,894	14,343	1.0	2.3	46,966	48,175	11.2	8.9
Jordan	1,074	2,013	1,128	1,533	973	1,621	28.0	27.1	719	585	14.7	6.2
Kazakhstan		3,073	523	3,915	155	793	2.6	3.5	296	917	4.9	4.9
Kenya	896	927		••	590	808	20.0	19.2	183		5.2	
Korea, Dem. Rep.	2752											
Korea, Rep.	3,753	5,818	3,819	8,826	6,670	7,870	4.5	2.6	6,947	13,103	4.5	4.9
Kuwait	72	91	878	1,928	309	414	2.2	1.2	2,513	4,140	19.9	22.4
Kyrgyz Republic	36 60	248	42	45	 F0	97		10.3	7	63	0.7	5.5
Lao PDR Latvia	539	236	1,812	 2,457	52 37	242	12.8 1.8	5.7	34 62	 429	4.5 2.8	5.2
Lebanon	450	1,079 1,278			710	343 5,931			•	3,719		5.2
Lesotho	430 87			••	29	•	14.6		17	3,719	1.6	2.6
Liberia		······································	••		•	••	•	••	•••••	•		2.0
Libya	56	 142	484		4	261	0.1	1.5	98	 789	1.7	7.5
Lithuania	650	1,491	1,925	3,504	102	874	3.2	7.4	107	646	2.7	4.8
Macedonia, FYR	147	165			35	77	2.7	3.7	30	84	1.7	2.6
Madagascar	75	139	39		106	118	14.2	10.5	79	67	8.0	4.1
Malawi	192	421	•••	•••	22	43	4.7	9.5	53	48	8.0	10.8
Malaysia	7,469	15,703	20,642	30,761	5,044	6,799	6.1	5.7	2,722	3,401	3.1	3.5
Mali	42	70			26	136	4.9	11.8	74	94	7.5	6.4
Mauritania									30		5.9	
Mauritius	422	719	107	180	616	1,156	26.2	33.4	184	277	7.5	7.7
Mexico	20,241	20,618	8,450	12,494	6,847	11,566	7.7	5.7	3,587	8,034	4.4	3.7
Moldova	32	24	71	68	71	119	8.0	8.9	73	157	7.3	7.4
Mongolia	108	301		••	33	205	6.5	16.9	22	207	4.2	14.7
Morocco	2,602	4,552	1,317	1,694	1,469	4,541	16.2	27.3	356	913	3.2	4.6
Mozambique		441				96		5.5		140	••	5.9
Myanmar	117	242			169	98	12.9	3.1	38	32	1.5	1.3
Namibia	399	695			···	426		18.4	·•			······································
Nepal	363	385	100	286	232	260	22.5	21.2	167	205	10.3	9.4
Netherlands	6,574	9,646	12,313	16,463	10,611	11,745	4.4	4.4	13,151	14,201	6.1	5.7
New Zealand	1,409	2,334	920	1,733								
Nicaragua	281	615	255	701	51	191	7.7 7.1	11.6	56 26	158	4.9 5.7	5.5
Niger	35 656	55 887	10	••	26 54	29 263	7.1	7.0 1.5	26	39	5.7 7.3	5.7
Nigeria Norway	656 2,880	3,600	 590	 2,588	54 2,730	<i>263</i> 3,400	0.4 4.9	1.5 3.1	939 4,481	 8,788	7.3 9.6	11.9
Oman	2,880	630	•	2,588 2,060	2,130	708	•	5.0	4,401	8,788 795		7.5
Pakistan	378	648		2,000	 582	763	 5.7	4.7	654	1,590	4.6	7.2
Panama	345	621	 185	256	372	903	4.9	10.2	181	344	2.3	3.8
Papua New Guinea	42	59	51	92 92			4.9		101		2.3	
Paraguay	438	309	427	170	162	 84	3.4	2.5	173	121	3.3	3.4
Peru	444	1,203	508	1,281	521	1,169	7.9	8.0	428	821	4.5	6.5
Philippines	1,760	2,291	1,615	1,803	1,141	2,412	4.3	5.6	551	1,558	1.7	3.1
Poland	19,215	14,290	36,387	27,226	6,927	6,499	19.4	6.8	5,865	4,157	17.3	4.2
Portugal	9,511	11,617			5,646	8,922	17.5	17.2	2,540	3,359	6.4	5.1
Puerto Rico	3,131	3,541	1,237	1,361	1,828	3,024			1,155	1,584		
	•••••	•	•		•	•	•		••	•		•••••



		Internatio	nal tourists	3	Touris	m expendit	ure in the	country	Tourism	expenditure	e in other (countries
	Inb	thou	sands Outl	oound	\$ m	illions	% of	exports	\$ m	illions	% of i	mports
	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004	1995	2004
Romania	2,757		5,737	6,972	689	607	7.3	2.2	749	672	6.6	2.0
Russian Federation	10,290	22,051	21,329	24,410		6,958		3.4		16,527		12.7
Rwanda					4		5.4		13		3.5	
Saudi Arabia	3,325	8,579		3,811		6,540		5.0		4,262		6.4
Senegal	280	363			168	269	11.2	14.7	154	129	8.5	4.9
Serbia and Montenegro	228	580										
Sierra Leone	38	44	6	28					51	30	19.4	8.9
Singapore	6,422	5,705	2,867	4,221								
Slovak Republic	903	1,401	218	457	630	932	5.7	3.5	338	903	3.2	2.6
Slovenia	732	1,499		2,800	1,128	1,726	10.9	8.8	606	940	5.6	4.7
Somalia												
South Africa	4,488	6,678	2,520	3,794	2,655	6,729	7.7	11.9	2,414	3,661	7.2	6.3
Spain	34,920	53,599	3,648	5,121	27,510	51,125	20.5	19.0	5,768	13,337	4.3	4.3
Sri Lanka	403	566	504	680	367	808	7.9	11.1	279	499	4.7	5.5
Sudan	29	51	195									
Swaziland	300	459			54	16	5.3	0.9	45	34	3.5	3.0
Sweden	2,310	7,627	10,127	13,977	4,390	6,548	4.6	4.9	6,816	9,375	8.4	8.4
Switzerland	6,946	6,530	11,148	11,427	11,354	12,208	9.2	6.7	9,478	10,599	8.7	7.2
Syrian Arab Republic	815	3,032	1,746	3,997		1,888		23.1		698	••	8.8
Tajikistan						9		0.7				
Tanzania	285	566	157		344	610	28.4	28.0	424	446	21.6	14.0
Thailand	6,952	11,737	1,820	2,709	9,257	13,054	13.2	11.4	4,791	5,343	5.8	5.0
Togo	53	61				26		3.8	41	37	6.1	3.9
Trinidad and Tobago	260	443	261		232	437	8.3	7.4	91	143	4.3	3.3
Tunisia	4,120	5,998	1,778	2,274	1,838	2,432	23.0	18.3	294	427	3.3	3.0
Turkey	7,083	16,826	3,981	7,299							••	
Turkmenistan	218		21		13		0.7		74		4.1	
Uganda	160	512	148	231		306		26.5				
Ukraine	3,716	12,514	6,552	14,795	448	1,512	2.2	3.8	405	1,193	1.9	3.4
United Arab Emirates	2,315	5,871			632	1,594				4,475		
United Kingdom	23,537	27,755	41,345	64,194	27,624	37,193	8.6	7.0	30,749	68,778	9.4	11.4
United States	43,490	46,085	51,285	61,776	93,700	112,780	11.8	9.8	60,924	93,217	6.8	5.3
Uruguay	2,022	1,756	562	495	725	579	20.7	14.4	332	281	9.3	7.7
Uzbekistan	92	231	246	400	15	48						
Venezuela, RB	700	492	534	816	995	531	4.8	1.3	1,852	1,603	11.0	7.3
Vietnam	1,351	2,928										
West Bank and Gaza		40			104	4						
Yemen, Rep.	61	155								183		3.7
Zambia	163	578			47	149	6.1		83		6.2	
Zimbabwe	1,363		256		145	194			106			
World	538,382	•	t 643,624	t <i>8</i> 13,857	497,366	t 743,043 t	8.0 w		481,338	t 704,549 t	7.9 w	6.7
Low income	11,676	18,248				11,002		6.3		13,586		5.5
Middle income	160,566	274,130	229,999	288,152	109,238	173,162	8.2	6.5	72,853	107,645	5.6	5.2
Lower middle income	69,138	138,963	48,397	90,985	50,953	92,627	7.6	6.4	35,108	56,308	5.4	4.2
Upper middle income	91,253	136,098	170,126	183,796	49,746	79,894	9.0	6.6	33,865	51,483	6.9	6.7
Low & middle income	175,026	259,534	276,829	350,077	118,632	189,112	8.1	6.6	83,495		5.7	5.2
East Asia & Pacific	44,247	84,175	36,006	71,020	34,630	60,901	7.1	5.4	20,630	35,398	4.9	3.9
Europe & Central Asia	59,537	106,564	152,343	164,140				6.3				6.9
Latin America & Carib.	39,852	51,220	21,948	27,174	20,622	34,115	7.1	5.8	18,987	25,624	6.5	5.3
Middle East & N. Africa	13,594	25,048	13,353	20,255	11,217	19,489	12.3	17.3	5,190	13,083	4.3	5.9
South Asia	3,819	4,979	5,151	8,690		6,343		7.4		7,017		6.9
Sub-Saharan Africa	12,536	18,873			6,345	12,459	6.9	12.5	7,078	9,642	7.0	7.5
High income	357,681	469,854	314,894	429,211	393,324	554,322	7.9	6.7	408,872	581,301	8.2	7.2
Europe EMU	197,165	255,184	137,608	177,310	175,494	262,294	8.2	7.8	175,352	228,047	8.2	7.0

About the data

Tourism is defined as the activities of people traveling to and staying in places outside their usual environment for no more than one year for leisure, business, and other purposes not related to an activity remunerated from within the place visited. The social and economic phenomenon of tourism has grown substantially over the past quarter century. Past descriptions of tourism focused on the characteristics of visitors, such as the purpose of their visit and the conditions in which they traveled and stayed. Now, there is a growing awareness of the direct, indirect, and induced effects of tourism on employment, value added, personal income, government income, and the like.

Statistical information on tourism is based mainly on data on arrivals and overnight stays along with balance of payments information. But these data do not completely capture the economic phenomenon of tourism or give governments, businesses, and citizens the information needed for effective public policies and efficient business operations. Credible data are needed on the scale and significance of tourism. Information on the role tourism plays in national economies throughout the world is particularly deficient. Although the World Tourism Organization reports that progress has been made in harmonizing definitions and measurement units, differences in national practices still prevent full international comparability.

The data in the table are from the World Tourism Organization, a specialized agency of the United Nations. The data on international inbound and outbound tourists refer to the number of arrivals and departures of visitors within the reference period, not to the number of people traveling. Thus a person who makes several trips to a country during a given period is counted each time as a new arrival. International visitors include tourists (overnight visitors), same-day visitors, cruise passengers, and

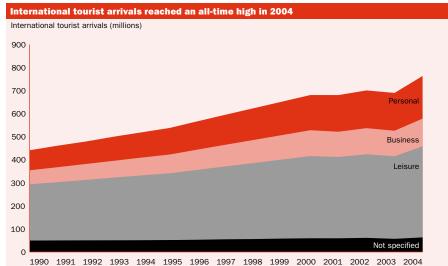
The World Tourism Organization is improving its coverage of tourism expenditure data. It is now using balance of payments data from the International Monetary Fund (IMF), supplemented by data received from individual countries. The new data, shown in the table, now include travel and passenger transport items as defined in the IMF's Balance of Payments Manual.

Aggregates are based on the World Bank's classification of countries and differ from those in the World Tourism Organization's publications. Countries not shown in the table but for which data are available are included in the regional and income group totals. The aggregates in the table are calculated using the World Bank's weighted aggregation methodology (see *Statistical methods*) and differ from aggregates provided by the World Tourism Organization.

Definitions

• International inbound tourists (overnight visitors) are the number of tourists who travel to a country other than that in which they have their usual residence, but outside their usual environment, for a period not exceeding 12 months and whose main purpose in visiting is other than an activity remunerated from within the country visited. • International outbound tourists are the number of departures that people make from their country of usual residence to any other country for any purpose other than a remunerated activity in the country visited. • Tourism expenditure in the country is expenditures by international inbound visitors, including payments to national carriers for international transport. These receipts include any other prepayment made for goods or services received in the destination country. They also may include receipts from same-day visitors, except in cases where these are important enough to justify separate classification. Their share in exports is calculated as a ratio to exports of goods and services (for definition of exports of goods and services see Definitions for table 4.8). • Tourism expenditure in other countries is expenditures of international outbound visitors in other countries, including payments to foreign carriers for international transport. These expenditures may include those by residents traveling abroad as same-day visitors, except in cases where these are important enough to justify separate classification. Their share in imports is calculated as a ratio to imports of goods and services (for definition of imports of goods and services see Definitions for table 4.8).

6.15a



Since 1990 international tourist arrivals have been increasing steadily at 4 percent a year. In 2004 about half of international tourist arrivals were for leisure, recreation, and holidays; 16 percent for business; and another 24 percent for other personal motives such as visiting friends and relatives, religious purposes, and health treatment.

Source: World Tourism Organization.

Data sources

Data on visitors and tourism expenditure are available in the World Tourism Organization's Yearbook of Tourism Statistics and Compendium of Tourism Statistics 2006. Data in the table are updated from electronic files provided by the World Tourism Organization. Data on exports and imports are from the IMF's International Financial Statistics and World Bank staff estimates.



The World Bank is not a primary data collection agency for most areas other than business and investment climate surveys, living standards surveys, and external debt. As a major user of socioeconomic data, however, the World Bank places particular emphasis on data documentation to inform users of data in economic analysis and policymaking. Differences in the methods and conventions used by the primary data collectors—usually national statistical agencies, central banks, and customs services—may give rise to significant discrepancies over time both within countries and across them. Delays in reporting data and the use of old surveys as the base for current estimates may severely compromise the quality of national data.

The tables in this section provide information on sources, methods, and reporting standards of the principal demographic, economic, and environmental indicators in *World Development Indicators*. Additional documentation is available from the World Bank's Country Statistical Information Database at www.worldbank.org/data.

The demand for good quality statistical data is increasing. Timely and reliable statistics are key to the broad development strategy often referred to as "managing for results." Monitoring and reporting on publicly agreed indicators is central to implementing poverty reduction strategies and lies at the heart of the Millennium Development Goals and the new Results Measurement System adopted for the 14th replenishment of the International Development Association.

