

INDICATORS for Monitoring the Millennium Development Goals

Definitions

Rationale

Concepts

and Sources

United Nations Development Group

Led by

United Nations Population Fund (UNFPA)

United Nations Development Programme (UNDP)

Department of International Economic and Social Affairs Statistics Division

Indicators for Monitoring the Millennium Development Goals

Definitions Rationale Concepts and Sources

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NOTES

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FOREWORD

Building on the United Nations global conferences of the 1990s, the Millennium Declaration of 2000 marked a strong commitment to the right to development, to peace and security, to gender equality, to the eradication of the many dimensions of poverty and to sustainable human development. Embedded in that Declaration, which was adopted by 147 heads of state and 189 states, were what have become known as the eight Millennium Development Goals, including 18 time-bound targets.

To monitor progress towards these goals and targets, the United Nations system, including the World Bank and the International Monetary Fund, as well as the Development Assistance Committee of the Organisation for Economic Co-operation and Development, came together under the Office of the Secretary General and agreed on 48 quantitative indicators. The indicators built upon an inter-governmental process to identify relevant indicators in response to global conferences. The UN Secretary-General presented the goals, targets and indicators to the General Assembly in September 2001 in the *Road Map Towards the Implementation of the United Nations Millennium Declaration*.

This handbook provides guidance on the definitions, rationale, concepts and sources of the data for each of the indicators that are being used to monitor the goals and targets. It expands on an earlier exercise to provide the metadata for the socio-economic indicators that make up the United Nations Common Country Assessment Indicator Framework. The indicators for goals 1–7 are a subset of this framework.

Preparation of this handbook was directed by an Inter-Agency Working Group of the United Nations Development Group, including the World Bank, chaired by the United Nations Population Fund and co-chaired by the United Nations Statistics Division and the United Nations Development Programme. On behalf of the United Nations Development Group, I would like to thank all the agencies and individuals (see below) who contributed to this handbook, including the Department for International Development of the government of the United Kingdom, which funded the services of a short-term consultant to provide inputs for this handbook.

I believe that this tangible example of interagency collaboration will prove useful to the international community by strengthening national statistical capacity and improving monitoring. And I sincerely hope that this will be sustained through future revisions in the same spirit.

Mark Malloch Brown Chairman United Nations Development Group

Maz Mallon Som

September 2003

MEMBERS AND CONTRIBUTORS TO THE UNITED NATIONS DEVELOPMENT GROUP WORKING GROUP ON INDICATORS

United Nations Population Fund Richard Leete, Chair

Iqbal Alam Kourtoum Nacro Mickie Schoch

Department of International Economic and Social Affairs Statistics Division

Stefan Schweinfest, Vice Chair Robert Johnston Giselle Kamanou Francesca Perucci

United Nations Development Programme

Diana Alarcon, Vice Chair Jan Vandemoortele Haishan Fu

United Nations Development Group Office

Gerton van den Akker Alain Nickels Heidi Swindells Tom Griffin (consultant)

Executive Office of the Secretary-General Madhushree Dasgupta

United Nations Children's Fund

Gareth Jones Tessa Wardlaw

World Food Programme Patricia Kennedy

United Nations Human Settlements Programme Laura Licchi

United Nations Fund for the Advancement of Women Suzette Mitchell

Office of the High Commissioner for Human Rights Goro Onojima

Office of Drug Control and Crime Prevention Andrea Treso **International Labour Organisation** Sophia Lawrence

Food and Agriculture Organization of the United Nations Jorge Mernies Toshiko Murata

United Nations Educational, Scientific and Cultural Organization Denise Lievesley José Pessoa

United Nations Environment Programme

Stuart Chape Marion Cheatle Volodymyr Demkine Eugene Fosnight Phillip Fox Gerald Mutisya

World Bank

Neil Fantom Makiko Harrison Eric Swanson

World Health Organization

Christopher Murray Carla Abou Zahr

World Trade Organization Guy Karsenty

United Nations Convention on Climate Change James Grabert

International Telecommunication Union Esperanza Magpantay

Inter-Parliamentary Union Kareen Jabre

Organisation for Economic Co-operation and Development Brian Hammond Simon Scott

Joint UN Programme on HIV/AIDS Peter Ghys

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INTRODUCTION

This handbook contains basic metadata on the agreed list of quantitative indicators for monitoring progress towards the 8 goals and 18 targets derived from the Millennium Declaration (table 1). The list of indicators, developed using several criteria, is not intended to be prescriptive but to take into account the country setting and the views of various stakeholders in preparing country-level reports.

Five main criteria guided the selection of indicators. They should:

- Provide relevant and robust measures of progress towards the targets of the Millennium Development Goals.
- Be clear and straightforward to interpret and provide a basis for international comparison.
- Be broadly consistent with other global lists and avoid imposing an unnecessary burden on country teams, governments and other partners.
- Be based to the greatest extent possible on international standards, recommendations and best practices.
- Be constructed from well-established data sources, be quantifiable and be consistent to enable measurement over time.

The handbook is designed to provide the United Nations country teams and national and international stakeholders with guidance on the definitions, rationale, concepts and sources of the data for the indicators that are being used to monitor the Millennium Development Goals. Just as the indicator list is dynamic and will necessarily evolve in response to changing national situations, so will the metadata change over time as concepts, definitions and methodologies change.

A consultation process, generally involving the national statistical office or other national authority, should be initiated in the selection and compilation of country-specific indicators. The consultation should take into account national development priorities, the suggested list of indicators and the availability of data. The United Nations country team should work collaboratively to help build ownership and consensus on the selected indicators.

NATIONAL SOURCES

Country data should be used for compiling the indicators where such data are available and of reasonable quality. The data source for each indicator and the quantitative value of the indicator should be decided by consensus among the key stakeholders, especially the national statistical system. Ownership of the data and related indicators should be with the national statistical system.

For any given indicator there may be a wide range of data sources available within the country, and each source should be critically reviewed. Existing data sources and reporting systems should be used where possible, particularly where line ministries have their own statistical systems. International data sources should be consulted for validation and in the absence of national sources.

METADATA SHEETS

For each indicator used to measure progress towards the targets and goals, the handbook provides all or some of the following information:

- A simple operational definition.
- The goal and target it addresses.
- The rationale for use of the indicator.
- The method of computation.
- Sources of data.
- References, including relevant international Web sites.
- Periodicity of measurement.
- Gender and disaggregation issues.
- Limitations of the indicator.
- National and international agencies involved in the collection, compilation or dissemination of the data.

The intention is not to provide an exhaustive amount of information for any of these, but to provide a reference point and guidance for the United Nations country teams and national stakeholders. The amount of information varies by indicator and tends to reflect the extent of national and international debate on its relevance. Limited information is available for some of the less well-established indicators. With further use of the indicators and greater recognition of the need for such data, fuller information is expected to become available.

MDG monitoring is taking place globally, through annual reports of the United Nations Secretary General to the General Assembly, and through periodic country reporting. For global reporting, use is made of indicators compiled by international organizations. Internationally compiled indicators, based on standard concepts, definitions and methodologies more readily facilitate cross-country comparisons. For country reporting, use is generally made of indicators compiled from national sources, generally by the national statistical system. The metadata sheets reflect national and international standards.

ANNEX 1 provides metadata for some additional indicators included in the Common Country Assessment Indicator Framework; the indicators for Millennium Development Goals 1–7 are a subset of this framework. ANNEX 2 supplies information on the household surveys and national sources mentioned in the metadata for constructing the indicators. ANNEX 3 gives the Web addresses of the agencies involved. ANNEX 4 lists the major world summits and conferences that have helped to shape the Millennium Development Goals and indicators.

	GOALS AND TARGETS (FROM THE MILLENNIUM DECLARATION)	INDICATORS 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 less than one dollar a day	 Proportion of population below \$1 (PPP) per day^a Poverty headcount ratio (% of population below the national poverty line) Poverty gap ratio [incidence x depth of poverty] Share of poorest quintile in national consumption
TARGET 2:	Halve, between 1990 and 2015, the proportion of people who suffer from hunger	 Prevalence of underweight children under five years of age Proportion of population below minimum level of dietary energy consumption
GOAL 2:	ACHIEVE UNIVERSAL PRIMARY EDUCATION	
TARGET 3:	Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling	 6. Net enrolment ratio in primary education 74. Proportion of pupils starting grade 1 who reach grade 5 78. Primary completion rate 8. Literacy rate of 15–24 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	 Ratios of girls to boys in primary, secondary and tertiary education Ratio of literate women to men 15–24 years old Share of women in wage employment in the non-agricultural sector Proportion of seats held by women in national parliament
GOAL 4:	REDUCE CHILD MORTALITY	
TARGET 5 :	Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate	 Under-five mortality rate Infant mortality rate Proportion of 1 year-old children immunised against measles
GOAL 5:	IMPROVE MATERNAL HEALTH	
TARGET 6 :	Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio	 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	 HIV prevalence among 15–24 year old pregnant women Condom use rate of the contraceptive prevalence rate^b Condom use at last high-risk sex Percentage of population aged 15-24 with comprehensive correct knowledge HIV/AIDS^c Contraceptive prevalence rate Ratio of school attendance of orphans to school attendance of non-orph aged 10–14
TARGET 8 :	Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases	 Prevalence and death rates associated with malaria Proportion of population in malaria risk areas using effective malaria preven and treatment measuresd Prevalence and death rates associated with tuberculosis Proportion of tuberculosis cases detected and cured under directly obser treatment short course (DOTS)
GOAL 7:	ENSURE ENVIRONMENTAL SUSTAINABILITY	
TARGET 9 :	Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources	 Proportion of land area covered by forest Ratio of area protected to maintain biological diversity to surface area Energy use (kg oil equivalent) per \$1 GDP (PPP) Carbon dioxide emissions (per capita) and consumption of ozone-depleting C (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	 Proportion of population with sustainable access to an improved water source, urban and rural Proportion of urban and rural population with access to improved sanitation
TARGET 11	: By 2020, to have achieved a significant improvement in the lives of at least 100 million slum dwellers	32. Proportion of households with access to secure tenure

GOAL 8: I	DEVELOP A GLOBAL PARTNERSHIP FOR DEVELOPMENT	
		Some of the indicators listed below are monitored separately for the least developed countries (LDCs), Africa, landlocked countries and small island developing States.
TARGET 12 :	Develop further an open, rule-based, predictable, non-discriminatory trad- ing and financial system	 Official development assistance 33. Net ODA, total and to LDCs, as percentage of OECD/DAC donors' gross national income
	Includes a commitment to good governance, development, and poverty reduction – both nationally and internationally	34. Proportion of total bilateral, sector-allocable ODA of OECD/DAC donors to basic social services (basic education, primary health care, nutrition, safe water and
TARGET 13 :	Address the special needs of the least developed countries	sanitation) 35. Proportion of bilateral ODA of OECD/DAC donors that is untied
	Includes: tariff and quota free access for least developed countries' exports; enhanced programme of debt relief for HIPC and cancellation of official bilateral debt; and more generous ODA for countries committed to	 ODA received in landlocked countries as proportion of their GNIs ODA received in small island developing States as proportion of their GNIs
	poverty reduction	Market access 38. Proportion of total developed country imports (by value and excluding arms) from
TARGET 14 :	Address the special needs of landlocked countries and small island devel- oping States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly)	 developing countries and LDCs, admitted free of duties 39. Average tariffs imposed by developed countries on agricultural products and textiles and clothing from developing countries 40. Agricultural support estimate for OECD countries as percentage of their GDP 41. Proportion of ODA provided to help build trade capacity
TARGET 15 :	Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sus- tainable in the long term	 Debt sustainability 42. Total number of countries that have reached their HIPC decision points and number that have reached their HIPC completion points (cumulative) 43. Debt relief committed under HIPC initiative, US\$ 44. Debt service as a percentage of exports of goods and services
TARGET 16 :	In co-operation with developing countries, develop and implement strate- gies for decent and productive work for youth	45. Unemployment rate of 15-24 year-olds, each sex and total ^e
TARGET 17 :	In co-operation with pharmaceutical companies, provide access to afford- able, essential drugs in developing countries	46. Proportion of population with access to affordable, essential drugs on a sustain- able basis
TARGET 18 :	In co-operation with the private sector, make available the benefits of new technologies, especially information and communications	 Telephone lines and cellular subscribers per 100 population Personal computers in use per 100 population and Internet users per 100 population Internet users per 100 population

THE MILLENNIUM DEVELOPMENT GOALS and targets come from the Millennium Declaration signed by 189 countries, including 147 Heads of State, in September 2000 (www.un.org/documents/ga/Res/55/A55r002.pdf - A/RES/55/2). The goals and targets are inter-related and should be seen as a whole. They represent a partnership between the developed countries and the developing countries determined, as the Declaration states, "to create an environment – at the national and global levels alike – which is conducive to development and the elimination of poverty."

- a For monitoring country poverty trends, indicators based on national poverty lines should be used, where available.
- b Amongst contraceptive methods, only condoms are effective in preventing HIV transmission. The contraceptive prevalence rate is also useful in tracking progress in other health, gender and poverty goals. Because the condom use rate is only measured amongst 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).
- c This indicator is defined as the percentage of population aged 15-24 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 following: a) Percentage of women and men 15-24 who know that a person can protect herself from HIV infection by "consistent use of condom". b) Percentage of women and men 15-24 who know a healthy-looking person can transmit HIV. Data for this year's report are only available on women.

- d Prevention to be measured by the percentage of children under 5 sleeping under insecticide-treated bednets; treatment to be measured by percentage of children under 5 who are appropriately treated.
- An improved measure of the target is under development by ILO for future years.

ABBREVIATIONS

CCA CFCS C.I.F. CWIQ DAC DHS DOTS	(UN) Common Country Assessment Chlorofluorocarbons Cost, insurance and freight Core Welfare Indicators Questionnaire Survey in Africa Development Assistance Committee Demographic and Health Survey Directly observed treatment, short course (World Health Organization detection and treatment strategy for tuberculosis)
DPT	Diphtheria, pertussis and tetanus vaccine
EPI	Expanded Programme on Immunization
FAO	Food and Agriculture Organization
F.O.B.	Free-on-board
GDP	Gross domestic product
GNI	Gross national income
GNP	Gross national product
HBS	Household Budget Survey
HIPC	Highly indebted poor country
ICES	Income Consumption and Expenditure Survey
IMF	International Monetary Fund
IPU	Inter-Parliamentary Union
ISCED 97	International Standard Classification of Education 1997 version
ISIC	International Standard Industrial Classification
ITU	International Telecommunication Union
LDC	Least developed countries
LFS	Labour Force Surveys
LSMS	Living Standards Measurement Study
MICS	Multiple Indicator Cluster Survey
ODA	Official development assistance
ODP	Ozone-depleting potential
OECD	Organisation for Economic Co-operation and Development
РС	Personal computer
РРР	Purchasing power parity
TCBDB	Trade Capacity Building Database
TRAINS	Trade Analysis and Information System
UN-HABITAT	United Nations Human Settlements Programme
UNDP	United Nations Development Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFPA	United Nations Population Fund
UNICEF	United Nation's Children's Fund
WHO	World Health Organization

1·A

PROPORTION OF POPULATION BELOW \$1 (PPP) PER DAY

DEFINITION

Proportion of population below \$1 per day is the percentage of the population living on less than \$1.08 a day at 1993 international prices. The \$1 a day poverty line is compared to consumption or income per person and includes consumption from own production and income in kind. Because this poverty line has fixed purchasing power across countries or areas, the \$1 a day poverty line is often called an "absolute poverty line".

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. **Target 1:** Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.

RATIONALE

The indicator allows for comparing and aggregating progress across countries in reducing the number of people living under extreme poverty and for monitoring trends at the global level.

METHOD OF COMPUTATION

The World Bank regularly estimates poverty based on the \$1 a day poverty line. Estimates are based on incomes or consumption levels derived from household surveys. Whenever possible, consumption is preferred to income for measuring poverty. When consumption data are not available, income is used.

Consumption, which includes consumption for own production, or income per person, and its distribution are estimated from household surveys. Household consumption or income is divided by the number of people in the household to establish the income per person.

The distribution of consumption or income is estimated using empirical Lorenz (distribution) curves weighted by household size. In all cases measures of poverty to obtain Lorenz curves are calculated from primary data sources rather than existing estimates.

Poverty in a country is estimated by converting the \$1 a day poverty line to local currency using the latest purchasing power parity (PPP) exchange rates for consumption taken from World Bank estimates. Local consumer price indices are then used to adjust the international poverty line in local currency to prices prevailing around the time of the surveys. This international poverty line is used to identify how many people are below the \$1 a day threshold.

The PPP-based international poverty line is required only to allow comparisons across countries and to produce estimates of poverty at the aggregate level. Most countries also set their own poverty lines (SEE INDICATOR 1B).

DATA COLLECTION AND SOURCE

The indicator is produced by the World Bank's Development Research Group based on data obtained from government statistical offices and World Bank country departments. It is not normally calculated by national agencies.

Data on household income, consumption and expenditure, including income in kind, are generally collected through household budget surveys or other surveys covering income and expenditure.

When available, household consumption data are preferred to income data. National statistical offices, sometimes in conjunction with other national or international agencies, usually undertake such surveys.

Only surveys that meet the following criteria are used: they are nationally representative, include a sufficiently comprehensive consumption or income aggregate (including consumption or income from own production), and allow for the construction of a correctly weighted distribution of consumption or income per person. The most recent estimates of PPP for developing countries are based on data collected between 1993 and 1996, standardized to 1993 international prices. Global price comparisons are carried out by the International Comparisons Program of the World Bank and others. New estimates of PPPs are expected in 2006.

PERIODICITY OF MEASUREMENT

Household budget or income surveys are undertaken at different intervals in different countries. In developing countries they typically take place every three to five years.

PPP surveys are conducted at infrequent intervals. The last price survey through the International Comparisons Program was completed in 1996, and the next will begin in 2003. It is, however, possible to extrapolate from PPP surveys, and the World Bank conversion factors are calculated in this way.

GENDER ISSUES

Households headed by women tend to have lower incomes and are therefore more likely to have incomes per person lower than \$1. However, this relationship should be carefully studied to take into account national circumstances and the definition of head of household adopted in data collection, which is not necessarily related to the chief source of economic support. Whether households are headed by women or men, gender relations affect intrahousehold resource allocation and use. It is not possible to estimate gender-disaggregated poverty rates from available data.

DISAGGREGATION ISSUES

It is sometimes possible to disaggregate this indicator by urban-rural location. It is not possible to disaggregate this indicator by gender.

COMMENTS AND LIMITATIONS

The \$1 a day poverty measure is used to assess and monitor poverty at the global level, but like other indicators it is not equally rele-

vant in all regions because countries have different definitions of poverty. Measurements of poverty in countries are generally based on national poverty lines.

PPP exchange rates are used because they take into account the local prices of goods and services that are not traded internationally. Although PPP rates were designed for comparing aggregates from national accounts, they may not fully reflect the comparative cost of goods typically consumed by the very poor.

There are also problems in comparing poverty measures within countries, especially for urban-rural differences. The cost of living is typically higher in urban than in rural areas, so the urban monetary poverty line should be higher than the rural monetary poverty line. But it is not always clear that the difference between the two poverty lines found in practice properly reflects the difference in the cost of living.

There is an unresolved issue about whether to use income or consumption as a welfare indicator. Income is generally more difficult to measure accurately, and consumption accords better with the idea of the standard of living than income, which can vary over time even if the standard of living does not. But consumption data are not always available, and when they are not there is little choice but to use income.

There is also a problem with comparability across surveys: household survey questionnaires can differ widely, and even similar surveys may not be strictly comparable because of difference in quality.

Even if surveys are entirely accurate, the measure of poverty can miss some important aspects of individual welfare. First, using household consumption ignores inequalities within households. Second, the measure does not reflect people's feeling about relative deprivation or their concerns about uninsured risk to their income and health.

Comparisons across countries at different levels of development may also pose a problem, because of differences in the relative importance of consumption of non-market goods.

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AGENCY

World Bank.

1.B POVERTY HEADCOUNT RATIO (% OF POPULATION BELOW THE NATIONAL POVERTY LINE)

DEFINITION

The poverty headcount ratio is the proportion of the national population whose incomes are below the official threshold (or thresholds) set by the national government. National poverty lines are usually set for households of various compositions to allow for different family sizes. Where there are no official poverty lines, they may be defined as the level of income required to have only sufficient food or food plus other necessities for survival.

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. **Target 1:** Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.

RATIONALE

The indicator allows for monitoring the proportion of the national population that is considered poor by a national standard. Most poverty analysis work for countries is based on national poverty lines. National poverty lines tend to increase in purchasing power with the average level of income of a country.

METHOD OF COMPUTATION

Household income (or consumption) and its distribution are estimated from household surveys (SEE INDICATOR 1A). The incomes of various household types, by composition, may then be compared with the poverty lines for those types of household. If the poverty lines are expressed in terms of income per adult equivalent or some similar measure, the incomes of the households must be measured on a similar basis. Household income may be converted to income per adult equivalent by using the modified equivalence scale of the Organisation for Economic Co-operation and Development (OECD)-in which the first household member over 16 equals 1, all others over 16 equal 0.5, all under 16 equal 0.3 —or

some other equivalence scale. Household incomes are then divided by the "equivalized" number of people in the household (two adults would equal 1.5 according to the OECD scale) to establish income per person.

Once the number of households that are below the poverty line has been estimated, the number of people in those households is aggregated to estimate the percentage of the population below the line.

DATA COLLECTION AND SOURCE

Data on household income, consumption and expenditure, including income in kind, are generally collected through household budget surveys or other surveys covering income and expenditure.

National statistical offices, sometimes in conjunction with other national or international agencies, usually undertake such surveys.

PERIODICITY OF MEASUREMENT

Household budget or income surveys are undertaken at different intervals in different countries. In developing countries they typically take place every three to five years.

GENDER ISSUES

Households headed by women tend to have lower incomes and are therefore more likely to have incomes per person below the poverty line. However, this relationship should be carefully studied to take into account national circumstances and the definition of head of household adopted in data collection, which is not necessarily related to being the chief source of economic support. Whether households are headed by women or men, gender relations affect intrahousehold resource allocations and use.

DISAGGREGATION ISSUES

Disaggregation of the poverty headcount index is normally limited by the size of the household survey. It is common, however, for indices to be produced for urban and rural areas and for some subnational levels as the sample allows. Estimates at low levels of disaggregation may be made using "poverty mapping" techniques, which use the lower levels of disaggregation available from population censuses, particularly where the timing of the population census and household survey is relatively close. Wherever household surveys provide income or consumption data disaggregated by gender of household heads, these data should be used.

COMMENTS AND LIMITATIONS

The advantage of this indicator is that it is specific to the country in which the data are collected and where the poverty line is established. While the \$1 a day poverty line helps in making international comparisons, national poverty lines are used to make more accurate estimates of poverty consistent with the characteristics and level of development of each country. The disadvantage is that there is no universally agreed poverty line, even in principle, and international comparisons are not feasible.

There are also problems in comparing poverty measures within countries, especially for urban and rural differences. The cost of living is typically higher in urban than in rural areas, so the urban monetary poverty line should be higher than the rural monetary poverty line. But it is not always clear that the difference between the two poverty lines found in practice properly reflects the difference in the cost of living.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Development Indicators, annual, World Bank, notes to table 2.6, www.world-BANK.ORG/DATA.
- Expert Group on Household Income Statistics: Final Report and Recommendations, 2001 (WWW.LISPROJECT.ORG/LINKS/CANBERRA/FINALRE-PORT.PDF).

- Poverty Reduction Strategy Sourcebook, "Poverty measurement and analysis", World Bank, (www.worldbank.org/ pover-TY/STRATEGIES/SOURCONS.HTM).
- Human Development Report, annual, United Nations Development Programme (www.UNDP.ORG).
- Engendering Statistics: A Tool for Change, 1996, Statistics Sweden.

AGENCIES

National statistical offices. World Bank.

2 POVERTY GAP RATIO (INCIDENCE X DEPTH OF POVERTY)

DEFINITION

Poverty gap ratio is the mean distance separating the population from the poverty line (with the non-poor being given a distance of zero), expressed as a percentage of the poverty line.

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. **Target 1:** Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.

RATIONALE

The indicator measures the "poverty deficit" of the entire population, where the poverty deficit is the per capita amount of resources that would be needed to bring all poor people above the poverty line through perfectly targeted cash transfers.

METHOD OF COMPUTATION

The poverty gap ratio is the sum of the income gap ratios for the population below the poverty line, divided by the total population, which can be expressed as follows:

$$PG = \frac{1}{n} \sum_{i=1}^{q} \left[\frac{z - y_i}{z} \right]$$

where z is the poverty line, yi is the income of individual i, q is the number of poor people and n is the size of the population. The poverty gap can also be expressed (and thus calculated) as the product of the average income gap ratio of poor people and the headcount ratio, that is,

where

$$PG = I * H$$

where

$$H = \frac{q}{n} \quad I = \frac{z - y_q}{z}$$

where

$$y_q = \frac{1}{q} \sum_{i=1}^{q} y_i$$

All these formulas are calculated based on data on individuals (\mathcal{Y}_i as individual income or consumption). If household-level data are used, the formulas have to be adjusted by the weight \mathcal{W}_i , which is the household size times sampling expansion factor for every household *i*.

DATA COLLECTION AND SOURCE

When based on the \$1 a day poverty line, this indicator is calculated by the World Bank. When based on national poverty lines, the indicator is commonly calculated by national agencies.

The data required are the same as those for indicator 1.

PERIODICITY OF MEASUREMENT

Household budget or income surveys are undertaken at different intervals in different countries. In developing countries, they typically take place every three to five years.

GENDER ISSUES

Households headed by women may be concentrated in the bottom fifth. However, this relationship should be carefully studied to take into account national circumstances and the definition of head of household adopted in data collection, which is not necessarily related to being the chief source of economic support. Whether households are headed by women or men, gender relations affect intrahousehold resource allocation and use.

COMMENTS AND LIMITATIONS

The comments under indicator 1a and 1b also apply here.

This measure can also be used for non-monetary indicators, provided that the measure of the distance is meaningful. For example, the poverty gap in education could be the number of years of education missing to reach the defined threshold.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- Poverty Reduction Strategy Sourcebook, "Poverty measurement and analysis", World Bank (www.worldbank.org/Poverty/ STRATEGIES/SOURCONS.HTM).
- How did the World's Poorest Fare in the 1990s? Working Paper No. 2409, 2002, Shaochua Chen and Martin Ravallion, World Bank, note to TABLE 3.

AGENCIES

National statistical offices. World Bank.

3 SHARE OF POOREST QUINTILE IN NATIONAL CONSUMPTION

DEFINITION

Share of the poorest quintile in national consumption is the income that accrues to the poorest fifth of the population.

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. **Target 1:** Halve, between 1990 and 2015, the proportion of people whose income is less than one dollar a day.

RATIONALE

The indicator provides information about the distribution of consumption or income of the poorest fifth of the population. Because the consumption of the poorest fifth is expressed as a percentage of total household consumption (or income), this indicator is a "relative inequality" measure. Therefore, while the absolute consumption of the poorest fifth may increase, its share of total consumption may remain the same (if the total goes up by the same proportion), decline (if the total goes up by a larger proportion) or increase (if the total goes up by a smaller proportion).

