

WHO / UNICEF

Joint Monitoring Programme
for Water Supply and Sanitation

Estimates for the use of

**Improved Drinking-Water Sources
and Improved Sanitation Facilities**

Updated March 2010

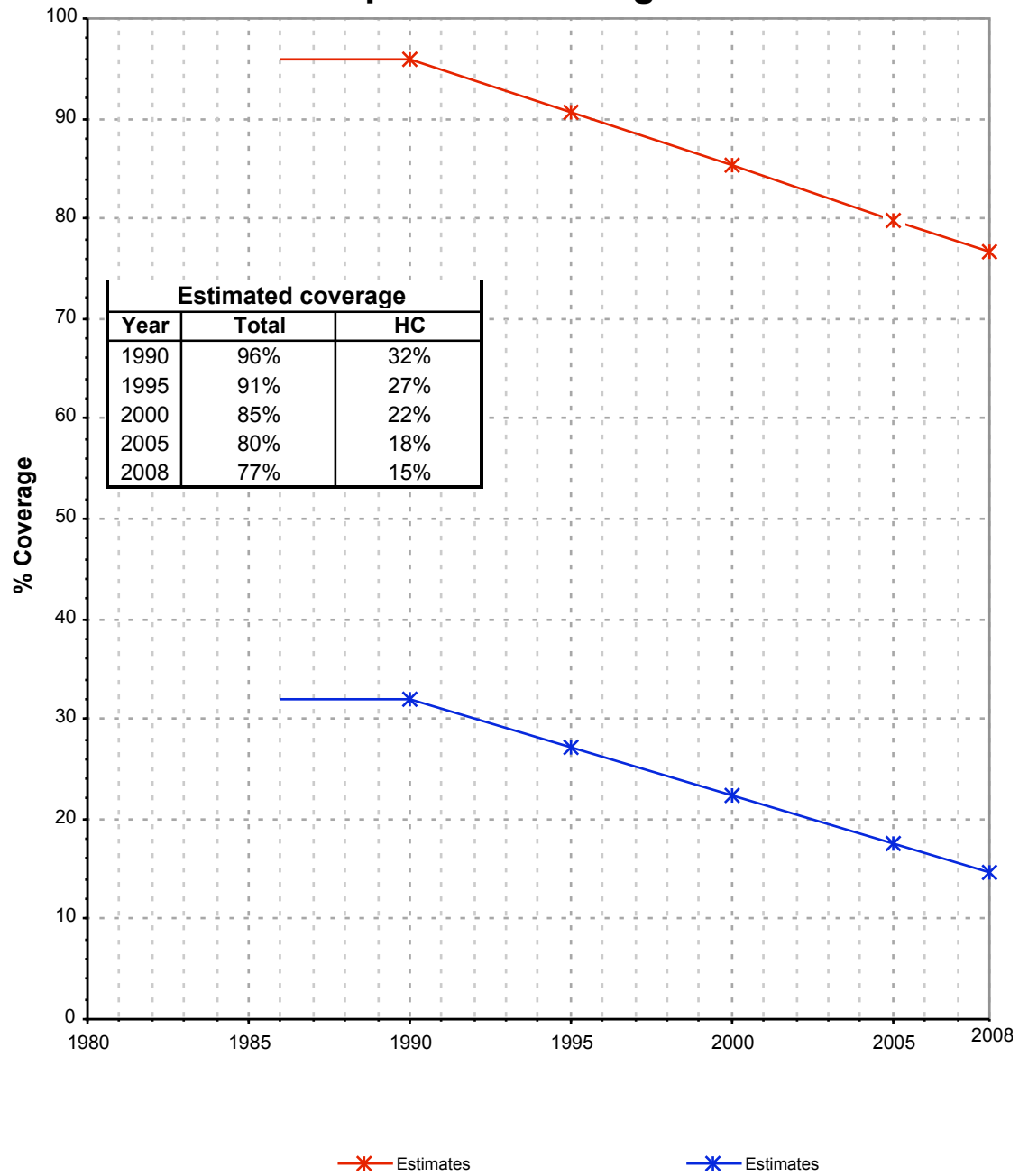
childinfo.org

| Access to drinking water sources | | DHS92 | | | Rwanda | | | Access to drinking water sources | | JMP99 | | | Rwanda | | |
|--|--|------------|------------|-------|--|---|------------|---|-------|-------|--|--|--------|--|--|
| Demographic and Health Survey | | | | | 1992 | | | Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO. | | | | | 1999 | | |
| Original denomination | Classification | Urban | Rural | Total | Original denomination | Classification | Urban | Rural | Total | | | | | | |
| Private Tap | Tap water | 69.4 | 19.6 | | Population served with household connection | Tap water | 59.2 | 3.3 | | | | | | | |
| | House connections | 26.0 | 0.2 | | | House connections | | | | | | | | | |
| | Piped water into dwelling | | | | | Piped water into dwelling | | | | | | | | | |
| | Piped water to yard/plot | | | | | Piped water to yard/plot | | | | | | | | | |
| Public Tap | Public tap, standpipe | 43.4 | 19.4 | | | Public tap, standpipe | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Ground water | 22.6 | 55.5 | | Population without household connection but with reasonable access to a public | Ground water | 0.8 | 36.7 | | | | | | | |
| | Protected ground water | | | | | Protected ground water | 0.8 | 36.7 | | | | | | | |
| | Unprotected ground water | | | | | Unprotected ground water | | | | | | | | | |
| | Protected wells or springs | | | | | Protected wells or springs | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Unprotected wells or springs | | | | | Unprotected wells or springs | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | All wells | | | | | All wells | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Tubewell, borehole | | | | | Tubewell, borehole | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Traditional wells | | | | | Traditional wells | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Protected well | | | | | Protected well | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Unprotected well | | | | | Unprotected well | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| Spring | All springs | 22.6 | 55.5 | | | All springs | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Protected spring | | | | | Protected spring | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Unprotected spring | | | | | Unprotected spring | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Rainwater | | | | | Rainwater | | | | | | | | | |
| | Covered cistern/tank | | | | | Covered cistern/tank | | | | | | | | | |
| | Uncovered cistern/tank | | | | | Uncovered cistern/tank | | | | | | | | | |
| | Bottled water | | | | | Bottled water | | | | | | | | | |