In October 2002 an information paper prepared for the World Bank's Board of Executive Directors, "Building Statistical Capacity to Monitor Development Progress," requested a briefing on the state of national statistics and statistical capacity. This briefing highlighted the increasing demand for better data, the need for action—particularly through a strategic approach to statistical capacity building at the country level—and the value of engagement in this area by the World Bank.

A global action plan to improve national and international statistics was agreed on during the Second Roundtable on Measuring for Results in February 2004 in Marrakech, Morocco. The plan, now referred to as the Marrakech Action Plan for Statistics, or MAPS, has been widely endorsed and forms the overarching framework for statistical capacity building.

	National currency	Fiscal year end				cional ounts			ce of paym and trade	ents	Government finance	data dissem- ination
			Reporting period	Base year	SNA price valuation	Alternative conversion factor ^a	PPP survey year	Balance of Payments Manual in use	External debt	System of trade	Accounting concept	stan- dard
Afghanistan	Afghan afghani	Mar. 20	FY	2002	VAB			•	•		В	
Albania	Albanian lek	Dec. 31	CY	1996 ^{b,0}	^c VAB		1996	BPM5	Actual	G	С	G
Algeria	Algerian dinar	Dec. 31	CY	1980	VAB			BPM5	Actual	S	В	
Angola	Angolan kwanza	Dec. 31	CY	1997	VAP	1991–96		BPM4	Preliminary	/ S		G
Argentina	Argentine peso	Dec. 31	CY	1993	VAB	1971–84	1996	BPM5	Actual	S	С	S
Armenia	Armenian dram	Dec. 31	CY	1996 ^{b,0}	······································	1990–95		•	Actual	S	С	S
Australia	Australian dollar	Jun. 30	FY	2000b,	·· · ·····		2002	BPM5	<u>.</u>	G	С	S
Austria	Euro	Dec. 31	CY	2000b	VAB		2002	BPM5		S	С	S
Azerbaijan	Azeri manat	Dec. 31	CY	2003 ^{b,0}	······································	1992–95		•	Actual	G	C	G
Bangladesh	Bangladesh taka	Jun. 30	FY	1996 ^b	VAB	1960–2004		•	Actual	G	С	G
Belarus	Belarusian rubel	Dec. 31	CY	2000b	VAB	1990–95		•	Actual	G	С	S
Belgium	Euro	Dec. 31	CY	2000b	VAB	4000	2002	BPM5	Fating -t-	S	С	S
Benin	CFA franc	Dec. 31	•	1985	VAP	1992 1960–85		•	Estimate	S S		G
Bolivia	Boliviano Kapyartibla mark	Dec. 31 Dec. 31	CY CY	1990 ^b 1996 ^c	VAB VAB	1960-85	1996	•	Actual	. 5	C	G
Bosnia and Herzegovina Botswana	Konvertible mark	Jun. 30	FY	1990°	VAB		1996	•	Actual Actual	G	В	G
Brazil	Botswana pula Brazilian real	Dec. 31	CY	1994	VAB		1996	•	Actual	S	С	S
Bulgaria	Bulgarian lev	Dec. 31	CY	2002 ^{b,0}		1978–89. 1991–92		•	Actual	G	С	S
Burkina Faso	CFA franc	Dec. 31	•	1990	VAD	1992-93	2002	•	Actual	G	С	G
Burundi	Burundi franc	Dec. 31	CY	1980	VAB	1552 55		•	Actual	S	С	u
Cambodia	Cambodian riel	Dec. 31	CY	2000	VAB			•	Actual	G	C	G
Cameroon	CFA franc	Dec. 31	CY	1980	VAB	1965–2001	1996		Preliminary	·· · ·····	В	G
Canada	Canadian dollar	Mar. 31	CY	2000 ^b	VAB		2002	BPM5		G	C	S
Central African Republic		Dec. 31	CY	1987	VAB			•	Preliminary			G
Chad	CFA franc	Dec. 31	CY	1995 ^b	VAB			•	Preliminary		С	G
Chile	Chilean peso	Dec. 31	CY	1986	VAB		1996	BPM5	Actual	S	С	S
China	Chinese yuan	Dec. 31	CY	1990	VAP	1978-93	1986	BPM5	Preliminary	/ S	В	G
Hong Kong, China	Hong Kong dollar	Dec. 31	CY	2000	VAB		1996	BPM5		G	С	S
Colombia	Colombian peso	Dec. 31	CY	1994	VAB	1992–94	1993	BPM5	Actual	S	В	S
Congo, Dem. Rep.	Congo franc	Dec. 31	CY	1987	VAB	1999–2001		BPM5	Preliminary	/ S	С	G
Congo, Rep.	CFA franc	Dec. 31	CY	1978	VAP		1996	BPM5	Preliminary	/ S	С	G
Costa Rica	Costa Rican colon	Dec. 31	CY	1991 ^b	VAB			BPM5	Actual	S	С	S
Côte d'Ivoire	CFA franc	Dec. 31	CY	1996	VAP		1996	BPM5	Estimate	S	С	G
Croatia	Croatian kuna	Dec. 31	CY	1997 ^b	VAB		2002	BPM5	Actual	G	С	S
Cuba	Cuban peso	Dec. 31	CY	1984	VAP					G		S
Czech Republic	Czech koruna	Dec. 31	CY	1995b	VAB		2002	•	Preliminary	·· · ····	С	S
Denmark	Danish krone	Dec. 31	•	2000b	VAB		2002	BPM5		G	С	S
Dominican Republic	Dominican peso	Dec. 31	•	1990	VAP		400-	•	Estimate	G	С	G
Ecuador	U.S. dollar	Dec. 31	• • • • • • • • • • • • • • • • • • • •	2000	VAP		1996	*	Preliminary		В	S
Egypt, Arab Rep.	Egyptian pound	Jun. 30	FY	1992	VAB	1965-91	1996	•	Actual	S	С	S
El Salvador	Salvadoran colon	Dec. 31	•	1990	VAP	1982–90		•	Actual	S	С	S
Eritrea	Eritrean nakfa	Dec. 31	• • • • • • • • • • • • • • • • • • • •	1992	VAB	1001 OF	2002	*	Actual			
Estonia	Estonian kroon	Dec. 31	•	2000b	VAB	1991–95	2002	*	Actual	G	С	S
Ethiopia	Ethiopian birr	Jul. 7 Dec. 31	FY CY	1981 ^b	VAB	1965–2004	2002	•	Actual	G	С	G
Finland France	Euro Euro	Dec. 31	• • • • • • • • • • • • • • • • • • • •	2000 ^b	VAB C VAB		2002	BPM5 BPM5		G S	C C	S S
Gabon	CFA franc	Dec. 31	•	1991	VAP	1993			Estimate	S	В	G G
Gambia, The	Gambian dalasi	Jun. 30	CY	1991	VAP	1930	1990	•	Actual	G	В	G
Georgia	Georgian lari	Dec. 31	•	1994 ^{b,0}		1990–95	2000	*	Actual	G	С	u
Germany	Euro	Dec. 31	•	2000b	VAB	1000 90	2002	BPM5	,	S	С	S
Ghana	Ghanaian cedi	Dec. 31	•	1975	VAD	1973–87	2002	•	Actual	G	В	
Greece	Euro	Dec. 31	• · · · · · · · · · · · · · · · · · · ·	2000b,		1010 01	2002	BPM5		S	С	S
Guatemala	Guatemalan quetzal	Dec. 31	•	1958	VAP		1980		Actual	S	В	G
	Guinean franc	Dec. 31	•	1994	VAB		1996	•	Estimate	S	В	G
Guinea	Guillean franc										D	
Guinea Guinea-Bissau	CFA franc	Dec. 31	•	1986	VAB	1970–86		•	Preliminary			G

	Latest population census (including registration- based censuses)	Latest demographic, education, or health household survey	Source of most recent income and expenditure data	Vital registration complete	Latest agricultural census	Latest industrial data	Latest trade data	Latest freshwater withdrawal data
Afghanistan	1979	MICS, 2003			•		1977	1987
Albania	2001	MICS, 2000	LSMS, 2002	Yes	1995	1990	2004	1995
Algeria	1998	MICS, 2000	HLSS, 1995		1973	2003	2004	1995
Angola	1970	MICS, 2000			1964–65		1991	1987
Argentina	2001	•	EPH, 2001	Yes	1988	1999	2004	1995
Armenia	2001	DHS, 2005	ILCS, 2003	Yes			2004	1994
Australia	2001		SIHC, 1994	Yes	1990	2003	2004	1985
Austria	2001		Microcensus 2000	Yes	1990	2003	2004	1991
Azerbaijan	1999	MICS, 2000	HBS, 2003	Yes	4070	0000	2004	1995
Bangladesh	2001	DHS, 2004	HES.2000	Vaa	1976	2003	2004	1990
Belgium	1999 2001		IES, 2002 ECHP, 2000	Yes Yes	1994 1990	2003	2004 2004	1990
Benin	2001	DHS, 2001	LOTIF, 2000	162	1990	2003 1999	2004	1994
Bolivia	2002	DHS, 2001	MECOVI, 2002		±332−33	2000	2002	1994
Bosnia and Herzegovina	1991	MICS, 2000	LSMS, 2001	Yes		1991	2004	1995
Botswana	2001	MICS, 2000	HIES, 1993–94	103	1993	2002	2004	1992
Brazil	2000	DHS, 1996	PNAD, 2002		1996	1995	2004	1992
Bulgaria	2001		HBS, 2003	Yes		2002	2004	1988
Burkina Faso	1996	DHS, 2003	EVCBM, 2003		1993	2003	2004	1992
Burundi	1990	MICS, 2000	Priority survey, 1998		••••••	1991	2004	1987
Cambodia	1998	DHS, 2005	SES, 1997		•	•	2004	1987
Cameroon	1987	DHS, 2004	Priority survey, 2001		1972–73	1999	2004	1987
Canada	2001		SLID, 2000	Yes	1991	2003	2004	1991
Central African Republic	1988	MICS, 2000	EPI, 1993			1993	2003	1987
Chad	1993	DHS, 2004				1975	1995	1987
Chile	2002		CASEN, 2000	Yes	1997	2003	2004	1987
China	2000	Population, 1995	HHS (rural/urban), 2001		1996	2001	2004	1993
Hong Kong, China	2001			Yes		2002		
Colombia	1993	DHS, 2005	ECV, 2003	-	1988	2003	2004	1996
Congo, Dem. Rep.	1984	DHS, 2006			1990	4000	1986	1990
Congo, Rep.	1996	DHS, 2005	FUDM 2004	Vaa	1986	1988	1995	1987
Costa Rica	2000	CDC, 1993	EHPM, 2001	Yes	1973 1974–75	2003	2004	1997
Côte d'Ivoire Croatia	1998 2001	AIS, 2005	LSMS, 2002 HBS, 2001	Yes	1974-75	2003 1992	2003 2004	1987 1996
Cuba	2001	MICS, 2000	пвэ, 2001	Yes		1989	2004	1995
Czech Republic	2002	CDC, 1993	Microcensus 1996/97	Yes		1998	2001	1991
Denmark	2001	550, 1000	Income Tax Register 1997	Yes	1989	2003	2004	1990
Dominican Republic	2001	DHS, 2002	ENFT, 2003	103	1971	2003	2004	1994
Ecuador	2001	CDC, 1999	LSMS, 1998	·····	1997	2003	2004	1997
Egypt, Arab Rep.	1996	DHS, 2005	HECS, 2000	Yes	1989-90	2002	2004	1996
El Salvador	1992	CDC, 1994	EHPM, 2002	Yes	1970–71	2003	2004	1992
Eritrea	1984	DHS, 2002			•	2001	2003	
Estonia	2000	•	HBS, 2003	Yes	1994	2001	2004	1995
Ethiopia	1994	DHS, 2005	ICES, 2000		1988–89	2002	2003	1987
Finland	2000		IDS, 2000	Yes	1990	2003	2004	1991
France	1999		HBS, 1994/95	Yes	1988	2003	2004	1999
Gabon	1993	DHS, 2000			1974–75	2003	2004	1987
Gambia, The	2003	MICS, 2000	HHS, 1998			1982	2003	1982
Georgia	2002	MICS, 2000	SGH, 2003	Yes			2004	1990
Germany	1995		GS0EP, 2000	Yes	1993	2000	2004	1991
Ghana	2000	SPA, 2002, DHS, 2003	LSMS, 1998/99		1984	2003	2004	1997
Greece	2001	DUO 4000 00	ECHP, 2000	Yes	1993	2003	2004	1980
Guatemala	2002	DHS, 1998-99	ENEI-2, 2002	Yes	1979	2003	2004	1992
Guinea	1996	DHS, 2005	LSMS, 1994		1996		2002	1987
Guinea-Bissau	1991	MICS, 2000	IES, 1993		1988	1006	1995	1991
Haiti	2003	DHS, 2005	ECVH, 2001	·····	1971	1996	1997	1991

