Access to Safe Drinking Water by Country, 1970-2008

Description

Safe drinking water is one of the most basic human requirements. One of the Millennium Development Goals (MDGs) by 2015 is to reduce by half the proportion of people unable to reach or afford safe drinking water. As a result, estimates of access to safe drinking water are a cornerstone of most international assessments of progress, or lack thereof, toward solving global and regional water problems.

Data are given here for the percent of urban, rural, and total populations, by country, with access to safe drinking water for 1970, 1975, 1980, 1985, 1990, 1994, 2000, 2002, 2004, 2005, and 2008, the most recent year for which data are available. The World Health Organization (WHO) collected the data presented here over various periods. Most of the data presented were drawn from responses by national governments to WHO questionnaires. Participants in data collection include the Joint Monitoring Programme (JMP) of WHO, the United Nations Children's Fund, and the Water Supply and Sanitation Collaborative Council, which has continued sector monitoring and aims to support and strengthen the monitoring efforts of individual countries. The 40 largest countries in the developing world account for 90 percent of population in these regions. As a result, WHO spent extra effort to collect comprehensive data for these countries.

Data for 2000 and later reflect a significant change in definition. Data are now reported for populations without access to "improved" water supply. According to WHO, the following technologies were included in the assessment as representing "improved" water supply:

Household connection

Public standpipe

Borehole

Protected dug well

Protected spring

Rainwater collection

In comparison, "unimproved" drinking water sources refers to

Unprotected well

Unprotected spring

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Rivers or ponds

Vendor-provided water

Bottled water

Tanker truck water

Limitations

A review of water and sanitation coverage data from the 1980s and 1990s shows that the definition of safe, or improved, water supply and sanitation facilities differs from one country to another and for a given country over time. Indeed, some of the data from individual countries often showed rapid and implausible changes in the level of coverage from one assessment to the next. This indicates that some of the data are also unreliable, irrespective of the definition used. Countries used their own definitions of "rural" and "urban."

For the 1996 data, two-thirds of the countries reporting indicated how they defined "access." At the time, the definition most commonly centered on walking distance or time from household to water source, such as a public standpipe, which varied from 50 to 2,000 meters and 5 to 30 minutes. Definitions sometimes included considerations of quantity, with the acceptable limit ranging from 15 to 50 liters per capita per day. The WHO considers safe drinking water to be treated surface water or untreated water from protected springs, boreholes, and wells.

WHO assessments since 2000 have attempted to shift from gathering information from water providers to only including consumer-based information. The current approach uses household surveys in an effort to assess the actual use of facilities. "Reasonable access" was broadly defined as the availability of at least 20 liters per person per day from a source within one kilometer of the user's dwelling. A drawback of this approach is that household surveys are not conducted regularly in many countries. Thus, direct comparisons between countries, and across time within the same country, are difficult. Direct comparisons are additionally complicated by the fact that these data hide disparities between regions and socioeconomic classes.

Access to water, as reported by WHO, does not imply that the level of service or quality of water is "adequate" or "safe." The assessment questionnaire did not include any methodology for discounting coverage figures to allow for intermittence of supply or poor quality of the water supplies. However, the instructions stated that piped systems should not be considered "functioning" unless they were operating at over 50 percent capacity on a daily basis; and that hand pumps should not be considered functioning unless they were operating for at least 70 percent of the time with a lag between breakdown and repair not exceeding two weeks. These aspects were taken into consideration when estimating coverage for countries for which national surveys had not been conducted. More details of the methods used, and their limitations, can be found at http://www.who.int/docstore/water_sanitation_health/Globassessment/GlobalTOC.htm.

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DATA TABLE 3 Access to Safe Drinking Water by Country, 1970–2008

