Human Right to Water, Drinkingwater Policy Framework and Health Aspects

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Conference on Water Law Reforms and the Right to Water

IELRC - SOAS

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Outline

Health rationale and the Right to Water

WHO, Right to Health, Right to Water

Technical issues on health and RtW

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Health rationale and the Right to Water

WHO, Right to Health, Right to Water

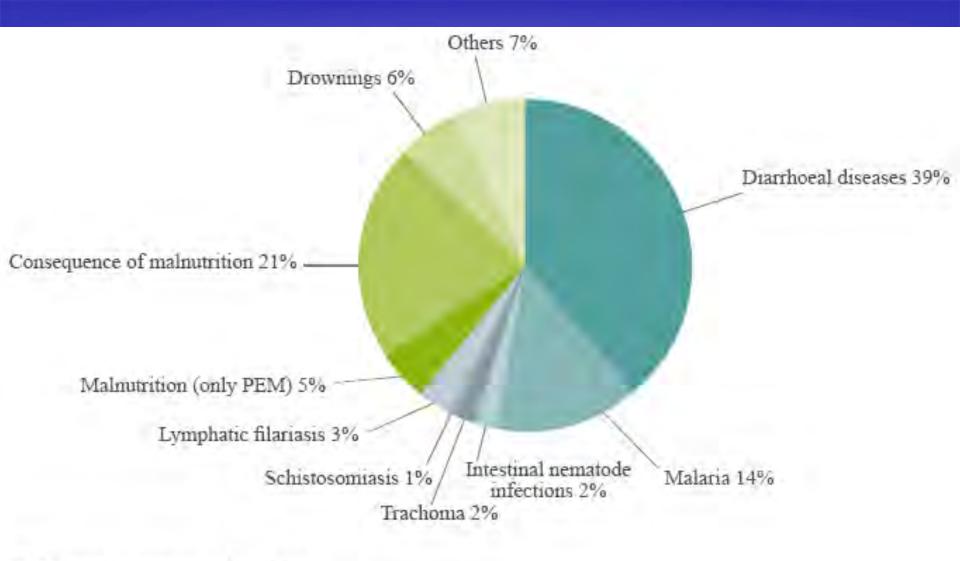
Technical issues on health and RtW

2008 Report: Safer Water, Better Health

Q: How much disease could be prevented by better managing water, sanitation and health?

A: 10%

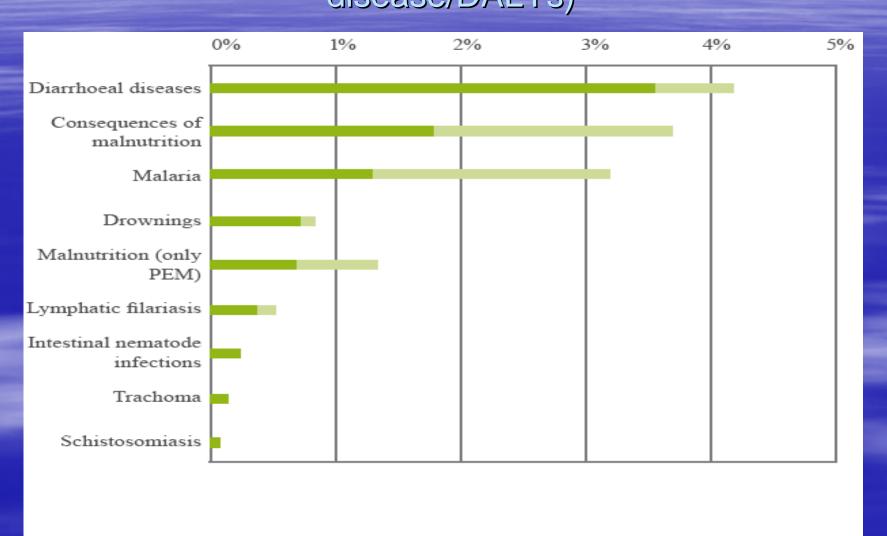
➤ "Almost one tenth of the global disease burden could be prevented by improving water supply, sanitation, hygiene and management of water resources"



PEM: protein-energy malnutrition

^a In disability-adjusted life years, or DALYs.