| | with other improved | | | | | with other improved | | | | | | | | | |
| | without other improved | | | | | without other improved | | | | | | | | | |
| River/Surface Water | Surface water | 3.9 | 23.1 | | | Surface water | | | | | | | | | |
| | River | | | | | River | | | | | | | | | |
| | Lake | | | | | Lake | | | | | | | | | |
| | Dam | | | | | Dam | | | | | | | | | |
| | Pond | | | | | Pond | | | | | | | | | |
| | Stream | | | | | Stream | | | | | | | | | |
| | Irrigation channel | | | | | Irrigation channel | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other improved sources | | | | | Other improved sources | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other non-improved | 4.0 | 1.6 | | Total population unserved | Other non-improved | 40.0 | 60.0 | | | | | | | |
| | Cart with small tank/drum | | | | | Cart with small tank/drum | | | | | | | | | |
| | Tanker truck provided | | | | | Tanker truck provided | | | | | | | | | |
| Other | Other | 4.0 | 1.6 | | | Other | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| Not Defined | DK/missing | 0.0 | 0.0 | | | DK/missing | | | | | | | | | |
| | Total | 99.9 | 99.8 | | | Total | 100.0 | 100.0 | | | | | | | |
| Calculations | | | | | Calculations | | | | | | | | | | |
| Estimations | Estimate for protected springs on basis of MICS 00 | 18.8 | 39.1 | | Estimations | | | | | | | | | | |
| Access to improved drinking water sources : | | 88% | 59% | | Access to improved drinking water sources : | | 60% | 40% | | | | | | | |
| Access to house connections : | | 26% | 0% | | Access to house connections : | | 59% | 3% | | | | | | | |
| Used for the estimates | | Yes | Yes | | Used for the estimates | | No | No | | | | | | | |
| Used for the estimates | | Yes | Yes | | Used for the estimates | | No | No | | | | | | | |
| Ratios | HC / Tap water | 37% | 1% | | Ratios | HC / Tap water | 100% | 100% | | | | | | | |
| | Public tap / Tap water | 63% | 99% | | | Public tap / Tap water | | | | | | | | | |
| | Tubewell + protected well / All wells | | | | | Tubewell + protected well / All wells | | | | | | | | | |
| | Protected wells / Traditional wells | | | | | Protected wells / Traditional wells | | | | | | | | | |
| | Tubewell / All wells | | | | | Tubewell / All wells | | | | | | | | | |
| | Protected springs / All springs | | | | | Protected springs / All springs | | | | | | | | | |
| | Protect. well & spring / well & spring | | | | | Protect. well & spring / well & spring | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | Number of people covered by the survey: | | | | | Number of people covered by the survey: | 536.62 | 7129.372 | | | | | | | |
| | Number of households covered by the survey: | | | | | Number of households covered by the survey: | | | | | | | | | |
| | Total population: | | | | | Total population: | | | | | | | | | |
| Comments | | | | | Comments | | | | | | | | | | |