	National currency	currency Fiscal National year accounts end							nce of paym and trade	Government finance	t IMF data dissem- ination	
			Reporting period	Base year	SNA price valuation	Alternative conversion factor ^a	PPP survey year	Balance of Payments Manual in use		System of trade	Accounting concept	stan- dard
Honduras	Honduran lempira	Dec. 31	CY	1978	VAB	1988–89		BPM5	Actual	S		G
Hungary	Hungarian forint	Dec. 31	CY	2000 ^b	VAB		2002	BPM5	Actual	S	С	S
India	Indian rupee	Mar. 31	FY	1993	VAB	1960–2004		BPM5	Actual	G	С	S
Indonesia	Indonesian rupiah	Mar. 31	CY	1993	VAP	•	1996	BPM5	Preliminary	S	С	S
Iran, Islamic Rep.	Iranian rial	Mar. 20	FY	1982	VAB	1980–90	1996	BPM5	Actual	G	С	
Iraq	Iraqi dinar	Dec. 31	CY	1997	VAB					S	•	
Ireland	Euro	Dec. 31	CY	2000b	VAB		2000	BPM5		G	С	S
Israel	Israeli new shekel	Dec. 31	CY	2000b	VAP		2002	BPM5		S	С	S
Italy	Euro	Dec. 31	CY	2000 ^b	VAB		2002	BPM5		S	С	S
Jamaica	Jamaica dollar	Dec. 31	CY	1996	VAP		1996		Actual	G	С	G
Japan	Japanese yen	Mar. 31	CY	2000	VAB		2002	BPM5	A otural	G	С	S
Jordan	Jordan dinar	Dec. 31	CY	1994	VAB	4007.05	1996	.*	Actual	G	В	G
Kazakhstan	Kazakh tenge	Dec. 31 Jun. 30	CY CY	1995 ^{b,c} 2001	VAB VAB	1987–95	1996	BPM5 BPM5	Actual Actual	G G	C B	S G
Korea, Dem. Rep.	Kenya shilling Democratic Republic of Korea won	Dec. 31	CY		 		1990	BPM5	Actual	ч	Ь	. u
Korea, Rep.	Korean won	Dec. 31	CY	2000 ^b	VAP		2002	BPM5	. *	S	С	S
Kuwait	Kuwaiti dinar	Jun. 30	CY	1995	VAP	•		BPM5		S	С	G
Kyrgyz Republic	Kyrgyz som	Dec. 31	CY	1995 ^{b,c}	VAB	1990–95	2000	BPM5	Actual	G	В	S
Lao PDR	Lao kip	Dec. 31	CY	1990	VAB		1993	BPM5	Preliminary	G	•	
Latvia	Latvian lat	Dec. 31	CY	2000 ^b	VAB	1991–95	2002	BPM5	Actual	S	С	S
Lebanon	Lebanese pound	Dec. 31	CY	2002	VAB			BPM4	Actual	G	В	G
Lesotho	Lesotho loti	Mar. 31	CY	1995 ^b	VAB			BPM5	Actual	G	С	G
Libya	Libyan dinar	Dec. 31	CY	1975	VAB	1986		BPM5		G		
Liberia	Liberian dollar	Dec. 31	CY	1992	VAB				Estimate			G
Lithuania	Lithuanian litas	Dec. 31	CY	2000b	VAB	1990–95		.*	Actual	G	С	S
Macedonia, FYR	Macedonian denar	Dec. 31	CY	1995 ^b	VAB		2002	BPM5	Actual	G	-	G
Madagascar	Malagasy ariary	Dec. 31	CY	1984	VAB		1996	BPM5	Actual	S	C	G
Malawi	Malawi kwacha	Mar. 31	CY	1994	VAB		1996	BPM5	Actual	G	В	G
Malaysia	Malaysian ringgit	Dec. 31	CY	1987	VAP		1993	••	Preliminary	•••••	С	S
Mali Mauritania	CFA franc	Dec. 31 Dec. 31	CY	1987 1985	VAB VAB		1996	BPM4 BPM4	Actual	G G	•	G G
Mauritius	Mauritanian ouguiya Mauritian rupee	Jun. 30	FY	1998	VAB		1996	BPM5	Actual Actual	G	С	G
Mexico	Mexican new peso	Dec. 31	CY	1993 ^b	VAB		2002	BPM5	Actual	G	С	S
Moldova	Moldovan leu	Dec. 31	CY	1996 ^{b,c}	•	1987–95		BPM5	Actual	G	С	G
Mongolia	Mongolian tugrik	Dec. 31	CY	1995	VAP	1001 00	2000		Actual	S	С	G
Morocco	Moroccan dirham	Dec. 31	CY	1980	VAP		1996	••	Actual	S	C	S
Mozambique	Mozambican metical	Dec. 31	CY	1995	VAB	1992–95		••	Preliminary	•		G
Myanmar	Myanmar kyat	Mar. 31	FY	1985	VAP			••	Estimate	G	С	
Namibia	Namibia dollar	Mar. 31	CY	1995 ^b	VAB			BPM5			В	G
Nepal	Nepalese rupee	Jul. 14	FY	1995	VAB	1966–2004	1996	BPM5	Actual	S	С	G
Netherlands	Euro	Dec. 31	CY	2000 ^{b,d}	VAB		2002	BPM5		S	С	S
New Zealand	New Zealand dollar	Mar. 31	FY	2000	VAB		2002	BPM5		G	С	
Nicaragua	Nicaraguan gold cordoba	•	CY	1998	VAP	1965–93		••	Actual	S	С	G
Niger	CFA franc	Dec. 31	CY	1987	VAP	1993		•••••	Preliminary	•	•	G
Nigeria	Nigerian naira	Dec. 31	CY	1987	VAB	1971–98			Preliminary	•	-	G
Norway	Norwegian krone	Dec. 31	CY	2000b,c	•		2002	BPM5		G	C	S
Oman	Rial Omani	Dec. 31	CY	1988	VAP	40=0 00= :	1996	.*	Actual	G	В	G
Pakistan	Pakistan rupee	Jun. 30	FY	2000	VAB	1972–2004		••	Preliminary	•	С	G
Panama	Panamanian balboa	Dec. 31	CY	1996°	VAP	1000	1996	.*	Actual	S	С	G
Papua New Guinea	Papua New Guinea kina	Dec. 31	CY	1983	VAP	1989		.*	Actual	G	В	
Paraguay	Paraguayan guarani	Dec. 31	CY	1982	VAP	1982–88	1000	••	Actual	S	В	G
Peru Philippines	Peruvian new sol Philippine peso	Dec. 31 Dec. 31	CY	1994 1985	VAB VAP	1985–91	1996	•••••	Actual Actual	S G	C B	S S
Poland	Polish zloty	Dec. 31	CY	2002 ^{b,c}	•		2000	.*	Actual	S	С	S
Portugal	Euro	Dec. 31	CY	2002 ⁵ / ₅	VAB		2000	BPM5	, www.	S	С	S

	Latest population census	Latest demographic, education, or health household survey	Source of most recent income and expenditure data	Vital registration complete	Latest agricultural census	Latest industrial data	Latest trade data	Latest freshwater withdrawal	
	(including registration- based censuses)							data	
Honduras	2001	DHS, 2005	EPHPM, 2003		1993	2003	2003	1992	
Hungary	2001		FBS, 2002	Yes	1994	2003	2004	1991	
India	2001	DHS, 2005	LSMS, 1999/2000		1986	2003	2004	1990	
Indonesia	2000	DHS, 2002, Special, 2002	2 SUSENAS, 2002		1993	2002	2004	1990	
Iran, Islamic Rep.	1996	Demographic, 1995	SECH, 1998	Yes	1988	2003	2003	1993	
Iraq	1997	MICS, 2000			1981	2003	1976	1990	
Ireland	2002		ECHP, 2000	Yes	1991	2003	2004	1980	
Israel	1995		HES, 2001	Yes	1983	2003	2004	1997	
Italy	2001		SHIW, 2000	Yes	1990	2000	2004	1998	
Jamaica	2001	CDC, 1997, MICS, 2000	LSMS, 2000	Yes	1979	2003	2002	1993	
Japan	2000			Yes	1990	2003	2004	1992	
Jordan	1994	DHS, 2002	HIES, 1997		1997	2003	2004	1993	
Kazakhstan	1999	DHS, 1999	HBS, 2003	Yes			2004	1993	
Kenya	1999	DHS, 2004	WMS II, 1997		1981	2003	2004	1990	
Korea, Dem. Rep.	1993	MICS, 2000						1987	
Korea, Rep.	2000		NSFIE, 1998/99	Yes	1991	2003	2004	1994	
Kuwait	1995	FHS, 1996		Yes	1970	2001	2001	1994	
Kyrgyz Republic	1999	DHS, 1997	HBS, 2003	Yes			2004	1994	
Lao PDR	1995	MICS, 2000	ECS I, 2000		1999	•••••••••••••••••••••••••••••••••••••••	1974	1987	
Latvia	2000		HBS, 2003	Yes	1994	2002	2004	1994	
Lebanon	1970	MICS, 2000			1999		2003	1996	
Lesotho	2001	MICS, 2004	HBS, 1995		1989-90	1985	2002	1987	
Libya	1995	MICS, 2000			1987	2003	2004	1999	
Liberia	1984						1984	1987	
Lithuania	2001		HBS, 2003	Yes	1994	•	2004	1995	
Macedonia, FYR	2002		HBS, 2003	Yes	1994	1996	2004	1996	
Madagascar	1993	DHS, 2003/04	Priority survey, 2001		1984	2003	2004	1984	
Malawi	1998	DHS, 2004	HHS, 1997/98		1992-93	2003	2004	1994	
Malaysia	2000		HIBAS, 1997	Yes		2001	2004	1995	
Mali	1998	DHS, 2006	EMCES, 1994		1978		2001	1987	
Mauritania	2000	Special, 2003	LSMS, 2000	•	1985	1978	1996	1985	
Mauritius	2000	CDC, 1991		Yes		1998	2004		
Mexico	2000	Population, 1995	ENIGH, 2002	Yes	1991	2000	2004	1998	
Moldova	1989	DHS, 2005	HBS, 2003	Yes	•	2002	2004	1992	
Mongolia	2000	MICS, 2000	LSMS/Integrated Survey, 1998	Yes		1995	2003	1993	
Morocco	1994	DHS, 2003/04	LSMS, 1998/99		1997	2001	2004	1998	
Mozambique	1997	Interim, 2003	NHS, 1996/97			2003	2002	1992	
Myanmar	1983	MICS, 2000			1993	2002	1992	1987	
Namibia	2001	DHS, 2000	NHIES, 1993		1995	1994	2003	1991	
Nepal	2001	DHS, 2006	LSMS, 2003/04		1992	2002	2003	1994	
Netherlands	2002		ECHP, 1999	Yes	1989	2003	2004	1991	
New Zealand	2001			Yes	1990	2003	2004	1991	
Nicaragua	1995	DHS, 2001	LSMS, 2001		1963	2003	2004	1998	
Niger	2001	DHS, 2006			1980	1998	2003	1988	
Nigeria	1991	DHS, 2003	LSMS, 2003		1960	2003	2003	1987	
Norway	2001		IF 2000	Yes	1989	2003	2004	1985	
Oman	2003	FHS, 1995			1979	2003	2004	1991	
Pakistan	1998	RHS, 2000-01	PIHS, 2002		1990	2003	2004	1991	
Panama	2000	LSMS, 1997	EH, 2002		1990	2003	2004	1990	
Papua New Guinea	2000	DHS, 1996	HGS, 1996			2003	2003	1987	
Paraguay	2002	CDC, 1998	EIH, 2002		1991	2003	2004	1987	
Peru	1993	DHS, 2000	ENAHO, 2002		1994	1996	2004	1992	
Philippines	2000	DHS, 2003	FIES, 2000	Yes	1991	2003	2004	1995	
Poland	2002		HBS, 2002	Yes	1990	2003	2004	1991	
Portugal	2001			Yes	1989	2003	2004	1990	
Puerto Rico	2000			Yes	1987	2001			

	National currency	Fiscal year end	year accounts					Bala	ents	Government finance	IMF data dissem- ination	
			Reporting period	Base year	SNA price valuation	Alternative conversion factor ^a	PPP survey year	Balance of Payments Manual in use		System of trade	Accounting concept	stan- dard
Romania	Romanian leu	Dec. 31	CY	1999 ^{b,c}	VAB	1987–89, 1992	2002	BPM5	Actual	S	С	S
Russian Federation	Russian ruble	Dec. 31	CY	2000 ^{b,c}	• • • • • • • • • • • • • • • • • • • •	1987–95		BPM5	Preliminary	•	С	S
Rwanda	Rwanda franc	Dec. 31	CY	1995	VAP			BPM5	Estimate	G	C	G
Saudi Arabia	Saudi Arabian riyal	Dec. 31	CY	1999	VAP			BPM4		G		
Senegal	CFA franc	Dec. 31	CY	1987 ^b	VAP		1996	BPM5	Preliminary	•	В	G
Serbia and Montenegro	Yugoslav new dinar	Dec. 31	CY	1998	VAB				Actual		С	
Sierra Leone	Sierra Leonean leone	Jun. 30	CY	1990 ^b	VAB	1971–79, 1987	1996	BPM5	Actual	G	В	G
Singapore	Singapore dollar	Mar. 31	CY	1995	VAB	10.1 10, 1001	1996	BPM5	7.000	G	В	S
Slovak Republic	Slovak koruna	Dec. 31	CY	1995 ^b	VAP		2002	BPM5	Actual	G	С	S
Slovenia	Slovenian tolar	Dec. 31	CY	2000b	VAB	•	2002	BPM5	7.locudi	S	С	S
Somalia	Somali shilling	Dec. 31	CY	1985	VAB	1977–90			Estimate			
South Africa	South African rand	Mar. 31	CY	2000 ^b	VAB			BPM5	Preliminary	S	С	S
Spain	Euro	Dec. 31	CY	2000 ^b	VAB		2002	BPM5		S	С	S
Sri Lanka	Sri Lankan rupee	Dec. 31	CY	1996	VAB		1996	BPM5	Actual	G	В	G
Sudan	Sudanese dinar	Dec. 31	CY	1982	VAB	1970–95		BPM5	Actual	G	В	G
Swaziland	Lilangeni	Mar. 31	CY	1985	VAB				Preliminary	•	В	G
Sweden	Swedish krona	Jun. 30	CY	2000°	VAB		2002	BPM5		G	C	S
Switzerland	Swiss franc	Dec. 31	CY	2000	VAB		2002	BPM5	··•·······	S	C	S
Syrian Arab Republic	Syrian pound	Dec. 31	CY	2000	VAP	1970-2004		BPM5	Estimate	S	C	
Tajikistan	Tajik somoni	Dec. 31	CY	1997 ^{b,c}	VAB	1990–95		BPM5	Preliminary	•	С	G
Tanzania	Tanzania shilling	Dec. 31	CY	1992	VAB	1000 00	1996	BPM5	Preliminary	• · · · · · · · · · · · · · · · · · · ·		G
Thailand	Thai baht	Sep. 30	CY	1988	VAP		1996	BPM5	Preliminary	•	С	S
Togo	CFA franc	Dec. 31	CY	1978	VAP		1993	BPM5	Actual	S		G
Trinidad and Tobago	Trinidad and Tobago dollar	Dec. 31	CY	2000	VAP		1996	BPM5	Actual	S	С	G
Tunisia	Tunisian dinar	Dec. 31	CY	1990	VAP		1996	BPM5	Actual	G	С	S
Turkey	Turkish lira	Dec. 31	CY	1987	VAB	•	2000	BPM5	Actual	S	В	S
Turkmenistan	Turkmen manat	Dec. 31	CY	1987 ^{b,c}	VAB	1987-95, 1997-2004	2000	BPM5	··•···································	G	••••••	
Uganda	Uganda shilling	Jun. 30	FY	1998	VAB	1980–99		BPM5	Actual	G	В	G
Ukraine	Ukrainian hryvnia	Dec. 31	CY	2003 ^{b,c}	VAB	1990–95	2000	BPM5	Actual	G	С	S
United Arab Emirates	U.A.E. dirham	Dec. 31	CY	1995	VAB		1993	BPM4	·· •	G	С	
United Kingdom	Pound sterling	Dec. 31	CY	2000 ^b	VAB		2002	BPM5	··•·······	G	С	S
United States	U.S. dollar	Sep. 30	CY	2000°	VAB		2002	BPM5	···	G	С	S
Uruguay	Uruguayan peso	Dec. 31	CY	1983	VAP		1996	BPM5	Actual	S	С	S
Uzbekistan	Uzbek sum	Dec. 31	CY	1997°	VAB	1990–95	2000	BPM5	Actual	G	•	•
Venezuela, R.B.	Venezuelan bolivar	Dec. 31	CY	1984	VAB		1996	BPM5	Actual	G	С	G
Vietnam	Vietnamese dong	Dec. 31	CY	1994	VAP	1991	1996	BPM4	Preliminary	G	С	G
West Bank and Gaza	Israeli new shekel	Dec. 31	CY	1998	VAB		1993	•		•	•	•
Yemen, Rep.	Yemen rial	Dec. 31	CY	1990	VAP	1991–96	1996	BPM5	Actual	G	В	G
Zambia	Zambian kwacha	Dec. 31	CY	1994	VAB	1990–92	1996	BPM5	Estimate	G	В	G
Zimbabwe	Zimbabwe dollar	Jun. 30	CY	1990	VAB	1991, 1998	1996	BPM5	Actual	G	С	G

Note: For explanation of the abbreviations used in the table see notes following the table.

a. World Bank estimates including adjustments for fiscal year reporting. b. Country uses the 1993 System of National Accounts methodology. c. Original chained constant price data are rescaled.