METHOD OF COMPUTATION

Household income and its distributions are estimated from household surveys. Household income is adjusted for household size to provide a more consistent measure of per capita income for consumption. Household income is divided by the number of people in the household to establish income per person. The population is then ranked by income. The income of the bottom fifth is expressed as a percentage of aggregate household income. The calculations are made in local currency, without adjustment for price changes or exchange rates or for spatial differences in cost of living within countries, because the data needed for such calculations are generally unavailable.

DATA COLLECTION AND SOURCE

For international purposes, this indicator is calculated by the World Bank, but it may also be calculated by national agencies. The World Bank Group's Development Research Group produces the indicator based on primary household survey data obtained from government statistical agencies and World Bank country departments.

Data on household income or consumption come from household surveys. Because underlying household surveys differ across countries in methods and type of data collected, the World Bank tries to produce comparable data for international comparisons and for analysis at the aggregated level (regional or global). Survey data provide either per capita income or consumption. Whenever possible, consumption data are used rather than income data. Where the original household survey data are not available, shares are estimated from the best available grouped data.

PERIODICITY OF MEASUREMENT

Household budget or income surveys are undertaken at different intervals in different countries. In developing countries, they typically take place every three to five years.

GENDER ISSUES

Households headed by women may be concentrated in the bottom fifth. However, this relationship should be carefully studied to take into account national circumstances and the definition of head of household adopted in data collection, which is not necessarily related to the chief source of economic support. Whether households are headed by women or men, gender relations affect intrahousehold resource allocation and use.

INTERNATIONAL DATA COMPARISONS

Because the underlying household surveys differ in method and type of data collected, the distribution indicators are not easily comparable across countries. These problems are diminishing as survey methods improve and become more standardized, but achieving strict comparability is still impossible (see "COMMENTS AND LIMITATIONS" for INDICATOR 1A).

COMMENTS AND LIMITATIONS

Two sources of non-comparability should be noted. First, the surveys can differ in many respects, including whether they use income or consumption as the indicator of living standards. The distribution of income is typically more unequal than the distribution of consumption. In addition, the definitions of income usually differ among surveys. Consumption is normally a better welfare indicator, particularly in developing countries (see "COMMENTS AND LIMITATIONS" for INDICATOR 1A).

Second, households differ in size (number of members), extent of income sharing among members, age of members and consumption needs. Differences among countries in these respects may bias comparisons of distribution.

The percentile chosen here is the bottom fifth (quintile). The proportionate share of national household income of this group may go up while the proportionate share of some other percentile, such as the bottom tenth (decile), may go down, and vice versa.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.un.org/esa/sustDev/ NATLINFO/INDICATORS/ISD.HTM).
- "What Can New Survey Data Tell Us about the Recent Change in Living Standards in Developing and Transitional Economies?" 1996, Martin Ravallion and Shaohua Chen, World Bank Policy Research Department.

AGENCIES

National statistical offices. World Bank.



DEFINITION

Prevalence of (moderately or severely) *underweight children* is the percentage of children under five years old whose weight for age is less than minus two standard deviations from the median for the international reference population ages 0–59 months. The international reference population was formulated by the National Center for Health Statistics as a reference for the United States and later adopted by the World Health Organization (WHO) for international use (often referred to as the NCHS/WHO reference population).

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. *Target 2:* Halve, between 1990 and 2015, the proportion of people who suffer from hunger.

RATIONALE

Child malnutrition, as reflected in body weight, is selected as an indicator for several reasons. Child malnutrition is linked to poverty, low levels of education, and poor access to health services. Malnourishment in children. even moderate, increases their risk of death, inhibits their cognitive development, and affects health status later in life. Sufficient and good quality nutrition is the cornerstone for development, health and survival of current and succeeding generations. Healthy nutrition is particularly important for women during pregnancy and lactation, so that their children set off on sound developmental paths, both physically and mentally. Only when optimal child growth is ensured for the majority of their people will governments be successful in their efforts to accelerate economic development in a sustained way.

The under-five underweight prevalence is an internationally recognized public health indicator for monitoring nutritional status and health in populations. Child malnutrition is also monitored more closely than adult malnutrition.

METHOD OF COMPUTATION

The weights of the under-five child population in a country are compared with the weights given in the NCHS/WHO table of child weights for each age group. The percentages of children in each age group whose weights are more than two standard deviations less than the median are then aggregated to form the total percentage of children under five who are underweight.

DATA COLLECTION AND SOURCE

At the national level, data are generally available from national household surveys, including Demographic and Health Surveys, Multiple Indicator Cluster Surveys and national nutrition surveys.

For international comparisons and global or regional monitoring, the United Nation's Children's Fund (UNICEF) and WHO compile international data series and estimate regional and global figures based on data from national surveys.

PERIODICITY OF MEASUREMENT

Household surveys are generally conducted every three to five years.

GENDER ISSUES

The data from national household surveys generally show no significant differences in underweight prevalence between boys and girls. However, these trends should continue to be monitored, particularly at the subnational level and within subgroups of the population.

DISAGGREGATION ISSUES

Indicators of malnutrition generally show differentials between rural and urban settings. In some countries, child nutrition may vary across geographical areas, socioeconomic groups or ethnic groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

The weight-for-age, indicator reflects body mass relative to chronological age and is influenced by both the height of the child (height for age) and weight-for-height. Its composite nature makes interpretation complex. For example, weight for age fails to distinguish between short children of adequate body weight and tall, thin children.

Low height for age or stunting, defined as minus two standard deviations from the median height for the age of the reference population, measures the cumulative deficient growth asociated with long-term factors, including chronic insufficient daily protein intake.

Low weight for height or wasting, defined as below minus two standard deviations from the median weight for height of the reference population, indicates in most cases a recent and severe process of weight loss, often associated with acute starvation or severe disease.

When possible, all three indicators should be analysed and presented since they measure and reflect different aspects of child malnutrition.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Health Report, annual, World Health Organization, Nutrition Unit (www.who.org).
- The State of the World's Children, annual, United Nations Children's Fund (www.UNICEF.ORG/PUBLICATIONS).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.UN.ORG/ESA/SUSTDEV/

NATLINFO/INDICATORS/ISD.HTM).

- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- The Growth Chart: A Tool for Use in Infant and Child Health Care, 1986, World Health Organization.
- ► *Global Database on Child Growth*, World Health Organization (www.who.org).
- United Nations Children's Fund, www.child-INFO.ORG AND www.UNICEF.ORG.

UNICEF and WHO produce international data sets based on survey data. In some countries, ages may have to be estimated.

AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization.

5 PROPORTION OF THE POPULATION BELOW MINIMUM LEVEL OF DIETARY ENERGY CONSUMPTION

DEFINITION

Proportion of the population below the minimum level of dietary energy consumption is the percentage of the population whose food intake falls below the minimum level of dietary energy requirements. This is also referred to as the prevalence of under-nourishment, which is the percentage of the population that is undernourished.

GOAL/TARGET ADDRESSED

Goal 1: Eradicate extreme poverty and hunger. *Target 2:* Halve, between 1990 and 2015, the proportion of people who suffer from hunger.

RATIONALE

The indicator measures an important aspect of the food insecurity of a population. Sustainable development demands a concerted effort to reduce poverty, including finding solutions to hunger and malnutrition. Alleviating hunger is a prerequisite for sustainable poverty reduction since under-nourishment seriously affects labour productivity and earning capacity. Malnutrition can be the outcome of a range of circumstances. In order to work, poverty reduction strategies must address food access, availability (physical and economical) and safety.

METHOD OF COMPUTATION

Estimation of the proportion of people with insufficient food (under-nourishment) involves specification of the distribution of dietary energy consumption, considering the total food availability (from national global statistics) and inequality in access to food (from national household surveys). The distribution is assumed to be unimodal and skewed. The log-normal function is used in estimating the proportion of the population below a minimum energy requirement level or cut-off point. The cut-off point is estimated as a population per capita average value, based on dietary energy needed by different age and gender groups and the proportion of the population represented by each age group.

The estimates are not normally available in countries. The Food and Agriculture Organization of the United Nations (FAO) prepares these estimates at the national level. These are then aggregated to obtain regional and global estimates.

DATA COLLECTION AND SOURCE

The main data sources are country statistics on local food production, trade, stocks and non-food uses; food consumption data from national household surveys; country anthropometric data by gender and age and UN country population estimates, in total and by gender and age.

PERIODICITY OF MEASUREMENT

Estimates for the most recent period and for selected benchmark periods (expressed as three-year averages) are reported every year. *GENDER ISSUES*

Intrahousehold access to food may show disparities by gender. Also, cultural patterns of distribution and nutritional taboos may affect women's nutrition. Women's higher requirements for iron during pregnancy and breastfeeding may result in iron deficiency anemia, which affects the result of pregnancy and may increase women's susceptibility to diseases. Although food consumption data do not allow for disaggregation by gender, whenever household survey data are available by gender, efforts should be made to conduct a gender-based analysis.

DISAGGREGATION ISSUES

In assessing food insecurity, it is important to consider geographical areas that may be particularly vulnerable (such as areas with a high probability of major variations in production or supply or areas subject to natural disasters) and the population groups whose access to food is precarious or sporadic (due to structural or economic vulnerability), such as ethnic or social groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

Considering the need for disaggregated estimates, the FAO methodology has been expanded for measuring the extent of food deprivation at subnational levels, making appropriate use of available household survey data. To support countries in preparing disaggregated estimates, FAO is conducting capacity building activities for national statistical offices.

COMMENTS AND LIMITATIONS

The methods and data used by FAO have implications for the precise meaning and significance of resulting estimates for assessment and policy-making. First, the estimates are based on food acquired by (or available to) the households rather than the actual food intake of individual household members. Second, any inequity in intrahousehold access to food is not taken into account. Third, changes in relative inequality of food distribution through the assessed periods are not considered. However, FAO is monitoring any evidence of significant changes over time that would require adjustment to the current estimation procedure.

Indicators should not be used in isolation. Monitoring of the hunger reduction target addresses two related problems: food deprivation and child malnutrition. Analysis of food deprivation is based on estimates of the prevalence of undernourishment in the whole population. Analysis of child malnutrition is based on estimates of underweight prevalence in the child population. This is an indicator of nutritional status of individual children (adequate weight for a given age), and the final outcome depends not only on food adequacy but also on other multiple factors such as infections, environmental conditions and care. Therefore, the combined use of both indicators would enhance the understanding of the changes in the food and nutrition situation.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- The State of Food Insecurity in the World, annual, Food and Agriculture Organization.
- Proceedings of the International Scientific Symposium on Measurement and Assessment of Food Deprivation and Undernutrition, 2002, "FAO Methodology for Estimating the Prevalence of Undernourishment", Food Insecurity and Vulnerability Information and Mapping Systems, Food and Agriculture Organization.
- Energy and Protein Requirements, Report of a Joint FAO/WHO/UNU Expert Consultation, 1985, World Health Organization Technical Report 724, World Health Organization.

AGENCY

Food and Agriculture Organization.

6 NET ENROLMENT RATIO IN PRI-MARY EDUCATION

DEFINITION

Net primary enrolment ratio is the ratio of the number of children of official school age (as defined by the national education system) who are enrolled in primary school to the total population of children of official school age. *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

GOAL/TARGET ADDRESSED

Goal 2: Achieve universal primary education. **Target3:** Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.

RATIONALE

The indicator is used to monitor progress toward the goal of achieving universal primary education, identified in both the Millennium Development Goals and Education for All initiatives. It shows the proportion of children of primary school age who are enrolled in primary school. Net enrolment refers only to children of official primary school age. (Gross enrolment includes children of any age.) Net enrolment rates below 100 percent provide a measure of the proportion of school age children who are not enrolled at the primary level. This difference does not necessarily indicate the percentage of students who are not enrolled, since some children might be enrolled at other levels of education.

METHOD OF COMPUTATION

The indicator is calculated as the number of enrolled students within the appropriate age cohort according to school records as reported to ministries of education, divided by the number of children of primary school age.

DATA COLLECTION AND SOURCE

Data on school enrolment are usually recorded by the country ministry of education or compiled from surveys and censuses. Data on the population in the official age group for the primary level are available from national statistical offices, based on population censuses and vital statistics registration. Nationally reported values will be the same as internationally reported values only if the same methods and population estimates are used.

For international comparisons and estimates of regional and global aggregates, the United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics regularly produces data series on school enrolment based on data reported by education ministries or national statistical offices and UN population estimates.

For countries for which administrative data are not available, household survey data may be used to assess school attendance rather than enrolment. Among international surveys, Multiple Indicator Cluster Survey and Demographic and Health Surveys (and sometimes Living Standards Measurement Surveys and the Core Welfare Indicators Questionnaire Surveys in Africa) provide school attendance data.

PERIODICITY OF MEASUREMENT

Enrolment data are recorded regularly by ministries of education and are available on a yearly basis. Data derived from surveys and censuses, when administrative records on enrolment by age and gender are not available, are less frequent. Net enrolment rates produced by UNESCO are available on an annual basis for two-thirds of countries, but usually one year after the reference year. The United Nations Population Division estimates population by individual years of age biannually, although estimates may be based on population censuses conducted every 10 years in most countries. Household survey data, such as those from Multiple Indicator Cluster Survey and Demographic and Health Surveys, are available for many developing countries at regular intervals of three to five years.

GENDER ISSUES

In situations of limited resources, families make difficult choices about sending their children to school. They may perceive the value of education differently for boys and girls. Girls are more likely than boys to suffer from limited access to education, especially in rural areas. But where basic education is widely accepted and overall enrolment is high, girls tend to equal or outnumber boys at primary and secondary levels.

DISAGGREGATION ISSUES

Rural and urban differences are particularly important in the analysis of enrolment data, because of significant differences in school facilities, available resources, demand on children's time for work and drop-out patterns. It is also important to consider disaggregation by geographical areas and social or ethnic groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

School enrolments may be over-reported for various reasons. Survey data may not reflect actual rates of attendance or dropout during the school year. Administrators may report exaggerated enrolments, especially if there is a financial incentive to do so. Children who repeat years may mistakenly be included in the net figures. Children's ages may be inaccurately estimated or misstated. Census data maybe out of date or unreliable. There may also be insufficient data on school enrolment by gender, but existing measurement problems make it difficult to correctly assess the situation. The indicator attempts to capture the education system's coverage and efficiency, but it does not solve the problem completely. Some children fall outside the official school age because of late or early entry rather than because of grade repetition.

Enrolment data compiled by UNESCO are adjusted to be consistent with ISCED97 and are therefore comparable across countries. National data derived from administrative records are not necessarily based on the same classification over time and may not be comparable with data for other countries, unless exactly the same classification is used. Similarly, the concepts and terms in household surveys and censuses do not necessarily remain constant over time.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Monitoring Progress towards the Goals of the World Summit for Children: End-Decade Multiple Indicator Survey Manual, United Nations Children's Fund (www.UNICEF.ORG/ RESEVAL/METHODR.HTML).
- The State of the World's Children, annual, United Nations Children's Fund (www.UNICEF. ORG/PUBLICATIONS).
- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
- Human Development Report, annual, United Nations Development Programme (www.UNDP.ORG).
- Gender Checklist: Gender Issues in Basic and Primary Education, Asian Development Bank (www.Adb.org).
- Recommendations concerning the International Standardization of Statistics on Science and Technology, 1984, United Nations Educational, Scientific and Cultural Organization, ST-84/WS/12. Also contained in UNESCO Statistical Yearbook, annual, chap.5.
- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67,

Rev.1 (United Nations publication, Sales No.E.98.XVII.1, para. 2.156.

- Revised Recommendations concerning the International Standardization of Educational Statistics, 1978, United Nations Educational, Scientific and Cultural Organization. Also contained in UNESCO Statistical Yearbook, annual, chap.2.
- International Standard Classification of Education 1997 (ISCED), 1997, United Nations Educational, Scientific and Cultural Organization.

UNESCO data since 1998 follow the 1997 version of the International Standard Classification of Education (ISCED97), which enables international comparability between countries. The time series data before 1998 are not consistent with data for 1998 and after.

AGENCIES

Ministries of education.

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

7:A PROPORTION OF PUPILS STARTING GRADE 1 WHO REACH GRADE 5

DEFINITION

The proportion of pupils starting grade 1 who reach grade 5, known as the survival rate to grade 5, is the percentage of a cohort of pupils enrolled in grade 1 of the primary level of education in a given school year who are expected to reach grade 5.

GOAL/TARGET ADDRESSED

Goal 2: Achieve universal primary education. **Target 3:** Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.

RATIONALE

The indicator measures an education system's success in retaining students from one grade to the next as well as its internal efficiency. Various factors account for poor performance on this indicator, 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.

METHOD OF COMPUTATION

The indicator is typically estimated from data on enrolment and repetition by grade for two consecutive years, in a procedure called the reconstructed cohort method. This method makes three assumptions: drop-outs never return to school; promotion, repetition and drop-out 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.

The calculation is made by dividing the total number of pupils belonging to a school cohort who reach each successive grade of the specified level of education by the number of pupils in the school cohort (in this case students originally enrolled in grade 1 of primary education) and multiplying the result by 100. A description of the method is given at HTTP://WWW.UIS. UNESCO.ORG.

When estimated from household survey data the proportion is estimated as the product of the proportions of transition for each grade up to grade 5. The estimation follows the method of the United Nations Educational, Scientific and Cultural Organization (UNESCO). A description of the method is given at HTTP://WWW.CHILDINFO.ORG.

DATA COLLECTION AND SOURCE

The indicator proposed by the UNESCO Institute for Statistics is based on grade-specific enrolment data for two successive years for a country and on grade repeater data. Household survey data are obtained from Multiple Indicator Cluster Surveys and Demographic and Health Surveys in a standard way and include information on current and last year school grade and level of attendance.

PERIODICITY OF MEASUREMENT

Where the data are available, they are published annually about two years after the reference year. Household surveys, such as Multiple Indicator Cluster Surveys and Demographic and Health Surveys, are generally conducted every three to five years.

GENDER ISSUES

Frequency and drop-out patterns vary between girls and boys. Reasons for leaving school also differ for girls and boys, and by age. Families' demand on children's time to help in household-based work is an important factor and is often greater for girls. Also important for girls are security and proximity of school facilities and the availability of adequate sanitation and other services in schools.

DISAGGREGATION ISSUES

Rural and urban differences are particularly important in the analysis of education data, because of significant differences in school facilities, available resources, demand on children's time for work and drop-out patterns. It is also important to consider disaggregation by geographical area and social or ethnic groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

The method of computation has limits in measuring the degree to which school entrants survive through primary education because flows caused by new entrants, reentrants, grade skipping, migration or transfers during the school year are not considered. Wherever possible, the indicator should be complemented by grade 1 intake rate, because together the indicators give a much better sense of the proportion of children in the population who complete primary education.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Education Indicators (CD-ROM), United Nations Educational, Scientific and Cultural Organization.
- Education for All: Year 2000 Assessment, "Technical Guidelines", 1998, United Nations Educational, Scientific and Cultural Organization (www.UNESCOBKK.ORG/INFORES/EFA 2000/TECH2.HTM).
- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- Monitoring Progress towards the Goals of the World Summit for Children: End-Decade Multiple Indicator Survey Manual, United Nations Children's Fund (www.UNICEF. ORG/RESE-VAL/METHODR.HTML).
- The State of the World's Children, annual, United Nations Children's Fund (www.UNICEF .ORG/PUBLICATIONS).
- Human Development Report, annual, United Nations Development Programme (www.undp.org).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.un.org/ESA/SUSTDEV/ NATLINFO/INDICATORS/ISD.HTM).
- Recommendations concerning the International Standardization of Statistics on Science and Technology, 1984, United Nations Educational, Scientific and Cultural Organization, ST-84/WS/12. Also contained in UNESCO Statistical Yearbook, annual, chap.5.
- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1, para. 2.156.
- Revised Recommendations concerning the International Standardization of Educational

Statistics, 1978, United Nations Educational, Scientific and Cultural Organization. Also contained in UNESCO Statistical Yearbook, annual, chap.2.

 International Standard Classification of Education 1997 (ISCED), 1997, United Nations Educational, Scientific and Cultural Organization.

Comparable survival rates are produced by UNESCO for about 40 percent of countries based on data from national administrative records. The number of countries reporting data for this indicator has increased over time in part because of recent inclusion of estimates obtained from household surveys such as Multiple Indicator Cluster Surveys and Demographic and Health Surveys.

AGENCIES

Ministries of education.

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



DEFINITION

Primary completion rate is the ratio of the total number of students successfully completing (or graduating from) the last year of primary school in a given year to the total number of children of official graduation age in the population.

GOAL/TARGET ADDRESSED

Goal 2: Achieve universal primary education. **Target 3:** Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.

RATIONALE

The indicator, which monitors education system coverage and student progression, is intended to measure human capital formation and school system quality and efficiency. The indicator focuses on the share of children who ever complete the cycle; it is not a measure of "on-time" primary completion. Various factors may lead to poor performance on this indicator, 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.

METHOD OF COMPUTATION

The numerator may include overage children who have repeated one or more grades of primary school but are now graduating successfully. For countries where the number of primary graduates is not reported, a proxy primary completion rate is calculated as the ratio of the total number of students in the final year of primary school, minus the number of students who repeat the grade in a typical year, to the total number of children of official graduation age in the population.

DATA COLLECTION AND SOURCE

The indicator is compiled by staff in the Education Group of the World Bank's Human Development Network based on two basic data sources used to compute gross and net enrolment ratios: enrolment data from national ministries of education and population data from the United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics. The World Bank and the Institute for Statistics are committed to monitoring this indicator annually in the future.

PERIODICITY OF MEASUREMENT

Annual.

GENDER ISSUES

More understanding is needed on the patterns of completion by gender.

DISAGGREGATION ISSUES

Rural and urban differences are particularly important in the analysis of education data

because of significant differences in school facilities, available resources, demand on children's time for work and drop-out patterns. It is also important to consider disaggregation by geographical area and social or ethnic groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

The indicator reflects the primary school cycle as nationally defined according to the International Standard Classification of Education, as is the case for gross and net enrolment ratios.

While the World Bank and UNESCO's Institute for Statistics are committed to monitoring this indicator annually, systems for collecting and standardizing the data from 155 developing countries are not yet in place. As a result, the current database has many gaps, particularly for small countries, earlier years and gender breakdowns, and obvious anomalies and estimates that are suspect. The current database is a mixture of enrolment data and data based on different systems of graduation (exams, diplomas, automatic promotion), limiting international comparability.

The indicator captures the final output of the primary education system, and so responses to policy changes will register only with time.

The age-specific estimates are less reliable than overall population estimates, and this is particularly an issue in countries with relatively rapid changes in population and its age and gender distribution from such causes as internal and international migration, civil unrest and displacement. When age-specific population breakdowns are not available, the primary completion rate cannot be estimated. Primary completion rates based on primary enrolment have an upward bias, since they do not capture drop-out during the final grade. This implies that once the data on actual graduates become available for a country, the completion rate of the country would appear to decline.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

World Bank, WWW.DEVELOPMENTGOALS.ORG/EDU-CATION. International Standard Classification of Education 1997 (ISCED), 1997, United Nations Educational, Scientific and Cultural Organization.

AGENCIES

Ministries of education.

United Nations Educational, Scientific and Cultural Organization, Institute for Statistics. World Bank.



DEFINITION

Literacy rate of 15–24 year-olds, or the youth literacy rate, is the percentage of the population ages 15–24 years-old who can both read and write with understanding a short simple statement on everyday life. The definition of literacy sometimes extends to basic arithmetic and other life skills.

GOAL/TARGET ADDRESSED

Goal 2: Achieve universal primary education. **Target 3:** Ensure that, by 2015, children everywhere, boys and girls alike, will be able to complete a full course of primary schooling.

RATIONALE

The youth literacy rate reflects the outcomes of primary education over the previous 10 years or so. As a measure of the effectiveness of the primary education system, it is often seen as a proxy measure of social progress and economic achievement. The literacy rate for this analysis is simply the complement of the illiteracy rate. It is not a measure of the quality and adequacy of the literacy level needed for individuals to function in a society. Reasons for failing to achieve the literacy standard may include low quality of schooling, difficulties in attending school or dropping out before reaching grade 5.

METHOD OF COMPUTATION

The usual method of computation is to divide the number of people ages 15–24 who are literate by the total population in the same age group and to multiply the total by 100. Since literacy data are not always available for all countries and all censuses, the United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics uses modeling techniques to produce annual estimates based on literacy information obtained from national censuses and surveys.

DATA COLLECTION AND SOURCE

Literacy data may be derived from population censuses, household surveys and literacy surveys, and total population is derived from national censuses or sample surveys. However, not all censuses or surveys include specific questions for assessing literacy. In some countries where literacy questions are not included, a person's educational attainment (years of schooling completed) is used to assess literacy status. A common practice is to consider those with no schooling as illiterate and those who have attended grade 5 of primary school as literate.

Many household surveys, including the Multiple Indicator Cluster Surveys, Demographic and Health Surveys, Core Welfare Indicators Questionnaire Surveys in Africa and Living Standards Measurement Studies, collect literacy data, which can provide complementary data for countries without a recent census. However, definitions are not necessarily standardized (see "COMMENTS AND LIMITATIONS"). Most of the available data on literacy are based on reported literacy rather than on tested literacy and in some cases are derived from other proxy information.

PERIODICITY OF MEASUREMENT

Youth literacy rates may change more quickly than adult literacy rates and therefore need to be measured more often. Since population censuses normally occur only every 10 years, input from more frequently administered labour force and household surveys are used for annual estimates. Data are available for consecutive five-year age cohorts starting at 15–19 years old. Household surveys are generally conducted every three to five years in most developing countries.

GENDER ISSUES

Higher illiteracy rates for women are the result of lower school enrolment and early dropouts. Moreover, because women generally have less access to information and training and literacy programmes, estimates based on enrolments may overestimate literacy for girls.

DISAGGREGATION ISSUES

Rural and urban differences are particularly important in the analysis of education data because of significant differences in school facilities, available resources, demand on children's time for work and drop-out patterns. It is also important to consider disaggregation by geographical area and social or ethnic groups. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

Measurements of literacy can vary from simply asking "Are you literate or not?" to testing to assess literacy skills. In some cases, literacy is measured crudely in population censuses, either through self-declaration or by assuming that people with no schooling are illiterate. This causes difficulty for international comparisons. Comparability over time, even for the same survey, may also be a problem because definitions of literacy used in the surveys are not standardized. The latest UN Principles and Recommendations for Population and Housing Censuses advises countries against adopting a proxy measurement based on educational attainment. It recommends that literacy questions be administered as part of national censuses and household surveys, or as part of a post-census sample enumeration.

Shortcomings in the definition of literacy, measurement problems and infrequency of censuses and literacy surveys weaken this indicator as a means of monitoring education outcomes related to the goal of achieving universal primary education.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- United Nations Educational, Scientific and Cultural Organization, Institute for Statistics, www.UIS.UNESCO.ORG.
- The State of the World's Children, annual, United Nations Children's Fund (www.unicef. ORG/PUBLICATIONS).
- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- Human Development Report, annual, United Nations Development Program (www.UNDP.ORG).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.un.org/ESA/SUSTDEV/ NATLINFO/INDICATORS/ISD.HTM).
- Education for All: Year 2000 Assessment, "Technical Guidelines", 1998, United Nations Educational, Scientific and Cultural Organization (www.UNESCOBKK.ORG/INFORES/ EFA2000/TECH2.HTM).
- Revised Recommendations concerning the International Standardization of Educational Statistics, 1978, United Nations Educational, Scientific and Cultural Organization. Also

contained in UNESCO Statistical Yearbook, annual, chap.2.

Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1

The main international source of data is UNESCO's international data series of annual and projected estimates based on information from national population censuses and labour force, household and other surveys. The estimates are available for some 130 countries.

AGENCIES

Ministries of education.

National statistical offices.

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

9 RATIO OF GIRLS TO BOYS IN PRI-MARY, SECONDARY AND TERTIARY EDUCATION

DEFINITION

Ratio of girls to boys in primary, secondary and tertiary education is the ratio of the number of female students enrolled at primary, secondary and tertiary levels in public and private schools to the number of male students.

GOAL/TARGET ADDRESSED

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.

RATIONALE

The indicator of equality of educational opportunity, measured in terms of school enrolment, is a measure of both fairness and efficiency. Education is one of the most important aspects of human development. Eliminating gender disparity at all levels of education would help to increase the status and capabilities of women. Female education is also an important determinant of economic development.

METHOD OF COMPUTATION

The indicator is a ratio of the number of enrolled girls to enrolled boys, regardless of ages.

DATA COLLECTION AND SOURCE

Data on school enrolment are usually recorded by the ministry of education or derived from surveys and censuses. If administrative data are not available, household survey data may be used, although household surveys usually measure self-reported attendance rather than enrolment as reported by schools. Among international surveys, Multiple Indicator Cluster Surveys and Demographic and Health Surveys (and sometimes also Living Standards Measurement Studies and Core Welfare Indicators Questionnaire Surveys in Africa) provide school attendance data.

For international comparison and estimation of regional and global aggregates, the United Nations Educational, Scientific and Cultural Organization (UNESCO) Institute for Statistics data series on school enrolment can be used. The series is based on data reported by education ministries or national agencies for enrolment.

UNESCO produces ratios of girls to boys at country, regional and global levels for use in monitoring the Millennium Development Goals. They are available at the Millennium Indicators Web site (MILLENNIUMINDICATORS.ORG).

PERIODICITY OF MEASUREMENT

Where official enrolment data are available, estimates from UNESCO are normally available annually about one year after the reference year. Data from household surveys may be available for selected countries at various intervals. Official data on higher education are not as frequently reported as data on primary and secondary enrolment.

GENDER ISSUES

In situations of limited resources, families make difficult choices about sending their children to school. They may perceive the value of education differently for boys and girls. Girls are more likely than boys to suffer from limited access to education, especially in rural areas. But where basic education is widely accepted and overall enrolment is high, girls tend to equal or outnumber boys at primary and secondary levels. The pattern is similar in higher education, but with larger differences between the two genders.

COMMENTS AND LIMITATIONS

Some 50 countries have no system of higher education. Private education tends to be under-reported, but international coverage has improved over the last four cycles of the UNESCO Institute for Statistics survey. Household survey data may include higher and private education, but may not be comparable between surveys.

The indicator is an imperfect measure of the accessibility of schooling for girls because it does not allow a determination of whether improvements in the ratio reflect increases in girls' school attendance (desirable) or decreases in boys' attendance (undesirable). It also does not show whether those enrolled in school complete the relevant education cycles.

Another limitation of the indicator is that the ratio reflects the gender structure of the school-age population. When the gender ratio in the school age population deviates significantly from 1, the indicator will not adequately reflect the actual differences between girls' and boys' enrolment. This happens in countries where boys outnumber girls at younger ages.

A ratio based on net enrolment (indicator 6) or gross enrolment is a better measure for this indicator as it takes into account the population structure of the country.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Education Indicators (CD-ROM), United Nations Educational, Scientific and Cultural Organization.
- Education for All: Year 2000 Assessment, "Technical Guidelines", 1998, United Nations Educational, Scientific and Cultural Organization. (WWW.UNESCOBKK.ORG/INFORES/ EFA2000/TECH2.HTM).
- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
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- The State of the World's Children, annual, United Nations Children's Fund (www.unicef. ORG/PUBLICATIONS).
- Human Development Report, annual, United Nations Development Programme (www.UNDP.ORG).
- Revised Recommendations concerning the International Standardization of Educational Statistics, 1978, United Nations Educational, Scientific and Cultural Organization. Also contained in UNESCO Statistical Yearbook, annual, chap.2.
- International Standard Classification of Education 1997 (ISCED), 1997, United Nations Educational, Scientific and Cultural Organization.

AGENCIES

Ministries of education.

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

10 RATIO OF LITERATE WOMEN TO MEN 15-24 YEAR OLDS

DEFINITION

The ratio of literate women to men 15–24 *years old* (Literacy Gender Parity Index) is the ratio of the female literacy rate to the male literacy rate for the age group 15–24.

GOAL/TARGET ADDRESSED

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.

RATIONALE

The indicator measures progress towards gender equity in literacy and learning opportunities for women in relation to those for men. It also measures a presumed outcome of attending school and a key indicator of empowerment of women in society. Literacy is a fundamental skill to empower women to take control of their lives, to engage directly with authority and to gain access to the wider world of learning.

METHOD OF COMPUTATION

The indicator is derived by dividing the literacy rate of women ages 15–24 by the literacy rate of men ages 15–24.

DATA COLLECTION AND SOURCE

Literacy data may be derived from population censuses, household surveys and literacy surveys. However, not all censuses or surveys include specific questions for assessing literacy. In some countries where literacy questions are not included, a person's educational attainment (years of schooling completed) is used to assess literacy status. A common practice is to consider those with no schooling as illiterate and defining those who have attended grade 5 of primary school as literate. Many household surveys, including the Multiple Indicator Cluster Surveys, Demographic and Health Surveys, Core Welfare Indicators Questionnaire Surveys in Africa and Living Standards Measurement Surveys, collect literacy data, which can provide complementary data for countries without a recent census. However, definitions are not necessarily standardized (see "COMMENTS AND LIMITATIONS").

PERIODICITY OF MEASUREMENT

Since population censuses normally occur every 10 years, input from more frequently administered labour force, household and other surveys are used for annual estimates. Household surveys are generally conducted every three to five years in most developing countries.

GENDER ISSUES

Higher illiteracy rates for women are the result of lower school enrolment and early drop-outs. Moreover, because women generally have less access to information, training and literacy programmes, estimates based on enrolments may overestimate literacy for girls.

COMMENTS AND LIMITATIONS

Measurements of literacy can vary from simply asking "Are you literate or not?" to testing to assess literacy skills. In some cases, literacy is measured crudely in population censuses, either through self-declaration or by assuming that people with no schooling are illiterate. This causes difficulty for international comparisons. Comparability over time, even for the same survey, may also be a problem because definitions of literacy used in the surveys are not standardized. The latest UN Principles and Recommendations for Population and Housing Censuses advises countries against adopting a proxy measurement based on educational attainment. It recommends that literacy questions be administered as part of national censuses and household surveys or as part of a post-census sample enumeration.

Shortcomings in the definition of literacy, measurement problems and infrequency of censuses and literacy surveys weaken this indicator as a means of monitoring education outcomes related to the goal of achieving universal primary education.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- United Nations Educational, Scientific and Cultural Organization Institute for Statistics WWW.UIS.UNESCO.ORG.
- The State of the World's Children, annual, United Nations Children's Fund (www.unicef. ORG/PUBLICATIONS).
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- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1).

The main source of international data is the United Nations Educational, Scientific and Cultural Organization's international data series of annual and projected estimates based on information from national population censuses and labour force, household and other surveys. These estimates are available for some 130 countries.

AGENCIES

Ministries of education. National statistical offices. United Nations Educational, Scientific and Cultural Organization, Institute for Statistics.

11 SHARE OF WOMEN IN WAGE EMPLOY-MENT IN THE NON-AGRICULTURAL SECTOR

DEFINITION

Share of women in wage employment in the non-agricultural sector is the share of female workers in the non-agricultural sector expressed as a percentage of total employment in the sector.

The *non-agricultural sector* includes industry and services. Following the International Standard Industrial Classification (ISIC) of All Economic Activities, *industry* includes mining and quarrying (including oil production), manufacturing, construction, electricity, gas, and water. *Services* includes wholesale and retail trade; restaurants and hotels; transport, storage and communications; financing, insurance, real estate and business services; and community, social and personal services.

Employment refers to people above a certain age who worked, or held a job, during a reference period. Employment data include both full-time and part-time workers whose remuneration is determined on the basis of hours worked or number of items produced and is independent of profits or expectation of profits.

GOAL/TARGET ADDRESSED

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.

RATIONALE

The indicator measures the degree to which labour markets are open to women in industry and service sectors, which not only affects equal employment opportunity for women but also economic efficiency through flexibility of the labour market and therefore the economy's ability to adapt to change.

A significant global increase over the last decade in women's share in paid employment in the non-agricultural sector indicates that working women have become more integrated into the monetary economy through participation in the formal and informal sectors. However, labour markets remain strongly segregated. In many countries, productive work under conditions of freedom, equity and human dignity is in short supply, and this disproportionately affects women. Women are much more likely than men to work as contributing family workers, without their own pay, and in the informal sector, although there are large differentials between countries and at regional and national levels, often mirroring the relative importance of agriculture.

METHOD OF COMPUTATION

The total number of women in paid employment in the non-agricultural sector is divided by the total number of people in paid employment in that same sector.

DATA COLLECTION AND SOURCES:

Data are obtained from population censuses, labour force surveys, enterprise censuses and surveys, administrative records of social insurance schemes, and official estimates based on results from several of these sources. Enterprise surveys and administrative records are likely to cover only large private and public sector employers, in particular in developing countries. The other sources may cover the whole relevant population.

PERIODICITY OF MEASUREMENT:

Results from population censuses are normally

available every 10 years, while estimates based on other sources may be available annually or less frequently in some developing countries.

GENDER ISSUES

There are large differences between women and men in non-agricultural employment, in particular in developing countries. This is the result of differences between rates of participation in employment for women and men as well as the kind of employment in which they participate. In many regions, women are more likely than men to be engaged in informal sector activities and subsistence or unpaid work in the household.

Wage employment in most of Africa and much of Asia and the Pacific is a middle-class, urban phenomenon. Outside of urban areas, most employment is agricultural, often for family subsistence. However, where non-agricultural employment is available, it is more likely to go to male members of the household.

As economies develop, the share of women in non-agricultural wage employment becomes increasingly important. A higher share in paid employment could secure for them better income, economic security and well-being. However, this shift is not automatic, nor does it account for differentials in working conditions between men and women. Other variables need to be considered, such as level of education, level of remuneration and wage differentials and the extent to which women and men benefit from labour legislation and social programs. Men more often hold regular and better remunerated jobs, whereas women are frequently in peripheral, insecure, less valued jobs, as home workers, casual workers or part-time or temporary workers.

COMMENTS AND LIMITATIONS

Although there are clear international standards for the relevant concepts, countries may use different definitions for employment status, especially for part-time workers, students, members of the armed forces and household or contributing family workers. Also, different sources of data may use different definitions and have different coverage, with limited comparability across countries and over time within the same country. The employment share of the agricultural sector is severely under-reported. Also, studies have shown that employment activity questions on standard censuses tend to grossly underestimate the extent of female employment of any kind.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- International Labour Organization, Bureau of Statistics, www.ilo.org/stat.
- Yearbook of Labour Statistics, annual, International Labour Organization (LABORS-TA.ILO.ORG).
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- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
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- Comprehensive Statistical Data on Operational Activities for Development,

biennial, Report of the Secretary-General to the General Assembly, (United Nations document).

 Current International Recommendations on Labour Statistics, 2000 Edition, 2000, International Labour Organization.

International data are compiled by the International Labour Organization based on data reported by countries. An increasing number of countries report economic activity according to the ISIC.

AGENCIES

Ministries of labour. National statistical offices. International Labour Organization.



DEFINITION

The proportion of seats held by women in *national parliaments* is the number of seats held by women expressed as a percentage of all occupied seats.

GOAL/TARGET ADDRESSED

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.

RATIONALE

Women's representation in parliaments is one aspect of women's opportunities in political and public life, and it is therefore linked to women's empowerment.

METHOD OF COMPUTATION

The indicator is obtained by dividing the number of parliamentary seats occupied by women by the total number of seats occupied. National parliaments consist of one or two chambers. For international comparisons, generally only the single or lower house is considered in calculating the indicator.

DATA COLLECTION AND SOURCE

At the national level, the data come from the records of national parliaments. National parliaments also report the total number of parliamentary seats and the number occupied by women and men to the Inter-Parliamentary Union (IPU), which regularly compiles international data series and global and regional aggregates.

PERIODICITY OF MEASUREMENT

The data are commonly available from national parliaments and updated after an election. National parliaments also transmit their data to the IPU at least once a year and when the numbers change significantly, such as after an election.

GENDER ISSUES

Women are under-represented in all decisionmaking bodies and within political parties, particularly at the higher echelons. Women still face many practical obstacles to the full exercise of their role in political life.

COMMENTS AND LIMITATIONS

Parliaments vary considerably in their independence and authority, though they generally engage in law making, oversight of government and representation of the electorate. In terms of measuring women's real political decision-making, this indicator may not be sufficient, because women still face many obstacles in fully and efficiently carrying out their parliamentary mandate. Thus, being a member of parliament, especially in developing countries and emerging democracies, does not guarantee that a woman has the resources, respect or constituency to exercise significant influence.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Inter-Parliamentary Union, www.IPU.ORG/ WMN-E/WORLD.HTM.
- Progress of the World's Women, 2000, United Nations Development Fund for Women (www.UNIFEM.UNDP.ORG/PROGRESSww/2000).
- Human Development Report, annual, United Nations Development Programme (www.UNDP.ORG/HDR).
- World Development Indicators, annual, World Bank, (www.worLDBANK.org/DATA).

The IPU regularly compiles international data series and global and regional aggregates.

AGENCIES

National parliaments. Inter-Parliamentary Union.



UNDER-FIVE MORTALITY RATE

DEFINITION

The under-five mortality rate is the probability (expressed as a rate per 1,000 live births) of a child born in a specified year dying before reaching the age of five if subject to current age-specific mortality rates.

GOAL/TARGET ADDRESSED

Goal 4: Reduce child mortality. *Target 5:* Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate.

RATIONALE

The indicator, which relates directly to the target, measures child survival. It also reflects the social, economic and environmental conditions in which children (and others in society) live, including their health care. Because data on the incidences and prevalence of diseases (morbidity data) frequently are unavailable, mortality rates are often used to identify vulnerable populations. The under-five mortality

rate captures more than 90 percent of global mortality among children under the age of 18.

METHOD OF COMPUTATION

Age-specific mortality rates are calculated from data on births and deaths in vital statistics registries, censuses and household surveys in developing countries. Estimates based on household surveys data are obtained directly (using birth history, as in Demographic and Health Surveys) or indirectly (Brass method, as in Multiple Indicator Cluster Surveys). The data are then summed for children under five, and the results are expressed as a rate per 1,000 live births.

DATA COLLECTION AND SOURCE

At the national level, the best source of data is a complete vital statistics registration system—one covering at least 90 percent of vital events in the population. Such systems are uncommon in developing countries, so estimates are also obtained from sample surveys or derived by applying direct and indirect estimation techniques to registration, census or survey data. A wide variety of household surveys, including Multiple Indicator Cluster Surveys and Demographic and Health Surveys, are used in developing countries.

Several international agencies produce country estimates based on available national data for purposes of international comparisons and assessment of global and regional trends (see "International data comparison").

PERIODICITY OF MEASUREMENT

Vital statistics are typically available once a year, but they are unreliable in most developing countries. Household surveys that include questions on births and deaths are generally conducted every three to five years.

GENDER ISSUES

Under-five mortality rates are higher for boys than for girls in countries without significant parental gender preferences. Under-five mortality better captures the effect of gender discrimination than infant mortality, as nutrition and medical interventions are more important in this age group, while biological differences have a higher impact during the first year of life (see also indicator 14, infant mortality rate). There may be gender-based biases in the reporting of child deaths.

DISAGGREGATION ISSUES

Under-five mortality generally shows large disparities across geographical areas and between rural and urban areas. Under-five mortality may also vary across socioeconomic groups. Children in some ethnic groups might also be at higher risk of malnutrition, poorer health and higher mortality. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

Data on under-five mortality is more complete and more timely than data on adult mortality. The under-five mortality rate is considered to be a more robust estimate than infant mortality rate if the information is drawn from household surveys.

In developing countries household surveys are essential to the calculation of this indicator, but there are some limits to their quality. Survey data are subject to recall error, and surveys estimating under five deaths require large samples, because such incidences are uncommon and representative households cannot ordinarily be identified the sampling. Moreover, the frequency of the survey is generally only every three to five years. Therefore, when using household surveys it is important to take sampling errors into account. Also, indirect estimates rely on estimated actuarial ("life") tables that may be inappropriate for the population concerned. There are also gender-based biases in the reporting of child deaths.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- The State of the World's Children, annual, United Nations Children's Fund (www.UNICEF. ORG/PUBLICATIONS).
- Monitoring Progress towards the Goals of the World Summit for Children: End-Decade Multiple Indicator Survey Manual, United Nations Children's Fund (www.UNICEF.ORG/ RESEVAL/METHODR.HTML).
- World Health Organization, www3.who.INT/whosis.
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- World Population Prospects: The 1998 Revision, Vol.III, Analytical Report, 1999, United Nations.
- World Population Prospects, biennial, United Nations, ST/ESA/Series A, (United Nations sales publication).

Mortality rates are among the most frequently used indicators to compare levels of socioeconomic development across countries. The United Nations Population Division, the United Nations Children's Fund and the World Health Organization regularly produce estimates of under-five mortality based on available national data. These data series may differ, however, because of differences in methodologies used to estimate data and differences in reporting periods.

AGENCIES

Ministries of health. National statistical offices. United Nations Children's Fund. World Health Organization.



DEFINITION

The *infant mortality rate* is typically defined as the number of infants dying before reaching the age of one year per 1,000 live births in a given year.

GOAL/TARGET ADDRESSED

Goal 4: Reduce child mortality. *Target 5:* Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate.

RATIONALE

Although the target relates specifically to under-five mortality, infant mortality is relevant to the monitoring of the target since it represents an important component of under-five mortality.

Infant mortality rates measure child survival. They also reflect the social, economic and environmental conditions in which children (and others in society) live, including their health care. Because data on the incidence and prevalence of diseases (morbidity data) frequently are unavailable, mortality rates are often used to identify vulnerable populations.

METHOD OF COMPUTATION

The indicator is the number of deaths of infants under one year of age in the indicated year per 1,000 live births in the same year.

For data from vital statistics registrations (when reliable), the number of live births and deaths in the same year of children under one year old are estimated. The number of deaths is divided by the number of births and the result is multiplied by 1,000.

For data from household surveys, infant mortality estimates are obtained directly (using birth history, as in Demographic and Health Surveys) or indirectly (Brass method, as in Multiple Indicator Cluster Surveys). When estimated indirectly the under-one mortality estimates must be consistent with the underfive mortality estimates.

DATA COLLECTION AND SOURCE

The best source of data is a complete vital statistics registration system—one covering at least 90 percent of vital events in the population. Such systems are uncommon in developing countries, so estimates are also obtained from sample surveys or derived by applying direct and indirect estimation techniques to registration, census or survey data. A wide variety of household surveys, including Multiple Indicator Cluster Surveys and Demographic and Health Surveys, are used in developing countries.

PERIODICITY OF MEASUREMENT

Vital statistics are typically available once a year, but they are unreliable in most developing countries. Household surveys that include questions on births and deaths are usually conducted every three to five years.

GENDER ISSUES

Girls have a survival advantage over boys during the first year of life, largely based on biological differences. This is especially so during the first month of life when perinatal conditions are most likely to be the cause or a contributing cause of death. While infant mortality is generally higher for boys than for girls, in some countries girls' biological advantage is outweighed by gender-based discrimination (see also INDICATOR 13, Under-five mortality rate). However, under-five mortality better captures the effect of gender discrimination than infant mortality, as nutrition and medical interventions are more important after age one.

DISAGGREGATION ISSUES

Infant mortality generally shows large disparities across geographical areas and between urban and rural areas. Infant mortality may also vary across socioeconomic groups, and this indicator is often used as a general indicator of social distress in populations. Infants in some ethnic groups might also be at higher risk of malnutrition, poorer health and higher mortality. However, showing and analyzing data on specific ethnic groups may be a sensitive issue in the country. Gender differences may also be more pronounced in some social and ethnic groups.

COMMENTS AND LIMITATIONS

The infant mortality rate is considered to be a more robust estimate than the under-five mortality rate if the information is drawn from vital statistics registration.

In developing countries, household surveys are essential to the calculation of this indicator, but there are some limits to their quality. Survey data are subject to recall error, and surveys estimating infant deaths require large samples, because such incidences are uncommon and representative households cannot ordinarily be identified for sampling. Moreover, the frequency of the surveys is generally only every three to five years. Therefore, when using household survey estimates, it is important to take sampling errors into account.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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Mortality rates are among the most frequently used indicators to compare levels of socioeconomic development across countries. The United Nations Population Division, the United Nations Children's Fund and the World Health Organization regularly produce estimates of infant and under-five mortality based on available national data. These data series may differ, however, because of differences in methodologies used to estimate data and differences in reporting periods.

AGENCIES

Ministries of health. National statistical offices. United Nations Children's Fund. World Health Organization.

15 PROPORTION OF 1 YEAR-OLD CHIL-DREN IMMUNISED AGAINST MEASLES

DEFINITION

The proportion of 1 year-old children immunised against measles is the percentage of children under one year of age who have received at least one dose of measles vaccine.

GOAL/TARGET ADDRESSED

Goal 4: Reduce child mortality.

Target 5: Reduce by two-thirds, between 1990 and 2015, the under-five mortality rate.

RATIONALE

The indicator provides a measure of the coverage and the quality of the child health care system in the country. Immunization is an essential component for reducing under-five mortality. Governments in developing countries usually finance immunization against measles and diphtheria, perussis (whooping cough) and tetanus (DPT) as part of the basic health package. Among these vaccine-preventable diseases of childhood, measles is the leading cause of child mortality. Health and other programmes targeted at these specific causes are one practical means of reducing child mortality.

METHOD OF COMPUTATION

The indicator is estimated as the percentage of children ages 12–23 months who receive at least one dose of measles vaccine either any time before the survey or before the age of 12 months. Estimates of immunization coverage are generally based on two sources of empirical data: administrative data and coverage surveys (see "Data collection and sources"). For estimates based on administrative data, immunization coverage is derived by dividing the total number of vaccinations by the number of children in the target population. For most vaccines, the target population is the national annual number of births or number of surviving infants (this may vary depending on a country's policies and the

specific vaccine). Immunization coverage surveys are frequently used in connection with administrative data.

DATA COLLECTION AND SOURCE

The two sources available at the national level are reports of vaccinations performed by service providers (administrative data) and household surveys containing information on children's vaccination history (coverage surveys). The principle types of surveys used as sources of information on immunization coverage are Expanded Programme on Immunization (EPI) 30 cluster surveys, Multiple Indicator Cluster Surveys and Demographic and Health Surveys. Routine data are compiled by national EPI programme managers.

The World Health Organization (WHO) and the United Nations Children's Fund (UNICEF) compile country data series based on both types of data, gathered through the annual WHO–UNICEF Joint Reporting Form on Vaccine Preventable Diseases.

PERIODICITY OF MEASUREMENT

Administrative data are collected annually. Surveys are generally conducted every three to five years.

GENDER ISSUES

Immunization programmes are generally free of charge and should not discriminate between boys and girls. However, in some countries of South Central Asia and Northern Africa, girls' immunization rates are lower than boys', probably due to cultural rather than economic reasons.

COMMENTS AND LIMITATIONS

The first dose of measles vaccine is supposed to be administered to all children at the age of nine months or shortly after. By 2000, most countries were providing a "second opportunity" for measles vaccination, either through a two-dose routine schedule or through a combined routine schedule and supplementary campaigns. Measles immunization coverage is expressed as the percentage of children who have received at least one dose.

Vaccination coverage for measles needs to be above 90 percent to stop transmission of the virus—not only because measles is so contagious, but also because up to 15 percent of children vaccinated at nine months fail to develop immunity. Some countries in the Latin America and Caribbean region, for example, administer the measles vaccine at 12–15 months of age. This has to be taken into account in calculations of coverage based on household surveys.

In many developing countries, lack of precise information on the size of the cohort of children under one year of age makes immunization coverage difficult to estimate.

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WHO and UNICEF compile country data series based on administrative data and household

surveys, gathered through the annual WHO–UNICEF Joint Reporting Form on Vaccine-Preventable Diseases.

AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization.



MATERNAL MORTALITY RATIO

DEFINITION

The *maternal mortality ratio* is the number of women who die from any cause related to or aggravated by pregnancy or its management (excluding accidental or incidental causes) during pregnancy and childbirth or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy, per 100,000 live births. The 10th revision of the International Classification of Diseases makes provision for including late maternal deaths occurring between six weeks and one year after childbirth.

GOAL/TARGET ADDRESSED

Goal 5: Improve maternal health. *Target 6:* Reduce by three guarters, between

1990 and 2015, the maternal mortality ratio.

RATIONALE

The indicator, which is directly related to the target, monitors deaths related to pregnancy. Such deaths are affected by various factors, including general health status, education and services during pregnancy and childbirth. It is important to monitor changes in health conditions related to sex and reproduction.

METHOD OF COMPUTATION

The maternal mortality ratio can be calculated by dividing recorded (or estimated) maternal deaths by total recorded (or estimated) live births in the same period and multiplying by 100,000. The indicator can be calculated directly from data collected through vital statistics registrations, household surveys or hospital studies. However, these all have data quality problems (see "Data collection and sources"). Alternative methods include a review of all deaths of women of reproductive age (so-called Reproductive Age Mortality Surveys, or RAMOS), longitudinal studies of pregnant women and repeated household studies. All these methods, however, still rely on accurate reporting of deaths of pregnant women and of the cause of death, something that is difficult to obtain in reality.

Another problem is the need for large sample sizes, which raises costs. This can be overcome by using sisterhood methods. The indirect sisterhood method asks respondents four simple questions about how many of their sisters reached adulthood, how many have died and whether those who died were pregnant around the time of death. However, the reference period of the estimate is at least 10–12 years before the survey. The direct sisterhood method used in Demographic and Health Surveys also asks respondents to provide the date of death, which permits the calculation of more recent estimates, but even then the reference period tends to center on 0–6 years before the survey.

Maternal deaths should be divided into two groups. Direct obstetric deaths result from obstetric complications of the pregnant state (pregnancy, labour and puerperium); from interventions, omissions or incorrect treatment; or from a chain of events resulting from any of these. Indirect obstetric deaths result from previously existing disease or disease that developed during pregnancy and that was not directly due to obstetric causes but was aggravated by the physiologic effects of pregnancy. Published maternal mortality ratios should always specify whether the numerator (number of recorded maternal deaths) is the number of recorded direct obstetric deaths or the number of recorded

obstetric deaths (direct plus indirect). Maternal deaths from HIV/AIDS and obstetrical tetanus are included in the maternal mortality ratio.

DATA COLLECTION AND SOURCE

Good vital statistics registration systems are rare in developing countries. Official data are usually obtained from health service records, but few women in rural areas have access to health services. So in developing countries, it is more usual to use survey data. The most common sources of data are the Demographic and Health Surveys and similar household surveys. Available data on levels of maternal mortality are generally significantly underestimated because of problems of misclassification and under-reporting of maternal deaths. The World Health Organization, the United Nation's Children's Fund and the United Nations Population Fund have adjusted existing data to take account of these problems and have developed model-based estimates for countries with no reliable national data on maternal mortality. It is these estimates that are usually published in international tables.