| | | | | | U | URBAN | | | | | | | | | | RURAL | 'AL | | | | | | | | | T | TOTAL | | | | | |
|-----------------------|--|-------|------|--------|-------|-------|--------|-------|-----|--------|--------|--------|--------|--------|--------|---|-------|--------|--|------|------|------|------|------|------|--------|-------|-------|--------------------------|--------|-------|----|
| Region and Country | 1970 1975 1980 1985 1990 1994 2000 2002 2004 | 975 1 | 1980 | 1985 1 | 990 1 | 994 2 | 2000 2 | 002 2 | | 005 20 |)08 15 | 970 19 | 75 198 | 30 198 | 85 199 | 2005 2008 1970 1975 1980 1985 1990 1994 | 4 200 | 3 2002 | 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 | 2005 | 2008 | 1970 | 1975 | 1980 | 1985 | 1 0661 | | 000 2 | 2000 2002 2004 2005 2008 | 004 20 | 05 20 | 80 |
| AFRICA | 99 | 89 | 69 | 77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Algeria | 84 | 100 | | 85 | | | 88 | 92 | 88 | 88 | 85 | _ | 61 | 5 | 55 | | 94 | 80 | 80 | 81 | 79 | | 77 | | 89 | | | 94 | 87 | 85 | 85 8 | 83 |
| Angola | | | 85 | 87 | 73 | 69 | 34 | 20 | 75 | 54 | 09 | | 1 | 10 1 | 15 20 | 0 15 | 5 40 | 40 | 40 | 39 | 38 | | | 26 | 33 | 35 | 32 | 38 | 20 | 53 | 47 | 20 |
| Benin | 83 | 100 | 26 | 80 | 73 | 41 | 74 | 42 | 78 | 82 | 84 | 20 2 | 20 1 | 15 3 | 34 43 | 3 53 | 3 55 | 9 ! | 57 | 65 | 69 | 29 | 34 | 18 | 20 | 54 | 20 | 63 | 89 | 29 | 72 | 22 |
| Botswana | 71 | 92 | | 84 | 100 | | 100 | 100 | 100 | 66 | 66 | 36 | 39 | 4 | 46 8 | 88 | | 90 | 06 | 90 | 90 | 29 | 45 | | 53 | 91 | | | 95 | 95 | 95 | 95 |
| Burkina Faso | 35 | 20 | 27 | 43 | | | 84 | 82 | 94 | 91 | 95 | 10 | 23 3 | 31 6 | 2 69 | 20 | | 44 | 54 | 65 | 72 | 12 | 25 | 31 | 29 | | 28 | | 51 | 61 | 20 | 92 |
| Burundi | 22 | | 90 | 86 | 92 | 92 | 96 | 90 | 92 | | 83 | | 2 | 20 2 | 21 4 | 43 49 | 9 | 78 | 77 | 71 | 71 | | | 23 | 25 | 45 | 52 | | 62 | 62 | | 72 |
| Cameroon | 22 | | | 43 | 42 | | 82 | 84 | 98 | 06 | 92 | 21 | | 2 | 24 4 | 45 | 42 | 41 | 44 | 48 | 51 | 32 | | | 32 | 44 | | 62 | 63 | 99 | 71 | 74 |
| Cape Verde | | | 100 | 83 | | 20 | 64 | 98 | 98 | 98 | 85 | | 2 | 21 5 | 20 | 34 | 4 89 | 73 | 73 | 82 | 82 | | | 25 | 52 | | 51 | 74 | 80 | 80 | 84 | 84 |
| Central | | | | 13 | 19 | 18 | 80 | 93 | 93 | 89 | 92 | | | | 2 | 26 18 | 8 43 | 9 61 | . 61 | 20 | 51 | | | | | 23 | 18 | 09 | 75 | 22 | 92 (| 29 |
| African | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Republic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chad | 47 | 43 | | | | 48 | 31 | 40 | 41 | 99 | 29 | 24 | 23 | | | 17 | 7 26 | 32 | 43 | 43 | 44 | 27 | 26 | | | | 24 | 27 | 34 | 42 | 49 | 50 |
| Comoros | | | | | | | 86 | 06 | 92 | 91 | 91 | | | | | | 95 | 96 9 | 82 | 96 | 97 | | | | | | | 96 | 94 | 98 | 95 | 95 |
| Congo | 63 | 81 | 42 | | | | 71 | 72 | 84 | 92 | 95 | 9 | 6 | 2 | | | 17 | 7 17 | , 27 | 34 | 34 | 27 | 38 | 20 | | | | 51 | 46 | 28 | 71 | 71 |
| Congo, | 33 | 38 | | 52 | 89 | 37 | 88 | 83 | 82 | 82 | 80 | 4 | 12 | 2 | 21 2 | 24 23 | 3 26 | 3 29 | 29 | 28 | 28 | 11 | 19 | | 32 | 36 | 27 | 45 | 46 | 46 | 45 | 46 |
| Democratic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rep. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cote D'Ivoire | 86 | | | | 22 | 29 | 90 | 86 | 26 | 92 | 93 | 59 | | | ω | 80 81 | 1 65 | 5 74 | 1 74 | 29 | 89 | 44 | | | | 71 | 72 | 22 | 84 | 84 | 62 | 80 |
| Djibouti | | | 20 | 20 | | 22 | 100 | 82 | 92 | 92 | 86 | | 2 | 20 2 | 20 | 100 | 0 100 | 29 (| , 59 | 22 | 52 | | | 43 | 45 | | 06 | 100 | 80 | 73 | 89 | 92 |
| Egypt | 94 | | 88 | | 92 | 82 | 96 | 100 | 66 | 100 | 100 | 93 | 9 | 64 | ω | 86 50 | 0 94 | 1 97 | 7 97 | 96 | 98 | 93 | | 84 | | 90 | 64 | 92 | 86 | 86 | 86 | 99 |
| Equatorial | | | 47 | | 65 | 88 | 45 | 45 | 45 | 45 | | | | | _ | 18 100 | 0 42 | 2 42 | 42 | 42 | | | | | | 32 | 92 | 43 | 44 | 43 | 43 | |
| Guinea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eritrea | | | | | | | 63 | 72 | 74 | 74 | 74 | | | | | | 42 | 2 54 | 1 57 | | 57 | | | | | | | 46 | 22 | 09 | 09 | 61 |
| Ethiopia | 61 | 28 | | 69 | | | 22 | 81 | 81 | 92 | 86 | | П | | 6 | | 13 | 3 11 | . 11 | 24 | 26 | 9 | 8 | | 16 | | | 24 | 22 | 22 | 35 | 38 |
| Gabon | | | | | | | 73 | 92 | 92 | 92 | 95 | | | | | | 52 | 5 47 | 7 47 | 43 | 41 | | | | | | | 20 | 87 | 88 | 98 | 87 |