Diseases with largest WSH contribution (2002, fraction of global burden of disease/DALYs)



Non-environmental fraction

Environmental fraction

Distribution of WSH burden

- 38% of all WSH deaths occur in children under age 5
- Improved WSH could reduce child mortality by 28%

Annual cost of not dealing with water and sanitation

Lives lost

1.6 million annually due to diarrhoea alone

Health care costs:

- USD7 billion per year to health agencies
- USD340 million to individuals

Value of time lost

USD 63 billion per year



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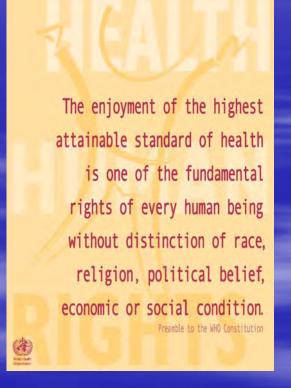
Technical issues on health and RtW

UN & WHO commitment to health-related human rights

- UN Charter (1945)
 - Member States of the United Nations set forth human rights as one of the United Nations' key purposes (Art. 1(3))

WHO Constitution (1946)

 WHO Member States recognized "the enjoyment of the highest attainable standard of health" as "one of the fundamental rights of every human being without distinction of race, religion, political belief, economic or social condition" (Preamble)



What is the right to health?

...does not mean the right to be healthy...

 ...is a claim to a set of social arrangements – norms, institutions, laws, an enabling environment – that can best secure the enjoyment of this right... "httisen of the right enT"





The legal bases of the right to water

- Right to an adequate standard of living, including...
- Right to life & human dignity
- Right to health
- Right to housing
- Right to food

Outline

- Health rationale and the Right to Water
- WHO, Right to Health, Right to Water
- Technical issues on health and RtW
 - 'access'
 - 'sufficient'
 - 'equity'

General Comment 15 on the Right to Water:

- The human right to water entitles everyone to sufficient, safe, acceptable, physically accessible and affordable water for personal and domestic uses."
- An adequate amount of safe water is necessary to prevent death from dehydration, to reduce the risk of water-related disease and to provide for consumption, cooking, personal and domestic hygiene requirements.

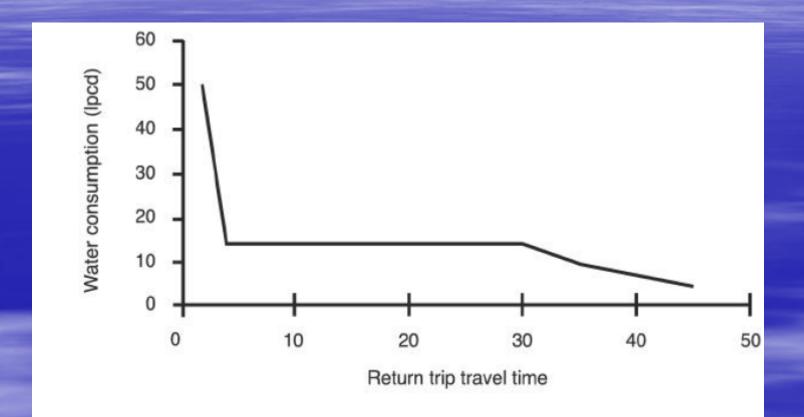


Figure 2.2: Graph of travel time (in minutes) versus consumption (taken from WELL, 1998)

Table S1: Summary of requirement for water service level to promote health

| Service level | Access measure | Needs met | Level of health concern |
|---------------------|-----------------------|---------------------------------------|----------------------------|
| No access (quantity | More than 1000m or | Consumption – cannot be assured | Very high |
| collected often | 30 minutes total | Hygiene – not possible (unless | |
| below 5 1/c/d) | collection time | practised at source) | |
| Basic access | Between 100 and | Consumption – should be assured | High |
| (average quantity | 1000m or 5 to 30 | Hygiene – handwashing and basic food | |
| unlikely to exceed | minutes total | hygiene possible; laundry/ | |
| 20 1/c/d) | collection time | bathing difficult to assure unless | |
| | | carried out at source | |
| Intermediate access | Water delivered | Consumption – assured | Low |
| (average quantity | through one tap on- | Hygiene – all basic personal and food | |
| about 50 1/c/d) | plot (or within 100m | hygiene assured; laundry and bathing | |
| | or 5 minutes total | should also be assured | |
| | collection time | | |
| Optimal access | Water supplied | Consumption – all needs met | Very low |
| (average quantity | through multiple taps | Hygiene – all needs should be met | |
| 100 1/c/d and | continuously | | |
| above) | | | |

WHO/UNICEF 'JMP'

Millennium Development Goals:

 Goal 7, Target 10: "Halving, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation."



WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP)

Mandated by UN to monitor progress towards MDG 7 Target 7c:

- Halve, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation
- Through national data sources:
 - National censuses
 - Household sample surveys (DHS, MICS, WHS, LSMS, CWIQ etc.)
- Using Indicators:

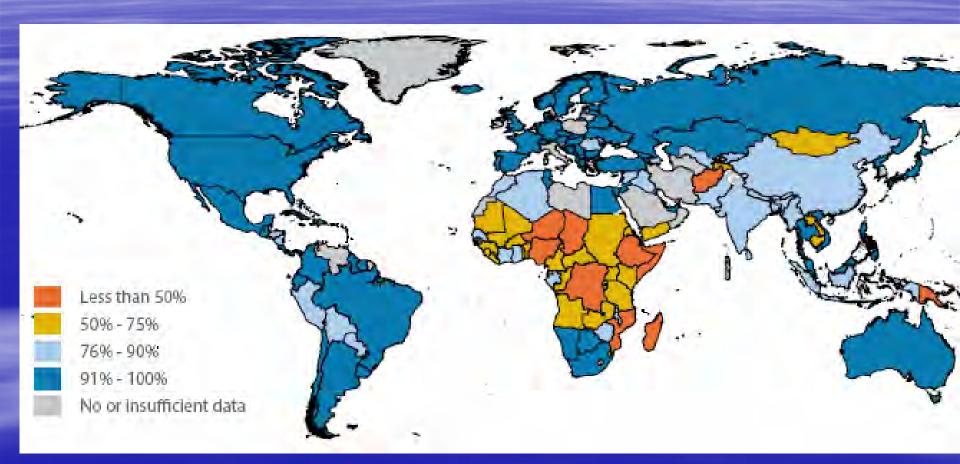
uses

Proportion of the population that has access to an improved drinking water source (urban and rural)

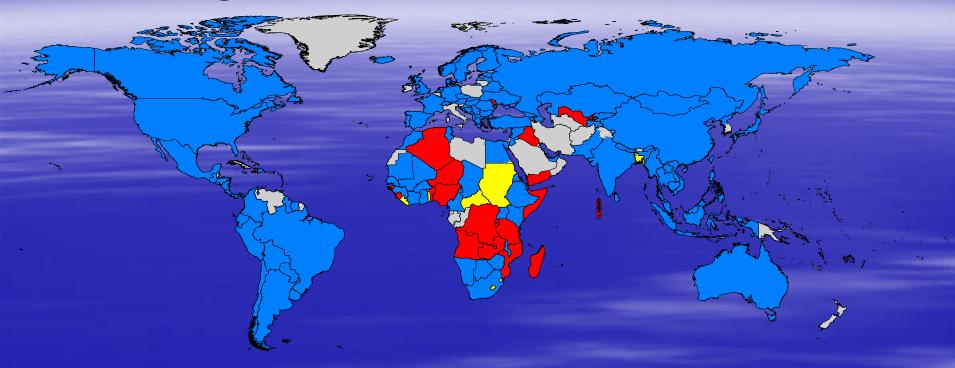
uses

Proportion of population that has access to an improved sanitation facility (urban and rural)

Use of improved drinking water sources, 2006



Drinking-water Perspectives, 2006



Progress towards the MDG drinking water target, 2006



New features in WHO/UNICEF 2008: Index of Progress

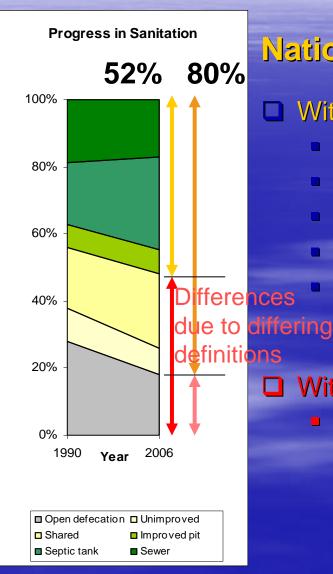
Sanitation:
Countries that are
"not on track"

| Country | Proportion of the population that gained access to improved sanitation since 1990 (%) | | | | | |
|----------|--|--|--|--|--|--|
| Yemen | 39 | | | | | |
| Benin | 30 | | | | | |
| Cameroon | 29 | | | | | |
| Comoros | 29 | | | | | |
| Mali | 29 | | | | | |
| Zambia | 27 | | | | | |