PRIMARY DATA DOCUMENTATION

	Latest population census (including registration- based censuses)	Latest demographic, education, or health household survey	Source of most recent income and expenditure data	Vital registration complete	Latest agricultural census	Latest industrial data	Latest trade data	Latest freshwater withdrawal data
Romania	2002	CDC, 1999	LSMS, 2003	Yes		2000	2004	1994
Russian Federation	2002	LSMS, 1992	LMS, Round 9, 2002	Yes	1994-95	2002	2004	1994
Rwanda	2002	DHS, 20055	LSMS, 1999/2000		1984	1986	2003	1993
Saudi Arabia	2004	Demographic, 1999			1983	1989	2003	1992
Senegal	2002	DHS, 2005	ESASM, 1995	·····	1960	2002	2004	1987
Serbia and Montenegro	2002	MICS, 2000	, , , , , , , , , , , , , , , , , , , ,	Yes		2002	1990	
Sierra Leone	2004	MICS, 2000	SHEHEA, 1989-90		1985	1993	2002	1987
Singapore	2000	General household, 1995	,	Yes		2003	2004	1975
Slovak Republic	2001		Microcensus, 1996	Yes		1999	2004	1991
Slovenia	2002		HBS, 1998	Yes	1991	2002	2004	1996
Somalia	1987	MICS, 2000		·····		2003	1982	1987
South Africa	2001	DHS, 2004	IES, 2000			2003	2004	1990
Spain	2001	······································	ECHP, 2000	Yes	1989	2003	2004	1997
Sri Lanka	2001	DHS, 1993	HIES, 2002	Yes	1982	2000	2004	1990
Sudan	1993	MICS, 2000			•••••••••••••••••••••••••••••••••••••••	2003	2003	1995
Swaziland	1997	MICS, 2000	SHIES, 1994/95			2003	2002	
Sweden	1990	DHS, 2006	HINK, 2000	Yes	1981	2003	2004	1991
Switzerland	2000		EVE, 2000	Yes	1990	1997	2004	1991
Syrian Arab Republic	1994	MICS, 2000			1981	2003	2004	1995
Tajikistan	2000	MICS, 2000	LSMS, 2003	Yes	1994		2000	1994
Tanzania	2002	SPA, 2006	HIES, 2000/01		1995	2003	2004	1994
Thailand	2000	DHS, 1987	SES, 2002		1993	2002	2003	1990
Togo	1981	MICS, 2000			1996	2003	2004	1987
Trinidad and Tobago	2000	MICS, 2000	LSMS, 1992	Yes	1982	2000	2003	1997
Tunisia	1994	MICS, 2000			1961	2003	2004	1996
Turkey	2000	DHS, 1998	LSMS, 2002	·····	1991	2003	2004	1997
Turkmenistan	1995	DHS, 2000	LSMS, 1998	Yes			2000	1994
Uganda	2002	AIS, 2004	NIHS III, 2002		1991	2003	2004	1970
Ukraine	2001	MICS, 2000	HBS, 2003	Yes			2002	1992
United Arab Emirates	1995		,		1998	2001	2001	1995
United Kingdom	2001	•	FRS, 1999	Yes	1993	2001	2004	1991
United States	2000	Current population, 1997	CPS, 2000	Yes	1997	2003	2004	1990
Uruguay	1996		ECH, 2003	Yes	1990	2000	2004	1965
Uzbekistan	1989	Special, 2002	FBS, 2000	Yes				1994
Venezuela, R.B.	2001	MICS, 2000	EHM, 2000	Yes	1997-98	2003	2004	1970
Vietnam	1999	AIS, 2005	LSMS, 2002		1994	2000	2003	1990
West Bank and Gaza	1997	Demographic, 1995			1971			
Yemen, Rep.	1994	DHS, 1997	HBS, 1998		1982–85	2001	2004	1990
Zambia	2000	SPA, 2005	LCMS II, 1998	·····•	1990	2003	2004	1994
Zimbabwe	2002	DHS, 2005/06	LCMS III, 2002/03		1960	2003	2004	1987

- Fiscal year end is the date of the end of the fiscal year for the central government. Fiscal years for other levels of government and the reporting years for statistical surveys may differ, but if a country is designated as a fiscal year reporter in the following column, the date shown is the end of its national accounts reporting period.
- Reporting period for national accounts and balance of payments data is designated as either calendar year basis (CY) or fiscal year basis (FY). Most economies report their national accounts and balance of payments data using calendar years, but some use fiscal years that straddle two calendar years. In World Development Indicators fiscal year data are assigned to the calendar year that contains the larger share of the fiscal year. If a country's fiscal year ends before June 30, the data are shown in the first year of the fiscal period; if the fiscal year ends on or after June 30, the data are shown in the second year of the period. Balance of payments data are shown by calendar year and so are not comparable to the national accounts data of the countries that report their national accounts on a fiscal year basis.
- Base year is the year used as the base period for constant price calculations in the country's national accounts. Price indexes derived from national accounts aggregates, such as the gross domestic product (GDP) deflator, express the price level relative to prices in the base year. Constant price data reported in World Development Indicators are rescaled to a common 2000 reference year. See About the data for table 4.1 for further discussion of rescaling.
- System of National Accounts (SNA) price valuation shows whether value added in the national accounts is reported at basic prices (VAB) or at producer prices (VAP). Producer prices include the value of taxes paid by producers and thus tend to overstate the actual value added in production. See *About the data* for tables 4.1 and 4.2 for further discussion of national accounts valuation.
- Alternative conversion factor identifies the countries and years for which a World Bank–estimated conversion factor has been used in place of the official exchange rate (line rf in the International Monetary Fund's [IMF] International Financial Statistics). Estimates also include adjustments to correspond to the fiscal years in which national accounts data have been reported. See Statistical methods for further discussion of the use of alternative conversion factors.

- Purchasing power parity (PPP) survey year refers to the latest available survey year for the International Comparison Program's estimates of purchasing power parities (PPPs). For a more detailed description of PPP see *About the data* for table 1.1.
- Balance of Payments Manual in use refers to the classification system used for compiling and reporting data on balance of payments items in table 4.15. BPM4 refers to the fourth edition of the IMF's Balance of Payments Manual (1977), and BPM5 to the fifth edition (1993).
- External debt shows debt reporting status for 2004 data. *Actual* indicates that data are as reported, *preliminary* indicates that data are preliminary and include an element of staff estimation, and *estimate* indicates that data are World Bank staff estimates.
- System of trade refers to the United Nations general trade system (G) or the special trade system (S). For imports under the general trade system both goods entering directly for domestic consumption and goods entered into customs storage are recorded as imports at the time of arrival; under the special trade system goods are recorded as imports when they are declared for domestic consumption whether at the time of entry or on withdrawal from customs storage. Exports under the general system comprise outward-moving goods: (a) national goods wholly or partly produced in the country; (b) foreign goods, neither transformed nor declared for domestic consumption in the country, that move outward from customs storage; and (c) nationalized goods that have been declared from domestic consumption and move outward without having been transformed. Under the special system of trade, exports comprise categories (a) and (c). In some compilations categories (b) and (c) are classified as re-exports. Direct transit trade, consisting of goods entering or leaving for transport purposes only, is excluded from both import and export statistics. See About the data for tables 4.4, 4.5, and 6.2 for further discussion.
- Government finance accounting concept describes the accounting basis for reporting central government financial data. For most countries government finance data have been consolidated (C) into one set of accounts capturing all the central government's fiscal activities. Budgetary central government accounts (B) exclude some central government units. See About the data for tables 4.10, 4.11, and 4.12 for further details.
- IMF data dissemination standard shows the countries that subscribe to the IMF's Special

- Data Dissemination Standard (SDDS) or General Data Dissemination System (GDDS), S refers to countries that subscribe to the SDDS and have posted data on the Dissemination Standards Bulletin Board web site (posted data are at http://dsbb.imf.org). G refers to countries that subscribe to the GDDS. The SDDS was established by the IMF for member countries that have or that might seek access to international capital markets to guide them in providing their economic and financial data to the public. The GDDS helps countries disseminate comprehensive, timely, accessible, and reliable economic, financial, and sociodemographic statistics. IMF member countries voluntarily elect to participate in either the SDDS or the GDDS. Both the GDDS and the SDDS are expected to enhance the availability of timely and comprehensive data and therefore contribute to the pursuit of sound macroeconomic policies. The SDDS is also expected to improve the functioning of financial markets.
- Latest population census shows the most recent year in which a census was conducted and in which at least preliminary results have been released.
- Latest demographic, education, or health household survey gives information on the household surveys used in compiling the demographic, education, and health data in section 2. CDC is Centers for Disease Control and Prevention, DHS is Demographic and Health Survey, FHS is Family Health Survey, MICS is the Multiple Indicator Cluster Survey, and RHS is Reproductive Health Survey.
- Source of most recent income and expenditure data shows household surveys that collect income and expenditure data. HBS is Household Budget Survey; ICES is Income, Consumption, and Expenditure Survey; IES is Income and Expenditure Survey; LSMS is Living Standards Measurement Study; and SES is Socio-Economic Survey.
- Vital registration complete identifies countries judged to have complete registries of vital (birth and death) statistics by the United Nations Department of Economic and Social Information and Policy Analysis, Statistical Division, and reported in *Population and Vital Statistics Reports*. Countries with complete vital statistics registries may have more accurate and more timely demographic indicators than other countries.
- Latest agricultural census shows the most recent year in which an agricultural census was conducted and reported to the Food and Agriculture Organization of the United Nations.

Primary data documentation notes

- Latest industrial data refer to the most recent year for which manufacturing value added data at the three-digit level of the International Standard Industrial Classification (ISIC, revision 2 or revision 3) are available in the United Nations Industrial Development Organization database.
- Latest trade data show the most recent year for which structure of merchandise trade data from the United Nations Statistical Division's Commodity Trade (Comtrade) database are available.
- Latest freshwater withdrawal data refer to the most recent year for which data on freshwater withdrawals have been compiled from a variety of sources. See *About the data* for table 3.5 for more information.

STATISTICAL METHODS

This section describes some of the statistical procedures used in preparing the World Development Indicators. It covers the methods employed for calculating regional and income group aggregates and for calculating growth rates, and it describes the *World Bank Atlas* method for deriving the conversion factor used to estimate gross national income (GNI) and GNI per capita in U.S. dollars. Other statistical procedures and calculations are described in the *About the data* sections following each table.

Aggregation rules

Aggregates based on the World Bank's regional and income classifications of economies appear at the end of most tables. The countries included in these classifications are shown on the flaps on the front and back covers of the book. Most tables also include aggregates for the member countries of the European Monetary Union (EMU). Members of the EMU on 1 January 2004 were Austria, Belgium, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, and Spain. Other classifications, such as the European Union and regional trade blocs, are documented in *About the data* for the tables in which they appear.

Because of missing data, aggregates for groups of economies should be treated as approximations of unknown totals or average values. Regional and income group aggregates are based on the largest available set of data, including values for the 152 economies shown in the main tables, other economies shown in table 1.6, and Taiwan, China. The aggregation rules are intended to yield estimates for a consistent set of economies from one period to the next and for all indicators. Small differences between sums of subgroup aggregates and overall totals and averages may occur because of the approximations used. In addition, compilation errors and data reporting practices may cause discrepancies in theoretically identical aggregates such as world exports and world imports.

Five methods of aggregation are used in World Development Indicators:

- For group and world totals denoted in the tables by a t, missing data are imputed based on the relationship of the sum of available data to the total in the year of the previous estimate. The imputation process works forward and backward from 2000. Missing values in 2000 are imputed using one of several proxy variables for which complete data are available in that year. The imputed value is calculated so that it (or its proxy) bears the same relationship to the total of available data. Imputed values are usually not calculated if missing data account for more than a third of the total in the benchmark year. The variables used as proxies are GNI in U.S. dollars, total population, exports and imports of goods and services in U.S. dollars, and value added in agriculture, industry, manufacturing, and services in U.S. dollars.
- Aggregates marked by an s are sums of available data. Missing values are
 not imputed. Sums are not computed if more than a third of the observations
 in the series or a proxy for the series are missing in a given year.
- Aggregates of ratios are denoted by a w when calculated as weighted averages
 of the ratios (using the value of the denominator or, in some cases, another

indicator as a weight) and denoted by a \boldsymbol{u} when calculated as unweighted averages. The aggregate ratios are based on available data, including data for economies not shown in the main tables. Missing values are assumed to have the same average value as the available data. No aggregate is calculated if missing data account for more than a third of the value of weights in the benchmark year. In a few cases the aggregate ratio may be computed as the ratio of group totals after imputing values for missing data according to the above rules for computing totals.

- Aggregate growth rates are denoted by a w when calculated as a weighted
 average of growth rates. In a few cases growth rates may be computed from
 time series of group totals. Growth rates are not calculated if more than half
 the observations in a period are missing. For further discussion of methods
 of computing growth rates see below.
- Aggregates denoted by an m are medians of the values shown in the table.
 No value is shown if more than half the observations for countries with a population of more than 1 million are missing.

Exceptions to the rules occur throughout the book. Depending on the judgment of World Bank analysts, the aggregates may be based on as little as 50 percent of the available data. In other cases, where missing or excluded values are judged to be small or irrelevant, aggregates are based only on the data shown in the tables.

Growth rates

Growth rates are calculated as annual averages and represented as percentages. Except where noted, growth rates of values are computed from constant price series. Three principal methods are used to calculate growth rates: least squares, exponential endpoint, and geometric endpoint. Rates of change from one period to the next are calculated as proportional changes from the earlier period.