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| | | | | | | | | | | | | Fracti | Fraction of Population with Access to Improved Drinking Water | opul | ation v | with A | ccess 1 | dul o | roved | Drink | ing Wa | ıter | | | | | | | | | | |
|-----------------------|------|------|------|------|------|-------|------|------|------|------|------|--------|--|------|---------|----------|---------|--------|--------|--------|---|-------|--------|-------|-------|--------|--------|-------|--------|------|------|------|
| ı | | | | | ח | URBAN | ь | | | | | | | | | <u> </u> | RURAL | | | | | | | | | | TOTAL | I. | | | | |
| Region and Country | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2005 | 2008 | 1970 | 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 | 1980 | 1985 | 1990 1 | 994 2 | 000 20 | 002 20 | 104 20 | 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 | 08 19 | 70 197 | 5 198 | 0 198 | 5 1990 | 0 199. | 4 200 | 0 2002 | 2004 | 2005 | 2008 |
| Gambia | 97 | | 85 | 97 | 100 | | 80 | 95 | 95 | 94 | 96 | 3 | | | 20 | 48 | | 53 | . 22 | 3 22 | 83 8 | 86 1 | 12 | | 59 | 09 (| 92 (| 3 62 | 82 | 82 | 89 | 92 |
| Ghana | 98 | 86 | 72 | 93 | 63 | 70 | 87 | 93 | 88 | 88 | 90 | | 14 | 33 | 39 | | 49 | 49 | 89 | 64 (| 2 89 | 74 3 | 35 35 | 5 45 | 5 56 | 3 21 | . 56 | 64 | 62 1 | 75 | 78 | 82 |
| Guinea | 89 | 69 | 69 | 41 | 100 | 61 | 72 | 78 | 78 | 88 | 88 | | | 2 | 12 | 37 | 62 | 36 | 38 | 35 | 57 6 | 61 | 1 | 14 15 | 5 18 | 3 53 | 9 62 | 2 48 | 3 51 | 50 | 89 | 71 |
| Guinea-Bissau | | | 18 | 17 | | 38 | 29 | 79 | 79 | 82 | 83 | | | 8 | 22 | | 22 | 22 | 49 | 49 4 | 48 5 | 51 | | 10 |) 21 | _ | 53 | 3 49 | 59 | 59 | 58 | 09 |
| Kenya | 100 | 100 | 85 | | | 29 | 87 | 88 | 83 | 85 | 83 | 2 | 4 | 15 | | | 49 | 31 | 46 | 46 4 | 48 5 | 52 1 | 5 1 | 17 26 | ĵ | | 53 | 3 49 |) 62 | 61 | 56 | 59 |
| Lesotho | 100 | 65 | 37 | 65 | | 14 | 98 | 88 | 92 | 96 | 97 | 1 | 14 | 11 | 30 | | 64 | 88 | 74 | . 92 | 8 62 | 81 | 3 1 | 17 15 | 5 36 | | 52 | 91 | 92 | 79 | 83 | 82 |
| Liberia | 100 | | | 100 | | 58 | | 72 | 72 | 80 | 79 | 9 | | | 23 | | 8 | | 52 | 52 , | 48 5 | 51 1 | 57 | | 53 | 3 | 30 | _ | 62 | 61 | 29 | 89 |
| Libya | 100 | 100 | 100 | | | | 72 | 72 | | | | 42 | 82 | 90 | | | | 89 | 89 | | | ц | 58 8 | 96 28 | 3 | | | 72 | 2 72 | | | |
| Madagascar | 29 | 92 | 80 | 81 | | 83 | 82 | 75 | 77 | 71 | 71 | П | 14 | 7 | 17 | | 10 | 31 | 34 | 35 ; | 27 2 | 29 1 | 1 2 | 25 21 | 1 31 | _ | 29 | 47 | 7 45 | 20 | 40 | 41 |
| Malawi | | | 77 | 97 | | 52 | 95 | 96 | 86 | 94 | 95 | | | 37 | 20 | | 44 | 44 | 62 | . 89 | 2 02 | 22 | | 41 | 1 56 | 3 | 45 | 5 57 | 29 2 | 73 | 74 | 80 |
| Mali | 29 | | 37 | 46 | 41 | 36 | 74 | 92 | 78 | 77 | 81 | | | | 10 | 4 | 38 | 61 | 35 | 36 | 40 4 | 44 | | | 16 | 3 13 | 3 37 | 7 65 | 5 48 | 20 | 51 | 26 |
| Mauritania | 86 | | 80 | 73 | | 84 | 34 | 63 | 59 | 49 | 52 | 10 | | 82 | | | 69 | 40 | 45 | 44 | 43 4 | 47] | 17 | 84 | 4 | | 92 | 3 37 | 2 56 | 53 | 45 | 49 |
| Mauritius | 100 | 100 | 100 | 100 | 100 | 92 | 100 | 100 | 100 | 100 | 100 | 29 | 22 | 86 | 100 | 100 | 100 | 100 | 100 | 001 | | w w | 61 6 | 66 09 | 9 100 | 001 (| 96 (| 3 100 |) 100 | 100 | | |
| Morocco | 92 | | 100 | 100 | 100 | 98 | 100 | 66 | 66 | 97 | 98 | 28 | | | 25 | 18 | 14 | 28 | 99 | 99 | 9 09 | 3 09 | 51 | | 29 | 9 26 | 5 52 | 2 82 | 2 80 | 81 | 80 | 81 |
| Mozambique | | | | 38 | | 17 | 86 | 92 | 72 | 92 | 77 | | | | 6 | | 40 | 43 | 24 | 76 | 29 2 | 59 | | | 15 | 10 | 32 | 9 60 |) 42 | 43 | 45 | 47 |
| Namibia | | | | | 90 | 87 | 100 | 86 | 86 | 66 | 66 | | | | | 37 | 42 | 29 | 72 | 81 | 82 8 | 88 | | | | 52 | 2 57 | 77 77 | 2 80 | 87 | 88 | 92 |
| Niger | 37 | 36 | 41 | 35 | 86 | 46 | 70 | 80 | 80 | 88 | 96 | 19 | 26 | 32 | 49 | 45 | 22 | 26 | 36 | 36 | 37 | 39 2 | 20 2 | 27 33 | 3 47 | 2 56 | 5 53 | 3 59 | 9 46 | 46 | 45 | 48 |
| Nigeria | | | | 100 | 100 | 63 | 81 | 72 | 29 | 92 | 75 | | | | 20 | 22 | 26 | 39 | 49 | 31 | 40 4 | 42 | | | 38 | 8 49 | 9 39 | 9 57 | 09 2 | 48 | 57 | 28 |
| Reunion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rwanda | 81 | 84 | 48 | 79 | 84 | | 09 | 92 | 92 | 80 | 77 | 99 | 89 | 22 | 48 | 29 | | 40 | 69 | 69 | 9 (9 | 62 (| 9 29 | 68 55 | 5 50 | 89 0 | 3 | 41 | 1 73 | 74 | 99 | 65 |
| Sao Tome and | | | | | | | | 88 | 88 | 88 | 88 | | | | 45 | | | | 73 | 73 | 81 8 | 68 | | | 45 | 2 | | | 79 | 79 | 85 | 88 |
| Principe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Senegal | 87 | 26 | 77 | 79 | 65 | 82 | 92 | 90 | 92 | 91 | 92 | | | 25 | 38 | 26 | 28 | 65 | 54 | 09 | 51 | 52 | | 43 | 3 53 | 3 42 | 2 50 | 0 78 | 3 72 | 92 | 89 | 69 |
| Seychelles | | | | | | | | 100 | 100 | 94 | 100 | | | | 92 | | | | 22 | 22 | | | | | 95 | 2 | | | 87 | 88 | | |
| Sierra Leone | 75 | | 20 | 89 | 80 | 58 | 23 | 75 | 75 | 82 | 98 | П | | 2 | 7 | 20 | 21 | 31 | 46 | 46 | 33 % | 76 | 12 | Ť | 14 24 | 4 39 | 9 34 | 4 28 | 3 57 | 57 | 51 | 49 |
| Somalia | 17 | 77 | | 28 | | | | 32 | 32 | 28 | 29 | 14 | 22 | | 22 | | | | 27 | 27 | 11 | 6 | 15 3 | 38 | 34 | 4 | | | 29 | 29 | 28 | 30 |