PERIODICITY OF MEASUREMENT

Every 7–10 years.

GENDER ISSUES

The low social and economic status of girls and women is a fundamental determinant of maternal mortality in many countries. Low status limits the access of girls and women to education and good nutrition as well as to the economic resources needed to pay for health care or family planning services.

COMMENTS AND LIMITATIONS

This indicator is generally of unknown reliability, as are many other cause-specific mortality indicators, because of the difficulty in distinguishing deaths that are genuinely related to pregnancy from deaths that are not. Even in industrialized countries with comprehensive vital statistics registration systems, misclassification and under-reporting of maternal deaths can lead to serious underestimation. Because it is a relatively rare event, huge sample sizes are needed if household surveys are used. Household surveys such as the Demographic and Health Survey attempt to measure maternal mortality by asking respondents about survivorship of sisters. While the sisterhood method reduces sample size requirements, it produces estimates covering some 6-12 years before the survey, which renders the data problematic for monitoring progress or observing the impact of interventions. In addition, due to the very large confidence limits around the estimates, they are not suitable for assessing trends over time or for making comparisons between countries. As a result, it is recommended that process indicators, such as attendance by skilled health personnel at delivery and use of emergency obstetric care facilities be used to assess progress towards the reduction in maternal mortality.

The maternal mortality ratio should not be confused with the maternal mortality rate (whose denominator is the number of women of reproductive age), which measures the likelihood of both becoming pregnant and dying during pregnancy or the puerperium (six weeks after delivery). The maternal mortality ratio (whose denominator is the number of live birth), takes fertility levels (likelihood of becoming pregnant) into consideration.

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The World Health Organization, the United Nation's Children's Fund and the United Nations Population Fund have adjusted existing data to account for these problems and have developed model-based estimates for countries with no reliable national data on maternal mortality. It is these estimates that are usually published in international tables.

AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization. United Nations Population Fund.

17 PROPORTION OF BIRTHS ATTENDED BY SKILLED HEALTH PERSONNEL

DEFINITION

The proportion of births attended by skilled health personnel is the percentage of deliveries attended by personnel trained to give the necessary supervision, care and advice to women during pregnancy, labour and the post-partum period; to conduct deliveries on their own; and to care for newborns.

Skilled health personnel include only those who are properly trained and who have appropriate equipment and drugs. Traditional birth attendants, even if they have received a short training course, are not to be included.

GOAL/TARGET ADDRESSED

Goal 5: Improve maternal health.

Target 6: Reduce by three-quarters, between 1990 and 2015, the maternal mortality ratio.

RATIONALE

Measuring maternal mortality accurately is notoriously difficult, except where there is comprehensive registration of deaths and causes of death. Several process indicators have been proposed for tracking progress by focusing on professional care during pregnancy and childbirth, particularly for the management of complications. The most widely available indicator is the proportion of women who deliver with the assistance of a medically trained health care provider.

METHOD OF COMPUTATION

The number of births attended by skilled health personnel (doctors, nurses or midwives) is expressed as a percentage of deliveries (or births if those are the only data available) in the same period.

GENDER ISSUES

The low social status of women in developing countries limits their access to economic resources and basic education and thus their ability to make decisions related to health and nutrition. Some women are denied access to care when it is needed either because of cultural practices of seclusion or because decision-making is the responsibility of other family members. Lack of access to or use of essential obstetric services is a crucial factor contributing to high maternal mortality.

PERIODICITY OF MEASUREMENT

Household survey data on these indicators are generally available every three to five years.

COMMENTS AND LIMITATIONS

The indicator is a measure of a health system's ability to provide adequate care for pregnant women. Concerns have been expressed that the term *skilled attendant* may not adequately capture women's access to good quality care, particularly when complications arise. Standardization of the definition of *skilled* health personnel is sometimes difficult because of differences in training of health personnel in different countries. Although efforts have been made to standardize the definitions of doctors, nurses and midwives and auxiliary midwives used in most household surveys, it is probable that many "skilled attendants" would not meet the criteria for a "skilled attendant" as defined by the World Health Organization. Moreover, it is clear that skilled attendants' ability to provide appropriate care in an emergency depends on the environment in which they work.

DATA COLLECTION AND SOURCE

Data are collected through household surveys, in particular Demographic and Health Surveys and Multiple Indicator Cluster Surveys, as well as other national household surveys.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization. United Nations Population Fund.

18 HIV PREVALENCE AMONG 15-24 YEAR OLD PREGNANT WOMEN

DEFINITION

HIV prevalence among 15–24 year old pregnant women is the percentage of pregnant women ages 15–24 whose blood samples test positive for HIV.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

HIV infection leads to AIDS. Without treatment, average survival from the time of infection is about nine years. Access to treatment is uneven, and no vaccine is currently available.

About half of all new HIV cases are among people 24 years old or younger. In generalized epidemics (with prevalence consistently at more than 1 percent among pregnant women), the infection rate for pregnant women is similar to the overall rate for the adult population. Therefore, this indicator is a measure of spread of the epidemic. In lowlevel and concentrated epidemics, HIV prevalence is monitored in groups with high risk behaviour (because prevalence among pregnant women is low).

METHOD OF COMPUTATION

The number of pregnant women whose blood samples test positive for HIV expressed as a percentage of all pregnant women in that age group whose blood is tested.

DATA COLLECTION AND SOURCE

Data on HIV in pregnant women come from tests on leftover blood samples taken for other reasons during pregnancy. These samples come from selected antenatal clinics during routine sentinel surveillance, chosen to reflect urban, rural and other sociogeographic divisions in a country. HIV prevalence data in groups with high risk behaviour are collected in serosurveys that are part of the surveillance system or in ad hoc prevalence surveys.

Only the results of unlinked, anonymous screening of blood taken for other purposes should be used in calculating this indicator of HIV prevalence. Refusal and other forms of participation bias are considerably reduced in unlinked, anonymous HIV testing compared with other forms of testing, such as in programmes that offer counseling and voluntary HIV testing for pregnant women to reduce mother to child transmission.

These data are gathered by the World Health Organization and the Joint UN Programme on HIV/AIDS.

PERIODICITY OF MEASUREMENT

The data are collated annually in many developing countries.

GENDER ISSUES

Pregnant women are not chosen for clinical surveillance because of gender issues but because they offer a unique opportunity to monitor HIV/AIDS.

Throughout the world, the unequal social status of women places them at higher risk for contracting HIV. Women are at a disadvantage when it comes to access to information about HIV prevention, the ability to negotiate safe sexual encounters and access to treatment for HIV/AIDS once infected. As a result of these inequities and epidemic dynamics, the proportion of women among people living with HIV/AIDS is rising in many regions.

DISAGGREGATION ISSUES

Data from surveillance of pregnant women at antenatal care clinics are broken into urban populations and populations living outside major urban areas. In many countries, data from rural areas are rare. The indicator for pregnant women ages 15–24 should be reported as the median for the capital city, for other urban areas and for rural areas.

COMMENTS AND LIMITATIONS

The indicator gives a fairly good idea of relatively recent trends in HIV infection nationwide in countries where the epidemic is generalized. In areas where most HIV infections are confined to subpopulations with high-risk behaviours, trends should be assessed in these populations.

In most countries, serosurveillance sites have not been selected as representative samples of the country. Logistical, feasibility and cost issues guide the selection of these sites. Also, in many countries, the sites included in the surveillance system have changed over time, making interpretation of trends more difficult.

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UNDP, UNFPA, UNCDP, UNESCO, WHO, World Bank, available at www.uNAIDS.ORG, annex 1.

AGENCIES

Ministries of health. Joint UN Programme on HIV/AIDS. World Health Organization. United Nations Children's Fund. United Nations Population Fund.

19 CONDOM USE RATE OF THE CON-TRACEPTIVE PREVALENCE RATE

DEFINITION

Condom use rate of the contraceptive prevalence rate is the number of women ages 15–49 in marital or consensual unions who are practising contraception by using condoms as a proportion of all of women of the same age group in consensual unions who are practising, or whose sexual partners are practising, any form of contraception.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

The condom use rate is used to monitor progress towards halting and reversing the spread of HIV/AIDS, because condoms are the only contraceptive method effective in reducing the spread of HIV. Because the condom use rate is measured only among women in unions, this indicator needs to be supplemented by an indicator on condom use in high-risk situations (see indicator 19a).

METHOD OF COMPUTATION

The number of women ages 15–49 in marital or consensual unions who report that they are using a condom to avoid pregnancy (regardless of whether they are also using additional methods) is divided by the total number of women ages 15–49 in unions who are practicing, or whose sexual partners are practising, contraception.

This indicator is not equivalent to condom use prevalence, which is the number of women ages 15–49 in marital or consensual unions who are practising (or whose sexual partners are practising) contraception by using condoms as a percentage of the total number of women of the same age group (and same marital status, if applicable) in the survey. Irrespective of the contraceptive prevalence rate, if 10 percent of those practising contraception use condoms, then the rate for indicator 19 is 10 percent.

The definition and method of calculation of this indicator differ when the indicator is used for monitoring contraceptive use only. In that case, the numerator is the number of women ages 15–49 in marital or consensual unions who report that they are using a condom as their main method of contraception.

DATA COLLECTION AND SOURCE

Contraceptive prevalence data are obtained mainly from household surveys, notably the Demographic and Health Surveys, Multiple Indicator Cluster Surveys and contraceptive prevalence surveys. For condom use data, married women are asked whether they have ever heard of condoms and then whether they are currently using condoms to prevent pregnancy.

PERIODICITY OF MEASUREMENT

Household surveys, such as Demographic and Health Surveys, Multiple Indicator Cluster Surveys and contraceptive prevalence surveys, are generally conducted every three to five years.

GENDER ISSUES

Statistics on contraception prevalence rates are based primarily on women, mainly

because contraception is more easily measured in this way. Further, contraception, or its lack, affects the health and well-being of women more than it does their sexual partners. Similarly, condom use is still at the discretion of male partners, and the female condom is not as widely available. The rising number of women and girls infected by HIV/AIDS indicates that condom use needs further promotion and that women need to be empowered to refuse unprotected sex.

DISAGGREGATION ISSUES

Condom use, as it is the case in general for contraceptive use, may vary significantly across socioeconomic groups and regional and geographical areas. It is important that the analysis address specific demographic groups, such as adolescents and unmarried women.

COMMENTS AND LIMITATIONS

The indicator does not reflect condom use for the unmarried population and people in groups with high-risk behaviour. Data are generally collected for women in consensual unions and in a particular age range, while the population of concern includes all women of reproductive age, irrespective of marital status.

The spread of HIV through sexual relations depends on having unprotected sex with people who also have other partners. Most monogamous relationships are cohabiting, although the reverse is not necessarily true. Partners who do not live together and who have sex only occasionally are most likely to have other partners over the course of a year. These partnerships therefore carry a higher risk of HIV transmission than partnerships that do not link into a wider sexual network. AIDS prevention programmes try to discourage high numbers of partnerships and to encourage mutual monogamy.

This indicator, therefore, is not a practical indicator for measuring the prevention of HIV/AIDS. Information should be collected on

additional indicators on condom use in highrisk situations (indicator 19a) and on knowledge and misconceptions of HIV/AIDS among 15- 24-year-olds (indicator 19b). Such indicators give a better picture of the proportion of the population that engages in relatively highrisk partnerships and that is therefore more likely to be exposed to the sexual networks within which HIV can circulate.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministries of health. Joint UN Programme on HIV/AIDS. United Nations Children's Fund. United Nations Population Division. World Health Organization. United Nations Population Fund.

19A CONDOM USE RATE OF THE CON-TRACEPTIVE PREVALENCE RATE

DEFINITION

Condom use at last high-risk sex is the percentage of young people ages 15–24 reporting the use of a condom during sexual intercourse with a non-regular sexual partner in the last 12 months.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

Consistent use of condoms in nonregular sexual partnerships substantially reduces the risk of sexual HIV transmission. This is especially important for young people, who often experience the highest rates of HIV infection because they have low prior exposure to infection and (typically) relatively high numbers of non-regular sexual partnerships. Consistent condom use with non-regular sexual partners is important even in countries where HIV prevalence is low, because it can prevent the spread of HIV in circumstances where non-regular relationships are common. Condom use is one measure of protection against HIV/AIDS. Equally important are delaying age at first sex, reducing the number

of non-regular sexual partners and being faithful to one partner.

METHOD OF COMPUTATION

The number of respondents ages 15–24 who reported having had a non-regular (non-marital and non-cohabiting) sexual partner in the last 12 months and using a condom the last time they had sex with this partner, as a share of the number of respondents ages 15–24 who reported having had a non-regular sexual partner in the last 12 months.

PERIODICITY OF MEASUREMENT

Household surveys, such as Demographic and Health Surveys, Rural Household Surveys and Behavioural Surveillance Surveys, are generally conducted every three to five years.

GENDER ISSUES

Women's risk of becoming infected with HIV during unprotected sexual intercourse is higher than that of men. And the risk is even higher for younger women. Social and cultural factors may increase women's vulnerability to HIV infection. For instance, cultural norms related to sexuality often prevent girls from taking active steps to protect themselves.

COMMENTS AND LIMITATIONS

A rise in this indicator is an extremely powerful sign that condom promotion campaigns are having the desired effect among their principle target market. However, condom promotion campaigns aim for consistent use of condoms with non-regular partners rather than simply occasional use.

Some surveys have tried to ask directly about consistent use, but the question is subject to recall bias and other biases.

The current indicator is therefore considered adequate to address the target since it is assumed that if consistent use rises, use at last high-risk sex will also increase.

DATA COLLECTION AND SOURCE

Data on condom use with non-regular sexual partners are available from household surveys (such as Demographic and Health Surveys, Rural Household Surveys and Behavioural Surveillance Surveys) that collect information on sexual behaviour.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministries of health. United Nations Children's Fund. United Nations Population Fund.

19-B PERCENTAGE OF POPULATION AGED 15-24 WITH COMPREHENSIVE COR-RECT KNOWLEDGE OF HIV/AIDS

DEFINITION

Percentage of population ages 15–24 with comprehensive correct knowledge of HIV/AIDS is the share of women and men ages 15–24 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.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

The indicator reflects the success of national information, education and communication programmes and other efforts in promoting knowledge of valid HIV prevention methods and reducing misconceptions about the disease. Common local misconceptions can be determined by the context of the country.

METHOD OF COMPUTATION

Since there are not enough surveys to calculate the indicator as defined above, the United Nations Children's Fund, in collaboration with the Joint UN Programme on HIV/AIDS and the World Health Organization, has produced two proxy indicators that represent two components of the actual indicator:

Percentage of women and men ages 15–24 who know that a person can protect oneself from HIV infection by "consistent use of condom". The indicator is calculated as the number of respondents ages 15–24 who, in response to prompting, correctly identify consistent use of condoms as a means of protec-

tion against HIV infection, as a percentage of the total number of respondents ages 15–24.

Percentage of women and men ages 15–24 who know a healthy-looking person can transmit HIV. The indicator is calculated as the number of respondents ages 15–24 who, in response to prompting, correctly note that a person who looks healthy may transmit HIV, as a percentage of the total number of respondents ages 15–24.

DATA COLLECTION AND SOURCE

Data on knowledge and misconception on HIV/AIDS are collected through household surveys (such as Demographic and Health Surveys, Rural Household Surveys, Behavioural Surveillance Surveys and Multiple Indicator Cluster Surveys).

PERIODICITY OF MEASUREMENT

Household surveys, such as Demographic and Health Surveys, Rural Household Surveys, and Behavioural Surveillance Surveys and Multiple Indicator Cluster Surveys, are generally conducted every three to five years.

GENDER ISSUES

Women's risk of becoming infected with HIV during unprotected sexual intercourse is higher than that of men. And the risk is even higher for younger women. Social and cultural factors may increase women's vulnerability to HIV infection. For instance, cultural norms related to sexuality often prevent girls from taking active steps to protect themselves.

In many countries, girls are becoming infected and dying younger than boys, for various reasons, especially in Sub-Saharan Africa, the region most affected by HIV/AIDS.

COMMENTS AND LIMITATIONS:

See "Methods of computation".

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Monitoring the Declaration of Commitment on HIV/AIDS: Guidelines on Construction of Core Indicators, 2002, Joint UN Programme on HIV/AIDS (www.UNAIDS.ORG/UNGASS/ DOCS/JC718-COREINDIC_EN.PDF).
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- Young People and HIV/AIDS: Opportunity in Crisis, 2002, United Nations Children's Fund, Joint UN Programme on HIV/AIDS and World Health Organization (WWW.UNICEF.ORG/AIDS/PUBLICATIONS.HTM).
- Epidemiological Fact Sheets, Joint UN Programme on HIV/AIDS, World Health Organization and United Nations Children's Fund (www.who.INT/EMC-HIV/FACT SHEETS).

AGENCY

United Nations Children's Fund.



DEFINITION

The contraceptive prevalence rate is the percentage of women who are practising, or whose sexual partners are practising, any form of contraception. It is usually reported for women ages 15–49 in marital or consensual unions.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

The indicator is useful in tracking progress towards health, gender and poverty goals. It also serves as a proxy measure of access to reproductive health services that are essential for meeting many of the goals, especially the child and maternity mortality and HIV/AIDS goals.

Contraceptive methods include condoms, female and male sterilization, injectable and oral hormones, intrauterine devices, diaphragms, spermicides and natural family planning, as well as lactational amenorrhoea (lack of menstruation during breastfeeding) where it is cited as a method. Because, among contraceptive methods, only condoms are effective in preventing HIV infections, specific indicators on condom use are also considered (SEE INDICATORS 19, 19A and 19B).

METHOD OF COMPUTATION

The number of women ages 15–49 in marital or consensual unions who report that they are practising (or whose sexual partners are practising) contraception is divided by the total number of women ages 15–49 (and same marital status, if applicable) in the survey.

DATA COLLECTION AND SOURCE

Contraceptive prevalence data are obtained mainly from household surveys, notably the Demographic and Health Surveys, Multiple Indicator Cluster Surveys and contraceptive prevalence surveys.

PERIODICITY OF MEASUREMENT

Household surveys, such as Demographic and Health Surveys, Multiple Indicator Cluster Surveys and contraceptive prevalence surveys, are generally conducted every three to five years.

GENDER ISSUES

Statistics on contraception prevalence rates are based primarily on women, mainly because contraception is more easily measured in this way. Further, contraception, or its lack, affects the health and well-being of women more than it does their sexual partners.

DISAGGREGATION ISSUES

Contraceptive use may vary significantly across socioeconomic groups and regional and geographical areas. It is important that the analysis address specific demographic groups, such as adolescents and unmarried women.

COMMENTS AND LIMITATIONS

Data are generally collected for women in unions and in a particular age range, while the population of concern includes all women of reproductive age, irrespective of marital status.

Also, contraceptive methods may include traditional methods that are largely ineffective. It is important, to the extent possible, to at least distinguish between traditional and modern methods.

Under-reporting can occur when the interviewer does not mention specific methods such as contraceptive surgical sterilization.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministry of health. United Nations Population Fund. United Nations Children's Fund. United Nations Population Division.

20 RATIO OF SCHOOL ATTENDANCE OF ORPHANS TO SCHOOL ATTENDANCE OF NON-ORPHANS AGED 10-14

DEFINITION

Strictly defined, the number of children orphaned by HIV/AIDS is the estimated number of children who have lost their mother, father or both parents to AIDS before age 15. In practice, the impact of the AIDS epidemic on orphans is measured through the ratio of orphans to non-orphans who are in school.

GOAL/TARGET ADDRESSED

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

Target 7: Have halted by 2015 and begun to reverse the spread of HIV/AIDS.

RATIONALE

HIV/AIDS is claiming the lives of ever-growing numbers of adults just when they are forming families and bringing up children. As a result, orphan prevalence is rising steadily in many countries, while fewer relatives within the prime adult ages mean that orphaned children face an increasingly uncertain future.

Orphanhood is frequently accompanied by prejudice and increased poverty-factors that can further jeopardize children's well-being. Children and adolescents orphaned by AIDS face decreased access to adequate nutrition, basic health care, housing and clothing. They may turn to survival strategies that increase their vulnerability to HIV. They are likely to drop out of school because of discrimination, emotional distress, inability to pay school fees or the need to care for parents or caretakers infected with HIV or for younger siblings. In Sub-Saharan Africa only 60 percent of orphans (ages 10–14) who lost both parents attend school compared with 71 percent of those with both parents still living. The limited countries with trend data indicate a widening of this gap. It is important, therefore, to monitor the extent to which AIDS support programmes succeed in securing educational opportunities for orphaned children.

METHOD OF COMPUTATION

The current school attendance rate of children ages 10–14 both of whose biological parents have died is divided by the current school attendance rate of children ages 10–14 whose parents are both still alive and who live with at least one biological parent.

DATA COLLECTION AND SOURCE

Data for this indicator are collected through household surveys (such as Demographic and Health Surveys and Multiple Indicator Cluster Surveys).

PERIODICITY OF MEASUREMENT

Household surveys, such as Demographic and Health Surveys and Multiple Indicator Cluster

Surveys, are generally conducted every three to five years.

GENDER ISSUES

Boys and girls are both affected. However, girls might be more likely than boys to leave school to care for ill parents and younger siblings.

DISAGGREGATION ISSUES

Data should be presented separately for boys and girls.

COMMENTS AND LIMITATIONS

The indicator is confined to children ages 10–14 for comparability, as age at school entry varies across countries. Household surveys can miss children in unstable households, and orphaned children are disproportionately likely to be in such households.

The indicator is not a direct measure of the number of children orphaned by HIV/AIDS, despite the wording. This indicator does not directly distinguish the cause of orphanhood. But it is believed that high proportions of deaths of adults with school-age children in areas of HIV epidemics are likely to be HIV/AIDS related.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Monitoring the Declaration of Commitment on HIV/AIDS: Guidelines on Construction of Core Indicators, 2002, Joint UN Programme on HIV/AIDS (www.UNAIDS.ORG/UNGASS/ DOCS/JC718-COREINDIC EN.PDF).
- National AIDS Programmes: A Guide to Monitoring and Evaluation, Joint UN Programme on HIV/AIDS (www.cpc.unc.edu/ MEASURE/GUIDE.HTML).
- The State of the World's Children, annual, United Nations Children's Fund (WWW.UNICEF.ORG/PUBLICATIONS).
- Young People and HIV/AIDS: Opportunity in Crisis, 2002, United Nations Children's Fund, Joint UN Programme on HIV/AIDS and World Health Organization (WWW.UNICEF.ORG/AIDS/PUBLICATIONS.HTM).

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AGENCIES

Joint UN Program on HIV/AIDS. United Nations Children's Fund.

21 PREVALENCE AND DEATH RATES ASSOCIATED WITH MALARIA

DEFINITION

Prevalence of malaria is the number of cases of malaria per 100,000 people. *Death rates associated with malaria* are number of deaths caused by malaria per 100,000 people.

GOAL/TARGET ADDRESSED

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

Target 8: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.

RATIONALE

The indicator allows highly endemic countries to monitor disease and death from malaria, which have been increasing over the last two decades due to deteriorating health systems, growing drug and insecticide resistance, periodic changes in weather patterns, civil unrest, human migration and population displacement.

METHOD OF COMPUTATION

Where the only prevalence data available are reported through the administration of health services, they are expressed per 100,000

population, using population estimates as the denominator.

Where prevalence data on children under five come from household surveys, the data may be reported as percentages of children under five with fever in the last two weeks. The percentage may be multiplied by 1,000 to express the rate per 100,000.

The World Health Organization (WHO) also produces model-based estimates of malaria-specific mortality.

DATA COLLECTION AND SOURCE

Data come from administrative sources, household surveys and vital statistics registrations. Administrative data are derived by health ministries from the administration of health services. Multiple Indicator Cluster Surveys collect information on prevalence of fever in the last two weeks for children under five. The surveys also provide data on all causes of under-five mortality.

Vital statistics registration systems collect data on cause of death, including deaths caused by malaria. Good quality information requires that death registration be near universal, that the cause of death be reported routinely on the death record and that it be determined by a qualified observer according to the International Classification of Diseases. Such information is not generally available in developing countries but is now compiled by WHO annually for approximately 70 (mainly developed) countries.

PERIODICITY OF MEASUREMENT

Administrative data are, in principle, available annually. Data from surveys are generally available every three to five years.

GENDER ISSUES

Potential differences between men and women are a function of the interaction between biological factors and gender roles and relations. Biological factors vary between men and women and influence susceptibility and immunity to tropical diseases. Gender roles and relations influence the degree of exposure to the relevant vectors and also to access and control of resources needed to protect women and men from being infected. Women's immunity is particularly compromised during pregnancy, making pregnant women more likely to become infected and implying differential severity of the consequences. Malaria during pregnancy is an important cause of maternal mortality.

DISAGGREGATION ISSUES

All data should be classified by gender, as there could be differential death rates.

Rural populations carry the overwhelming burden of disease, so urban and rural disaggregation of the data is important in tracking the progress made in rural areas. Multiple Indicator Cluster Surveys data have shown substantial difference by wealth quintiles, and where possible the data should be disaggregated by the wealth index.

COMMENTS AND LIMITATIONS

Malaria statistics are reported in countries where it is endemic, which includes almost all developing countries. But data reported by ministries are often only a fraction of the number of cases in the population. Many report only laboratory-confirmed cases. In Sub-Saharan Africa, clinically diagnosed cases also tend to be reported.

Differences between male and female prevalence and incidence rates are difficult to measure since malaria in women is more likely to be undetected. The fact that health services focus almost exclusively on women's reproductive function means that opportunities are lost for detection of multiple conditions, including tropical diseases. Moreover, when incidence rates in women and men are similar, there are still significant differences between them in the susceptibility and the impact of tropical diseases.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
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AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization.

22 PROPORTION OF POPULATION IN MALARIA RISK AREAS USING EFFEC-TIVE MALARIA PREVENTION AND TREATMENT MEASURES

DEFINITION

Malaria prevention is measured as the percentage of children ages 0–59 months sleeping under insecticide-treated bednets. *Malaria treatment* among children is measured as the proportion of children ages 0–59 months who were ill with the fever in the two weeks before the survey and who received appropriate antimalarial drugs.

GOAL/TARGET ADDRESSED

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

Target 8: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.

RATIONALE

The Roll Back Malaria initiative, established in late 1998 by the World Health Organization, the United Nations Children's Fund and the World Bank, identifies four main interventions to reduce the burden of malaria in Africa:

- Use of insecticide-treated bednets, which have been demonstrated to cut all-cause child mortality over the first two years by 20 percent.
- Prompt access to effective treatment in or near the home.
- Provision of anti-malarial drugs to symptom-free pregnant women in high transmission areas.
- Improved forecasting, prevention and rapid response to malaria epidemics.

In areas of Sub-Saharan Africa with high levels of malaria transmission, regular use of an insecticide-treated bednet can reduce mortality in children under-five by as much as 20 percent and has a significant impact on anemia. Similar or greater benefits have been achieved in other regions and for pregnant women. The prevention indicator will allow countries to monitor widespread use of insecticide-treated materials and other appropriate methods to limit human-mosquito contact.