Least-squares growth rate. Least-squares growth rates are used wherever there is a sufficiently long time series to permit a reliable calculation. No growth rate is calculated if more than half the observations in a period are missing. The least-squares growth rate, *r*, is estimated by fitting a linear regression trend line to the logarithmic annual values of the variable in the relevant period. The regression equation takes the form

$$\ln X_{t} = a + bt$$

which is equivalent to the logarithmic transformation of the compound growth equation,

$$X_t = X_o (1 + r)^t$$
.

In this equation X is the variable, t is time, and $a = \ln X_o$ and $b = \ln (1 + r)$ are parameters to be estimated. If b^* is the least-squares estimate of b, then the

average annual growth rate, r, is obtained as $[\exp(b^*) - 1]$ and is multiplied by 100 for expression as a percentage. The calculated growth rate is an average rate that is representative of the available observations over the entire period. It does not necessarily match the actual growth rate between any two periods.

Exponential growth rate. The growth rate between two points in time for certain demographic indicators, notably labor force and population, is calculated from the equation

$$r = \ln(p_n/p_0)/n$$

where p_n and p_0 are the last and first observations in the period, n is the number of years in the period, and In is the natural logarithm operator. This growth rate is based on a model of continuous, exponential growth between two points in time. It does not take into account the intermediate values of the series. Nor does it correspond to the annual rate of change measured at a one-year interval, which is given by $(p_n - p_{n-1})/p_{n-1}$.

Geometric growth rate. The geometric growth rate is applicable to compound growth over discrete periods, such as the payment and reinvestment of interest or dividends. Although continuous growth, as modeled by the exponential growth rate, may be more realistic, most economic phenomena are measured only at intervals, in which case the compound growth model is appropriate. The average growth rate over *n* periods is calculated as

$$r = \exp[\ln(p_n/p_0)/n] - 1.$$

Like the exponential growth rate, it does not take into account intermediate values of the series.

World Bank Atlas method

In calculating GNI and GNI per capita in U.S. dollars for certain operational purposes, the World Bank uses the *Atlas* conversion factor. The purpose of the *Atlas* conversion factor is to reduce the impact of exchange rate fluctuations in the cross-country comparison of national incomes.

The *Atlas* conversion factor for any year is the average of a country's exchange rate (or alternative conversion factor) for that year and its exchange rates for the two preceding years, adjusted for the difference between the rate of inflation in the country and that in Japan, the United Kingdom, the United States, and the Euro Zone. A country's inflation rate is measured by the change in its GDP deflator.

The inflation rate for Japan, the United Kingdom, the United States, and the Euro Zone, representing international inflation, is measured by the change in the SDR deflator. (Special drawing rights, or SDRs, are the International Monetary Fund's unit of account.) The SDR deflator is calculated as a weighted average of these countries' GDP deflators in SDR terms, the weights being the amount of each country's currency in one SDR unit. Weights vary over time because both the composition of the SDR and the relative exchange rates for each currency change. The SDR deflator is calculated in SDR terms first and then converted to U.S. dollars using the SDR to dollar *Atlas* conversion factor. The *Atlas* conversion factor is then applied to a country's GNI. The resulting GNI in U.S. dollars is divided by the midyear population to derive GNI per capita.

When official exchange rates are deemed to be unreliable or unrepresentative of the effective exchange rate during a period, an alternative estimate of the exchange rate is used in the *Atlas* formula (see below).

The following formulas describe the calculation of the *Atlas* conversion factor for year *t*:

$$e_{t}^{*} = \frac{1}{3} \left[e_{t-2} \left(\frac{\rho_{t}}{\rho_{t-2}} / \frac{\rho_{t}^{S\$}}{\rho_{t-2}^{S\$}} \right) + e_{t-1} \left(\frac{\rho_{t}}{\rho_{t-1}} / \frac{\rho_{t}^{S\$}}{\rho_{t-1}^{S\$}} \right) + e_{t} \right]$$

and the calculation of GNI per capita in U.S. dollars for year t:

$$Y_t^{\$} = (Y_t/N_t)/e_t^{*}$$

where e_t^* is the Atlas conversion factor (national currency to the U.S. dollar) for year t, e_t is the average annual exchange rate (national currency to the U.S. dollar) for year t, p_t is the GDP deflator for year t, p_t^{SS} is the SDR deflator in U.S. dollar terms for year t, Y_t^{S} is the Atlas GNI per capita in U.S. dollars in year t, Y_t is current GNI (local currency) for year t, and N_t is the midyear population for year t.

Alternative conversion factors

The World Bank systematically assesses the appropriateness of official exchange rates as conversion factors. An alternative conversion factor is used when the official exchange rate is judged to diverge by an exceptionally large margin from the rate effectively applied to domestic transactions of foreign currencies and traded products. This applies to only a small number of countries, as shown in *Primary data documentation*. Alternative conversion factors are used in the *Atlas* methodology and elsewhere in *World Development Indicators* as single-year conversion factors.

CREDITS

This book draws on a wide range of World Bank reports and numerous external sources, listed in the bibliography following this section. Many people inside and outside the World Bank helped in writing and producing *World Development Indicators*. The team would like to particularly acknowledge the help and encouragement of François Bourguignon, Senior Vice President and Chief Economist of the World Bank, and Shaida Badiee, Director, Development Data Group. The team is also grateful to those who provided valuable comments on the entire book. This note identifies many of those who made specific contributions. Numerous others, too many to acknowledge here, helped in many ways for which the team is extremely grateful.

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3. Environment

Section 3 was prepared by M. H. Saeed Ordoubadi and Mayhar Eshragh-Tabary in partnership with the World Bank's Environmentally and Socially Sustainable Development Network and in collaboration with the World Bank's Development Research Group and Transportation, Water, and Urban Development Department. Important contributions were made by Edward Gillin and Carola Fabi of the Food and Agriculture Organization; Ricardo Quercioli of the International Energy Agency; Amay Cassara, Christian Layke, Daniel Prager, and Robin White

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6. Global links

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Other parts

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Database management

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Richard Fix, with the assistance of Gonca Okur, coordinated all stages of production with Communications Development Incorporated. Communications Development Incorporated provided overall design direction, editing, and layout, led

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- **AbouZahr, Carla, and Tessa Wardlaw.** 2004. *Maternal Mortality in 2000: Estimates Developed by WHO, UNICEF, and UNFPA.* Geneva: World Health Organization.
- African Union and UNECA (United Nations Economic Commission for Africa).

 2005. "Transport and the Millennium Development Goals in Africa." Background working document prepared for the meeting of experts for the African Transport Ministers on the Role of Transport in Achieving the Millennium Development Goals, April 4–5, Addis Ababa. [www4.worldbank.org/afr/ssatp/Resources/PapersNotes/transport_mdg.pdf]
- **Ahmad, Sultan.** 1992. "Regression Estimates of Per Capita GDP Based on Purchasing Power Parities." Policy Research Working Paper 956. World Bank, International Economics Department, Washington, D.C.
- ——. 1994. "Improving Inter-Spatial and Inter-Temporal Comparability of National Accounts." Journal of Development Economics 44 (1): 53–75.
- **Alderman, Harold, Peter F. Orazem, and Elizabeth Paterno.** 2001. "School Quality, School Cost and the Public/Private School Choices of Low-Income Households in Pakistan." *Journal of Human Resources* 36 (2): 304–26.
- **Ball, Nicole.** 1984. "Measuring Third World Security Expenditure: A Research Note." World Development 12 (2): 157–64.
- Barro, Robert J. 1991. "Economic Growth in a Cross-Section of Countries."
 Quarterly Journal of Economics 106 (2): 407–43.
- **Beck, Thorsten, and Ross Levine.** 2001. "Stock Markets, Banks, and Growth: Correlation or Causality?" Policy Research Working Paper 2670. World Bank, Development Research Group, Washington, D.C.
- Beck, Thorsten, Asli Demirgüç-Kunt, and Maria Soledad Martizez Peria. 2005.

 "Reaching Out: Access to and Use of Banking Services across Countries."

 Policy Research Working Paper 3754. World Bank, Development Research Group, Washington, D.C.
- Behrman, Jere R., and Mark R. Rosenzweig. 1994. "Caveat Emptor: Cross-Country Data on Education and the Labor Force." *Journal of Development Economics* 44 (1): 147–71.
- **Bhalla, Surjit.** 2002. *Imagine There Is No Country: Poverty, Inequality, and Growth in the Era of Globalization*. Washington, D.C.: Institute for International Economics.
- Bilsborrow, R. E., Graeme Hugo, A. S. Oberai, and Hania Zlotnik. 1997. International Migration Statistics. Geneva: International Labour Office.
- **Bloom, David E., and Jeffrey G. Williamson.** 1998. "Demographic Transitions and Economic Miracles in Emerging Asia." *World Bank Economic Review* 12 (3): 419–55.
- **Bourguignon, François.** 2006. "Dynamics of Institutions, Development, and the Elites." Presentation at the Annual World Bank Conference on Development Economics (ABCDE), January 18, St. Petersburg, Russia.
- Brown, Lester R., Michael Renner, Christopher Flavin. 1998. Vital Signs 1998: The Environmental Trends That Are Shaping Our Future. New York: W.W. Norton.
- Brown, Lester R., Michael Renner, and Brian Halweil. 1999. Vital Signs 1999: The Environmental Trends That Are Shaping Our Future. New York: W.W. Norton.

- Brown, Lester R., Christopher Flavin, Hilary F. French, and others. 1998. State of the World 1998: A Worldwatch Institute Report on Progress toward a Sustainable Society. New York: W.W. Norton.
- Caiola, Marcello. 1995. A Manual for Country Economists. Training Series 1. Vol.1. Washington, D.C.: International Monetary Fund.
- Carr, Dara. 2004. "Improving the Health of the World's Poorest People." Health Bulletin 1. Population Reference Bureau, Washington, D.C.
- CELADE (Centro Latinoamericano de Demografia). Various issues. Boletín Demografico.
- Chaudhury, Nazmul, Jeffrey S. Hammer, Michael Kremer, Karthik Muralidharan, and F. Halsey Rogers. 2004. "Teacher and Health Care Provider Absenteeism: A Multi-Country Study." World Bank, Washington, D.C.
- Chen, Shaohua, and Martin Ravallion. 2004. "How Have the World's Poorest Fared since the 1980s?" World Bank Research Observer 19 (2): 141–69
- **Claessens, Stijn.** 2005. "Access to Financial Services: A Review of the Issues and Public Policy Objectives." Policy Research Working Paper 3589. World Bank, Operations and Policy Department, Washington, D.C.
- **Cleland, John, and Steven Sinding.** 2005. "What Would Malthus Say about AIDS in Africa?" *The Lancet* 367 (9512): 730.
- Collier, Paul, and David Dollar. 1999. "Aid Allocation and Poverty Reduction." Policy Research Working Paper 2041. World Bank, Development Research Group. Washington. D.C.
- 2001. "Can the World Cut Poverty in Half? How Policy Reform and Effective Aid Can Meet the International Development Goals." Policy Research Working Paper 2403. World Bank, Development Research Group, Washington, D.C.
- **Commission for Africa.** 2005. "Our Common Interest: Report of the Commission for Africa." Glasgow, UK. [www.commissionforafrica.org/english/report/thereport/english/11-03-05_cr_report.pdf]
- Commission of the European Communities, IMF (International Monetary Fund),
 OECD (Organisation for Economic Co-operation and Development), United
 Nations, and World Bank. 2002. System of Environmental and Economic
 Accounts: SEEA 2000. New York.
- **Containerisation International.** 2006. *Containerisation International Yearbook* 2006. London: Informa Maritime and Transport.
- Corrao, Marlo Ann, G. Emmanuel Guindon, Namita Sharma, and Donna Fakhrabadi Shokoohi, eds. 2000. *Tobacco Control Country Profiles*. Atlanta, Ga.: American Cancer Society.
- **CSD** (Commission on Sustainable Development). 1997. Comprehensive Assessment of the Freshwater Resources of the World. Report of the Secretary-General. New York.
- Deaton, Angus. 2002. "Counting the World's Poor: Problems and Possible Solutions." World Bank Research Observer 16 (2): 125–47.

- Demirgüç-Kunt, Asli, and Ross Levine. 1996a. "Stock Market Development and Financial Intermediaries: Stylized Facts." World Bank Economic Review 10 (2): 291–321.
- Demirgüç-Kunt, Asli, Baybars Karacaovali, and Luc Laeven. 2005. "Deposit Insurance around the World: A Comprehensive Database." Policy Research Working Paper 3628. World Bank, Washington, D.C.
- **De Onis, Mercedes, and Monika Blössner.** 2000. "The WHO Global Database on Child Growth and Malnutrition: Methodology and Applications." *International Journal of Epidemiology* 32: 518–26.
- De Onis, Mercedes, Monika Blössner, Elaine Borghi, Edward A. Frongillo, and Richard Morris. 2004. "Estimates of Global Prevalence of Childhood Underweight in 1990 and 2015." *Journal of the American Medical Association* 291 (21): 2600–06.
- **Development Committee.** 2003. "Supporting Sound Policies with Adequate and Appropriate Financing: Implementing the Monterrey Consensus at the Country Level." SecM2003-0370. World Bank and International Monetary Fund. Washington, D.C.
- 2005. "Infrastructure and the World Bank." DC2005-0015. World Bank and International Monetary Fund. Washington, D.C.
- **DKT International.** 1998. "1997 Contraceptive Social Marketing Statistics." Washington, D.C.
- Doyle, John J., and Gabrielle J. Persley, eds. 1996. Enabling the Safe Use of Biotechnology: Principles and Practice. Environmentally Sustainable Development Studies and Monographs Series 10. Washington, D.C.: World Bank.
- Drucker, Peter F. 1994. "The Age of Social Transformation." Atlantic Monthly, November.
- Easterly, William. 2000. "Growth Implosions, Debt Explosions, and My Aunt Marilyn: Do Growth Slowdowns Cause Public Debt Crises?" Policy Research Working Paper 2531. World Bank, Development Research Group, Washington, D.C.
- **Eurostat (Statistical Office of the European Communities).** Various years. *Demographic Statistics*. Luxembourg.
- ----- Various years. Statistical Yearbook. Luxembourg.
- **Evenson, Robert E., and Carl E. Pray.** 1994. "Measuring Food Production (with Reference to South Asia)." *Journal of Development Economics* 44 (1): 173–97.
- Falz, Asif, Christopher S. Weaver, and Michael P. Walsh. 1996. Air Pollution from Motor Vehicles: Standards and Technologies for Controlling Emissions.

 Washington, D.C.: World Bank.
- Fankhauser, Samuel. 1995. Valuing Climate Change: The Economics of the Greenhouse. London: Earthscan.
- **FAO (Food and Agriculture Organization).** 1986. "Inter-Country Comparisons of Agricultural Production Aggregates." Economic and Social Development Paper 61. Rome.
- ——. 1996. Food Aid in Figures 1994. Vol. 12. Rome.
- -----. 2001a. Agriculture: Towards 2015/30. Rome.