Data Section 235

| | 92 | 98 99 | | 99 | 13 | | 31 | | 45 | 80 | 73 | 73 | | | 19 | [5 | | | 70 | 8 98 8 | 88 28 | | 91 |
|----------------------------------|-----|---------------|--------|-----|-----|------|------|--------|------|-----|-----|-----|------|------|-------|-------|----|-----|----|--------|---------|-------|------|
| 100 41 | 3 | 87 87 | 06 2 | 92 | | 29 | | 7 | 44 | 3 | 42 | 54 | 29 | 61 | 37 | | 31 | | | | 52 6 | 2 64 | |
| 90 80 92 | 92 | 82 | | 80 | | 36 | 4 | 42 | | 42 | 62 | 49 | | | | • | 53 | | | | | | |
| 100 74 85 80 | 80 | 80 | | 87 | 2 | | 31 4 | | 58 | 38 | 36 | 36 | 40 | | 17 1 | 38 | | | | 54 | | | |
| 100 100 94 | 94 | 99 | | 66 | | 1 | | - | 88 | | 09 | 82 | | 84 4 | | | | | 66 | ω | | | |
| 37 60 47 72 87 8 | | 87 | | 91 | | 29 | 1 | 8 30 | | 46 | 52 | 26 | 09 | | 2 35 | 10 | 20 | 33 | | | | | |
| 76 64 88 90 90 | | $\overline{}$ | | 87 | | 16 | 4 | | 27 | 48 | 36 | 40 | | 46 3 | | 01 | 28 | | | 64 5 | | | |
| 95 100 100 98 | | \sim | | 66 | | | 3 | 2 80 | | 27 | 74 | 72 | | 72 | | | | 84 | | | | 1 82 | |
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| 95 | | | 92 | 92 | 92 | | | | | | | | 88 | | | | | | | | 6 | | |
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| 100 100 100 100 98 98 98 | 86 | | 86 | 86 | 12 | 13 | | 75 | | 98 | 98 | 98 | | 9 | 65 65 | | | 90 | | | 97 97 | 2 | |
| 99 100 100 100 100 100 100 10 | 100 | | 0 | 100 | 100 | 100 | 98 | 99 100 | | 100 | 100 | 100 | 100 | | | 66 (| | 100 | 1 | 100 10 | | 0 100 | 100 |
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| 85 82 74 83 98 97 89 | 26 | | | 87 | 14 | 27 3 | 34 3 | 33 45 | 29 | 20 | 82 | 91 | 83 | 84 3 | 7 55 | 9 9 | 62 | 29 | | 62 | 93 9 | 95 87 | |
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| 96 | 26 | | | 97 | 47 | 22 | | | | 93 | 93 | 93 | | | | | | | | | 95 9 | 2 | |
| 94 98 98 98 | 86 | | \sim | 86 | | | | | | 94 | 93 | 93 | | | | | | | | 94 6 | | 8 | |
| 72 92 97 99 99 9 | 66 | | \sim | 86 | 12 | 14 1 | | 14 43 | •• | 88 | 92 | 92 | | | 38 3 | | | 62 | | | 95 9 | | 94 |
| 59 56 37 46 91 52 | 52 | | 20 | 71 | | | 8 | 30 35 | 5 23 | 45 | 29 | 26 | 53 | 22 | | 12 19 | 38 | 41 | | | | 54 60 | |
| 56 85 81 97 99 95 | 92 | | 95 | 92 | 10 | | | 45 48 | 3 53 | | 82 | 81 | | | 34 4 | | | 64 | 65 | 6 | 8 06 | | 1 86 |
| 99 81 98 98 | 86 | | 38 | 86 | 48 | 79 4 | 46 9 | 93 | | 59 | 87 | 88 | | | | | | | | | 93 9 | 93 93 | |