Detection of epidemics requires timely, complete surveillance of malaria cases and monitoring of weather patterns. Reserve drug stocks, transport and hospital capacity are needed to mount an appropriate response. In some epidemic zones, well-timed and targeted vector control activities have minimized the impact of epidemics. The treatment indicator allows countries to monitor detection and appropriate response to epidemics within two weeks of onset.

METHOD OF COMPUTATION

For prevention, the indicator is calculated as the percentage of children under five years of age in the survey who slept under an insecticide treated bednet the previous night.

DATA COLLECTION AND SOURCE

The only data sources are household surveys, mainly Demographic and Health Surveys and the Multiple Indicator Cluster Surveys, malaria surveys and malaria modules added to other ongoing household surveys.

PERIODICITY OF MEASUREMENT

Data on coverage of insecticide-treated bednets and treatment data should be collected about every two to three years.

GENDER ISSUES

Girls may have greater exposure than boys to malaria-infested areas because of their role in the provision of fuel, water and other supplies.

DISAGGREGATION ISSUES

Disparities by gender, age, mother's education and area of residence should be assessed.

COMMENTS AND LIMITATIONS

Survey data are subject to sampling errors and are undertaken only every few years. As the data on bednet use are new, no trend data are yet available.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministries of health. United Nations Children's Fund. World Health Organization.



DEFINITION

Tuberculosis prevalence is the number of cases of tuberculosis per 100,000 people. *Death rates associated with tuberculosis* are deaths caused by tuberculosis per 100,000 people. A *tuberculosis case* is defined as a patient in whom tuberculosis has been bacteriologically confirmed or diagnosed by a clinician.

GOAL/TARGET ADDRESSED

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

Target 8: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.

RATIONALE

Detecting and curing tuberculosis are key interventions for addressing poverty and inequality. Prevalence and deaths are more sensitive markers of the changing burden of tuberculosis than incidence (new cases), although data on trends in incidence are far more comprehensive and give the best overview of the impact of global tuberculosis control.

METHOD OF COMPUTATION

Where the only data available are data reported through the administration of health services, they are expressed per 100,000 population, using population estimates as the denominator.

Where the data come from household surveys, prevalence (and more rarely deaths) is expressed per 100,000 population, using the total population in the survey as the denominator.

Tuberculosis prevalence is sometimes expressed in absolute numbers of cases, while tuberculosis incidence in a given period (usually one year) is always per 100,000 people.

DATA COLLECTION AND SOURCE

Direct measures of tuberculosis prevalence are uncommon, and recent population-based surveys have been confined largely to countries in the East Asia and Pacific region. Direct measures of the tuberculosis death rate come from vital statistics registration. Reliable figures require that death registration be nearly universal and that the cause of death be reported routinely on the death record and determined by a qualified observer according to the International Classification of Diseases. Such information is not generally available in developing countries. Vital statistics registration systems tend to underestimate tuberculosis deaths, although time series data from some countries in Asia and the Americas give a useful indication of trends.

In the absence of direct measures of prevalence and death rates, a variety of techniques can be used to estimate these values. Administrative data are derived from the administration of health services. Data can also be obtained from household surveys such as Multiple Indicator Cluster Surveys or the Demographic and Health Surveys, although these usually refer only to children under five and do not provide death rates. Population data come directly or indirectly from population censuses.

PERIODICITY OF MEASUREMENT

Administrative data are, in principle, available annually. Data from surveys are generally available every three to five years. Results from population censuses are generally available every 10 years.

GENDER ISSUES

At younger ages, the prevalence of infection is similar in boys and girls. At older ages, a higher prevalence has been found in men; in most of the world, more men than women are diagnosed with tuberculosis and die from it. However, recent analyses comparing infection and disease rates suggest that the propensity to develop the disease after infection with mycobacterium tuberculosis (the progression rate) may be greater among women of reproductive age than among men of the same age. A recent review of socioeconomic and cultural factors relating to these suggested differences called for further research to clarify such differences in the epidemiology of tuberculosis.

Although more men than women die of tuberculosis, it is still a leading cause of death from infectious disease among women. Because tuberculosis affects women mainly in their economically and reproductively active years, the impact of the disease is also strongly felt by their children and families.

DISAGGREGATION ISSUES

It is important to compile data by gender and to take a gender perspective in the analysis.

COMMENTS AND LIMITATIONS

Tuberculosis prevalence and death rate data reported by ministries in developing countries are usually only a fraction of the number of cases and deaths from tuberculosis in the population.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Health Organization, www3.who.int/whosis and www.who.int/gtb/dots.
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- Human Development Report, annual, United Nations Development Programme (www.UNDP.ORG).
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AGENCIES

Ministries of health. World Health Organization.

24 PROPORTION OF TUBERCULOSIS CASES DETECTED AND CURED UNDER DIRECTLY-OBSERVED TREATMENT SHORT COURSES (DOTS)

DEFINITION

The *tuberculosis detection* rate is the percentage of estimated new infectious tuberculosis cases detected under the directly observed treatment, short course (DOTS) case detection and treatment strategy. The *cure rate* is the percentage of new, registered smear-positive (infectious) cases that were cured or in which a full course of DOTS was completed. A *tuberculosis case* is defined as a patient in whom tuberculosis has been bateriologically confirmed or diagnosed by a clinician.

GOAL/TARGET ADDRESSED

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

Target 8: Have halted by 2015 and begun to reverse the incidence of malaria and other major diseases.

RATIONALE

Since tuberculosis is an airborne contagious disease, primary control is effected through finding and treating infectious cases and thus limiting the risk of acquiring infection. The recommended approach to primary control is the DOTS strategy, an inexpensive strategy that could prevent millions of tuberculosis cases and deaths over the coming decade.

DOTS is a proven system based on accurate diagnosis and consistent treatment with a full course of a cocktail of anti-tuberculosis drugs (isoniazid, rifampicin, pyrazinamide, streptomycin and ethambutol). DOTS requires government commitment, careful detection, consistent treatment, uninterrupted supply of anti-tuberculosis drugs and a monitoring and reporting system to evaluate treatment outcomes for each patient.

METHOD OF COMPUTATION

The case detection rate is the ratio of smearpositive case notifications in a given year to the estimated number of new smear-positive cases arising in that year. For some countries, there is a margin of uncertainty in the estimation of the denominator of this ratio.

The treatment success rates is the ratio of new, registered smear-positive (infectious) cases that were cured or completed a full course of DOTS to the total number of new, registered cases. Treatment success rates can be monitored directly and accurately in cohorts of patients treated under the DOTS strategy. Systematic evaluation of patient progress and treatment outcomes provides the numerator.

DATA COLLECTION AND SOURCE

Data on both the detection rate and the treatment success rate are derived from World Health Organization DOTS programmes, which monitor and report cases detected, treatment progress and programme performance.

PERIODICITY OF MEASUREMENT

Administrative data are, in principle, available annually. Household survey are generally available annually. Household surveys are generally available every three to five years. Data from DOTS programmes, though incomplete, are updated frequently.

GENDER ISSUES

At younger ages, the prevalence of infection is similar in boys and girls. At older ages, a higher prevalence has been found in men; in most of the world, more men than women are diagnosed with tuberculosis and die from it. However, recent analyses comparing infection and disease rates suggest that the propensity to develop the disease after infection with mycobacterium tuberculosis (the progression rate) may be greater among women of reproductive age than among men of the same age. A recent review of socioeconomic and cultural factors relating to these suggested differences called for further research to clarify such differences in the epidemiology of tuberculosis.

Tuberculosis is nevertheless a leading cause of death from infectious disease among women. Because tuberculosis affects women mainly in their economically and reproductively active years, the impact of the disease is also strongly felt by their children and families.

COMMENTS AND LIMITATIONS

Tuberculosis cases reported by ministries in developing countries are usually only a fraction of the number of cases in the population. It is estimated that in 2000 only 27 percent of new cases were notified under DOTS and only about 19 percent of cases were successfully treated.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

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AGENCIES

Ministries of health. World Health Organization.

25 PROPORTION OF LAND AREA COV-ERED BY FOREST

DEFINITION

Proportion of land area covered by forest is forest areas as a share of total land area. where land area is the total surface area of the country less the area covered by inland waters, like major rivers and lakes. As defined in the Food and Agricultural Organization's (FAO) Global Forest Resources Assessment 2000, forest includes both natural forests and forest plantations. It refers to land with an existing or expected tree canopy of more than 10 percent and an area of more than 0.5 hectare where the trees should be able to reach a minimum height of 5 meters. Forests are identified both by the presence of trees and the absence of other land uses. Land from which forest has been cleared but that will be reforested in the foreseeable future is included. Excluded are stands of trees established primarily for agricultural production, such as fruit tree plantations.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 9:** Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.

RATIONALE

The indicator provides a measure of the relative importance of a forest in a country. Changes in forest area reflect the demand for land for other competitive uses.

Forests provide a number of functions that are vital for humanity, including the provision of goods (timber and non-timber products) and services such as protection against flooding, habitat for biodiversity, carbon sequestration, watershed protection and soil conservation. Large areas of the world's forests have been converted to other uses or severely degraded. While substantial areas of productive forest remain, there is now widespread recognition that the resource is not infinite and that its wise and sustainable use is needed for humanity's survival.

METHOD OF COMPUTATION

The proportion of forest in the total land area is calculated from information provided by countries or from satellite images or other remote sensing information analysis. Changes in the proportion should be computed to identify trends.

DATA COLLECTION AND SOURCE

FAO global forest resources assessments, regional forest resources assessments, special studies and surveys, national forest inventories and satellite images.

PERIODICITY OF MEASUREMENT

FAO global forest resources assessments are carried out every 5–10 years, incorporating

national forest resources variables, which are measured in the national forest inventory process at different intervals (often 5–10 years).

GENDER ISSUES

Men and women use forest products in different ways. Women typically gather forest products for fuel, fencing, food for the family, fodder for livestock, medicine and raw materials for income-generating activities. Women are also often the chief sources of information on the use and management of trees and other forest plants. Men, on the other hand, tend to use non-wood forest products, but also more often cut wood to sell or use for building materials. Women's access to forest products may not be ensured—even where women have ownership rights to land.

DISAGGREGATION ISSUES

FAO provides a breakdown of forest cover between natural forest and plantation for developing countries only.

COMMENTS AND LIMITATIONS

National forest inventories and forest surveys are irregular in some countries and may be significantly out of date. Because of climatic and geographic differences, forest areas vary in importance among countries, so changes in area covered by forests should be documented as well as area covered by forests. Longer time series may be difficult to compare directly without analysis of differences in definitions, methods and underlying data.

The proportion of total forest cover (including both natural forest and plantation) may underestimate the rate at which natural forest is disappearing in some countries.

It is also recommended that immediate users or beneficiaries of wooded land be identified.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- State of the World's Forests, annual, Food and Agricultural Organization (FAOSTAT.FAO.ORG).
- ► Food and Agriculture Organization, FAOSTAT.FAO.ORG.
- Global Forest Resources Assessment 2000, 2000, Food and Agricultural Organization (www.FAO.ORG/FORESTRY/FO/FRA), p. 363.
- Forest Resources of Europe, CIS, North America, Australia, Japan and New Zealand, 2000, United Nations Economic Commission for Europe (www.unece.org/TRADE/TIMBER/FRA).
- United Nations Environment Programme, www.UNEP.ORG.
- World Development Indicators, annual, World Bank (www.worldBank.org/data).
- Readings in International Environmental Statistics, 1989, United Nations Commission for Europe, Conference of European Statistics, ECE Standard Statistical Classification of Land Use.

Although the FAO forestry-related definitions are clear and applied at the international level, countries have historically used their own definitions in conducting national forest inventories and assessments. Considerable efforts have been made to adjust data based on national definitions to comparable international ones, and FAO's *Global Forest Resources Assessment* documents these adjustments.

AGENCIES

Ministries of environment. Food and Agricultural Organization.

26 RATIO OF AREA PROTECTED TO MAINTAIN BIOLOGICAL DIVERSITY TO SURFACE AREA

DEFINITION

The ratio of area protected to maintain biological diversity to surface area is defined as nationally protected area as a percentage of total surface area of a country. The generally accepted IUCN–World Conservation Union definition of a *protected area* is an area of land or sea dedicated to the protection and maintenance of biological diversity and of natural and associated cultural resources and managed through legal or other effective means.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 9:** Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.

RATIONALE

Habitat conservation is vital for stemming the decline in biodiversity. The establishment of protected areas is an important mechanism for achieving this aim. Some areas, such as scientific reserves, are maintained in their natural state and closed to extractive use. Others are partially protected and may be used for recreation or tourism.

In addition to protecting biodiversity, protected areas have become places of high social and economic value: supporting local livelihoods; protecting watersheds from erosion; harboring an untold wealth of genetic resources; supporting thriving recreation and tourism industries; providing for science, research and education; and forming a basis for cultural and other non-material values. These values continue to grow in importance.

METHOD OF COMPUTATION

Protected areas, both terrestrial and marine, are totaled and expressed as a percentage of the total surface area of the country. The total surface area of the country includes terrestrial area plus any territorial sea area (up to 12 nautical miles).

DATA COLLECTION AND SOURCE

Data are collected by environment and other ministries responsible for the designation and maintenance of protected areas. Data are stored

in the World Database on Protected Areas and can be accessed at HTTP://SEA.UNEP-WCMC.ORG/ WDBPA/UN.CFM.

PERIODICITY OF MEASUREMENT

Data are constantly updated in the World Database on Protected Areas as new information is received from countries.

GENDER ISSUES

Mainstream agricultural, environmental and related policies and programmes tend to see farmers as men. They often fail to recognize women's work, knowledge, contributions and needs. This has important consequences for biodiversity as well as gender equality.

COMMENTS AND LIMITATIONS

The designation of an area as protected is not confirmation that protection measures are actually in force. The indicator provides a measure of governments' will to protect biodiversity. It does not measure the effectiveness of policy tools in reducing biodiversity loss, which ultimately depends on a range of management and implementation factors not covered by the indicator.

The indicator provides no information on areas not designated as protected, but which may also be important for conserving biodiversity.

The data also do not include sites protected under local or provincial law (World Conservation Monitoring Center, Protected Areas Data Unit).

It is not obvious how to establish targets for this indicator.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- IUCN–World Conservation Union, www.iucn.org/THEMES/BIODIVERSITY.
- World Database on Protected Areas, United Nations Environment Programme–World Conversation Monitoring Centre (SEA.UNEP-

WCMC.ORG/WDBPA/UN.CFM).

- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.UN.ORG/ESA/SUSTDEV/ NATLINFO/INDICATORS/ISD.HTM).
- United Nations Educational, Scientific and Cultural Organization, biosphere reserves, www.UNESCO.ORG/MAB.
- United Nations Educational, Scientific and Cultural Organization, heritage sites, www.UNESCO.ORG/WHC.
- United Nations Educational, Scientific and Cultural Organization, wetlands, www.RAM-SAR.ORG/SITELIST.PDf.
- Gender and Biodiversity, Tipsheet, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oecd.org).
- Readings in International Environmental Statistics, 1989, United Nations Commission for Europe, Conference of European Statistics, ECE Standard Statistical Classification of Land Use.
- Guidelines for Protected Area Management Categories, 1994, World Conservation Union, CNPPA with the assistance of the World Conservation Monitoring Centre, available at: www.wcmc.org.uk/PROTECTED_ AREAS/CATEGORIES/ENG/INDEX.HTML.

AGENCIES

Ministries of environment. United Nations Environment Programme, World Conservation Monitoring Centre. IUCN–World Conservation Union.

27 ENERGY USE (METRIC TON OIL EQUIVALENT) PER \$1 GDP (PPP)

DEFINITION

Energy use (kilogram oil equivalent) per \$1000 GDP (PPP) is commercial energy use measured in units of oil equivalent per \$1,000 of GDP converted from national currencies using purchasing power parity (PPP) conversion factors.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 9:** Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.

RATIONALE

The indicator provides a measure of energy intensity (it is the inverse of energy efficiency). Differences in this ratio over time and across countries reflect structural changes in the economy, changes in the energy efficiency of particular sectors and differences in fuel mixes. In principle, the lower the ratio, the better the energy efficiency.

METHOD OF COMPUTATION

Total commercial energy consumption is converted to metric ton oil equivalence using standard tables. GDP data must be converted using PPP tables so that real output is compared with real energy input. National total GDP is deflated (currently to 1995 US PPP dollars) by reference to PPP tables derived from the International Comparisons Program. Energy input is divided by GDP to derive the ratio.

DATA COLLECTION AND SOURCE

Energy consumption is calculated from national energy balance sheets. Real GDP comes from the national income accounts deflated by reference to PPP tables prepared by the International Comparisons Program. Traditional fuels, such as animal and vegetable waste, fuel wood and charcoal, are excluded.

PERIODICITY OF MEASUREMENT

Data are available annually.

DISAGGREGATION ISSUES

This is a relatively crude indicator and needs to be broken down by sector of industry to be interpreted.

COMMENTS AND LIMITATIONS

As the input is commercial energy, it should be compared with the output from that energy, deflated by the PPPs relevant to that output. Changes in the ratio over time are influenced almost as much by changes in the structure of the economy as by changes in sectoral energy intensities.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- International Energy Agency, www.IEA.ORG.
- World Development Indicators, annual, World Bank (www.worldbank.org/data).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.UN.ORG/ESA/SUSTDEV/NATLINFO/INDICA-TORS/ISD.HTM).
- Energy Balances of OECD Countries, annual, International Energy Agency.
- Energy Balances of Non-OECD Countries, annual, International Energy Agency.
- United Nations Statistics Division, UNSTATS.UN.ORG/UNSD.
- Concepts and Methods in Energy Statistics, with Special Reference to Energy Accounts and Balances: A Technical Report, 1982, United Nations, Series F. No. 29 and Corr. 1 (United Nations publication, Sales No. E.82.XVII.13 and corrigendum).
- Energy Statistics Definitions, Units of Measure and Conversion Factors, 1987, United Nations, Series F, No. 44 (United Nations publication, Sales No. E.86.XVII.21).
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic

Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).

Handbook of the International Comparison Programme Studies in Methods, 1992, United Nations, Series F, No. 62 (United Nations publication, Sales No. E.92.XVII.12).

AGENCIES

International Energy Agency. World Bank. United Nations Statistics Division.

28 CARBON DIOXIDE EMISSIONS (PER CAPITA) AND CONSUMPTION OF OZONE-DEPLETING CFCS (ODP TONS)

DEFINITION

Carbon dioxide emissions per capita is the total amount of carbon dioxide emitted by a country as a consequence of human (production and consumption) activities, divided by the population of the country. In the global carbon dioxide emission estimates of the Carbon Dioxide Information Analysis Center of Oak Ridge National Laboratory in the United States, the calculated country emissions of carbon dioxide include emissions from consumption of solid, liquid and gas fuels; cement production; and gas flaring. National reporting to the United Nations Framework Convention on Climate Change that follows the Intergovernmental Panel on Climate Change guidelines is based on national emission inventories and covers all sources of anthropogenic carbon dioxide emissions as well as carbon sinks (such as forests).

Consumption of ozone-depleting chlorofluorocarbons (CFCs) in tons (ozone-depleting potential) is the sum of the consumption of the weighted tons of the individual substances in the group—metric tons of the individual substance (defined in the Montreal Protocol on Substances That Deplete the Ozone Layer) multiplied by its ozone-depleting potential. Ozone-depleting substances are any substance containing chlorine or bromine that destroys the stratospheric ozone layer. The stratospheric ozone absorbs most of the biologically damaging ultraviolet radiation.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 9:** Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.

RATIONALE

The indicator signifies the commitment to reducing carbon dioxide emissions and progress in phasing out the consumption of CFCs by countries that have ratified the Montreal Protocol. Carbon dioxide emissions are largely a by-product of energy production and use. They account for the largest share of greenhouse gases associated with global warming.

The Vienna Convention for the Protection of the Ozone Layer (1985) and the Montreal Protocol (1987) are now recognized as having been successful in preventing the global environmental catastrophe that could have been caused by stratospheric ozone depletion. The Montreal Protocol aims to reduce and eventually eliminate the emissions of anthropogenic ozone-depleting substances by ceasing their production and consumption. The phasing out of ozone-depleting substances and their replacement with less harmful substances or new processes are aimed at the recovery of the ozone layer.

CFCs are considered most representative of the protocol's efforts towards phasing out the use of ozone-depleting substances because they were the first to be targeted for elimination.

METHOD OF COMPUTATION

Carbon dioxide emissions per capita are calculated by dividing carbon dioxide emissions by the number of people in the national population. The 1950-to-present carbon dioxide emission estimates are derived primarily from energy statistics published by the United Nations, using the methods of "Carbon Dioxide Emissions from Fossil Fuels: A Procedure for Estimation and Results for 1950–82". National reporting to the United Nations Framework Convention for Climate Change is based on the Intergovernmental Panel on Climate Change guidelines. Carbon dioxide emissions can be expressed in carbon dioxide or converted to carbon content.

The consumption of CFCs is the national production plus imports, minus exports, minus destroyed quantities, minus feedstock uses of individual CFCs. National annual consumption of CFCs is the sum of the weighted tons (consumption in metric tons multiplied by the estimated ozone-depleting potential) of the individual CFCs.

DATA COLLECTION AND SOURCE

National carbon dioxide emissions are estimated from detailed data on emission sources, using source-specific emission factors. Emission inventories are usually compiled by energy or environment ministries. Annex I Parties (developed countries) to the United Nations Framework Convention for Climate Change submit their data on greenhouse gas emissions to the organization's secretariat through an annual reporting format. Reporting of Non-Annex I Parties is voluntary and occasional. Where national emission inventories are absent, official sources are supplemented by other sources and estimates.

Estimation of the consumption of CFCs requires data on national production plus im-ports, minus exports, minus stocks destroyed. These can be derived from national production and international trade statistics.

PERIODICITY OF MEASUREMENT

Data are usually collected annually.

COMMENTS AND LIMITATIONS

For carbon dioxide emissions, trend data are more reliable than data comparisons between countries.

For ozone depletion, the indicator does not reveal much about current trends in deterioration of the ozone layer because of delays in ecosystem response.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- ► World Resource Institute, EARTHTRENDS.WRI.ORG.
- Carbon Dioxide Information Analysis Centre, CDIAC.ESD.ORNL.GOV,CDIAC.ORNL.GOV/TRENDS/EMIS /METH_REG.HTM AND GHG.UNFCCC.INT.
- "Carbon Dioxide Emissions from Fossil Fuels: A Procedure for Estimation and Results for 1950–82", 1984, G. Marland and R.M. Rotty, *Tellus*, 36(B): 232–61.
- United Nations Environment Programme, www.unep.org/ozone and www.unep.ch/ozone /15-year-Data-report.pdf.
- United Nations Framework Convention on Climate Change, www.UNFCCC.INT.
- World Meteorological Organization Intergovernmental Panel on Climate Change, www.IPCC.CH.
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.UN.ORG/ESA/SUSTDEV/ NATLINFO/INDICATORS/ISD.HTM).
- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
- Glossary of Environmental Statistics, 1996, United Nations, Series F, No. 67 (United Nations publication, Sales No. E.96.XVII.12).

AGENCIES

Carbon dioxide:

United Nations Framework Convention on Climate Change.

United Nations Statistics Division.

Chlorofluorocarbons:

United Nations Environment Programme, Ozone Secretariat.

29 PROPORTION OF THE POPULATION USING SOLID FUELS (DATA NOT YET AVAILABLE)

DEFINITION

Proportion of population using solid fuels is the proportion of the population that relies on biomass (wood, charcoal, crop residues and dung) and coal as the primary source of domestic energy for cooking and heating.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 9:** Integrate the principles of sustainable development into country policies and programmes and reverse the loss of environmental resources.

RATIONALE

Incomplete and inefficient combustion of solid fuels results in the emission of hundreds of compounds, many of which are healthdamaging pollutants or greenhouse gases that contribute to global climate change. There are also important linkages between household solid fuel use, indoor air pollution, deforestation and soil erosion and greenhouse gas emissions. Exposure to indoor air pollution is a complex phenomenon and depends on interactions of pollution source (fuel and stove type), pollution dispersion (housing and ventilation) and the time-activity budget of household members. The type of fuel and participation in cooking tasks have consistently been the most important predictors of exposure.

METHOD OF COMPUTATION

The indicator is computed as the ratio of households using one or more unprocessed solid fuels (dung and crop residues, wood, charcoal, and coal) for cooking and heating, to the total population, expressed as a percentage.

DATA COLLECTION AND SOURCE

Data can be derived from household surveys, such as Living Standard Measurement Surveys and Demographic and Health Surveys, and from population censuses. Standard questions for inclusion in all nationally representative household surveys have not been developed yet, and no internationally comparable data are available.

GENDER ISSUES

More than half the world's households cook with unprocessed solid fuels, exposing primarily women and children to indoor air pollution, which can result in serious health problems, such as acute respiratory diseases. In addition, women spend more time than men gathering fuel wood.

COMMENTS AND LIMITATIONS

Development of standard questions for inclusion in all nationally representative household surveys and censuses is needed to obtain data for calculating this indicator and allowing comparisons across countries.

Because the use of solid fuels affects both the environment and the population as a whole and the health status of those directly exposed, guidelines should clearly set definitions and measurement standards for what is intended by "exposure".

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- "Energy and Gender Equality", Gender and Development Briefing Notes, 2002, World Bank (www.worldbank.org/gender/resources /BRIEFING).
- Stakeholder Forum, www.earthsummit2002. ORG/ES/ISSUES/GENDER.
- Concepts and Methods in Energy Statistics, with Special Reference to Energy Accounts and Balances: A Technical Report, 1982, United Nations, Series F. No. 29 and Corr. 1 (United Nations publication, Sales No. E.82.XVII.13 and corrigendum).
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- Indoor Air Pollution in Developing Countries: A Major Environmental and Public Health Challenge, 2000, Bruce, Nigel, Rogelio Perez-Padilla and Rachel Albalak, Bulletin of the World Health Organization, 78 (9), 1078-1092, p.28.
- World Health Report 2002 Reducing Risks, Promoting Healthy Life, 2002, World Health Organization.

The World Health Organization has produced estimates of regional aggregates for this indicator. However, no country data series are available to allow comparison across countries or assessment of trends.

AGENCIES

National statistical offices. World Health Organization.

30 PROPORTION OF THE POPULATION WITH SUSTAINABLE ACCESS TO AN IMPROVED WATER SOURCE, URBAN AND RURAL

DEFINITION

The proportion of the population with sustainable access to an improved water source, urban and rural, is the percentage of the population who use any of the following types of water supply for drinking: piped water, public tap, borehole or pump, protected well, protected spring or rainwater. Improved water sources do not include vendor-provided waters, bottled water, tanker trucks or unprotected wells and springs.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 10:** Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation.

RATIONALE

The indicator monitors access to improved water sources based on the assumption that

improved sources are likely to provide safe water. Unsafe water is the direct cause of many diseases in developing countries.

METHOD OF COMPUTATION

The indicator is computed as the ratio is the number of people who use piped water, public tap, borehole or pump, protected well, protected spring or rainwater to the total population, expressed as a percentage. The same method applies for the urban and rural breakdown.

Access to safe water refers to the percentage of the population with reasonable access to an adequate supply of safe water in their dwelling or within a convenient distance of their dwelling. *Global Water Supply and Assessment Report 2000* defines *reasonable access* as "the availability of 20 litres per capita per day at a distance no longer than 1,000 metres". However, access and volume of drinking water are difficult to measure and so sources of drinking water that are thought to provide safe water are used as a proxy.