Comparing JMP and National definitions

MDG Definition

- With access
 - Sewer connection
 - Septic tank
 - VIP/improved pit
- Without access
 - Shared facilities
 - Unimproved facilities
 - Open defecation



National Definition

- With Access
 - Sewer connection
 - Septic tank
 - VIP/improved pit
 - Shared facilities
 - Unimproved facilities
- Without Access
 - Open defecation

New features in 2008:

ne Drinking Water Lac

Other improved sources

> Piped water on premises

sources

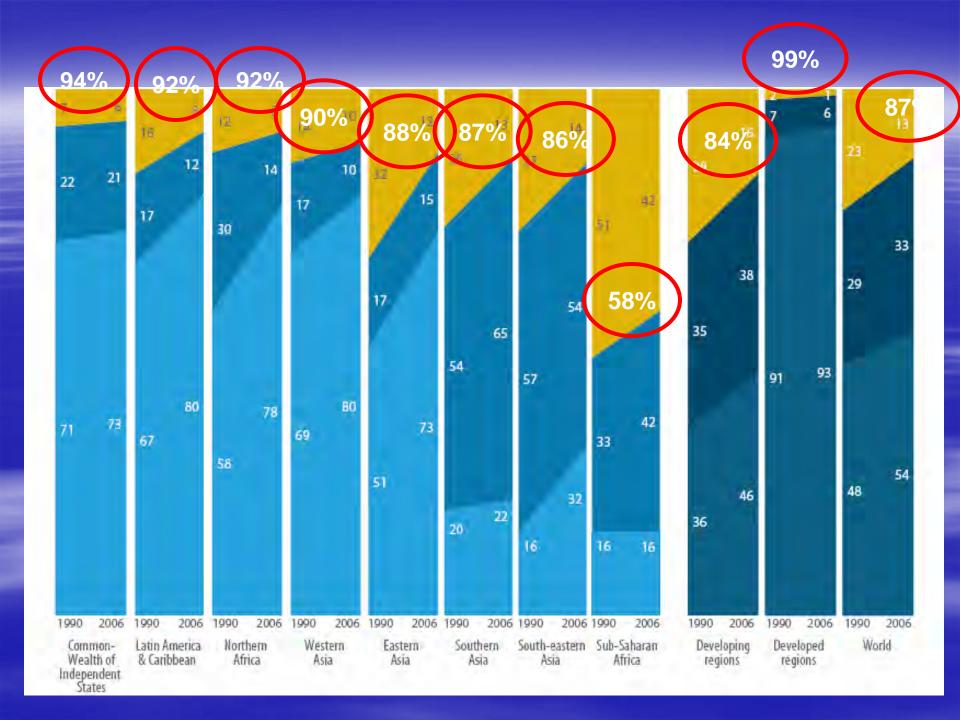
Other improved

Improved drinking water sources

Unimproved drinking water sources

Improved drinking water

sources

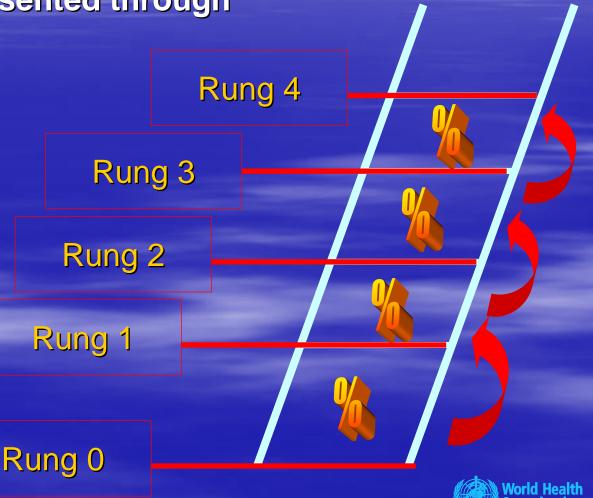


Improving benchmarks

the ladder principle

 Access can be represented through an access "ladder"

- Rungs represent a sequence of benchmarks.
- Population groups / size situated on the rungs.