| | | | | | | | | | | | : | Fracti | on of | Popul | lation | with A | Access | to In | prov | ed Dri | inking | Wate | r | | | | | | | | | | |
|-----------------------|----------|-------|------|------|------|------|------|------|------|------|------|--------|-------|-------|--------|--------|--------|-------|------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | U | RBAN | J | | | | | | | | | I | RURA | L | | | | | | | | | Т | OTAL | | | | | |
| Region and Country | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2005 | 2008 | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2005 | 2008 | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2005 | 2008 |
| Martinique | | | | | | | | | | 100 | 100 | | | | | | | | | | | | | | | | | | | | | | |
| Mexico | 71 | 70 | 90 | 99 | 94 | 91 | 94 | 97 | 100 | 96 | 96 | 29 | 49 | 40 | 47 | | 62 | 63 | 72 | 87 | 83 | 87 | 54 | 62 | 73 | 83 | 69 | 83 | 86 | 91 | 97 | 93 | 94 |
| Montserrat | | | | | | | | 100 | 100 | 100 | 100 | | | | | | | | 100 | 100 | 100 | 100 | | | | | | | | 100 | 100 | 100 | 100 |
| Netherlands A | antilles | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nicaragua | 58 | 100 | 67 | 76 | | 81 | 95 | 93 | 90 | 97 | 98 | 16 | 14 | 6 | 11 | | 27 | 59 | 65 | 63 | 66 | 68 | 35 | 56 | 39 | 48 | | 61 | 79 | 81 | 79 | 83 | 85 |
| Panama | 100 | 100 | 100 | 100 | | | 88 | 99 | 99 | 97 | 97 | 41 | 54 | 62 | 64 | | | 86 | 79 | 79 | 83 | 83 | 69 | 77 | 81 | 82 | | 83 | 87 | 91 | 90 | 93 | 93 |
| Puerto Rico | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saint Kitts | | | | | | | | 99 | 99 | 100 | 100 | | | | | | | | 99 | 99 | 99 | 100 | | | | | | | | 99 | 100 | 100 | 100 |
| Saint Lucia | | | | | | | | 98 | 98 | 99 | 97 | | | | | | | | 98 | 98 | 98 | 98 | | | | | | | | 98 | 98 | 98 | 98 |
| Saint Vincent | | | | | | | | | | | | | | | | | | | | 93 | | | | | | | | | | | | | |
| Trinidad/Toba | ago100 | 79 | 100 | 100 | 100 | | | 92 | 92 | 97 | 98 | 95 | 100 | 93 | 95 | 88 | | | 88 | 88 | 93 | 93 | 96 | 93 | 97 | 98 | 96 | | 86 | 91 | 91 | 93 | 94 |
| Turks/Caicos | | | | 87 | | | | 100 | 100 | 97 | 98 | | | | 68 | | | | 100 | 100 | 100 | 98 | | | | 77 | | | | 100 | 100 | 98 | 98 |
| Islands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United States | | | | | | | 100 | 100 | 100 | 100 | 100 | | | | | | | 100 | 100 | 100 | 94 | 94 | | | | | | | 100 | 100 | 100 | 99 | 99 |
| of America | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| United States | Virgin | Islan | ds | | | | | | | | 100 | | | | | | | | | | | 100 | | | | | | | | | | | 100 |
| SOUTH AMEI | RICA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Argentina | 69 | 76 | 61 | 63 | | | 85 | 97 | 98 | 98 | 98 | 12 | 26 | 17 | 17 | | | 30 | | 80 | 80 | 80 | 56 | 66 | 54 | 56 | | | 79 | | 96 | 96 | 97 |
| Bolivia | 92 | 81 | 69 | 75 | 76 | 78 | 93 | 95 | 95 | 95 | 96 | 2 | 6 | 10 | 13 | 30 | 22 | 55 | 68 | 68 | 63 | 67 | 33 | 34 | 36 | 43 | 53 | 55 | 79 | 85 | 85 | 84 | 86 |
| Brazil | 78 | 87 | 83 | 85 | 95 | 85 | 95 | 96 | 96 | 98 | 99 | 28 | | 51 | 56 | 61 | 31 | 54 | 58 | 57 | 81 | 84 | 55 | | 72 | 77 | 87 | 72 | 87 | 89 | 90 | 95 | 97 |
| Chile | 67 | 78 | 100 | 98 | | 94 | 99 | 100 | 100 | 99 | 99 | 13 | 28 | 17 | 29 | | 37 | 66 | 59 | 58 | 75 | 75 | 56 | 70 | 84 | 87 | | 85 | 94 | 95 | 95 | 96 | 96 |
| Colombia | 88 | 86 | 93 | 100 | 87 | 88 | 98 | 99 | 99 | 99 | 99 | 28 | 33 | 73 | 76 | 82 | 48 | 73 | 71 | 71 | 73 | 73 | 63 | 64 | 86 | | 86 | 76 | 91 | 92 | 93 | 92 | 92 |
| Ecuador | 76 | 67 | 79 | 81 | 63 | 82 | 81 | 92 | 97 | 96 | 97 | 7 | 8 | 20 | 31 | 44 | 55 | 51 | 77 | 89 | 86 | 88 | 34 | 36 | 50 | 57 | 55 | 70 | 71 | 86 | 94 | 92 | 94 |
| French Guian | a | | | | | | 88 | 88 | 88 | | | | | | | | | 71 | 71 | 71 | | | | | | | | | 84 | 84 | 84 | | |
| Guyana | 100 | | 100 | 100 | 100 | 90 | 98 | 83 | 83 | 96 | 98 | 63 | 75 | 60 | 65 | 71 | 45 | 91 | 83 | 83 | 90 | 93 | 75 | 84 | 72 | 76 | 81 | 61 | 94 | 83 | 83 | 92 | 94 |
| Paraguay | 22 | 25 | 39 | 53 | 61 | | 95 | 100 | 99 | 98 | 99 | 5 | 5 | 9 | 8 | 9 | | 58 | 62 | 68 | 93 | 66 | 11 | 13 | 21 | 28 | 34 | | 79 | 83 | 86 | 83 | 86 |