The United Nations Children's Fund (UNICEF) and the World Health Organization (WHO), through the Joint Monitoring Programme, assess trends in "access to improved drinking water sources" by drawing a regression line through the available household survey and census data for each country (details are available at http://www.childinfo.org). Regional and global estimates are aggregated from these national estimates using population-weighted averages.

DATA COLLECTION AND SOURCE

Since the late 1990s, data have routinely been collected at national and subnational levels in more than 100 countries using censuses and surveys by national governments, often with support from international development agencies. Two data sources are common: administrative or infrastructure data that report on new and existing facilities, and data from household surveys, including Multiple Indicator Cluster Surveys, Demographic and Health Surveys and Living Standard Measurement Surveys. Before these population-based data were available, providerbased data were used.

Evidence suggests that data from surveys are more reliable than administrative records and provide information on facilities actually used by the population.

PERIODICITY OF MEASUREMENT

Administrative data are often available annually. Household surveys are generally conducted every three to five years.

WHO and UNICEF annually compile international data and prepare regional and global estimates based on household survey data.

GENDER ISSUES

Women and men usually have different roles in water and sanitation activities. These differences are particularly pronounced in rural areas. Women are most often the users, providers and managers of water in rural households and the guardians of household hygiene. If a water system breaks down, women are more likely to be affected than men because they have to travel farther for water or use other means to meet the household's water and sanitation needs.

DISAGGREGATION ISSUES

The indicator should be monitored separately for urban and rural areas. Because of national differences in characteristics that distinguish urban from rural areas, the distinction between urban and rural population is not amenable to a single definition applicable to all countries. National definitions are most commonly based on size of locality, with rural population as the residual of population that is not considered urban.

COMMENTS AND LIMITATIONS

When data from administrative sources are used, they generally refer to existing sources, whether used or not. Despite official WHO definitions, the judgment about whether a water source is safe is often subjective. Also, the existence of a water supply does not necessarily mean that it is safe or that local people use it. For these and other reasons, household survey data are generally better than administrative data, since survey data are based on actual use of sources by the surveyed population rather than the simple existence of the sources.

While access is the most reasonable indicator for water supply, it still involves severe methodological and practical problems. Among them:

- The data are not routinely collected by "the sector" but by others outside the sector as part of more general surveys.
- Water quality is not systematically addressed.
- The timing of collection and analysis of household survey data is irregular, with long intervals between surveys.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- The State of the World's Children, annual, United Nations Children's Fund (www.unicef.org/PUBLICATIONS).
- Global Water Supply and Sanitation Assessment 2000 Report, 2000, World Health Organization and United Nations Children's Fund, pp.77-78. (www.who.int/water_sanitation_health/GLOBASSESSMENT).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.un.org/ESA/SUSTDEV/ NATLINFO/INDICA-TORS/ISD.HTM).
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- Toolkit on Gender in Water and Sanitation,

World Bank (www.worldbank.org/gender/ RESOURCES/WSTLKT4.PDF).

- Water, Sanitation and Gender Equality", Gender and Development Briefing Notes, 2003, World Bank (www.worldbank.org/gen-DER/RESOURCES/BRIEFING).
- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1).
- Demographic and Health Surveys, www.MEASUREDHS.COM.
- Living Standards Measurement Study, www.worldbank.com/Lsms.

AGENCIES

National statistical offices. United Nations Children's Fund. World Health Organization.

31 PROPORTION OF THE URBAN AND RURAL POPULATION WITH ACCESS TO IMPROVED SANITATION

DEFINITION

Proportion of the population with access to improved sanitation refers to the percentage of the population with access to facilities that hygienically separate human excreta from human, animal and insect contact. Facilities such as sewers or septic tanks, poor-flush latrines and simple pit or ventilated improved pit latrines are assumed to be adequate, provided that they are not public, according to the World Health Organization (WHO) and United Nations Children's Fund's (UNICEF) *Global Water Supply and Sanitation Assessment 2000 Report.* To be effective, facilities must be correctly constructed and properly maintained.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. **Target 10:** Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation.

RATIONALE

Good sanitation is important for urban and rural populations, but the risks are greater in urban areas where it is more difficult to avoid contact with waste.

METHOD OF COMPUTATION

The indicator is computed as the ratio of the number of people in urban or rural areas with access to improved excreta-disposal facilities to the total urban or rural population, expressed as a percentage.

DATA COLLECTION AND SOURCE

Since the late 1990s, data have routinely been collected at national and subnational levels in more than 100 countries using censuses and surveys by national governments, often with support from international development agencies. Two data sources are common: administrative or infrastructure data that report on new and existing facilities, and data from household surveys including Multiple Indicator Cluster Surveys, Demographic and Health Surveys and Living Standard Measurement Surveys. Before these population-based data were available, provider-based data were used.

Evidence suggests that data from surveys are more reliable than the administrative records and provide information on facilities actually used by the population.

Rural and urban population statistics come directly from population censuses.

PERIODICITY OF MEASUREMENT

Administrative data are often available annually. Household surveys are generally conducted every three to five years. The WHO and UNICEF annually compile international data and prepare regional and global estimates based on household survey data.

GENDER ISSUES

Women and men usually have different roles in water and sanitation activities. These dif-

ferences are particularly pronounced in rural areas. Women are most often the users, providers and managers of water in rural households and the guardians of household hygiene. If a water system breaks down, women are more likely to be affected than men because they have to travel further for water or use other means to meet the household's water and sanitation needs.

DISAGGREGATION ISSUES

The indicator should be monitored separately for urban and rural areas. Because of national differences in characteristics that distinguish urban from rural areas, the distinction between urban and rural population is not amenable to a single definition applicable to all countries. National definitions are most commonly based on size of locality, with rural population as the residual of population that is not considered urban.

COMMENTS AND LIMITATIONS

When data are from administrative sources, they generally refer to existing sanitation facilities, whether used or not. Household survey data are therefore generally better than administrative data, since survey data are based on actual use of facilities by the surveyed population rather than the simple existence of the facilities.

While access is the most reasonable indicator for sanitation facilities, it still involves severe methodological and practical problems. Among them:

- The data are not routinely collected by "the sector" but by others outside the sector as part of more general surveys.
- Facility quality is not systematically addressed.
- The timing of collection and analysis of household survey data is irregular, with long intervals between surveys.

The definition of *access to improved sanitation facilities* and methods for assessing it are even more contentious than those for water, with national definitions of "acceptable" sanitation varying widely.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Global Water Supply and Sanitation Assessment 2000 Report, World Health Organization and United Nations Children's Fund (www.who.int/water_Sanitation_Health /GLOBASSESSMENT).
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (www.UN.ORG/ESA/SUSTDEV/ NATLINFO/INDICATORS/ISD.HTM).
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- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1).
- United Nation's Children's Fund, www.child-INFO.ORG AND www.UNICEF.ORG.
- Demographic and Health Surveys, www.measuredhs.com.
- Living Standards Measurement Study, www.worldbank.com/Lsms.

AGENCIES

National statistical offices. United Nations Children's Fund. World Health Organization.

32 PROPORTION OF HOUSEHOLDS WITH ACCESS TO SECURE TENURE

DEFINITION

The proportion of households with access to secure tenure is 1 minus the percentage of the urban population that lives in slums. In the absence of data on number of slum dwellers, the United Nations Human Settlements Programme (UN-HABITAT) produces estimates based on a definition of slums as agreed by the Expert Group Meeting on Urban Indicators in 2002. These indicators will be adjusted and the definitions of secure tenure and slums will be refined through future consultations with Expert Group Meeting participants and their related networks of professionals.

Secure tenure refers to households that own or are purchasing their homes, are renting privately or are in social housing or subtenancy. Households without secure tenure are defined as *squatters* (whether or not they pay rent), the *homeless* and *households with no formal agreement*.

A *slum* household is defined by UN-HABITAT as a group of individuals living under the same roof that lack one or more (in some cities, two or more) of the following conditions: security of tenure, structural quality and durability of dwellings, access to safe water, access to sanitation facilities and sufficient living area.

GOAL/TARGET ADDRESSED

Goal 7: Ensure environmental sustainability. *Target 11:* By 2020, have achieved a significant improvement in the lives of at least 100 million slum dwellers.

RATIONALE

The indicator is intended to provide an overview of the share of urban population living in conditions of poverty and physical and environmental deprivation.

METHOD OF COMPUTATION

The indicator is computed as the 1 minus the ratio of the number of households in urban areas that lack one or more of the conditions listed under "Definition" to the number of urban households, expressed as a percentage.

DATA COLLECTION AND SOURCE

Data come mainly from household surveys such as Demographic and Health Surveys, Multiple Indicator Cluster Surveys and Joint Monitoring Programme questionnaires. In countries without such data from surveys, data can be derived from population and housing censuses, which usually include questions about housing tenure.

UN-HABITAT produces estimates of slum population based on these national sources for assessing regional and global trends.

PERIODICITY OF MEASUREMENT

Household surveys are generally conducted every three to five years. Censuses are conducted every 10 years.

GENDER ISSUES

For women (more than for men), housingbeyond basic shelter—also often functions as an important place of employment, social interaction, and a place to care for children. It may offer respite from social instability and violence. Discriminatory social and economic practices within and outside the household may result in women being excluded from many aspects of housing, including policy development, control over housing resources, rights of inheritance and ownership, community organizing or the construction of housing. This exclusion can threaten women's security of tenure by preventing women from owning, inheriting, leasing, renting or remaining in housing and land.

COMMENTS AND LIMITATIONS

Data are not yet generally available.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

 United Nations Human Settlements Programme,

WWW.UNHABITAT.ORG/CAMPAIGNS/TENURE.

 Expert Group Meeting on Urban Indicators, Secure Tenure, Slums and Global Sample of Cities, 2002, United Nations Human Settlements Programme

(WWW.UNHABITAT.ORG/PROGRAMMES/GUO).

- Resolution 2000/13, "Women's Equal Ownership of, Access to and Control over Land and the Equal Rights to Own Property and to Adequate Housing", Commission on Human Rights (www.UNHABITAT.ORG/PRO-GRAMMES/LANDTENURE).
- Women and Housing Rights, 2000, Center on Housing Rights and Evictions (WWW.COHRE.ORG/LBFRAME.HTM).
- Estimating Global Slum Dwellers Monitoring the Millennium Development Goal 7, Target 11, 2001, Harvey Herr and Guenter Karl, United Nations HABITAT working paper.

UN-HABITAT produces regional and global estimates of percentage of slum dwellers based on national data. No internationally comparable country data series are being produced yet.

AGENCY

United Nations Human Settlements Programme.

33 NET ODA, TOTAL AND TO LDCS, AS A PERCENTAGE OF OECD/DAC DONORS' GROSS NATIONAL INCOME.

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC.

Donors' gross national income (GNI) at market prices is the sum of gross primary incomes receivable by resident institutional units and sectors. GNI at market prices was called gross national product (GNP) in the 1953 System of National Accounts. In contrast to gross domestic product (GDP), GNI is a concept of income (primary income) rather than value added.

As agreed by the United Nations Economic and Social Council, the General Assembly, on the recommendation of the Committee for Development Policy, decides on the countries to be included in the list of *least developed* countries (LDCs). As of January 2003, they include Africa: Angola, Benin, Burkina Faso, Burundi, Cape Verde, Central African Republic, Chad, Comoros, D. R. of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Niger, Rwanda, Saõ Tomé and Principe, Senegal, Sierra Leone, Somalia, Sudan, Togo, Uganda, U.R. of Tanzania and Zambia; Asia and the Pacific: Afghanistan, Bangladesh, Bhutan, Cambodia, Kiribati, Lao P.D.R., Maldives, Myanmar, Nepal, Samoa, Solomon Islands, Tuvalu, Vanuatu and Yemen; Latin America and the Caribbean: Haiti.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally.

Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

Goal 8 addresses the way developed countries can assist developing countries to achieve the other seven goals through more development assistance, improved access to markets and debt relief. The 2002 Monterrey Conference on Financing for Development stimulated commitments from major donors to start to reverse the decline in official development assistance and focus more on poverty reduction, education and health to help countries realize the Millennium Development Goals.

METHOD OF COMPUTATION

GNI is equal to GDP (which at market prices represents the final result of the production activity of resident producer units) less primary incomes payable to non-resident units plus primary incomes receivable from nonresident units. In other words, GNI is equal to GDP less taxes (less subsidies) on production and imports, compensation of employees and property income payable to the rest of the world plus the corresponding items receivable from the rest of the world.

DATA COLLECTION AND SOURCE

Data are compiled by OECD/DAC.

PERIODICITY OF MEASUREMENT Annual.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oecd.org/Dac).
- International Development Statistics (CD-ROM), (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.OECD.ORG/DAC).
- United Nations, Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States, www.UN.ORG/SPECIAL-REP/OHRLLS/OHRLLS.
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).

AGENCY

Organisation for Economic Co-operation and Development/Development Assistance Committee.

34 PROPORTION OF TOTAL BILATERAL, SECTOR-ALLOCABLE ODA OF OECD/ DAC DONORS TO BASIC SOCIAL SERVICES (BASIC EDUCATION, PRI-MARY HEALTH CARE, NUTRITION, SAFE WATER AND SANITATION)

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/ Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC. *Bilateral official development assistance* is from one country to another.

Basic education comprises primary education, basic life skills for youth and adults and early childhood education. *Primary health care* includes basic health care, basic health infrastructure, basic nutrition, infectious disease control, health education and health personnel development. (For safe water and sanitation, see INDICATORS 30 and 31.)

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The World Summit on Social Development at Copenhagen in 1995 suggested the possibility of "mutual commitment between interested developed and developing country partners to allocate, on average, 20 percent of ODA and 20 percent of the national budget, respectively, to basic social programmes". These programmes comprise basic education, basic health, population and reproductive health programmes, and poverty-focused water and sanitation projects.

DATA COLLECTION AND SOURCE

Compiled by OECD/DAC.

PERIODICITY OF MEASUREMENT Annual.

COMMENTS AND LIMITATIONS

Aid to water supply and sanitation is defined as part of basic social services only if poverty focused.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oEcD.ORG/DAC).
- International Development Statistics (CD-ROM), (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/ Development Assistance Committee (www.OECD.ORG/DAC).

AGENCY

Organisation for Economic Co-operation and Development / Development Assistance Committee.

35 PROPORTION OF BILATERAL ODA OF OECD/DAC DONORS THAT IS UNTIED

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC. Bilateral official develop*ment assistance* is from one country to another.

Untied bilateral official development assistance is assistance from country to country for which the associated goods and services may be fully and freely procured in substantially all countries.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

Tying procurement from aid contracts to suppliers in the donor country reduces its costeffectiveness. Recognizing this, OECD/DAC member countries have raised the share of their aid that is untied. The share of untied aid to the least developed countries has risen relatively slowly, but the situation is likely to improve with the implementation of the new Recommendation on Untying Aid to the Least Developed Countries.

DATA COLLECTION AND SOURCE

Data are compiled by OECD/DAC.

PERIODICITY OF MEASUREMENT Annual.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oecd.org/dac).
- International Development Statistics (CD-ROM), (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.OECD.ORG/DAC).
- United Nations, Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States, www.UN.ORG/SPECIAL-REP/OHRLLS/OHRLLS.

AGENCY

Organisation for Economic Co-operation and Development / Development Assistance Committee.

36 ODA RECEIVED IN LANDLOCKED COUNTRIES AS PROPORTION OF THEIR GNIS

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC. Bilateral official development assistance is from one country to another.

Recipient countries' gross national income (GNI) at market prices is the sum of gross primary incomes receivable by resident institutional units and sectors. GNI at market prices was called gross national product (GNP) in the 1953 System of National Accounts. In contrast to gross domestic product (GDP), GNI is a concept of income (primary income) rather than value added.

Land-locked developing countries are: *Africa*: Botswana, Burkina Faso, Burundi, Central African Republic, Chad, Ethiopia, Lesotho, Malawi, Mali, Niger, Rwanda, Swaziland, Uganda, Zambia and Zimbabwe; *Asia and the Pacific*: Afghanistan, Azerbaijan, Bhutan, Kazakhstan, Kyrgyzstan, Lao PDR, Mongolia, Nepal, Tajikistan, Turkmenistan and Uzbekistan; *Europe*: FYR of Macedonia and Rep. of Moldova (expected from 2003); *Latin America and the Caribbean*: Bolivia and Paraguay.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The indicator addresses the special needs of landlocked countries to achieve their development goals.

DATA COLLECTION AND SOURCE

Data are compiled by OECD/DAC.

PERIODICITY OF MEASUREMENT Annual.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oecd.org/dac).
- International Development Statistics on CD-ROM, (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/ Development Assistance Committee (www.OECD.ORG/DAC).

- United Nations, Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States, WWW.UN.ORG/SPECIAL-REP/OHRLLS/OHRLLS.
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).

AGENCY

Organisation for Economic Co-operation and Development / Development Assistance Committee.

37 ODA RECEIVED IN SMALL ISLAND DEVELOPING STATES AS PROPOR-TION OF THEIR GNIS

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC. Bilateral official develop*ment assistance* is from one country to another.

Recipient countries' gross national income (GNI) at market prices is the sum of gross primary incomes receivable by resident institutional units and sectors. GNI at market prices was called gross national product (GNP) in the 1953 System of National Accounts. In contrast to gross domestic product (GDP), GNI is a concept of income (primary income) rather than value added.

Small island developing states are: Africa: Cape Verde, Comoros, Guinea-Bissau, Mauritius, Saõ Tomé and Principe, and Seychelles; Asia and the Pacific: Bahrain, Cook Islands, Fiji, Kiribati, Maldives, Marshall Islands, Federated States of Micronesia, Nauru, Niue, Palau, Papua New Guinea, Samoa, Singapore, Solomon Islands, Tokelau, Tonga, Tuvalu and Vanuatu; *Europe*: Cyprus and Malta; Latin America and the Caribbean: Antigua and Barbuda, Aruba, The Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, Netherlands Antilles, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, and U.S. Virgin Islands.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty- second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The indicator addresses the special needs of small island developing states. This group of countries has very diverse incomes per capita, ranging from least developed countries to high-income countries. The least developed countries need continued aid, which should be monitored closely.

DATA COLLECTION AND SOURCE

Data are compiled by OECD/DAC.

PERIODICITY OF MEASUREMENT Annual.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development/Development Assistance Committee (www.oecd.org/Dac).
- International Development Statistics on CD-ROM, (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/ Development Assistance Committee (www.OECD.ORG/DAC).
- United Nations, Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States, www.UN.ORG/SPECIAL-REP/OHRLLS/OHRLLS.
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).

AGENCY

Organisation for Economic Co-operation and Development / Development Assistance Committee.

38 PROPORTION OF TOTAL DEVELOPED COUNTRY IMPORTS (BY VALUE AND EXCLUDING ARMS) FROM DEVEL-OPING COUNTRIES AND LDCS ADMITTED FREE OF DUTIES

DEFINITION

Imports and imported value of goods (merchandise) are goods that add to the stock of material resources of a country by entering its economic territory. Goods simply being transported through a country (goods in transit) or temporarily admitted (except for goods for inward processing) do not add to the stock of material resources of a country and are not included in the international merchandise trade statistics. In many cases, a country's economic territory largely coincides with its customs territory, which is the territory in which the customs laws of a country apply in full.

Goods admitted free of duties are exports of goods (excluding arms) received from developing countries and admitted without tariffs to developed countries.

There is no established convention for the designation of *developed* and *developing* countries or areas in the United Nations system. In common practice, Japan in Asia, Canada and the United States in North America. Australia and New Zealand in Oceania and Europe are considered "developed" regions or areas. In international trade statistics, the Southern African Customs Union is also treated as a developed region and Israel as a developed country; countries emerging from the former Yugoslavia are treated as developing countries; and countries of eastern Europe and European countries of the former Soviet Union are not included under either developed or developing regions.

As agreed by the United Nations Economic and Social Council, the General Assembly, on the recommendation of the Committee for Development Policy, decides on the countries

to be included in the list of *least developed* countries (LDCs). As of January 2003, they include Africa: Angola, Benin, Burkina Faso, Burundi, Cape Verde, Central African Republic, Chad, Comoros, D. R. of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Niger, Rwanda, Saõ Tomé and Principe, Senegal, Sierra Leone, Somalia, Sudan, Togo, Uganda, U.R. of Tanzania and Zambia; Asia and the Pacific: Afghanistan, Bangladesh, Bhutan, Cambodia, Kiribati, Lao P.D.R., Maldives, Myanmar, Nepal, Samoa, Solomon Islands, Tuvalu, Vanuatu and Yemen; Latin America and the Caribbean: Haiti.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally.

Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The indicator monitors the international effort made to remove barriers to trade for develop-

ing countries, to encourage the achievement of the Millennium Development Goals. 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, therefore, could increase growth in these countries by a significant amount.

METHOD OF COMPUTATION

To value their exports, countries can choose free-on-board (f.o.b.) values, which include only the transaction value of the goods and the value of services performed to deliver goods to the border of the exporting country, or cost, insurance and freight (c.i.f.) values, which add to this the value of the services performed to deliver the goods from the border of the exporting country to the border of the importing country. It is recommended that imported goods be valued at c.i.f. prices for statistical purposes. Specific duties—not expressed as a proportion of the declared value—may or may not be included in calculations of goods admitted free of duties.

DATA COLLECTION AND SOURCE

This indicator is calculated by the United Nations Conference on Trade and Development in collaboration with the World Bank and the World Trade Organization, from the Trade Analysis and Information System (TRAINS) CD-ROM, version 8 (2002).

COMMENTS AND LIMITATIONS

Indicator data available only at the world level.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Trade Organization Database, Integrated Database
- Trade Analysis and Information System (CD-ROM), United Nations Conference on Trade and Development.
- International Merchandise Trade Statistics— Concepts and Definitions, series F, no. 52, rev. 2, United Nations (United Nations pub-

lication sales no. E.98.XVII.16, paras. 14 and 115-116), for import goods.

- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4), para. 7.66 for import duties.
- Country or Area Codes for Statistical Use, 1999, United Nations Statistics Division, series M, no. 49, rev. 4 (United Nations publication sales no. M.98.XVII.9) (UNSTATS.UN. ORG/UNSD/METHODS/M49/M49REGIN.HTM).
- United Nations, Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States, www.UN.ORG/SPECIAL-REP/OHRLLS/OHRLLS.
- International Merchandise Trade Statistics Concepts and Definitions, 1998, United Nations, Series F, No. 52, Rev.2 (United Nations publication, Sales No.E.98.XVII.16).
- Note provided to the United Nations Statistics Division, 9 October 2002, World Trade Organization.
- Harmonized Commodity Description and Coding Systems, Second Edition, 1996, World Customs Organization.

Data discrepancies across countries limit international comparison.

AGENCY

World Trade Organization.

39 AVERAGE TARIFFS IMPOSED BY DEVELOPED COUNTRIES ON AGRI-CULTURAL PRODUCTS AND CLOTH-ING FROM DEVELOPING COUNTRIES

DEFINITION

Average tariffs are the simple average of all applied ad valorem tariffs (tariffs based on the value of the import) applicable to the

bilateral imports of developed countries. *Agricultural products* comprise plant and animal products, including tree crops but excluding timber and fish products. *Clothing* and textiles include natural and synthetic fibers and fabrics and articles of clothing made from them.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The indicator monitors the international effort made to remove barriers to trade for developing countries in order to encourage the achievement of the Millennium Development Goals. 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, therefore, could increase growth in these countries by a significant amount.

METHOD OF COMPUTATION

To calculate average tariffs, each Harmonized System six-digit bilateral trade flow is given the same weight. The results for each developed country are then aggregated using the standard import pattern as the weighting scheme for all importers. The standard weighting scheme would be the average import structure of all developed markets for imports from least developed countries and from developing countries. The tariff rates used are the available ad valorem rates, including most-favored-nation and nonmost-favored-nation (largely preferential) rates. As it is not possible to convert non-ad valorem rates to ad valorem equivalents, all tariff lines with non-ad valorem rates are excluded from the calculation. This affects, in particular, agricultural products, where almost 25 percent of the Harmonized System six-digit product categories contain at least one non-ad valorem tariff line. Therefore the agricultural part of the indicator is excluded from the initial data set until an appropriate methodology for treating non-ad valorem tariffs is developed. (Note provided by World Trade Organization to the United Nations Statistics Division, 9 October 2002.)

DATA COLLECTION AND SOURCE

The indicator is calculated by the United Nations Conference on Trade and Development and the World Trade Organization in consultation with the World Bank from the Trade Analysis and Information System (TRAINS) CD-ROM, version 8 (2002). Organisation for Economic Co-operation and Development database, www.oEcD.org. Agricultural Market Access Database, www.AMAD.ORG.

COMMENTS AND LIMITATIONS

There are two types of average tariffs—simple average tariffs, which are used for goals monitoring, and the weighted average. Simple averages are frequently 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.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- World Trade Organization, www.wto.org, for average tariffs.
- Harmonized Commodity Description and Coding Systems, second edition (HS), 1996, World Customs Organization, for textiles and clothing.
- International Merchandise Trade Statistics Concepts and Definitions, 1998, United Nations, Series F, No. 52, Rev.2 (United Nations publication, Sales No.E.98.XVII.16).

Data discrepancies across countries limit international comparison.

AGENCY

World Trade Organization.

40 AGRICULTURAL SUPPORT ESTIMATE FOR OECD COUNTRIES AS A PER-CENTAGE OF THEIR GDP

DEFINITION

Agriculture support is the annual monetary value of all gross transfers from taxpayers and consumers, both domestic and foreign (in the form of subsidies 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.

For agricultural products, the total support estimate represents the overall taxpayer and consumer costs of agricultural policies. When expressed as a *percentage of GDP*, the total support estimate is an indicator of the cost to the economy as a whole.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development. Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. Target 13: Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

In penetrating foreign markets, developing countries also face not only tariffs but competition from products in developed countries that benefit from government subsidies. The challenge linked to the Doha Development Agenda is to further reduce production and trade-distorting support and implement policies that effectively address both domestic and international goals, while ensuring wellfunctioning markets.

METHOD OF COMPUTATION

The agricultural total support estimate includes support to individual farmers from trade barriers that keep domestic farm prices above those on world markets, budget-financed payments, input subsidies, consumer food subsidies and support to general services provided to the agricultural sector as a whole.

PERIODICITY OF MEASUREMENT Annual.

COMMENTS AND LIMITATIONS

Differences across countries in total support estimates as a percentage of GDP reflect the level of support and the share of agricultural output in the economy. Changes over time reflect changes in the level of support and in the share of agriculture in GDP, as well as the growth of the economy.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Agricultural Policies in OECD Countries: Monitoring and Evaluation, annual, Organisation for Economic Co-operation and Development.
- Organisation for Economic Co-operation and Development, PSE/CSE database (www.oecd.org/Agriculture).
- Agricultural Policies in Organization for Economic Co-operation and Development – Countries, Monitoring and Evaluation, annual, OECD.
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).

AGENCY

Organisation for Economic Co-operation and Development.

41 PROPORTION OF ODA PROVIDED TO HELP BUILD TRADE CAPACITY

DEFINITION

Official development assistance (ODA) comprises grants or loans to developing countries and territories on the Organisation for Economic Co-operation and Development/Development Assistance Committee (OECD/DAC) list of aid recipients that are undertaken by the official sector with promotion of economic development and welfare as the main objective and at concessional financial terms (if a loan, having a grant element of at least 25 percent). Technical cooperation is included. Grants, loans and credits for military purposes are excluded. Also excluded are aid to more advanced developing and transition countries as determined by the DAC.