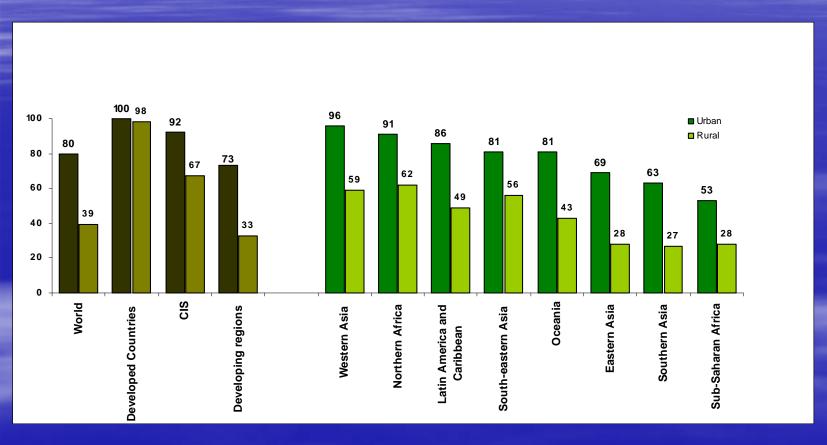


Equality & Non-discrimination

"...any discrimination on the grounds of race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth, physical or mental disability, health status, (including HIV/AIDS), sexual orientation, civil, political, social or other status, which has the intention or effect of nullifying or impairing the equal enjoyment or exercise of the right to water".

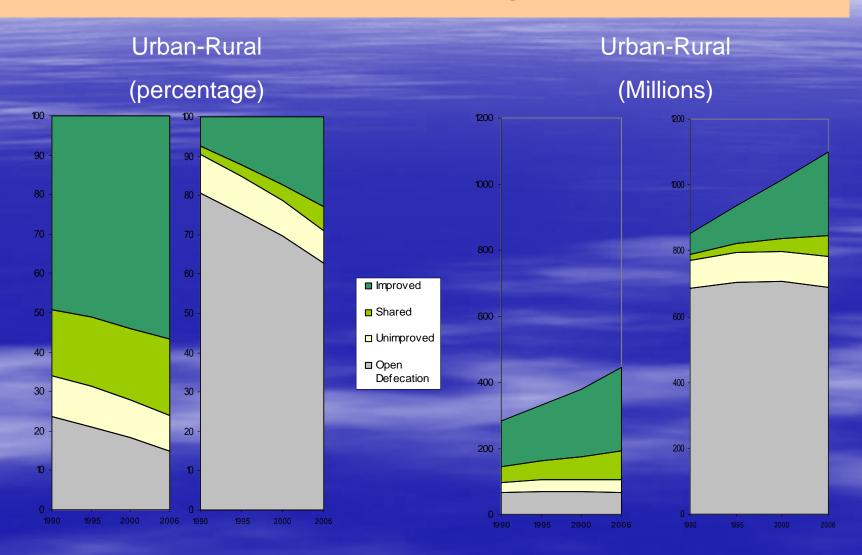
(General comment 15)

Disparities Masked by National Averages: Rural versus urban sanitation (2004)



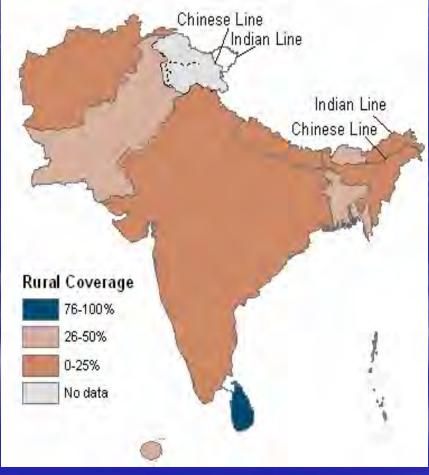
Meeting the MDGDrinking Water and Sanitation Target – The urban and rural challenge of the decade WHO and UNICEF, 2006