| Final Properties Final Prope | Peru | 58 | 72 | 68 | 73 | 68 | 74 | 87 | 87 | 89 | 90 | 90 | 8 | 15 | 18 | 17 | 24 | 24 | 51 | 66 | 65 | 58 | 61 | 35 | 47 | 50 | 55 | 55 | 60 | 77 | 81 | 83 | 81 | 82 |
|--|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|
| Net Processes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Suriname | | | 100 | 71 | | | 94 | 98 | 98 | 97 | 97 | | | 79 | 94 | | | 96 | 73 | 73 | 78 | 81 | | | 88 | 83 | | | 95 | 92 | 92 | 92 | 93 |
| Net | Uruguay | 100 | 100 | 96 | 95 | 100 | | 98 | 98 | 100 | 100 | 100 | 59 | 87 | 2 | 27 | | | 93 | 93 | 100 | 95 | 100 | 92 | 98 | 81 | 85 | 89 | | 98 | 98 | 100 | 100 | 100 |
| Armenical Registration of the registration of | | 92 | | 93 | 93 | | 80 | 88 | 85 | 85 | 94 | | 38 | | 53 | 65 | 36 | 75 | 58 | 70 | 70 | 75 | | 75 | | 86 | 89 | | 79 | 84 | 83 | 83 | 93 | |
| Armenian Fernicus Fer | ASIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mathematical Control of Control | Afghanistan | 18 | 40 | 28 | 38 | 40 | 39 | 19 | 19 | 63 | 66 | 78 | 1 | 5 | 8 | 17 | 19 | 5 | 11 | 11 | 31 | 33 | 39 | 3 | 9 | 8 | 17 | 23 | 12 | 13 | 13 | 39 | 41 | 48 |
| Bahrain 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Armenia | | | | | | | | 99 | 99 | 99 | 98 | | | | | | | | 80 | 80 | 89 | 93 | | | | | | | | 92 | 92 | 95 | 96 |
| Bangladesh 13 | Azerbaijan | | | | | | | | 95 | 95 | 88 | 88 | | | | | | | | 59 | 59 | 66 | 71 | | | | | | | | 77 | 77 | 77 | 80 |
| Burdan 5 5 6 8 8 8 8 8 8 8 8 8 | Bahrain | 100 | 100 | | 100 | 100 | | | 100 | 100 | 100 | 100 | 94 | 100 | | 100 | 0 | | | | | | | 99 | 100 | | 100 | | | | | | | |
| Find the conting that the conting the conting the conting that the conting the | Bangladesh | 13 | 22 | 26 | 24 | 39 | 100 | 99 | 82 | 82 | 85 | 85 | 47 | 61 | 40 | 49 | 89 | 97 | 97 | 72 | 72 | 78 | 78 | 45 | 56 | 39 | 46 | 81 | 97 | 97 | 75 | 74 | 80 | 80 |
| Cambodia | Bhutan | | | 50 | | 60 | 75 | 86 | 86 | 86 | 99 | 99 | | | 5 | 19 | 30 | 54 | 60 | 60 | 60 | 88 | 88 | | | 7 | | 32 | 64 | 62 | 62 | 62 | 91 | 92 |
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| Companion Table | Cambodia | | | | | | | 53 | 58 | 64 | 75 | 81 | | | | | | | 25 | 29 | 35 | 51 | 56 | | | | | | | 30 | 34 | 41 | 56 | 61 |
| Fast Timor 1 | China | | | | | 87 | 93 | 94 | 92 | 93 | 98 | 98 | | | | | 68 | 89 | 66 | 68 | 67 | 78 | 82 | | | | | 73 | 90 | 75 | 77 | 77 | 86 | 89 |
| Gaza Strip | Cyprus | 100 | 94 | | 100 | 100 | | 100 | 100 | 100 | 100 | 100 | | | | | | | 100 | 100 | 100 | 100 | 100 | | | | | | | 100 | 100 | 100 | 100 | 100 |
| Georgia | East Timor | | | | | | | | 73 | 77 | 80 | 86 | | | | | | | | 51 | 56 | 57 | 63 | | | | | | | | 52 | 58 | 63 | 69 |
| HongKong 10 10 10 10 10 10 10 1 | Gaza Strip | | | | | | | | | 94 | 91 | 91 | | | | | | | | | 88 | 91 | 91 | | | | | | | | | 92 | 91 | 91 |
| Indiae 60 80 77 76 86 85 92 96 95 95 95 96 10 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | Georgia | | | | | | | | 90 | 96 | 99 | 100 | | | | | | | | 61 | 67 | 92 | 96 | | | | | | | | 76 | 82 | 96 | 98 |
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| Iraq 83 100 100 93 99 98 99 98 99 98 99 98 99 98 99 98 99 98 99 99 | India | 60 | 80 | 77 | 76 | 86 | 85 | 92 | 96 | 95 | 95 | 96 | 6 | 18 | 31 | 50 | 69 | 79 | 86 | 82 | 83 | 81 | 84 | 17 | 31 | 42 | 56 | 73 | 81 | 88 | 86 | 86 | 85 | 88 |
| Iraq 83 100 100 93 96 97 97 93 91 70 11 54 54 11 48 50 50 50 53 55 51 66 86 78 44 85 81 81 80 79 100 100 100 100 100 100 100 100 100 10 | Indonesia | 10 | 41 | 35 | 43 | 35 | 78 | 91 | 89 | 87 | 90 | 89 | 1 | 4 | 19 | 36 | 33 | 54 | 65 | 69 | 69 | 70 | 71 | 3 | 11 | 23 | 38 | 34 | 62 | 76 | 78 | 77 | 80 | 80 |
| State | Iran | 68 | 76 | 82 | | 100 | 89 | 99 | 98 | 99 | 98 | 98 | 11 | 30 | 50 | | 75 | 77 | 89 | 83 | 84 | | | 35 | 51 | 66 | | 89 | 83 | 95 | 93 | 94 | | |
| Japan Jordan | Iraq | 83 | 100 | | 100 | 93 | | 96 | 97 | 97 | 93 | 91 | 7 | 11 | 54 | 54 | 41 | | 48 | 50 | 50 | 53 | 55 | 51 | 66 | | 86 | 78 | 44 | 85 | 81 | 81 | 80 | 79 |
| Jordan 98 100 100 100 91 99 98 98 59 98 99 | Israel | | | | | | | | 100 | 100 | 100 | 100 | | | | | | | 100 | 100 | 100 | 100 | 100 | | | | | | | 100 | 100 | 100 | 100 | 100 |
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| | | c 84 | 95 | 86 | 90 | 100 | | 97 | 97 | 97 | 99 | 100 | 38 | 33 | 61 | 48 | 76 | | 71 | 71 | 71 | 83 | 88 | 58 | 66 | 75 | 75 | 93 | | 92 | 92 | 92 | 96 | 98 |
| Kyrgyzstan 98 98 98 99 99 66 66 66 80 85 77 76 77 87 90 | Kuwait | 60 | 100 | 86 | 97 | | | | | | 99 | | | | 100 | | | | | | | 100 | 100 | 51 | 89 | 87 | | | | | | | 99 | 99 |
| | Kyrgyzstan | | | | | | | 98 | 98 | 98 | 99 | 99 | | | | | | | 66 | 66 | 66 | 80 | 85 | | | | | | | 77 | 76 | 77 | 87 | 90 |