Activities to help build trade capacity enhance the ability of the recipient country to:

- Formulate and implement a trade development strategy and create an enabling environment for increasing the volume and value-added of exports, diversifying export products and markets and increasing foreign investment to generate jobs and trade.
- Stimulate trade by domestic firms and encourage investment in trade-oriented industries.
- Participate in the benefit from the institutions, negotiations and processes that shape national trade policy and the rules and practices of international commerce.

These activities are further classified by the *First Joint WTO/OECD Report on Trade-Related Technical Assistance and Capacity Building* (2002) under two main categories, trade policy and regulations (divided into nineteen subcategories) and trade development (divided into six subcategories).

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. *Target 13:* Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

At Doha in 2001, donors committed to providing increased support to help developing countries, especially the least developed countries, build the capacity to trade and to integrate into world markets.

Data collected for this indicator will help monitor the following aspects of trade-related official development assistance:

- Transparency of trade-related technical assistance delivered.
- Exchange and sharing of information.
- Minimization and avoidance of duplication.
- Estimation of progress in the implementation of the Doha Mandates on technical cooperation and capacity building.
- Coordination and coherence.
- Achievement of the objectives mandated in paragraph 41 of the Doha Declaration.

METHOD OF COMPUTATION

See "Comments and limitations". DATA COLLECTION AND SOURCE

The World Trade Organization (WTO) and OECD have compiled the Doha Development Agenda Trade Capacity Building Database (TCBDB) that lists and quantify activities by bilateral and multilateral donors from 2001 onwards. The database lists both the number and the value of activities.

Data are reported from bilateral donors and multilateral and regional agencies that replied to the requests for information sent in May 2002 and April 2003 by the director-general of the WTO and the secretary-general of the OECD.

COMMENTS AND LIMITATIONS

Donors differ in defining what constitutes a single "activity". Some donors split individual activities into components in order to obtain detailed data on aid allocated to each subcategory. Others classify the whole activity under the most relevant subcategory. For some donors, the number of records in the database is larger than the actual number of activities. In the WTO/OECD Joint Report, the data are based on the actual number of activities.

There are also differences in the methodology used for reporting trade development activities among donors who replied to the requests for information. A number of donors isolated the trade components of each activity, whereas others reported the whole activity as trade related. The total amounts of trade-related technical assistance and capacity building per donor in this category should therefore be interpreted with caution.

The Joint Report also notes the necessity to refine the activity categories to better identify general trade development activities, such as trade fairs, trade information, publications or general export training. At present, most of these activities appear under "business support services and institutions".

These issues are being addressed in the first update to the data, with results online by August 2003.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Organisation for Economic Co-operation and Development, www.oecd.org/dac/trade/ tcb.htm.
- World Trade Organization, TCBDB.WTO.ORG.
- First Joint WTO/OECD Report on Trade-Related Technical Assistance and Capacity Building, 2002, World Trade Organization

and Organisation for Economic Co-operation and Development.

International Development Statistics (CD-ROM), (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development /Development Assistance Committee (www.OECD.ORG/DAC).

AGENCIES

Organisation for Economic Co-operation and Development. World Trade Organization.

42 TOTAL NUMBER OF COUNTRIES THAT HAVE REACHED THEIR HIPC DECISION POINTS AND NUMBER THAT HAVE REACHED THEIR COM-PLETION POINTS (CUMULATIVE)

DEFINITION

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 (IMF) and the World Bank commits to undertake additional reforms and to develop and implement a poverty reduction strategy.

HIPC completion point is the date at which the country successfully completes the key structural reforms agreed at the decision point, including the development and implementation of its poverty reduction strategy. The country then receives the bulk of debt relief under the HIPC initiative without any further policy conditions.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty

reduction—both nationally and internationally. *Target 13:* Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

A global partnership for development requires increased debt reduction for heavily indebted poor countries. The indicator will monitor the Heavily Indebted Poor Countries (HIPC) Initiative, a major international effort targeted specifically at improving developing countries' debt sustainability. Launched in 1996 and enhanced in 1999 to broaden and accelerate debt relief, the HIPC Initiative marked the first time that multilateral, official bilateral and commercial creditors united in a joint effort to reduce the external debt of the world's most debt-laden poor countries to sustainable levels.

METHOD OF COMPUTATION See "Definition".

DATA COLLECTION AND SOURCE

Information is compiled by the IMF and World Bank from their HIPC decision and completion point documents (see "References").

World Bank, www.worldbank.org/HIPC.

PERIODICITY OF MEASUREMENT Twice a year.

COMMENTS AND LIMITATIONS

The HIPC Initiative was launched in 1996. The earliest available data are for 2000 and the most recent available data are for 2002.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

International Monetary Fund, www.IMF.ORG and www.IMF.ORG/EXTERNAL/NP/EXR/FACTS/ HIPC.HTM.

AGENCIES

International Monetary Fund. World Bank.

43 DEBT RELIEF COMMITTED UNDER HIPC INITIATIVE, US\$

DEFINITION

Debt relief committed under HIPC initiative as a component of official development assistance has been recorded in different ways over time. Up through 1992, forgiveness of non-official development assistance debt that met the tests of official development assistance (ODA) was reportable as ODA. During 1990–92 it remained reportable as part of a country's ODA, but was excluded from the Development Assistance Committee (DAC) total. Since 1993, forgiveness of debt originally intended for military purposes has been reportable as "other official flows", while forgiveness of other non-ODA loans (mainly export credits) recorded as ODA has been included in both country data and total DAC ODA, as it was until 1989.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. *Target 13:* Address the special needs of the

least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twenty-second special session of the General Assembly).

Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

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METHOD OF COMPUTATION

See "Definition" and the OECD/DAC, Development Cooperation Report and International Development Statistics (CD-ROM) for notes on definitions.

DATA COLLECTION AND SOURCE

Information is compiled by the International Monetary Fund and the World Bank from their HIPC decision and completion point documents (see "References").

PERIODICITY OF MEASUREMENT Annual.

DISAGGREGATION ISSUES

Figures are available by country.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Development Cooperation Report, annual, Organisation for Economic Co-operation and Development / Development Assistance Committee (www.oEcD.ORG/DAC).
- International Development Statistics (CD-ROM), (technical notes, glossary and table of aid recipients), annual, Organisation for Economic Co-operation and Development/ Development Assistance Committee (www.OECD.ORG/DAC).
- International Monetary Fund, www.imf.org and www.imf.org/external/np/exr/facts/ HIPC.HTM.
- World Bank, www.worldbank.org/HIPC.
- World Development Indicators, annual, World Bank (www.worldbank.org/data).

AGENCIES

International Monetary Fund. World Bank.

44 DEBT SERVICE AS A PERCENTAGE OF EXPORTS OF GOODS AND SERVICES

DEFINITION

External debt service refers to principal repayments and interest payments made to nonresidents in foreign currency, goods or services. *Long-term* refers to debt that has an original or extended maturity of more than one year.

Exports of goods and services comprise sales, barter or gifts or grants of goods and services from residents to non-residents. Where exports of goods are valued f.o.b., the costs of transportation and insurance up to the border of the exporting country are included in exports of goods. Other transactions involving a mixture of goods and services, such as expenditures by foreign travellers in the domestic market, may all have to be recorded under services in the rest of the world account.

Export receipts along with worker remittances received from abroad provide the foreign exchange proceeds for meeting external debt service obligations.

GOAL/TARGETS ADDRESSED

Goal 8: Develop a global partnership for development.

Target 12: Develop further an open, rule-based, predictable, non-discriminatory trading and financial system. Includes a commitment to good governance, development and poverty reduction—both nationally and internationally. *Target 13:* Address the special needs of the least developed countries. Includes: tariff and quota-free access for least developed countries' exports; enhanced programme of debt relief for HIPCs and cancellation of official bilateral debt; and more generous ODA for countries committed to poverty reduction.

Target 14: Address the special needs of landlocked countries and small island developing States (through the Programme of Action for the Sustainable Development of Small Island Developing States and the outcome of the twentysecond special session of the General Assembly). Target 15: Deal comprehensively with the debt problems of developing countries through national and international measures in order to make debt sustainable in the long term.

RATIONALE

The targets on debt relief also address the need to make debt sustainable in the long term. The indicator is one measure of whether debt levels are sustainable.

METHOD OF COMPUTATION

The indicator is calculated as the ratio of external debt service to exports of goods and services, expressed as a percentage.

DATA COLLECTION AND SOURCE

The World Bank collects data on indicators of finance, published annually in Global Development Finance.

PERIODICITY OF MEASUREMENT Annual.

COMMENTS AND LIMITATIONS

Small, open economies may have relatively high levels of exports (and imports) and yet may face problems in meeting debt service obligations, particularly when debt service payments due on public debt are high relative to government revenue. A large economy may have proportionately smaller exports and still find its dept payments sustainable. For this reason, it is useful to look at other indicators, such as the ratio of total debt to gross national income, the size of international reserves relative to total debt and debt maturing within a year's time, in forming a picture of debt sustainability.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Global Development Finance, vol. 2, Country Tables, annual, World Bank
- Systems of National Accounts 1993 (SNA 1993), 1994, United Nations, Commission of the European Communities, International Monetary Fund, Organisation for Economic Coordination and Development and World Bank, Series F, No.2, Rev. 4 (United Nations publication Sales No. E.94.XVII.4).
- International Merchandise Trade Statistics Concepts and Definitions, 1998, United Nations, Series F, No. 52, Rev.2 (United Nations publication, Sales No.E.98.XVII.16).
- ► World Bank, www.worldbank.org/HIPC.
- International Monetary Fund, ww.imf.org/external/np/exr/facts/hipc.htm.

AGENCIES

International Monetary Fund. World Bank.

45 UNEMPLOYMENT OF 15-24 YEAR-OLDS, EACH SEX AND TOTAL

DEFINITION

Unemployment of 15–24 year-olds is the number of unemployed people ages 15–24 divided by the labour force of the same age group.

Unemployed people are all those who are not employed during a specified reference period but are available for work and have taken concrete steps to seek paid employment or self-employment. In situations where the conventional means of seeking work are of limited relevance, where the labour market is largely unorganized or of limited scope, where labour absorption is temporarily inadequate or where the labour force is largely selfemployed, a relaxed definition of unemployment can be applied, based on only the first two criteria (without work and currently available for work).

The *labour force* consists of those who are employed plus those who are unemployed during the relevant reference period. It is the economically active portion of the population. *Employment* refers to being engaged in an economic activity during a specified reference period or being temporarily absent from such an activity, while *economic activity* refers to the production of goods and services for pay or profit or for use by own household.

GOAL/TARGET ADDRESSED

Goal 8: Develop a global partnership for development.

Target 16: In co-operation with developing countries, develop and implement strategies for decent and productive work for youth.

RATIONALE

The indicator monitors the degree to which the youth labour force is utilized in the economy and therefore serves as a measure of the success of strategies to create jobs for youth.

METHOD OF COMPUTATION

The number of people ages 15–24 who are unemployed is divided by the number of people in the labour force of the same age group.

DATA COLLECTION AND SOURCE

Country data are available from Labour Force Surveys, administrative records, official national estimates and population censuses. Labour Force Surveys generally provide the most comprehensive and comparable source of information. Concepts and definitions adopted for data collection in Labour Force Surveys also generally conform to International Labour Organization resolutions and recommendations, such as the International Conference of Labour Statisticians resolution on international standards for unemployment and youth unemployment.

PERIODICITY OF MEASUREMENT

Results from population censuses are normally available every 10 years. Labour Force Surveys may be available annually or even more frequently in OECD countries and generally every three to five years in developing countries

GENDER ISSUES

Female unemployment rates are often significantly higher than male unemployment rates. However, unemployment data do not adequately reflect the situation of women in the labour market, especially in developing countries where women are engaged in subsistence work and, more often than men, work in the informal sector. In those settings, women are seldom employed, although they may often be underemployed. Also, women may not have easy access to formal channels for seeking employment, particularly in rural areas, and often face social and cultural barriers when looking for a job. Thus official labour statistics may undercount women's unemployment (unless the relaxed definition of unemployment is used and adequate criteria are adopted in data collection).

DISAGGREGATION ISSUES

In most countries, data are available separately for men and women.

INTERNATIONAL DATA COMPILATIONS

ILO compiles internationally comparable data series on unemployment and youth unemployment.

- ▶ *ILO Bulletin of Labour Statistics*, 2002–4, International Labour Organization.
- Key Indicators of the Labour Market, annual, International Labour Organization (www.ilo.org/kilm).

COMMENTS AND LIMITATIONS

The concepts of *employment* and *unemployment* have different relevance depending on the level of labour market development and the presence of a market economy. People living in regions of a country where there is little or no formal employment would not usually be classified as "unemployed" even if they are without work and would accept a job if offered one (discouraged workers).

Unemployment is but one dimension of the employment problem faced by young people. A disproportionately large number of youth in many countries are underemployed. Some work fewer hours than they would like to, and others work long hours with little economic gain. Stagnation and decline of employment opportunities in the formal sector of most developing countries have intensified the problem in recent years, with young women bearing a disproportionate share of the burden. Therefore, indicators measuring underemploy-ment, the informal sector, educational access and labour force participation, among others, should supplement the information obtained from the youth unemployment indicator.

Limitations to comparability arise from various reasons, including different sources, measurement methodologies, number of observations per year and coverage. Comparability may also be limited by conceptual variations, involving issues such as the definition of job search or whether to include discouraged workers who are not currently looking for work.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- International Labour Organization, Bureau of Statistics, www.ILO.ORG/STAT.
- Current International Recommendations on Labour Statistics, 2000, International Labour Organization.
- Key Indicators of the Labour Market, annual, International Labour Organization (www.ILO.ORG/KILM).
- Surveys of Economically Active Population, Employment, Unemployment and Underemployment: An ILO Manual on Concepts and Methods, 1990, R. Hussmanns, T Mehran and V. Verma.
- Collection of Economic Characteristics in Population Censuses, Technical Report, 2002, United Nations Statistics Division and the International Labour Organization Bureau of Statistics, (ST/ESA/STAT/119).
- ► World Development Indicators, annual, World Bank (www.worldBank.org/data).
- Yearbook of Labour Statistics, annual, International Labour Organization, tables 3A-3E.
- Organisation for Economic Co-operation and Development, standardized unemployment rates.

AGENCIES

Ministries of labour. National statistical offices. International Labour Organization.

46 PROPORTION OF POPULATION WITH ACCESS TO AFFORDABLE, ESSENTIAL DRUGS ON A SUSTAINABLE BASIS

DEFINITION

The proportion of population with access to affordable, essential drugs on a sustainable *basis* is the percentage of the population that has access to a minimum of 20 most essential drugs. Access is defined as having drugs continuously available and affordable at public or private health facilities or drug outlets that are within one hour's walk of the population. Essential drugs are drugs that satisfy the health care needs of the majority of the population. The World Health Organization (WHO) has developed the Model List of Essential Drugs, which is regularly updated through widespread consultations with member states and other partners. Progress in access to essential medicines is thus the result of combined effort by governments, strategic partners such as United Nations agencies, public-private partnerships, non-government organizations and professional associations. (WHO Expert Committee on Essential Drugs, November 1999.)

GOAL/TARGET ADDRESSED

Goal 8: Develop a global partnership for development.

Target 17: In co-operation with pharmaceutical companies, provide access to affordable, essential drugs in developing countries.

RATIONALE

Millions of people die prematurely or suffer unnecessarily each year from diseases or conditions for which effective medicines or vaccines exist. Essential drugs save lives and improve health, but their potential can only be realized if they are accessible, rationally used and of good quality.

METHOD OF COMPUTATION

WHO regularly monitors access to a minimum of 20 most essential drugs.

DATA COLLECTION AND SOURCE

The WHO Action Programme on Essential Drugs periodically interviews experts in each country about the pharmaceutical situation, asking them to rate access by the population to essential drugs at less than 50 percent, 50–80 percent, 80–95 percent or more than 95 percent. (WHO Expert Committee on Essential Drugs, November 1999.)

PERIODICITY OF MEASUREMENT

National data series are currently available for 1995 and 1997. Regional aggregates are currently available for 1987 and 1999.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Progress of WHO Member States in Developing National Drug Policies and in Revising Essential Drugs Lists, 1998, World Health Organization (WHO/DAP/98.7), p.12.
- Model List of Essential Drugs, 1997, World Health Organization (www.who.int).

WHO produces country data series and regional aggregates.

AGENCIES

Ministries of health. World Health Organization.

47 TELEPHONE LINES AND CELLULAR SUBSCRIBERS PER 100 POPULATION

DEFINITION

Telephone lines refer to the number of telephone lines connecting subscribers' terminal equipment to the public switched network and that have a dedicated port in the telephone exchange equipment.

Cellular subscribers refers to users of cellular telephones who subscribe to an automatic public mobile telephone service that provides access to the public switched telephone network using cellular technology.

GOAL/TARGET ADDRESSED

Goal 8: Develop a global partnership for development.

Target 18: In co-operation with the private sector, make available the benefits of new technologies, especially information and communication.

RATIONALE

This indicator and indicator 48 are important tools for monitoring progress towards Goal 8, because effective communication between those involved in the development process is not possible without the necessary infrastructure. Personal computers and telephones allow people to exchange experiences and learn from each other, enabling higher returns on investment and avoiding problems of duplication or missing information. The use of information and communication technologies can make governments more transparent, thereby reducing corruption and leading to better governance. It can help people in rural areas find out about market prices and sell their products at a better price. It can also overcome traditional barriers to better education by making books available online and opening the door to e-learning.

METHOD OF COMPUTATION

Total telephone lines (see "DEFINITION") are divided by the population and multiplied by 100. Total cellular subscribers (see "DEFINITION") are divided by the population and multiplied by 100.

DATA COLLECTION AND SOURCE

Data on telephone lines and cellular subscribers are collected through annual questionnaires that the International Telecommunication Union (TCU) sends to government telecommunication agencies. The questionnaire is supplemented by annual reports of industry organizations to cross-check accuracy and to obtain data for countries that do not reply to the questionnaire.

PERIODICITY OF MEASUREMENT Annual.

COMMENTS AND LIMITATIONS

Data for telephone lines come from administrative records compiled by national regulatory authorities or telecommunication operators and tend to be timely and complete. However, there are comparability issues for mobile subscribers because of the prevalence of pre-paid subscriptions. This arises from differences in the time period chosen for determining when a pre-paid subscription is considered no longer active.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Yearbook of Statistics, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT).
- World Telecommunication Indicators Database, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT).

AGENCY

International Telecommunication Union.

48A PERSONAL COMPUTERS IN USE PER 100 POPULATION

DEFINITION

Personal computers (PCs) are computers designed to be operated by a single user at a time.

GOAL/TARGET ADDRESSED

Goal 8: Develop a global partnership for development.

Target 18: In cooperation with the private sector, make available the benefits of new technologies, especially information and communication technologies.

RATIONALE

This indicator and indicator 47 are important tools for monitoring progress towards Goal 8, because effective communication between those involved in the development process is not possible without the necessary infrastructure. Personal computers and telephone lines allow people to exchange experiences and learn from each other, enabling higher returns on investment and avoiding problems of duplication or missing information. The use of information and communication technologies can make governments more transparent, thereby reducing corruption and leading to better governance. It can help people in rural areas find out about market prices and sell their products at a better price. It can also overcome traditional barriers to better education by making books available online and opening the door to e-learning.

METHOD OF COMPUTATION

The total number of PCs in a country is divided by the population and multiplied by 100.

DATA COLLECTION AND SOURCE

Data are based largely on responses to a questionnaire that the International Telecommunication Union sends to government telecommunication agencies. In the absence of data from countries, the number of PCs is estimated using industry sales data or PC imports data.

DISAGGREGATION ISSUES

Data for PCs come from administrative and operational records that do not disaggregate the data.

PERIODICITY OF MEASUREMENT

Annual.

COMMENTS AND LIMITATIONS

Very few countries have a precise measure of the number of PCs. For some small developing economies, neither sales nor import data are available. PC data are quite recent, so long time series exist only for developed countries and major developing countries.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

 Yearbook of Statistics, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT). World Telecommunication Indicators Database, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT).

AGENCY

International Telecommunication Union.

48B INTERNET USERS PER 100 POPULATION

DEFINITION

The *Internet* is a linked global network of computers in which users at one computer, if they have permission, get information from other computers in the network.

GOAL/TARGET ADDRESSED

Goal 8: Develop a global partnership for development.

Target 18: In cooperation with the private sector, make available the benefits of new technologies, especially information and communication technologies.

RATIONALE

This indicator and indicator 47 are important tools for monitoring progress towards Goal 8, because effective communication between those involved in the development process is not possible without the necessary infrastructure. Personal computers and telephone lines allow people to exchange experiences and learn from each other, enabling higher returns on investment and avoiding problems of duplication or missing information. The use of information and communication technologies can make governments more transparent, thereby reducing corruption and leading to better governance. It can help people in rural areas find out about market prices and sell their products at a better price. It can also overcome traditional barriers to better education by making books available online and opening the door to e-learning.

METHOD OF COMPUTATION

The total number of Internet users is divided by population and multiplied by 100.

DATA COLLECTION AND SOURCE

Internet user statistics are based largely on responses to an annual questionnaire that the International Telecommunication Union (ITU) sends to government telecommunication agencies. For most developed and larger developing countries, Internet user data are based on methodologically sound user surveys conducted by national statistical agencies or industry associations. These data are either provided directly to the ITU by each country, or the ITU does the necessary research to obtain the data. For countries where Internet user surveys are not available, the ITU uses average multipliers to estimate the number of users per subscriber.

GENDER ISSUES

Surveys have been conducted by some countries providing a breakdown between male and female Internet users. These surveys indicate that more men than women use the Internet. Because the availability of gender-disaggregated statistics for this indicator are limited, however, little is known about use by gender.

DISAGGREGATION ISSUES

Internet user data can be disaggregated by gender, age, frequency of use, household income, location of access and other variables. However, this information is available only for a limited number of countries that collect data on information and communication technology use in household surveys.

PERIODICITY OF MEASUREMENT

Annual.

COMMENTS AND LIMITATIONS

The quality of the Internet user data varies, and the quality of data for smaller developing countries is uncertain. The data can also be misleading because of multiple prepaid Internet accounts, free Internet access accounts or public Internet access such as Internet cafés.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Yearbook of Statistics, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT).
- World Telecommunication Indicators Database, annual, International Telecommunication Union (www.ITU.INT/ITU-D/ICT).

AGENCY

International Telecommunication Union.

ANNEX 1

Additional Socioeconomic Common Country Assessment (CCA) Indicators.

CCA PROPORTION OF CHILDREN UNDER 15 WHO ARE WORKING

DEFINITION

Proportion of children under 15 who are working refers to children who are employed in an economic activity for pay, profit or family gain. *Economic activity* covers the production of goods and services for pay or profit or for use by own household. *Employed* means being engaged in an economic activity during a specified reference period or being temporarily absent from such an activity.

GOAL ADDRESSED

Goal: Reduce child labour *Target:* Elimination of child labour (World Summit on Sustainable Development 1995)

RATIONALE

The indicator monitors the degree to which the youth labour force is utilized in the economy and therefore serves as a measure of the success of strategies to create jobs for youth.

METHOD OF COMPUTATION

The number of children who are employed is divided by the number of children of the same age group in the population.

DATA COLLECTION AND SOURCES

Data come from population censuses, Labour Force Surveys, special child labour surveys, Multiple Indicator Cluster Surveys (WWW.CHILD-INFO.ORG), Demographic and Health Surveys (WWW.measuredhs.com), Living Standards Measurement Study surveys (WWW.WORLD-BANK.ORG/LSMS) and Core Welfare Indicators Questionnaire surveys (WWW4.WORLDBANK.ORG/ AFR/STATS/CWIQ.CFM).

PERIODICITY OF MEASUREMENT

Results from population censuses are normally available every 10 years. Labour Force Surveys may be available annually or more frequently in developed countries, but are generally available every three to five years in developing countries. The other surveys are produced only occasionally.

GENDER ISSUES

The available data indicate that boys are more likely to be economically active than girls. Girls are more often engaged in household services.

COMMENTS AND LIMITATIONS

Reliable estimates of child labour are difficult to obtain. In many countries child labour is assumed not to exist and therefore is excluded from official statistics. Some estimates cover only children ages 10–14. Others cover children ages 5–14. Still others cover different age ranges.

Not all work is harmful to a child's development. The International Labour Organization has addressed this, for example, by differentiating acceptable work from unacceptable labour. The United Nations Children's Fund also sometimes distinguishes between different types of work and different ages of children.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Current International Recommendations on Labour Statistics, 2000, International Labour Organization.
- Surveys of Economically Active Population, Employment, Unemployment and Underemployment: An ILO Manual on Concepts and Methods, 1990, R. Hussmanns, T Mehran and V. Verma.
- Collection of Economic Characteristics in Population Censuses, Technical Report, 2002, United Nations Statistics Division and the International Labour Organization Bureau of Statistics, (ST/ESA/STAT/119).
- International Labour Organization, Bureau of Statistics, www.ILO.ORG/STAT.

- Every Child Counts: New Global Estimates on Child Labour, 2002, International Labour Organization.
- International Labour Organization, Statistical Information and Monitoring Programme on Child Labour, www.ILO.ORG/CHILD/LABOUR.
- United Nations Children's Fund, www.child-INFO.ORG AND WWW.UNICEF.ORG.
- World Development Indicators, annual, World Bank, notes to table 2.3 (www.world-BANK.ORG/DATA).
- Yearbook of Labour Statistics, annual, International Labour Organization (LABORS-TA.ILO.ORG).

AGENCIES

International Labor Organization. United Nation's Children's Fund.

CCA 30 EMPLOYMENT TO POPULATION OF 30 WORKING AGE RATIO

DEFINITION

Population of working age covers people ages 15–64. *Employment* is defined according to international definitions and refers to being engaged in an economic activity during a specified reference period, or being temporarily absent from such an activity. *Economic activity* covers all production of goods and services for pay or profit or for use by own household.

Working age is usually determined on the basis of national circumstances such as the age at which most children have completed compulsory education and the age at which any general old age pension system can be claimed. The United Nations recommends that population census tabulations on the employed distinguish those 15 years and older from those younger than 15 years old.

GOAL/TARGET ADDRESSED

Goal: Creation of full employment. *Target:* Universal access to paid employment (World Summit on Sustainable Development 1995).

METHOD OF COMPUTATION

The number of people who are employed is divided by the total number of people in the selected age interval for working age, generally 15–64.

DATA COLLECTION AND SOURCE

Data are collected through population censuses, Labour Force Surveys and official national estimates.

PERIODICITY OF MEASUREMENT

Results from population censuses are normally available every 10 years. Labour Force Surveys may be available annually or more frequently in developed countries, but are generally available every three to five years in developing countries. The other surveys are produced occasionally.

GENDER ISSUES

Male employment rates are generally higher than female employment rates. Female employment rates are often underestimated because many economic activities in which women dominate are not recorded as employment. This may influence the international comparability of employment rates.

COMMENTS AND LIMITATIONS

Measuring employment is more straightforward where labour markets are well developed and a large proportion of the population gains its livelihood from a market economy.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- United Nations Statistics Division, UNSTATS.UN.ORG/UNSD/METHODS.HTM.
- International Labour Organization, Bureau of Statistics, www.ilco.org/stat/.
- Current International Recommendations on Labour Statistics, 2000, International Labour Organization.
- Surveys of Economically Active Population, Employment, Unemployment and Underemployment: An ILO Manual on Concepts

and Methods, 1990, R. Hussmanns, T. Mehran and V. Verma.