- 2001b. State of Food Insecurity in the World 2001. Rome.
- 2003. State of the World's Forests 2003. Rome.
 - Various years. Fertilizer Yearbook. FAO Statistics Series. Rome.
 - Various years. Production Yearbook. FAO Statistics Series. Rome.
 - Various years. The State of Food Insecurity in the World. Rome.
- ------ Various years. Trade Yearbook. FAO Statistics Series. Rome
- **Frankel, Jeffrey.** 1993. "Quantifying International Capital Mobility in the 1990s." In *On Exchange Rates*. Cambridge, Mass.: MIT Press.
- Frankhauser, Pierre. 1994. "Fractales, tissus urbains et reseaux de transport." Revue d'economie politique 104: 435–55.
- **Fredricksen, Birger.** 1993. Statistics of Education in Developing Countries: An Introduction to Their Collection and Analysis. Paris: United Nations Educational, Scientific, and Cultural Organization.
- Gallup, John L., and Je rey D. Sachs. 1998. "The Economic Burden of Malaria."
 Harvard Institute for International Development, Cambridge, Mass.
- Gannon, Colin, and Zmarak Shalizi. 1995. "The Use of Sectoral and Project Performance Indicators in Bank-Financed Transport Operations." TWU Discussion Paper 21. World Bank, Transportation, Water, and Urban Development Department, Washington, D.C.
- **Gardner, Robert.** 1998. "Education." Demographic and Health Surveys, Comparative Study 29. Macro International, Calverton, Md.
- **Gardner-Outlaw, Tom, and Robert Engelman.** 1997. "Sustaining Water, Easing Scarcity: A Second Update." Population Action International, Washington, D.C.
- **Goldfinger, Charles.** 1994. L'utile et le futile: L'économie de l'immatériel. Paris: Editions Odile Jacob.
- **GTZ** (German Agency for Technical Cooperation). 2004. Fuel Prices and Taxation. Eschborn, Germany.
- **Gupta, Sanjeev, Hamid Davoodi, and Erwin Tiongson.** 2000. "Corruption and the Provision of Health Care and Education Services." IMF Working Paper 00/116. International Monetary Fund, Washington, D.C.
- Gupta, Sanjeev, Brian Hammond, and Eric Swanson. 2000. "Setting the Goals." OECD Observer 223: 15–17.
- Gwatkin, Davidson, and Michel Guillot. 2000. "The Burden of Disease among the Global Poor." Health, Nutrition, and Population Series. World Bank, Washington. D.C.
- Habyarimana, James, Jishnu Das, Stefan Dercon, and Pramila Krishnan. 2003. "Sense and Absence: Absenteeism and Learning in Zambian Schools." World Bank, Washington, D.C.
- Hamilton, Kirk, and Michael Clemens. 1999. "Genuine Savings Rates in Developing Countries." World Bank Economic Review 13 (2): 333–56.
- Hanushek, Eric. 2002. The Long-Run Importance of School Quality. NBER Working Paper 9071. Cambridge, Mass.: National Bureau of Economic Research.
- Happe, Nancy, and John Wakeman-Linn. 1994. "Military Expenditures and Arms Trade: Alternative Data Sources." IMF Working Paper 94/69.

- International Monetary Fund, Policy Development and Review Department, Washington, D.C
- Harrison, Ann. 1995. "Factor Markets and Trade Policy Reform." World Bank, Washington, D.C.
- Hatzichronoglou, Thomas. 1997. "Revision of the High-Technology Sector and Product Classification." STI Working Paper 1997/2. Organisation for Economic Co-operation and Development, Directorate for Science, Technology, and Industry, Paris.
- Heck, W. W. 1989. "Assessment of Crop Losses from Air Pollutants in the U.S."
 In J. J. McKenzie and M. T. El Ashry, eds., Air Pollution's Toll on Forests and Crops. New Haven, Conn.: Yale University Press.
- **Heston, Alan.** 1994. "A Brief Review of Some Problems in Using National Accounts Data in Level of Output Comparisons and Growth Studies." *Journal of Development Economics* 44 (1): 29–52.
- Hettige, Hemamala, Muthukumara Mani, and David Wheeler. 1998. "Industrial Pollution in Economic Development: Kuznets Revisited." Policy Research Working Paper 1876. World Bank, Development Research Group, Washington, D.C.
- **IEA (International Energy Agency).** 2002. World Energy Outlook: Energy and Poverty. Paris.
- ------ Various years. Energy Balances of OECD Countries. Paris.
- ——, Various years. Energy Statistics and Balances of Non-OECD Countries.

 Paris
- ------ Various years. Energy Statistics of OECD Countries. Paris.
- IFPRI (International Food Policy Research Institute). 1999. Soil Degradation: A Threat to Developing-Country Food Security by 2020. Washington, D.C.
- **ILO (International Labour Organization).** Various years. *Key Indicators of the Labour Market*. Geneva: International Labour Office.
- ——.Various years. Yearbook of Labour Statistics. Geneva: International Labour Office.
- IMF (International Monetary Fund). 1977. Balance of Payments Manual. 4th ed. Washington. D.C.
- 1993. Balance of Payments Manual. 5th ed. Washington, D.C.
- 1995. Balance of Payments Compilation Guide. Washington, D.C.
- _____.1996. Balance of Payments Textbook. Washington, D.C.
- ----- 2000. Monetary and Financial Statistics Manual. Washington, D.C.
- ------ 2001. Government Finance Statistics Manual. Washington, D.C.
- ———, 2004a. Compilation Guide on Financial Soundness Indicators. Washington, D.C.
- 2004b. World Economic Outlook. Chapter 3. Washington, DC.
- 2005. Global Financial Stability Report. Washington, D.C.
- ------ Various issues. Direction of Trade Statistics.
- ------ Various issues. International Financial Statistics.
- ——. Various years. Balance of Payments Statistics Yearbook. Parts 1 and 2. Washington, D.C.

- Various years. Direction of Trade Statistics Yearbook. Washington, D.C.
- Various years. Government Finance Statistics Yearbook. Washington, D.C.
- ------ Various years. International Financial Statistics Yearbook. Washington, D.C.
- IMF (International Monetary Fund), OECD (Organisation for Economic Cooperation and Development), United Nations, and World Bank. 2000. A Better World for All: Progress towards the International Development Goals. Washington, D.C.
- International Civil Aviation Organization. 2005. Civil Aviation Statistics of the World database. Montreal.
- International Institute for Strategic Studies. 2005. The Military Balance 2005–2006. London: Oxford University Press.
- International Road Federation. 2005. World Road Statistics 2005. Geneva.
- International Working Group of External Debt Compilers (Bank for International Settlements, International Monetary Fund, Organisation for Economic Co-operation and Development, and World Bank). 1987. External Debt Definitions. Washington, D.C.
- Inter-Secretariat Working Group on National Accounts (Commission of the European Communities, International Monetary Fund, Organisation for Economic Cooperation and Development, United Nations, and World Bank). 1993. System of National Accounts. Brussels, Luxembourg, New York, and Washington, D.C.
- IPCC (Intergovernmental Panel on Climate Change). 2001a. Climate Change 2001. Cambridge: Cambridge University Press.
- ——2001b. Climate Change 2001: The Scientific Basis; Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge: Cambridge University Press.
- 2001c. Climate Change 2001: Impacts, Adaptation, and Vulnerability; Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge: Cambridge University Press.
- ——. 2001d. Climate Change 2001: Mitigation; Contribution of Working Group II to the Third Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge: Cambridge University Press.
- ITU (International Telecommunication Union). 2005. World Telecommunication Indicators Database. Geneva.
- IUCN (World Conservation Union). 1998. 1997 IUCN Red List of Threatened Plants. Gland, Switzerland.
- ------ 2000. 2000 IUCN Red List of Threatened Animals. Gland, Switzerland.
- **Izaguirre, Ada Karina.** 2005. "Private Infrastructure: Emerging Market Sponsors Dominate Private Flows". Public Policy for the Private Sector Note 299. World Bank, Private Sector Development, Washington, D.C.
- Joint Learning Initiative. 2004. Human Resources for Health: Overcoming the Crisis. Boston, Mass.
- Kaufmann, Daniel. 2005. "Click Refresh Button: Investment Climate Reconsidered." Development Outreach, March.

- Kaufmann, Daniel, Aart Kraay, and Massimo Mastruzzi. 2005. "Governance Matters IV: Governance Indicators for 1996–2004." Policy Research Working Paper 3630. World Bank, Washington, D.C.
- **Kozak, Marta.** 2005. "Micro, Small, and Medium Enterprises: A Collection of Published Data." International Finance Corporation, Washington, D.C.
- **Kent, Mary M., and Carl Haub.** 2005. "The Demographic Divide: What It Is and Why It Matters." Excerpted from the forthcoming Population Reference Bureau's Population Bulletin "The Demographic Divide." Washington, D.C.
- Knetter, Michael. 1994. Why Are Retail Prices in Japan So High? Evidence from German Export Prices. NBER Working Paper 4894. Cambridge, Mass.: National Bureau of Economic Research.
- Kunte, Arundhati, Kirk Hamilton, John Dixon, and Michael Clemens. 1998.
 "Estimating National Wealth: Methodology and Results." Environmental Economics Series 57. World Bank, Environment Department, Washington, D.C.
- Lanjouw, Jean O., and Peter Lanjouw. 2001. "The Rural Non-Farm Sector: Issues and Evidence from Developing Countries." Agricultural Economics 26 (1): 1–23
- **Lanjouw, Peter, and Gershon Feder.** 2001. "Rural Nonfarm Activities and Rural Development: From Experience toward Strategy." Rural Strategy Discussion Paper 4. World Bank, Washington, D.C.
- **Lewis, Karen K.** 1995. "Puzzles in International Financial Markets." In Gene Grossman and Kenneth Rogoff, eds., *Handbook of International Economics*. Vol. 3. Amsterdam: North Holland.
- Lewis, Stephen R., Jr. 1989. "Primary Exporting Countries." In Hollis Chenery and T. N. Srinivasan, eds., Handbook of Development Economics. Vol. 2. Amsterdam: North Holland.
- Lovei, Magdolna. 1997. "Toward Effective Pollution Management." Environment Matters (Fall): 52–53.
- Lucas, R. E. 1988. "On the Mechanics of Economic Development." Journal of Monetary Economics 22: 3–42.
- Mani, Muthukumara, and David Wheeler. 1997. "In Search of Pollution Havens?

 Dirty Industry in the World Economy, 1960–95." World Bank, Policy Research

 Department, Washington, D.C.
- McCarthy, F. Desmond, and Holger Wolf. 2001. "Comparative Life Expectancy in Africa." Policy Research Working Paper 2668. World Bank, Development Research Group, Washington, D.C.
- McCay, J., M. Erkson, and O. Shafey. 2006. *Tobacco Atlas*. 2nd ed. Atlanta, Ga.: American Cancer Society.
- Midgley, Peter. 1994. "Urban Transport in Asia: An Operational Agenda for the 1990s." Technical Paper 224. World Bank, Washington, D.C.
- **Morgenstern, Oskar.** 1963. *On the Accuracy of Economic Observations*. Princeton, N.J.: Princeton University Press.
- Morisset, Jacques. 2000. "Foreign Direct Investment in Africa: Policies Also Matter" Policy Research Working Paper 2481. World Bank, Washington D.C.

- National Science Board. 2004. Science and Engineering Indicators 2004. Arlington. Va.: National Science Foundation.
- Netcraft. 2005. "Netcraft Secure Server Survey." [www.netcraft.com/].
- Newfarmer, Richard, ed. 2006. Trade, Doha, and Development: A Window into the Issues. Washington, D.C.: World Bank.
- NRI (National Research Institute) and World Bank. 2003. "Public Expenditure and Service Delivery in Papua New Guinea: Draft." Washington, D.C.
- Obstfeldt, Maurice. 1995. "International Capital Mobility in the 1990s." In P. B. Kenen, ed., Understanding Interdependence: The Macroeconomics of the Open Economy. Princeton, N.J.: Princeton University Press.
- **Obstfeldt, Maurice, and Kenneth Rogoff 1996.** Foundations of International Macroeconomics. Cambridge, Mass.: MIT Press.
- OECD (Organisation for Economic Co-operation and Development). 1985. Measuring Health Care 1960–1983: Expenditure, Costs, Performance. Paris.
- ——. 1996. Trade, Employment, and Labour Standards: A Study of Core Workers' Rights and International Trade. Paris.
- ----- 1997. Employment Outlook. Paris.
- ——2003. Agricultural Policies in OECD Countries: Monitoring and Evaluation 2003. Paris
- ------ Various issues. Main Economic Indicators.Paris.
- ------ Various years. International Development Statistics. CD-ROM. Paris
- ----- Various years. National Accounts. Vol. 1, Main Aggregates. Paris
- ------ Various years. National Accounts. Vol. 2, Detailed Tables. Paris.
- ——. Various years. Trends in International Migration: Continuous Reporting System on Migration. Paris
- OECD (Organisation for Economic Co-operation and Development) DAC (Development Assistance Committee). Various years. Development Cooperation Report. Paris
- Various years. Geographical Distribution of Financial Flows to Aid Recipients: Disbursements, Commitments, Country Indicators. Paris
- OECD Journal on Development. 2006. Development Co-operation Report 2005:

 Efforts and Policies of the Members of the Development Assistance Committee. Volume 7. issue 1.
- **O'Meara, Molly.** 1999. "Reinventing Cities for People and the Planet." Worldwatch Paper 147. Worldwatch Institute, Washington, D.C.
- Özden, Çaglar, and Maurice Schiff, eds. 2005. International Migration, Remittances, and the Brain Drain. New York: Palgrave Macmillan.
- Palacios, Robert, and Montserrat Pallares-Miralles. 2000. "International Patterns of Pension Provision." Social Protection Discussion Paper 0009. World Bank, Human Development Network, Washington, D.C.
- Pandey, Kiran Dev, Katharine Bolt, Uwe Deichmann, Kirk Hamilton, Bart Ostro, and David Wheeler. 2003. "The Human Cost of Air Pollution: New Estimates for Developing Countries." World Bank, Development Research Group and Environment Department, Washington, D.C.