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| TABLE | IMPLE |
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| ! | | | | | | | | | | | - | ractio | n of P | pulat | tion w | ith Ac | cess to | Fraction of Population with Access to Improved Drinking Water | oved I |)rinki | ng Wai | er | | | | | | | | | | |
|-----------------------|------|---------|------|------|------|-------|---------|------|------|------|------|--|--------|-------|--------|--------|---------|---|---------|---------|--------|------------|------|------|------|------|-------|------|------|------|------|------|
| ' | | | | | Ū | URBAN | | | | | ĺ | | | | | R | RURAL | | | | | | | | | I | TOTAL | | | | | |
| Region and Country | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2005 | 2008 | 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 | 975 1 | 980 1 | 985 19 | 990 15 | 194 20 | 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 | 02 20(|)4 20(| 05 200 | 8 1970 | 1975 | 1980 | 1985 | 1990 | 1994 | 2000 | 2002 | 2004 | 2002 | 8003 |
| Laos | 97 | 97 100 | 28 | | 47 | 40 | 59 | 99 | 79 | 74 | 72 | 39 | 32 | 20 | | 25 | 39 10 | 100 3 | 38 4 | 43 4 | 47 51 | 48 | 41 | 21 | | 59 | 39 | 90 | 43 | 51 | 54 | 57 |
| Lebanon | | | | | | 100 | 100 100 | 100 | 100 | 100 | 100 | | | | | | 1 | 100 10 | 100 100 | 0 100 | 0 100 | _ | | | | | | 100 | 100 | 100 | 100 | 100 |
| Macau | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malaysia | 100 | 100 100 | 90 | 96 | 96 | | | 96 | 100 | 100 | 100 | П | 9 | 49 | 92 | 99 | | 94 9 | 94 9 | 6 96 | 66 66 | 29 | 34 | 63 | 84 | 79 | | | 92 | 66 | 100 | 100 |
| Maldives | | | 11 | 28 | 77 | 86 | 100 | 66 | 86 | 66 | 66 | | | 3 | 12 | 89 | 86 10 | 100 7 | 78 7 | 8 92 | 98 98 | | | 2 | 21 | | 88 | 100 | 84 | 83 | 90 | 91 |
| Mongolia | | | | | 100 | | 77 | 87 | 87 | 94 | 97 | | | | | 28 | | 30 3 | 30 3 | 30 4 | 45 49 | • | | | | 82 | | 09 | 62 | 62 | 73 | 92 |
| Myanmar | 35 | 31 | 38 | 36 | 79 | 36 | 88 | 92 | 80 | 75 | 75 | 13 | 14 | 15 | 24 | 72 | 39 (| 2 09 | 74 7 | 9 22 | 69 69 |) 18 | 17 | 21 | 27 | 74 | 38 | 89 | 80 | 78 | 71 | 71 |
| (Burma) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nepal | 53 | 85 | 83 | 20 | 99 | 99 | 82 | 93 | 96 | 93 | 93 | | 2 | 7 | 25 | 34 | 41 | 80 | 82 8 | 8 68 | 85 87 | 7 | 8 | 11 | 28 | 38 | 44 | 81 | 84 | 90 | 86 | 88 |
| Oman | | 100 | | 90 | | | 41 | 81 | | 90 | 92 | | 48 | | 49 | | • | 30 7 | 72 | 2 | 77 97 | _ | 52 | | 53 | | 63 | 39 | 79 | | 86 | 88 |
| Pakistan | 77 | 75 | 72 | 83 | 82 | 77 | 96 | 95 | 96 | 92 | 92 | 4 | 2 | 20 | 27 | 42 | 52 | 84 8 | 8 28 | 8 68 | 86 87 | 7 21 | 25 | 35 | 44 | 22 | 09 | 88 | 90 | 91 | 88 | 90 |
| Philippines | 29 | 82 | 49 | 49 | 93 | 93 | 92 | 90 | 87 | 93 | 93 | 20 | 31 | 43 | 54 | 72 | 77 | 80 7 | 77 8 | 82 8 | 85 87 | 2 36 | 50 | 45 | 52 | 81 | 85 | 87 | 82 | 85 | 90 | 91 |
| Qatar | 100 | 100 | 92 | | 100 | | | 100 | 100 | 100 | 100 | 75 | 83 | 43 | | | | 1(| 100 10 | 100 100 | 66 0 | 95 | 97 | 71 | | | | | 100 | 100 | 100 | 100 |
| Saudi Arabia | 100 | 97 | 92 | 100 | | | 100 | 97 | 97 | 26 | 26 | 37 | 99 | 87 | 88 | | - | 64 | | | | 49 | 64 | 90 | 94 | | | 92 | | | | |
| Singapore | | | 100 | 100 | 100 | | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | | 100 | 100 | 100 | | 100 | 100 | 100 | | |
| Sri Lanka | 46 | 36 | 65 | 82 | 80 | 43 | 91 | 66 | 86 | 97 | 98 | 14 | 13 | 18 | 29 | 22 | 47 | 80 7 | 72 7 | 74 8 | 84 88 | 3 21 | 19 | 28 | 40 | 09 | 46 | 83 | 78 | 79 | 98 | 90 |
| Syria | 98 | | 86 | | | 92 | 94 | 94 | 86 | 95 | 94 | 20 | | 54 | | | 28 | 64 6 | 64 8 | 8 28 | 82 84 | 1 71 | | 74 | | | 85 | 80 | 79 | 93 | 88 | 88 |
| Tajikistan | | | | | | | | 93 | 92 | 93 | 94 | | | | | | | 7 | 47 4 | 48 5 | 57 61 | _ | | | | | | | 58 | 59 | 29 | 20 |
| Thailand | 09 | 69 | 65 | 26 | | | 88 | 95 | 98 | 66 | 66 | 10 | 16 | 63 | 99 | 85 | | 3 22 | 80 10 | 6 001 | 96 26 | 3 17 | 25 | 63 | 64 | | | 80 | 85 | 66 | 86 | 86 |
| Turkey | | | 92 | | | | 82 | 96 | 98 | 66 | 100 | | | 62 | | | | 84 8 | 87 9 | 93 9 | 95 96 | | | 92 | | | | 83 | 93 | 96 | 97 | 66 |
| Turkmenistan | | | | | | | | 93 | 93 | 97 | 26 | | | | | | | | 54 5 | 54 7 | 72 | | | | | | | | 71 | 72 | 84 | |
| United Arab | | | 92 | | | | | | 100 | 100 | 100 | | | | | | 1 | 100 10 | 100 10 | 100 100 | 00 100 | 0 | | | | | | 100 | 100 | 100 | 100 | 100 |
| Emirates | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uzbekistan | | | | | | | 96 | 97 | | 86 | 86 | | | | | | | 3 8/ | 84 | w | 82 81 | _ | | | | | | 85 | 88 | | 88 | 87 |
| Vietnam | | | | 20 | 47 | 53 | 81 | 93 | 66 | 97 | 66 | | | 32 | 39 | 33 | 32 | 20 (| 8 29 | 80 | 85 92 | ~ 1 | | | 45 | 36 | 36 | 26 | 73 | 82 | 88 | 94 |
| Yemen A R | 45 | | 100 | 100 | | | 85 | 74 | 71 | 75 | 72 | 2 | | 18 | 25 | | | 64 (| 9 89 | 65 5 | 58 57 | 7 4 | | 31 | 40 | | | 69 | 69 | 29 | 63 | 62 |
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continued DATA TABLE 3