- Collection of Economic Characteristics in Population Censuses, United Nations Statistics Division and the International Labour Organization Bureau of Statistics, Technical Report, 2002, (ST/ESA/STAT/119).
- Yearbook of Labour Statistics, annual, International Labour Organization (LABORS-TA.ILO.ORG).
- World Development Indicators, annual, World Bank, tables 2.3 and 2.4 (www.world-BANK.ORG/DATA).

AGENCY

International Labour Organization.



DEFINITION

Unemployment covers all people who, during a specified reference period, are not employed, are available for work and have taken concrete steps to seek paid employment or selfemployment during a recent period. *The labour force* consists of those who are employed plus those who are unemployed during the relevant reference period. *Employed* means being engaged in an economic activity during a specified reference period or being temporarily absent from such an activity. *Economic activity* refers to all production of goods and services for pay or profit or for use by own household.

GOAL/TARGET ADDRESSED

Goal: Creation of full employment. *Target:* Universal access to paid employment (World Summit on Sustainable Development 1995).

METHOD OF COMPUTATION

The number of people who are unemployed is divided by the number of people in the labour force.

DATA COLLECTION AND SOURCE

Data are collected from population censuses, Labour Force Surveys, Demographic and Health Surveys (www.MEASUREDHS.COM), Living Standards Measurement Study surveys (www.worLD-BANK.ORG/LSMS) and Core Welfare Indicators Questionnaire surveys (www4.worLDBANK.ORG/ AFR/STATS/CWIQ.CFM).

PERIODICITY OF MEASUREMENT

Results from population censuses are normally available every 10 years. Labour Force Surveys may be available annually or more frequently in developed countries, but are generally available every three to five years in developing countries. The other surveys are produced only occasionally.

GENDER ISSUES

Female unemployment rates are often significantly higher than male unemployment rates.

COMMENTS AND LIMITATIONS

The concepts of *employment* and *unemployment* have different relevance depending on the level of labour market development and the presence of a market economy. People living in regions of a country where there is little or no formal employment would not usually be classified as "unemployed" even if they are without work and would accept a job if offered one (discouraged workers). Unemployment estimates can also understate problems in labour markets when people are discouraged from seeking work because jobs are scarce or nonexistent.

Only household surveys can give reliable estimates according to the international definition. Employment services and unemployment compensation schemes that are well developed (such as in OECD countries) can derive reliable unemployment estimates from records of unemployment registration or from national insurance records.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- Labour Organization, Bureau of Statistics, www.ilo.org/stat/.
- Current International Recommendations on Labour Statistics, 2000, International Labour Organization.
- Surveys of Economically Active Population, Employment, Unemployment and Underemployment: An ILO Manual on Concepts and Methods, 1990, R. Hussmanns, T Mehran and V. Verma.
- Collection of Economic Characteristics in Population Censuses, United Nations Statistics Division and the International Labour Organization Bureau of Statistics, Technical Report, 2002, (ST/ESA/STAT/119).
- World Development Indicators, annual, World Bank, table 2.5 (www.worldbank.org/data).
- Yearbook of Labour Statistics, annual, International Labour Organization, tables 3A-3E (LABORSTA.ILO.ORG).

AGENCY

International Labour Organization.

CCA INFORMAL SECTOR EMPLOYMENT AS A PERCENTAGE OF EMPLOYMENT

DEFINITION

Informal sector employment includes all people who, during a given reference period, were employed in at least one informal sector enterprise, irrespective of their status in employment (employer, own-account worker, contributing family worker, employee or member of a producers cooperative) or whether it was their main or second job.

Informal sector enterprises are defined by the following criteria: they are household unincorporated enterprises (excluding quasi-corporations) as defined by the System of National Accounts 1993; they produce at least some of their goods or services for sale or barter; they

are engaged in non-agricultural activities (including secondary non-agricultural activities of enterprises in the agricultural sector); and their size (in number of employees) is below a specified threshold, determined according to national circumstances, or they are not registered under specific forms of national legislation (such as commercial acts, tax or social security laws, professional groups, regulatory acts, or similar acts, laws or regulations established by national legislative bodies), or none of their employees is registered. Households producing domestic or personal services in employing paid domestic employees may be included.

Employed means being engaged in an economic activity during a specified reference period or being temporarily absent from such an activity. *Economic activity* refers to all production of goods and services for pay or profit or for use by own household

GOAL/TARGET ADDRESSED

Goal: Creation of full employment. *Target:* Universal access to paid employment (World Summit on Sustainable Development 1995)

METHOD OF COMPUTATION

The number of people classified as employed in the informal sector in their main or second jobs is divided by the total number of people employed in the same geographic areas, branches of economic activity, age group or other defining characteristic.

DATA COLLECTION AND SOURCES

Data are collected through informal sector surveys, Labour Force Surveys and Multiple Indicator Cluster Surveys.

PERIODICITY OF MEASUREMENT

Informal sector surveys are generally carried out ad hoc, often with intervals of five or more years. Labour force surveys tend to be conducted more frequently, generally every three to five years in developing countries.

GENDER ISSUES

There are large gender-specific differences in informal sector employment in most countries.

INTERNATIONAL DATA COMPARISONS

Major limitations on the international comparability of data result from the inclusion or exclusion of agricultural activities from the scope of the informal sector, the inclusion or exclusion of informal sector activities undertaken as second jobs, differences in the geographic coverage of informal sector surveys and similar factors.

 Key Indicators of the Labour Market, International Organization of Labour, table 7 (www.iLo.org/kiLm).

COMMENTS AND LIMITATIONS

Statistics on employment in the informal sector tend to be available only for developing countries and transition countries, where the informal sector plays a significant role in employment and income generation. Informal employment outside informal sector enterprises is not covered by the enterprise-based definition of the informal sector. Although there are international standards, definitions may vary among countries.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- International Labour Organization, Bureau of Statistics, www.ILO.ORG/STAT.
- Current International Recommendations on Labour Statistics, 2000, International Labour Organization.
- United Nations Children's Fund, www.child-INFO.ORG.

AGENCY

International Labour Organization.

CCA AVERAGE FLOOR AREA PER PERSON

DEFINITION

Number of persons per room, or average floor area per person is a measure of crowding. *Number of persons per room* is the number of rooms in the living quarters of a household per person in the household. *Average floor area* (in square metres) *per person* is the median usable floor area per person.

The *number of rooms* excludes kitchens, bathrooms, toilets, verandas, rooms used for business and rooms let to tenants.

Floor area includes kitchens, bathrooms, internal corridors and closets. Covered, semiprivate spaces such as corridors, inner courtyards or verandas are included in the floor area if they are used for cooking, eating, sleeping or other domestic activities.

GOAL ADDRESSED

Goal: Adequate shelter for all.

Target: Provision of sufficient living space and avoidance of overcrowding (Second United Nations Conference on Human Settlements, 1996).

RATIONALE

Crowding, or housing density, is a key measure of housing quality. The three most commonly used measures of crowding are persons per room, floor area per person and households per dwelling unit. Surveys have shown that floor area per person is the more precise and more policy sensitive of the three.

METHOD OF COMPUTATION

The number of persons per room is calculated by dividing the number of people who live in the household by the total number of rooms they occupy. A low indicator denotes low crowding (density).

The area per person is calculated by dividing the floor area in square metres by the number

of people in the household. A low indicator denotes high crowding (density).

DATA COLLECTION AND SOURCE

The data are mainly collected from population censuses and from household surveys such as Living Standards Measurement Study surveys (www.worldbank.org/LSMS), Multiple Indicator Cluster Surveys (www.childinFo.org), Demographic and Health Surveys (www.measuredhs.com) and Core Welfare Indicators Questionnaire surveys (WWW4.WORLDBANK.ORG/AFR/STATS/CWIQ.CFM).

GENDER ISSUES

In many countries, households headed by women are more crowded than those headed by men.

PERIODICITY OF MEASUREMENT

Population censuses are every 10 years or less. Household surveys are generally conducted every three to five years.

COMMENTS AND LIMITATIONS

Data on these two indicators were collected during the first phase of the joint United Nations Centre for Human Settlements–World Bank Housing Indicators Programme (1992). Results vary considerably when collected in different areas: urban, rural and national. Informal settlements and disadvantaged groups tend to have less space. Housing size and housing quality are not always linked, for economic and cultural reasons. Floor area is preferred for accuracy and sensitivity to policy, but some censuses and surveys collect only number of rooms.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- United Nations Human Settlements Programme, WWW.UNHABITAT.ORG and WWW.UNHABITAT.ORG/MDG.
- Indicators of Sustainable Development: Guidelines and Methodologies, 2001, United Nations Division for Sustainable Development (WWW.UN.ORG/ESA/SUSTDEV/NATLINFO/INDICA-TORS/ISD.HTM).

- Human Settlement Interventions: Addressing Crowding and Health Issues, 1995, United Nations Centre for Human Settlements (HS/374/95/E).
- Compendium of Human Settlements Statistics, 1995, United Nations (sales no. E.95.XVII.11) (www.earthscan.co.uk/cities/ CONTENTS.HTM).
- World Development Indicators, annual, World Bank, table 3.11 (www.worldbank. ORG/DATA).
- Urban Observatory, HTTP://www.URBANOBSER-VATORY.ORG/PROGRAMMES/GUO.

AGENCY

United Nations Human Settlements Programme.



CCA NUMBER OF INTENTIONAL HOMI-**43** CIDES PER 100,000 INHABITANTS

DEFINITION

Homicide is defined by the United Nations Interregional Crime and Justice Research Institute as the killing of any human being by the act, procurement or omission of another. (The term *murder* is usually applied to unlawful and premeditated homicide.)

GOAL/TARGET ADDRESSED

Goal: Improve crime prevention.

Target: Eliminate/significantly reduce violence and crime (United Nations Congress on the Prevention of Crime and Treatment of Offenders 1995).

METHOD OF COMPUTATION

The indicator is calculated as the ratio of number of the intentional homicides to the total population multiplied by 100,000.

DATA COLLECTION AND SOURCE

Crime data, including homicide data, are derived mainly from the administration records of criminal justice ministries. Population data come from censuses.

GENDER ISSUES

Women commit fewer crimes than do men generally, including homicide. They are also less often the victims of homicide.

PERIODICITY OF MEASUREMENT

Administrative data on crimes are normally available annually. Census data are usually collected every 10 years.

COMMENTS AND LIMITATIONS

Because crime data are dependent on national definitions and reporting procedures, they are often not comparable internationally.

More comparable and more consistent data are derived from household crime victim surveys, but such surveys are not universal and are often taken only in capital cities.

REFERENCES AND INTERNATIONAL DATA COMPARISONS

- United Nations Interregional Crime and Justice Research Institute, www.unicri.it/ HTML/THES.HTM and www.UNICRI.it/icvs.
- United Nations Criminal Justice Information Network, www.uncjin.org.
- United Nations Office on Drugs and Crime, www.odccp.org/odccp/crime_cicp_sitemap.html.

AGENCY

United Nations Office for Drug Control and Crime Prevention.

United Nations Interregional Crime and Justice Research Institute.

ANNEX 2

Household surveys and other national data sources

This annex discusses Multiple Indicator Cluster Surveys, Demographic and Health Surveys, Living Standards Measurement Studies, Core Welfare Indicators Questionnaire Surveys in Africa, Household Budget Surveys, Labour Force Surveys, household surveys with an institutional component, censuses of population and housing, other surveys and administrative data.

All household surveys and censuses provide data by gender and age and by many other classifying variables. TABLE A2.1 at the end of this annex shows the topics covered by the Multiple Indicator Cluster Surveys, Demographic and Health Surveys, Living Standards Measurement Studies and Core Welfare Indicators Questionnaire Surveys in Africa.

MULTIPLE INDICATOR CLUSTER SURVEY

To provide recent data for assessing progress towards the 1990 World Summit for Children goals, the United Nation's Children's Fund developed the Multiple Indicator Cluster Surveys (MICS) in 1994 to obtain data on a small subset of the goals. Experience from this work was used in developing a revised and expanded MICS (known as MICS2) for assessing progress at end-decade. These surveys were conducted in 66 countries during 1999– 2001, primarily by national government ministries with support from a variety of partners.

The main subjects of MICS2 are health and education; TABLE A2.1 shows which indicators are likely to be included. MICS2 is modular and so the surveys may not be identical. More information can be found at HTTP://WWW.CHILDINFO.ORG.

DEMOGRAPHIC AND HEALTH SURVEY

Demographic and Health Surveys (DHS) are sponsored by the US Agency for International Development and undertaken by Macro International. They began in 1984 as successors to the International Statistical Institute World Fertility Surveys. They are now in their fourth series of surveys. The abbreviated name was changed in 1997 to DHS+. They have been undertaken in over 60 countries. Some countries have had only one DHS, but others have had several. Most surveys are addressed to about 5,000 households.

Most questions refer to demography and to health including nutrition, but they also include other topics such as education. Table A2.1 shows the indicators likely to be covered by the DHS. More information can be found at WWW.MEASUREDHS.COM.

LIVING STANDARDS MEASUREMENT STUDY

The first Living Standards Measurement Study (LSMS) surveys were launched by the World Bank in Côte d'Ivoire and Peru in 1985. Since then there have been about 40 surveys in 25 countries. They have been sponsored by various donors including the World Bank, US Agency for International Development and by other countries.

Although the first few LSMS surveys followed a similar format, they have varied considerably since then. There are standard LSMS modules, but they are often omitted. The organization of the fieldwork also varies. Most are one-off sample surveys, but a fourwave panel was also undertaken in the Kagera region of Tanzania.

TABLE A2.1 shows the indicators likely to be covered by the LSMS. More information can be found at HTTP://www.worLDBANK.ORG/LSMS.

CORE WELFARE INDICATORS QUESTIONNAIRE SURVEYS IN AFRICA

The Core Welfare Indicators Questionnaire (CWIQ) survey is relatively new. Developed by

the World Bank, it was piloted in Kenya in 1996 and in Ghana in 1997. The questionnaires are relatively short (about eight sides), but other modules may be added. The surveys are intended to be annual and to have samples of 5,000 to 15,000 households. The CWIQ is designed to complement other surveys as part of a national monitoring package. It is intended to contribute to statistical capacity building in developing countries. The results are intended to be available within a few weeks of data collection.

TABLE A2.1 shows the indicators likely to be covered by the CWIQ. More information can be found at HTTP://www4.woRLDBANK.ORG/AFR/ STATS/CWIQ.CFM.

HOUSEHOLD BUDGET SURVEYS

Household Budget Surveys (HBS) are intended for various purposes, including measurement of poverty and of household consumption of goods and services for weighting consumer prices. Their value as sources of other data derive from the inclusion of a variety of questions among basic or general variables. This provides the possibility of cross-classifying them against many other variables, including income and urban or rural location as well as all the common classifiers such as age and gender.

HBSs are complex and expensive, and so are not conducted very frequently in developing countries. They are undertaken often enough (perhaps every five years or so) in many countries to provide fairly up-to-date and fairly frequent data, however.

The Income Consumption and Expenditure Survey (ICES) in Zimbabwe is an example of an HBS. The 2001 survey is the most recent, and there have been ICESs in Zimbabwe approximately every five years since 1985.

LABOUR FORCE SURVEYS

Labour Force Surveys (LFS) have become widespread in industrialized countries, but are more rare in developing countries. They

are intended to provide information on employment and unemployment, but they also frequently seek information on education, training and may include other variables. They occasionally include questions on income from employment. For reasons of efficiency, they generally cover the non-institutional population. In developing countries they are often undertaken only in urban areas

SURVEYS WITH AN INSTITUTIONAL COMPONENT

Some household surveys are also accompanied by surveys addressed to local institutions, including schools and hospitals. The Zimbabwe Sentinel Surveillance Survey, for example, includes institutional components addressed to schools and to health establishments. Thus they are able to provide data on facilities serving households.

CENSUSES OF POPULATION AND HOUSING

A population census is the primary source of information about the number of people in a country and the characteristics of the population. Several features distinguish it from the survey-based sources of data. It can achieve complete coverage of the population. It offers possibilities for relating individual characteristics of the population with those of households. It provides details about subnational population groups. Because of its high cost it has the disadvantage of being able to provide data only once every 10 years, or sometimes less, and the questionnaires have to be relatively short.

The census is the unique basic source of benchmark demographic data, such as number of people by age and gender. Demographic data are used as denominators for ratios of all kinds, on school enrolment for example, and many other Common Country Assessment and Millennium Development Goals indicators. But population estimates have to be updated between censuses, and national methods and standards can differ. Many international agencies use UN estimates of population as denominators for ratios in order to be consistent between countries. But the UN population estimates are often different from the national estimates, mainly (but not always) because of international standardization, and they are revised every two years.

Censuses are also sometimes used as sampling frames for sample surveys.

GOOD REFERENCES ARE:

- Population and Housing Censuses: Strategies for Reducing Costs, 2002, United Nations Population Fund, available at: HTTP://WWW.UNFPA.ORG/UPLOAD/LIB_PUB_ FILE/ 24 FILENAME POPHOUSINGCENSUS.PDF.
- Counting the People: Constraining Census Costs and Assessing Alternative Approaches, 2003, United Nations Population Fund, available at: http://www.unFPA.org/UPLOAD/ LIB_PUB_FILE/184_FILENAME_POPDEV-STRAT-7.PDF.
- Principles and Recommendations for Population and Housing Censuses, Revision 1, 1998, United Nations, Series M, No. 67, Rev.1 (United Nations publication, Sales No.E.98.XVII.1).

OTHER SURVEYS

There are also many household surveys of variable frequency, or ad hoc, that are either general in their purpose or have a limited range of purposes. There are special surveys on particular topics, such as some limited aspect of health.

Some of the survey programmes pertinent to the data for Common Country Assessment and Millennium Development Goals indicators, in addition to those mentioned above, are:

- HIV/AIDS, various epidemiological surveys (Joint UN Programme on HIV/AIDS)
- Tuberculosis / DOTS (notification programme); Roll Back Malaria (World Health Organization)
- Pilot surveys in selected countries to test/improve methodologies of data collection on labour force (International Labour Organization)
- Child Labour Survey (International Labour

Organization)

- Informal Sector Surveys (International Labour Organization)
- Pilot surveys in selected countries to test/improve methodologies of data collection on nutrition (Food and Agriculture Organization)
- Pilot small-scale studies on education/literacy (United Nations Educational, Scientific and Cultural Organization)
- Access to PCs and the Internet (International Telecommunication Union)
- Secure tenure and slum improvement (United Nations Human Settlements Program)

ADMINISTRATIVE SOURCES

The most commonly used sources of data for education, and often for health, are administrative sources—data derived from the administration of education or health. Unemployment data are also frequently derived from administrative registrations of employment offices. The data are made available by ministries and sometimes by national statistical offices. Data on births and deaths are also frequently drawn from administrative sources, usually vital statistics registration systems.

Administrative sources can potentially provide data for very small areas. Their disadvantages include bias, application of national standards and definitions and non-response. For vital statistics, such as births and deaths, and for many other indicators, the data often do not exist or are seriously incomplete. TABLE A2.1: (*NEXT PAGE*) COMPARISON OF INDICATOR COVER-AGE OF FOUR SURVEY TYPES

NOTES

- a. The Multiple Indicator Cluster Survey (MICS) is made up of modules, and not all modules were used in all countries. This column is based on the full questionnaire using all modules.
- b. For monitoring country poverty trends, indicators based on national poverty lines should be used, where available.
- c. The first two indicators in this cell require in addition the calculation of a national PPP, which in turn is derived from an internationally coordinated price collection conducted by the International Comparison Program.
- d. National data are provided by the Food and Agriculture Organization based on a statistical modeling technique.
- e. All surveys collect school attendance, rather than enrolment. However, it could be argued that this has greater policy relevance at the national level. Enrolment rates in international reporting are based on administrative records.
- f. As in previous note, the ratio is of attendance rates, not enrolment rates.
- g. Amongst contraceptive methods, only condoms are effective in preventing HIV transmission. The contraceptive prevalence rate is also useful in tracking progress in other health, gender and poverty goals. Because the condom use rate is only measured amongst 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).
- h. Prevention can be measured by the percentage of children under five sleeping under insecticide treated bednets. Treatment can be measured by the percentage of children under five who are appropriately treated.
- i. For children under-five only.
- j. All surveys measure access to improved source, but do not assess whether it is sustainable.
- k. Surveys typically ask about type of dwelling and tenure. This may not explicitly address the issue of how secure is, say, a rental agreement, but this could be covered in the future.

GOALS	LSMS	DHS	C W I Q	MICS ^a
GOAL 1: ERADICATE EXTREME POVERTY AND HUNGER				
Proportion of population below \$1 per day ^b	•c			
Poverty gap ratio [incidence x depth of poverty]	•			
Share of poorest quintile in national consumption	•			
Prevalence of underweight children under five years of age	•	•	•	•
Proportion of population below minimum level of dietary energy consumption ^d				
GOAL 2: ACHIEVE UNIVERSAL PRIMARY EDUCATION				
Net enrolment ratio in primary education ^e	(•)	(•)	(•)	(•)
Proportion of pupils starting grade 1 who reach grade 5	•	•	•	•
Literacy rate of 15-24 year-olds	•	•	•	•
GOAL 3: PROMOTE GENDER EQUALITY AND EMPOWER WOMEN				
Ratio of girls to boys in primary, secondary and tertiary education ^f	(•)	(•)	(•)	(•)
Ratio of literate women to men 15–24 year-olds				
Share of women in wage employment in the non-agricultural sector	•	•	•	•
Proportion of seats held by women in national parliament	•		•	
GOAL 4: REDUCE CHILD MORTALITY				
Under-five mortality rate				•
Infant mortality rate				
Proportion of 1 year-old children immunised against measles				
GOAL 5: IMPROVE MATERNAL HEALTH				
Maternal mortality ratio				•
Proportion of births attended by skilled health personnel				
GOAL 6: COMBAT HIV/AIDS, MALARIA AND OTHER DISEASES				
HIV prevalence among 15–24 year-old pregnant women				
Contraceptive prevalence rate ⁸ [Does not match indicator]				•
Number of children orphaned by HIV/AIDS [Does not match indicator]				
Prevalence and death rates associated with malaria				"i
Proportion of population in malaria risk areas using effective malaria prevention and treatment measures ^h				
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				
Proportion of land area covered by forest				
Ratio of land area protected to maintain biological diversity to surface area				
Energy use (kg oil equivalent) per \$1 GDP (PPP)				
Carbon dioxide emissions (per capita) and consumption of ozone-depleting CFCs (ODP tons)				
Proportion of population with sustainable access to an improved water source, urban and rural ^j	•	•	•	•
Proportion of urban and rural population with access to improved sanitation	•	•	•	•
Proportion of households with access to secure tenure	(•) ^k			

ANNEX 3

Web sites

(see also references in the metadata sheets)

- UN Millennium Development Goals main site www.un.org/millenniumgoals
- United Nations Statistics Division, Millennium Development Goals indicators UNSTATS.UN.ORG/UNSD/MI/MI_GOALS.ASP MILLEN-NIUMINDICATORS.UN.ORG/UNSD/MI/MI_GOALS.ASP
- United Nations Statistics Division UNSTATS.UN.ORG/UNSD
- World Bank Millennium Development Goals main Site www.developmentgoals.org
- Organisation for Economic Co-operation and Development draft methodology sheets for the International Development Goals indicators www1.oecd.org/Dac/INDICATORS/ PDF/METHOD.PDF
- Core Welfare Indicators Questionnaire (CWIQ) surveys
 - WWW4.WORLDBANK.ORG/AFR/STATS/CWIQ.CFM
- Demographic and Health Surveys www.measuredhs.com
- Food and Agriculture Organization WWW.FAO.ORG
- International Labour Organization www.ilco.org/stat
- World Health Organization/United Nations Environmental Programme Intergovernmental Panel on Climate Change www.IPCC.CH
- IUCN–World Conservation Union
 www.iucn.org
- Living Standards Measurement Study (LSMS)
 www.worldbank.org/LSMS
- Multiple Indicator Cluster Surveys (MICS)
 www.childinFo.org/mics2 and www.uniceF.org
- Organisation for Economic Co-operation and Development/Development Assistance Committee www1.oecd.org/Dac/INDICATORS
- United Nations Development Group ESA.UN.ORG/TECHCOOP/UNSYSTEM.ASP
- Human Development Report, annual, United Nations Development Programme www.UNDP.ORG
- United Nations Environment Programme (UNEP) www.unep.org

- ► UNEP Land www.unep.org/themes/land
- United Nations Educational, Scientific and Cultural Organization (UNESCO)
 WWW.UNESCO.ORG
- UNESCO Institute of Statistics
 www.uis.unesco.org
- United Nations Children's Fund.
 www.unicef.org and www.childinFo.org
- United Nations Framework Convention on Climate Change www.UNFCCC.INT
- United Nations Population Fund
 www.unFPA.org
- United Nations Human Settlements Programme www.unhabitat.org and www.unhabitat.org/campaigns/tenure/intro-DUCTION.ASP
- Cities in a Globalizing World, www.earthscan.co.uk/cities/contents.htm
- United Nations Interregional Crime and Justice Research Institute www.unicri.it
- World Conservation Monitoring Centre Protected Area Data Unit www.wcmc.org. UK/ DATA/DATABASE/UN_COMBO.HTML
- World Health Organization Yearbook, www3.who.int/whosisTerminology,www.who. int/terminology/ter
- Joint UN Programme on HIV/AIDS www.unaids.org/HIVAIDSINFO
- World Health Organization directly observed treatment short course (for tuberculosis)
 www.who.int/gtb/dots
- Stop TB Partnership www.stoptb.org
- World Bank www.worldbank.org/data
- World Development Indicators, annual, World Bank www.worldBank.org/DATA
- World Resources Institute EARTHTRENDS.WRI.ORG
- ▶ Biosphere reserves, www.unesco.org/mab
- Heritage sites, www.unesco.org/whc
- ▶ Wetlands, RAMSAR.ORG/SITELIST.PDF

ANNEX 4

World summits and conferences

International Conference on Primary Health Care "Health for All", Almaty 1978

The World Education Forum on Education for All, Jomtien 1990,

World Summit for Children, New York 1990

International Conference on Nutrition, Rome 1992

United Nations Conference on Environment and Development, Rio de Janeiro 1992

World Conference on Human Rights, Vienna 1993

Global Conference on the Sustainable Development of Small Island Developing States (SIDS), Bridgetown 1994

International Conference on Population and Development, Cairo 1994

Fourth World Conference on Women, Beijing 1995

Ninth Congress on the Prevention of Crime and Treatment of Offenders, Cairo 1995

World Conference on Women, Beijing 1995

World Summit for Social Development, Copenhagen 1995

Second United Nations Conference on Human Settlements, Istanbul 1996

World Food Summit, Rome 1996

First World Conference of Ministers Responsible for Youth, Lisbon 1998 General Assembly Twentieth Special Session on the World Drug Problem, New York 1998

Global Conference on the Sustainable Development of Small Island Developing States (SIDS), New York 1999

Tenth United Nations Congress on the Prevention of Crime and the Treatment of Offenders, Vienna 2000

The World Education Forum on Education for All, Dakar 2000

World Summit for Social Development, Geneva 2000

World Summit on Sustainable Development, Johannesburg 2002



United Nations