- Pearce, David, and Giles Atkinson. 1993. "Capital Theory and the Measurement of Sustainable Development: An Indicator of Weak Sustainability." *Ecological Economics* 8 (2): 103–08.
- Pilling, David. 1999. "In Sickness and in Wealth." Financial Times, October 22.
 Plucknett, Donald L. 1991. "Saving Lives through Agricultural Research." Issues in Agriculture 16. World Bank, Consultative Group on International Agricultural Research, Washington, D.C.
- PricewaterhouseCoopers. 2004a. Corporate Taxes 2004–2005: Worldwide Summaries. New York.
- 2004b. Individual Taxes 2004–2005: Worldwide Summaries. New York.
- Rama, Martin, and Raquel Artecona. 2002. "A Database of Labor Market Indicators across Countries." World Bank, Development Research Group, Washington, D.C.
- Ravallion, Martin, and Shaohua Chen. 1996. "What Can New Survey Data Tell Us about the Recent Changes in Living Standards in Developing and Transitional Economies?" World Bank, Policy Research Department, Washington, D.C.
- Rodrik, Dani. 1996. "Labor Standards in International Trade: Do They Matter and What Do We Do About Them?" Overseas Development Council, Washington, D.C.
- Rodrik, Dani, and Arvind Subramanian. 2003. "The Primacy of Institutions (and What This Does and Does Not Mean)." Finance & Development 40 (2): 31–34.
- Romer, P. M. 1986. "Increasing Returns and Long-Run Growth." *Journal of Political Economy* 94 (5): 1002–37.
- Ruggles, Robert. 1994. "Issues Relating to the UN System of National Accounts and Developing Countries." Journal of Development Economics 44 (1): 77–85.
- Ryten, Jacob. 1998. "Fifty Years of ISIC: Historical Origins and Future Perspectives." ECA/STAT.AC. 63/22. United Nations, Statistics Division, New York.
- Saghir, Jamal. 2005. "Energy and Poverty: Myths, Links, and Policy Issues. Energy Working Notes 4. World Bank, Washington, D.C.
- Sala-i-Martin, Xavier. 2002. The Disturbing "Rise" in Global Income Inequality. NBER Working Paper 8904. Cambridge, Mass.: National Bureau of Economic Research.
- Salomon, Joshua A., Daniel R. Hogan, John Stover, Karen A. Stanecki, Neff Walker,
 Peter D. Ghys, and Bernhard Schwartländer. 2005. "Integrating HIV Prevention
 and Treatment: From Slogans to Impact." *PLoS Medicine* 2 (1): e16.
- Shiklovanov, Igor. 1993. "World Fresh Water Resources." In Peter H. Gleick, ed., Water in Crisis: A Guide to Fresh Water Resources. New York: Oxford University Press.
- **SIPRI (Stockholm International Peace Research Institute).** 2005. SIPRI Year-book 2005: Armaments, Disarmament, and International Security. Oxford: Oxford University Press
- Smith, Lisa, and Laurence Haddad. 2000. "Overcoming Child Malnutrition in Developing Countries: Past Achievements and Future Choices." 2020 Brief 64. International Food Policy Research Institute, Washington, D.C.

- Srinivasan, T. N. 1994a. "Database for Development Analysis: An Overview." Journal of Development Economics 44 (1): 3–28.
- ——. ed. 1994b. Special Issue on Database for Development Analysis. *Journal of Development Economics* 44 (1).
- **Standard & Poor's.** 2000. The S&P Emerging Market Indices: Methodology, Definitions, and Practices. New York.
- 2005. Global Stock Markets Factbook 2005. New York.
- **Tarmann, Allison.** 2002. Response to Hunger Tests New Priorities. *Population Today*, November/December 2001.
- Taylor, Alan M. 1996a. International Capital Mobility in History: Purchasing Power Parity in the Long Run. NBER Working Paper 5742. Cambridge, Mass.: National Bureau of Economic Research.
- ——. 1996b. International Capital Mobility in History: The Saving-Investment Relationship. NBER Working Paper 5743. Cambridge, Mass.: National Bureau of Economic Research.
- UNACC/SCN (United Nations Administrative Committee on Coordination, Subcommittee on Nutrition). Various years. Update on the Nutrition Situation. Geneva.
- UNAIDS (Joint United Nations Programme on HIV/AIDS) and WHO (World Health Organization). 2005. AIDS Epidemic Update: December 2005. Geneva.
- Various years. Report on the Global AIDS Epidemic. Geneva.
- UNCTAD (United Nations Conference on Trade and Development). 2003. The
 Least Developed Countries Report. Geneva
- Various years. Handbook of Statistics. Geneva.
- UNEP (United Nations Environment Programme). 1991. Urban Air Pollution.
 Nairobi.
- UNESCO (United Nations Educational, Scientific, and Cultural Organization).
 - 1997. International Standard Classification of Education. Paris
- 2005. Literacy for Life. Paris.
- ——— 2006. EFA Global Monitoring Report. Paris.
- UNESCO (United Nations Educational, Scientific, and Cultural Organization)
 Institute for Statistics. Various Years. Global Education Digest. Paris.
- UNESCWA (United Nations Economic and Social Commission for Western Asia). 1997. "Purchasing Power Parities: Volume and Price Level Comparisons for the Middle East, 1993." E/ESCWA/STAT/1997/2. Amman, Jordan
- UNFCCC (United Nations Framework Convention on Climate Change). 2005.
 "Kyoto Protocol to the United Nations Framework Convention on Climate Change." Bonn, Germany.
- UNFPA (United Nations Population Fund). 2005. State of World Population.
 New York.
- UN-HABITAT (United Nations Human Settlements Programme). 2003. Global Report on Human Settlements. Nairobi.
- UNHCR (United Nations High Commissioner for Refugees). 2005. Statistical Yearbook 2003. Geneva.

- UNICEF (United Nations Children's Fund). Various years. The State of the World's Children. New York: Oxford University Press.
- UNIDO (United Nations Industrial Development Organization). Various years.

 International Yearbook of Industrial Statistics. Vienna.
- United Nations. 1947. Measurement of National Income and the Construction of Social Accounts. New York.
- ——.1968. "A System of National Accounts: Studies and Methods." Series F, no. 2, rev. 3. New York.
- ——. 1990. "International Standard Industrial Classification of All Economic Activities, Third Revision." Statistical Papers Series M, no. 4, rev. 3. New York.
- ——,1992. "Handbook of the International Comparison Programme." Studies in Methods Series F, no. 62. New York.
- . 1993. "SNA Handbook on Integrated Environmental and Economic Accounting." Series F, no. 61. Statistical Office, New York.
- ———. 1999. "Integrated Environmental and Economic Accounting: An Operational Manual." Studies in Methods Series F, no. 78. New York.
- ———. 2000. We the Peoples: The Role of the United Nations in the 21st Century.

 New York.
- ——. 2004. "Trends in Total Migrant Stock: The 2003 Revision." POP/DB/MIG/ Rev.2003. Department of Economic and Social Affairs, New York.
- ——, 2005a. "The Energy Challenge for Achieving the Millennium Development Goals." New York.
- _____. 2005b. The Millennium Development Goals Report. New York.
- United Nations Millennium Project. 2005. Taking Action: Achieving Gender Equality and Empowering Women. Task Force on Education and Gender Equality.

 London: Earthscan.
- United Nations Population Division. 2002. International Migration Report 2002.

 New York
- ——. 2003. World Population Prospects: The 2004 Revision. POP/DB/WPP/ Rev. 2004/1/F10. Department of Economic and Social Affairs, New York.
- 2004. World Urbanization Prospects: The 2003 Revision. New York.
- ——, 2005. World Population Prospects: The 2004 Revision Highlights. ESA/P/ WP.193. Department of Economic and Social Affairs, New York
- ------ Various years. Levels and Trends of Contraceptive Use. New York.
- United Nations Statistics Division. 1985. National Accounts Statistics: Compendium of Income Distribution Statistics. New York.
- ----- Various issues. Monthly Bulletin of Statistics. New York.
- ------ Various years. Energy Statistics Yearbook. New York.
- ------ Various years. International Trade Statistics Yearbook. New York
- ——. Various years. National Accounts Statistics: Main Aggregates and Detailed Tables. Parts 1 and 2. New York.
- ----- Various years. National Income Accounts. New York.
- ------ Various years. Population and Vital Statistics Report. New York.

- ------ Various years. Statistical Yearbook. New York
- U.S. Environmental Protection Agency. 1995. National Air Quality and Emissions Trends Report 1995. Washington, D.C.
- Walsh, Michael P. 1994. "Motor Vehicle Pollution Control: An Increasingly Critical Issue for Developing Countries." World Bank, Washington, D.C.
- Watson, Robert, John A. Dixon, Steven P. Hamburg, Anthony C. Janetos, and Richard H. Moss. 1998. Protecting Our Planet, Securing Our Future: Linkages among Global Environmental Issues and Human Needs. Nairobi and Washington, D.C.: United Nations Environment Programme, U.S. National Aeronautics and Space Administration, and World Bank.
- WHO (World Health Organization). 1983. International Classification of Diseases. 10th rev. Geneva.
- ——. 1997. "Coverage of Maternity Care." Geneva.
- ——. 1999. World Health Report 1999: Making a Difference. Geneva
- ——. 2004a. Beyond the Numbers: Reviewing Maternal Deaths and Complications to Make Pregnancy Safer. Geneva.
- 2004b. Tobacco Control Country Profiles 2003. Geneva.
- 2004c. World Report on Road Traffic Injury Prevention. Geneva.
- _____. 2006. Global Atlas of the Health Work Force. Geneva.
- ------ Various years. Global Tuberculosis Control Report. Geneva.
- ----- Various years. World Health Report. Geneva.
- WHO (World Health Organization) and UNICEF (United Nations Children's Fund).
 2003. The Africa Malaria Report 2003. Geneva.
- ——. 2004. Meeting the MDG Drinking Water and Sanitation Target: A Mid-term Assessment of Progress. Geneva.
- WIPO (World Intellectual Property Organization). 2004. Industrial Property Statistics. Geneva.
- WITSA (World Information Technology and Services Alliance). 2004. "Digital Planet 2004: The Global Information Economy." Vienna, Va.
- Wolf, Holger C. 1997. Patterns of Intra- and Inter-State Trade. NBER Working Paper 5939. Cambridge, Mass.: National Bureau of Economic Research.
- World Bank. 1990. World Development Report 1990: Poverty. New York: Oxford University Pres
- ——. 1992. World Development Report 1992: Development and the Environment. New York: Oxford University Press.
- ——— 1995. "China's GDP in U.S. Dollars, Based on Purchasing Power Parity." Policy Research Working Paper 1415. Washington, D.C.
- ——. 1996a. Environment Matters (summer). Environment Department, Washington, D.C.
- ——. 1996b. "Livable Cities for the 21st Century: A Directions in Development book." Washington, D.C.
- ——. 1996c. "National Environmental Strategies: Learning from Experience." Environment Department, Washington, D.
- ———. 1997a. Can the Environment Wait? Priorities for East Asia. Washington, D.C.

- 1997b. "Expanding the Measure of Wealth: Indicators of Environmentally Sustainable Development." Environmentally Sustainable Development Studies and Monographs Series, no. 17. Washington, D.C.
 1997c. "Rural Development: From Vision to Action." Environmentally Sustainable Development Studies and Monographs Series, no. 12. Washington, D.C.
 1999a. "Fuel for Thought: Environmental Strategy for the Energy Sector." Environment Department, Energy, Mining, and Telecommunications Department and International Finance Corporation, Washington, D.C.
 1999b. Greening Industry: New Roles for Communities, Markets, and
- _____ 2000a. *Trade Blocs*. New York: Oxford University Press.

Governments. New York: Oxford University Press.

- ——. 2000b. World Development Report 2000/2001: Attacking Poverty. New York: Oxford University Press.
- ——, 2001. World Development Report 2002: Building Institutions for Markets.

 New York: Oxford University Press.
- ——.2002a. A Case for Aid: Building a Consensus for Development Assistance. Washington, D.C.
- ——. 2002b. "The Environment and the Millennium Development Goals." Washington, D.C.
- 2002c. "Financial Impact of the HIPC Initiative: First 24 Country Cases." Washington, D.C.
- 2002d. Globalization, Growth, and Poverty: Building an Inclusive World Economy. New York: Oxford University Press.
- 2003a. "The Millennium Development Goals for Health: Rising to the Challenges." Washington, D.C.
- _____. 2003b. World Bank Atlas. Washington, D.C.
- 2003c. World Development Report 2004: Making Services Work for the Poor. New York: Oxford University Press.
- 2004a. "Competing in the Global Economy: An Investment Climate Assessment for Uganda." Investment Climate Assessment. Washington, D.C.
- 2004b. "Measuring Results: Improving National Statistics in IDA Countries." International Development Association, Washington, D.C. [http://siteresources.worldbank.org/IDA/Resources/MeasuringResultsStatistics.pdf].
- ——. 2004c. Partnerships in Development: Progress in the Fight against Poverty. Washington, D.C.
- 2004d. Private Participation in Infrastructure Project Database. [http://ppi.worldbank.org/].

- 2004e. Reforming Infrastructure: Privatization, Regulation, and Competition. New York: Oxford University Press.
- 2004f. World Bank Atlas. Washington, D.C.
- ——, 2004g. World Development Report 2005: A Better Investment Climate for Everyone. New York: Oxford University Press.
- 2005a. Building Effective States: Forging Engaged Societies; Report of the World Bank Task Force on Capacity Development in Africa. Washington, D.C.
- ——. 2005b. "Financing Africa's Infrastructure Needs: Experts Tackle Challenge." 1818 Society News, June 9.
- 2005c. "Meeting the Challenge of Africa's Development: A World Bank Group Action Plan." Africa Region, World Bank, Washington, D.C.
- ——. 2005d. World Development Report 2006: Equity and Development. New York: Oxford University Press.
- ——. 2005e. Rolling Back Malaria: The World Bank Global Strategy and Booster Program. Washington, D.C.
- 2006a. Doing Business in 2006: Creating Jobs. Washington, D.C.
- 2006b. "Investment Climate Surveys Online." [http://iresearch.worldbank.org/ics/jsp/index.jsp].
- ------ Various issues. Global Commodity Markets.
- Various years. Global Development Finance. Washington, D.C.
- ——. Various years. Global Economic Prospects and the Developing Countries.
 Washington, D.C.
- Various years. World Development Indicators. Washington, D.C.
- **World Bank and International Monetary Fund.** 2005. *Global Monitoring Report* 2005: *Millennium Development Goals; From Consensus to Momentum.* Washington, D.C.
- **World Energy Council.** 1995. Global Energy Perspectives to 2050 and Beyond. London.
- World Resources Institute, UNEP (United Nations Environment Programme), UNDP (United Nations Development Programme), and World Bank. Various years. World Resources: A Guide to the Global Environment. New York: Oxford University Press.
- World Tourism Organization. 2002a. Compendium of Tourism Statistics 2002.

 Madrid.
- 2002b. Yearbook of Tourism Statistics. Vols. 1 and 2. Madrid.
- WTO (World Trade Organization). Various years. Annual Report. Geneva.

References are to table numbers.