| | | Fraction of Population with Access to Improved Drinking Water | d Drinking Water | |
|---|-----------------|---|-------------------------------|---|
| URBAN | | RURAL | | TOTAL |
| Region and Country 1970 1975 1980 1985 1990 1994 2000 2002 2004 | | 2005 2008 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 1970 1975 1980 1985 1990 1994 2000 2002 2004 2005 2008 | 2004 2005 2008 1970 1975 1980 | 1985 1990 1994 2000 2002 2004 2005 2008 |
| Hungary | 100 100 100 100 | | 97 100 100 | 99 100 100 |
| Latvia | 100 100 100 | | 96 96 96 | 66 66 66 |
| Montenegro | 100 100 | | 96 96 | 86 86 |
| Netherlands | 100 100 100 100 | | 97 100 100 | 99 100 100 |
| Republic of Moldova | 96 96 26 26 | 88 | 88 85 85 | 92 92 90 90 |
| Romania | 91 91 | 16 | 16 | 57 57 |
| Russian Federation | 99 100 98 98 | 88 | 88 89 89 | 96 96 26 96 |
| Serbia | 66 66 | | 86 86 | 66 66 |
| Serbia and Montenegro | 66 66 | | 98 98 | 93 93 |
| Slovakia | 100 100 100 | | 97 100 100 | 99 100 100 |
| Ukraine | 100 99 99 98 | 94 | 91 95 97 | 86 86 96 86 |

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