Urban-Rural disparities

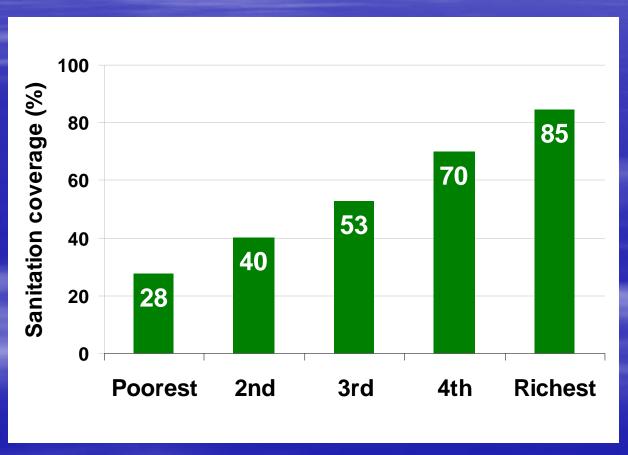


Urban-Rural disparities





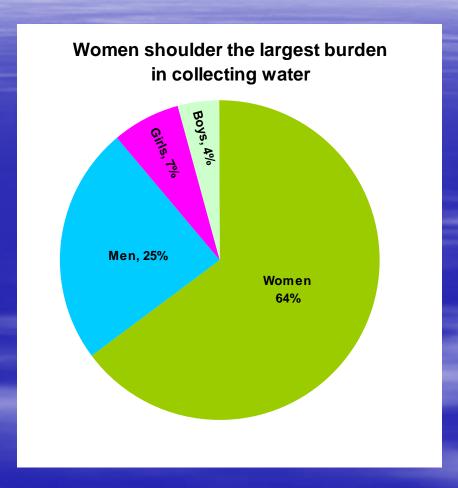
The richest are three times more likely to use improved sanitation than the poorest



Source: Based on data drawn from Multiple Indicator Cluster Surveys (MICS) and Demographic and Health Surveys (DHS) in 38 developing countries in 2005 and 2006

New data presented in the 2008 report

- Time to source
- Disposal of children's faeces
- Household water treatment/storage
- Gender and water collection

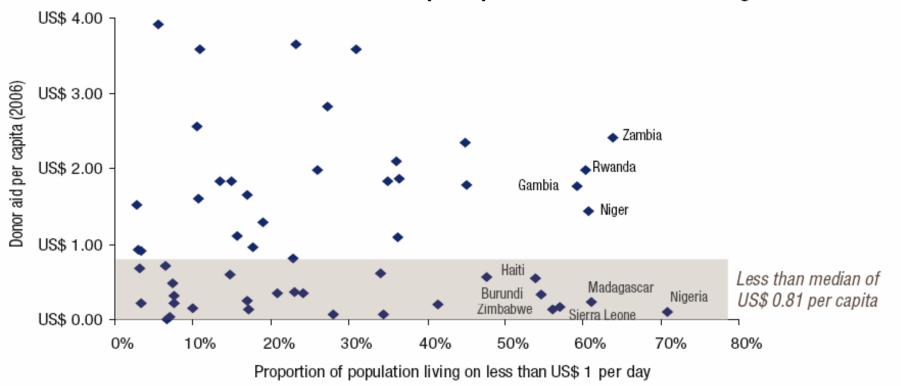


Distribution of those who usually collect water



GLAAS Pilot study: some solid data sources

Six of the 10 countries with more than 50% of the population living on less than US\$ 1 per day receive less than the median aid per capita for sanitation and drinking-water



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Thank You!