A	
Agriculture	······
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exports, total	6.4
imports, as share of total imports	6.4
imports, total	6.4
yield	3.3
employment, as share of total	3.2
fertilizer	······································
commodity prices	6.5
consumption, per hectare of arable land	3.2
food	
commodity prices	6.5
exports, as share of total exports	4.4, 6.4
exports, total	6.4
imports, as share of total imports	4.5, 6.4
imports, total	6.4
freshwater withdrawals for, as share of total	3.5
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land	
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arable, as share of land area	3.1
arable, per capita	3.1
area under cereal production	3.2
irrigated, as share of cropland	3.2
permanent cropland, as share of land area	3.1
machinery	
tractors per 100 square kilometers of arable land	3.2
production indexes	
crop	3.3
food	3.3
livestock	3.3
value added	
annual growth	4.1
as share of GDP	4.2
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water productivity	
in agriculture	3.5
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Aid	
by recipient	

per capita 6.1 total 6.1 net concessional flows from international financial institutions 6.1 from UN agencies 6.1 net official development assistance and official aid by DAC members as share of general government disbursements 6.1 as share of GNI of donor country 1.4, 6.1 average annual change in volume 6.1 by type 6. for basic social services, as share of sector-allocable ODA commitments 1. from major donors, by recipient 6.1 per capita of donor country 6.1 total 6.9, 6.10, 6.1 untled aid 6.1 DS—see HIV, prevalence pollution—see Pollution transport air freight 5. passengers carried 5. registered carrier departures 5. ylum seekers—see Migration lance of payments current account balance 4.1 net current transfers 4.1 net current transfers 4.1 See also Exports; Imports; Investment; Private capital flows; Trade unk and trade-related lending 6. pological diversity assessment, date prepared, by country 3.1	aid dependency ratios	6.11
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1.3, 3.8
3.8
1.6, 3.8

by economic activity	2.4
male and female	2.4
study and work	2.4
total	2.4
work only	2.4
Cities	
air pollution	3.13
population	
in largest city	3.10
in selected cities	3.13
in urban agglomerations of more than one million	3.10
urban population	3.10
See also Urban environment	
Olaring	
Closing a business—see Business environment	
Commodity prices and price indexes	6.5
Communications—see Internet, users; Newspapers; Telephones	s; Television
Compensation of government employees	4.11
Computers per 1,000 people	5.10
	······
Consumption	······
distribution—see Income, distribution	
fixed capital	3.15
government, general	
annual growth	4.9
as share of GDP	4.8
household	
annual growth	4.9
as share of GDP	4.8
per capita, annual growth	1.2, 4.9
See also Purchasing power parity (PPP)	
Corruntion major constraint in investment climate	5.2
Corruption, major constraint, in investment climate	5.2
Contraceptive prevalence rate	2.16
Contract enforcement	
number of procedures	
••••••••••••••••••••••••••••••••	5.3
time required for	5.3 5.3

major constraint, in investment climate	5.2
Credit	
provided by banking sector	5.5
to private sector	5.1
to private sector	5.1
Crime, major constraint, in investment climate	5.2
Current account balance	4.15
See also Balance of payments	
Customs, average days to clear	5.2
_	
DAC (Development Aggistance Committee) and Aid	
DAC (Development Assistance Committee)—see Aid	
Death rate, crude	2.1
See also Mortality rate	
Debt, external	
debt service	
multilateral	4.17
total	4.17
IMF credit, use of	4.16
long-term	4.16
present value	4.17
private nonguaranteed	4.16
public and publicly guaranteed	
IBRD loans and IDA credits	4.16
Total	4.16
short-term	4.17
total	4.16
Defense	
armed forces personnel	
as share of labor force	5.7
total	5.7
arms transfers	
exports	5.7
imports	5.7

military expenditure

Courts

lack confidence in courts to uphold property rights

as share of central government expendit	ure 5.7
as share of GDP	5.7
Deforestation	3.4
Density—see Population, density	
Dependency ratio—See Population	
Development assistance—see Aid	
Disease—see Health risks	
Distribution of income or consumption—see Inc	ome, distribution

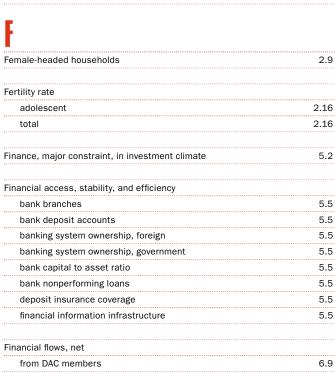


5.2

Education	
attainment	
share of cohort reaching grade 5, male and female	2.12
enrollment ratio	
female to male enrollment in primary and secondary schools	1.2
gross, by level	2.11
net, by level	2.11
gross intake rate, grade 1	2.12
out of school children, male and female	2.11
primary completion rate	1.2
male and female	2.13
public expenditure on	
as share of GDP	2.10
as share of total government expenditure	2.10
per student, as share of GDP per capita, by level	2.10
pupil-teacher ratio, primary level	2.10
repeaters, primary level	2.12
teachers, primary, trained	2.10
transition to secondary school2.12	
unemployment by level of educational attainment	2.5
Electricity	
consumption	5.9
major constraint, in investment climate	5.2
production	
sources	3.9
total	3.9

transmissions and distribution losses	5.9
Employment	
in agriculture, as share of total employment	3.2
in agriculture, male and female	2.3
	2.3
in industry, male and female	2.3
in informal sector, urban	
male and female	2.9
in services, male and female	2.3
laws index, rigidity	5.3
Endangered species—see Biological diversity; Birds; Mammals; l	Plants
Enorgy	
Energy dealering as share of CNI	2.45
depletion, as share of GNI	3.15
emissions—see Pollution	
imports, net	3.7
production	3.7
use	
annual growth	3.7
efficiency, GDP per unit	3.8
per capita	<u>.</u>
average annual growth	3.7
total	3.7
total	3.7
See also Electricity	
Enforcing contracts—see Business environment	
Entry regulations for business—see Business environment	
Environmental strategy, year adopted	3.14
Exchange rates	
official, local currency units to U.S. dollar	4.14
ratio of PPP conversion factor to official exchange rate	4.14
real effective	4.14
See also Purchasing power parity (PPP)	
Evocato	
Exports	 Б 7
arms	5.7
goods and services	
as share of GDP	4.8

average annual growth	4.9
total	4.15
high-technology	
share of manufactured exports	5.11
total	5.11
merchandise	
annual growth	6.3
by high-income OECD countries, by product	6.4
by regional trade blocs	6.6
direction of trade	6.3
structure	4.4
total	4.4
value, average annual growth	6.2
volume, average annual growth	6.2
services	
structure	4.6
total	4.6
transport	4.6
travel	4.6, 6.15
See also Trade	



from multilateral institutions		youth	2.13
international financial institutions	6.13	in mortality	
total	6.13	adult	2.19
United Nations	6.13	child	2.19
official development assistance and official aid		in smoking	2.18
grants from NGOs	6.9	in survival to age 65	2.19
other official flows	6.9	in youth employment	2.9
private	6.9	unpaid family workers	1.5
total	6.9	women in parliaments	1.5
See also Aid		women in nonagricultural sector	1.5
Food—see Agriculture, production indexes; Commodity pri	ces and price indexes	Gini index	2.8
Foreign direct investment, net—see Investment; Private of	apital flows	Government, central	
		debt	
Forest		as share of GDP	4.10
area, as share of total land area	3.1	interest, as share of revenue	4.10
deforestation, average annual	3.4	interest, as share of total expenses	4.11
depletion of	3.15	expense	
		as share of GDP	4.10
Freshwater		by economic type	4.11
annual withdrawals		military	5.7
as share of total resources	3.5	net incurrence of liabilities, as share of GDP	
for agriculture	3.5	cash deficit	4.10
for domestic use	3.5	cash surplus	4.10
for industry	3.5	domestic	4.10
flows		foreign	4.10
internal	3.5	revenue	4.10
resources per capita	3.5	revenues, current	
volume	3.5	grants and other	4.12
See also Water, access to improved source of		social contributions	4.12
		tax, as share of GDP	5.6
G		tax, by source	4.12
Gender differences		Gross capital formation	
in education		annual growth	4.9
enrollment, primary and secondary	1.2	as share of GDP	4.8
in employment	2.3		
in HIV prevalence	2.18	Gross domestic product (GDP)	
in labor force participation	2.2	annual growth	1.1, 1.6, 4.1
in life expectancy at birth	1.5	implicit deflator—see Prices	
in literacy		per capita, annual growth	1.1, 1.6
adult	2.13	total	4.2

Curan formitta direct in rectment and Investment	-	DOTS detection rate
Gross foreign direct investment—see Investment	······	incidence
Gross national income (GNI)	······	treatment success rate
per capita		treatment success rate
PPP dollars	1.1, 1.6	Health expenditure
rank	1.1	as share of GDP
U.S. dollars	1.1, 1.6	external resources
rank		out of pocket
PPP dollars	1.1	per capita
U.S. dollars	1.1	public
total	······································	total
PPP dollars	1.1, 1.6	
U.S. dollars	1.1, 1.6	Health risks
		child malnutrition, prevalence
Gross national savings, as share of GNI	3.15	diabetes, prevalence
		HIV, prevalence
Gross savings, as share of GDP	4.8	overweight children, prevalence
		road traffic injury
U .		smoking
		tuberculosis, incidence
Health care	······································	undernourishment, prevalence
children sleeping under treated bednets	2.15	
children with ARI taken to health provider	2.15	Heavily indebted poor countries (HIPCs)
children with diarrhea who received oral rehydration and contin	ued feeding	completion point
	2.15	decision point
children with fever receiving antimalarial drugs	2.15	nominal debt service relief
health worker density	2.14	
hospital beds per 1,000 people	2.14	Hiring and firing workers
immunization	2.15	rigidity of employment index
physicians per 1,000 people	2.14	
pregnant women receiving prenatal care	1.5	HIV, prevalence
pregnant women receiving tetanus vaccinations	2.16	female
reproductive		
births attended by skilled health staff	1.2, 2.16	Hospital beds—see Health care
contraceptive prevalence rate	2.16	
fertility rate	·····	Housing conditions, national and urban
adolescent	2.16	durable dwelling units
total	2.16	home ownership
low-birthweight babies	2.17	household size
maternal mortality ratio	1.2, 2.16	multiunit dwellings
tetanus vaccinations, share of pregnant women receiving	2.16	overcrowding

2.16

vacancy rate

2.15 1.3, 2.18 2.15

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tuberculosis

unmet need for contraception

Immunization rate	
child	
DPT, share of children ages 12–23 months	2.15
measles, share of children ages 12–23 months	2.15
tetanus, share of pregnant women receiving	2.16
	······
Imports	
arms	5.7
energy, as share of total energy use	3.7
goods and services	
as share of GDP	4.8
average annual growth	4.9
total	4.15
merchandise	
annual growth	6.3
by high-income OECD countries, by product	6.4
direction of trade	6.3
structure	4.5
total	4.5
value, average annual growth	6.2
volume, average annual growth	6.2
services	······································
structure	4.7
total	4.7
transport	4.7
travel	4.7, 6.15
See also Trade	
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Income	······································
distribution	······································
Gini index	2.8
percentage of	1.2, 2.8
	<u>-</u>
Industry	······
annual growth	4.1
as share of GDP	4.2
labor force, as share of total, male and female	2.3
Inflation—see Prices	
Information and communications technology expenditures	
as share of GDP	5.10

per capita	5.10
Integration, global economic, indicators	6.1
Interest payments—see Government, central, debt	
Interest rates	
deposit	4.13
lending	4.13
real	4.13
risk premium on lending	5.5
spread	5.5
International Bank for Reconstruction and Development (IBRD)	
IBRD loans and IDA credits	4.16
net financial flows from	6.13
International Development Association (IDA)	
International Development Association (IDA)	4.16
IBRD loans and IDA credits net concessional flows from	6.13
net concessional nows from	0.13
International Monetary Fund (IMF)	
net financial flows from	6.13
use of IMF credit	4.16
Internet	
broadband subscribers	5.10
price basket	5.10
secure servers	5.10
users	5.10
international bandwidth	5.10
schools connected	5.10
Investment	
climate	5.2
foreign direct, net inflows	0.2
as share of GDP	6.1
total	6.8
foreign direct, net outflows	
as share of GDP	6.1
infrastructure, private participation in	
energy	5.1
telecommunications	5.1

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3.2 3.1 3.1 3.2 3.1 3.1 1.5 1.6, 2.19

M	
Malnutrition, in children under age 5	1.2, 2.17
Malaria	
children sleeping under treated bednets	2.15
children with fever receiving antimalarial drugs	2.15
Mammals	
species	3.4
threatened species	3.4
Management time dealing with officials	5.2
Manufacturing	
structure	4.3
value added	
annual growth	4.1
as share of GDP	4.2
total	4.3
Market access to high-income countries	
goods admitted free of tariffs	1.4
support to agriculture	1.4
tariffs on exports from low- and middle-income countries	
agricultural products	1.4
textiles and clothing	1.4
Merchandise	
exports	
agricultural raw materials	4.4
food	4.4
fuels	4.4
manufactures	4.4
ores and metals	4.4
total	4.4
value, average annual growth	6.2
volume, average annual growth	6.2
imports	
agricultural raw materials	4.5
food	4.5
fuels	4.5
manufactures	4.5
ores and metals	4.5
total	4.5

value, average annual growth

6.2

	6.:
trade	
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ethane	
emissions	
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gration	
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aid as share of GNI of donor country as share of total ODA commitments access to improved water source access to improved sanitation facilities births attended by skilled health staff carbon dioxide emissions per capita	1.3, 2.15, 3. 1.3, 2.15, 3.1 1.2, 2.1 1.3, 3.
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aid as share of GNI of donor country as share of total ODA commitments access to improved water source access to improved sanitation facilities births attended by skilled health staff carbon dioxide emissions per capita children sleeping under treated bednets consumption, national share of poorest quintile female to male enrollments, primary and secondary heavily indebted poor countries (HIPCs) completion point	1.3, 2.15, 3.1 1.3, 2.15, 3.1 1.2, 2.1 1.3, 3. 2.1 1.2, 2. 1.2, 2. 1.
aid as share of GNI of donor country as share of total ODA commitments access to improved water source access to improved sanitation facilities births attended by skilled health staff carbon dioxide emissions per capita children sleeping under treated bednets consumption, national share of poorest quintile female to male enrollments, primary and secondary heavily indebted poor countries (HIPCs)	1. 1.3, 2.15, 3. 1.3, 2.15, 3.1 1.2, 2.1 1.3, 3. 2.1 1.2, 2. 1. 1.2, 2. 1.
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international voice traffic mainlines faults per 100 per 1,000 people price basket mobile	5.9 5.9 5.10 5.9
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as share of GDP in agriculture

in industry

Value added