Jamie Bartram World Health Organization Headquarters, Geneva

| Disease or injury | Afghanistan | Albania | Algeria | Andorra | Angola | Antigua and Barbuda | Argentina | Armenia | Australia |
|---|-------------|---------|---------|---------|----------|------------------------|-----------|---------|-----------|
| Total DALYs | 17 011.0 | 502.8 | 5 499.8 | 8.5 | 10 757.1 | 13.3 | 6 293.3 | 516.2 | 2 153.9 |
| Total WSH-related | 2 691.8 | 5.8 | 520.0 | 0.0 | 2 593.0 | 0.2 | 96.4 | 5.7 | 9.5 |
| % of total DALYs | 15.8% | 1.2% | 9.5% | 0.3% | 24.1% | 1.2% | 1.5% | 1.1% | 0.4% |
| Diarrhoeal diseases* | 1 192.4 | 0.9 | 250.1 | 0.0 | 1 437.1 | 0.1 | 41.8 | 3.1 | 3.9 |
| Intestinal nematode infections ^b | 13.0 | 0.0 | 76.1 | 0.0 | 40.3 | 0.0 | 5.9 | 0.0 | 0.0 |
| Malnutrition (only PEM)** | 153.7 | 0.9 | 23.4 | 0.0 | 156.6 | 0.0 | 10.8 | 0.3 | 0.0 |
| Consequences of malnutrition** | 676.6 | 2.4 | 29.6 | 0.0 | 343.9 | 0.0 | 0.0 | 0.3 | 0.0 |
| Trachoma ^b | 5.3 | 0.0 | 0.0 | 0.0 | 4.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| Schistosomiasis ^b | 0.0 | 0.0 | 65.5 | 0.0 | 47.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lymphatic filariasis ^b | 0.0 | 0.0 | 0.0 | 0.0 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subtotal water supply, sanitation and hygiene | 2 041.1 | 4.3 | 444.7 | 0.0 | 2 047.6 | 0.1 | 58.5 | 3.6 | 4.0 |
| Malaria ^c | 23.1 | 0.0 | 0.0 | 0.0 | 283.3 | 0.0 | 0.2 | 0.3 | 0.0 |
| Dengue: | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| Onchocerciasis ^e | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| Japanese encephalitis | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subtotal water resource management | 24.1 | 0.0 | 0.1 | 0.0 | 283.6 | 0.0 | 0.2 | 0.3 | 0.1 |
| Drownings ^e | 57.5 | 0.9 | 25.9 | 0.0 | 52.5 | 0.0 | 20.6 | 1.3 | 3.3 |
| Subtotal safety of water environments | 57.5 | 0.9 | 25.9 | 0.0 | 52.5 | 0.0 | 20.6 | 1.3 | 3.3 |
| Other infectious diseases ^{c,a} | 569.1 | 0.6 | 49.3 | 0.0 | 209.4 | 0.0 | 17.2 | 0.5 | 2.1 |

Core obligations (General Comment

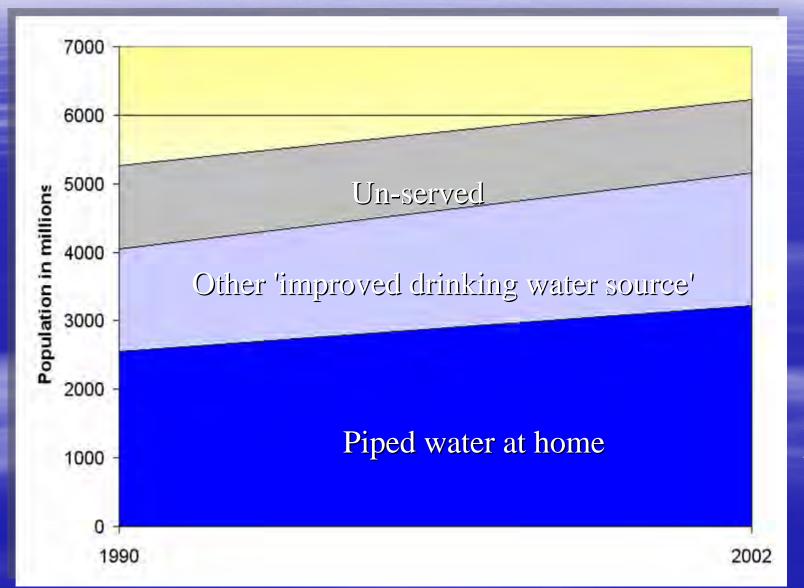
- (a) non-discrimination
- (b) minimum essential amount of water
- (c) Access to water facilities or services the provide sufficient, safe and regular water; that have a sufficient number of water outlets to avoid prohibitive waiting times; and that are at a reasonable distance from the household

(d) personal security when physically accessing water

Core obligations cont. (General Comment 15)

- (e) Equitable distribution of facilities & services
- (f) A national water strategy and plan of action
- (g) Monitoring
- (h) Low-cost targeted programmes to vulnerable and marginalized groups;
- (i) Measures to prevent, treat and control diseases linked to water, in particular ensuring access to adequate sanitation.

Improved Drinking Water: Trends in service levels



Meeting the MDG
Drinking
Water and
Sanitation
Target:
Mid-term
Assessment
of Progress
WHO and
UNICEF,
2004

WHO's Constitutional Objective

"the attainment by all peoples of the highest attainable levels of health"