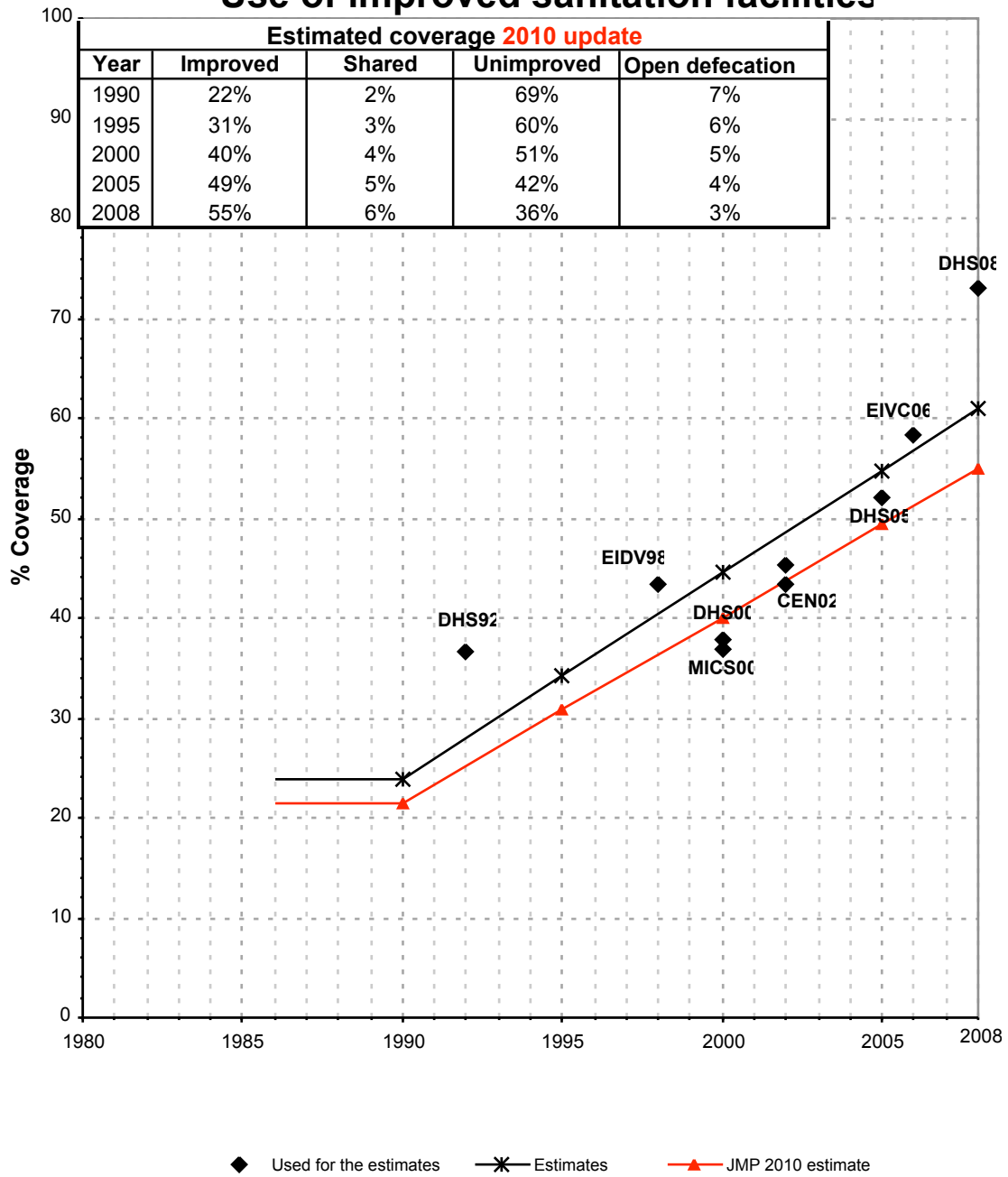
| Access to drinking water sources | | DHS05 | | | Rwanda | | | Access to drinking water sources | | EICV06 | | | Rwanda | | |
|--|--|-------|-------|-------|---|--|-------|----------------------------------|-------|--------|--|--|--------|--|--|
| Demographic and Household Survey | | | | | Enquête Intégrale sur les Conditions de Vie des Ménages | | | | | | | | | | |
| | | | | | 2005 | | | | | 2006 | | | | | |
| Original denomination | Classification | Urban | Rural | Total | Original denomination | Classification | Urban | Rural | Total | | | | | | |
| | Tap water | 55.4 | 22.6 | | | Tap water | 69.1 | 38.9 | | | | | | | |
| | House connections | 14.1 | 0.5 | | | House connections | 13.8 | 0.2 | | | | | | | |
| Piped into dwelling/compound/plot | Piped water into dwelling | 14.1 | 0.5 | | Electrogaz | Piped water into dwelling | 13.8 | 0.2 | | | | | | | |
| | Piped water to yard/plot | | | | | Piped water to yard/plot | | | | | | | | | |
| Public tap | Public tap, standpipe | 41.3 | 22.1 | | Free public standpipe | Public tap, standpipe | 15.5 | 29.9 | | | | | | | |
| | Other | | | | Purchased from vendor | Other | 39.8 | 8.8 | | | | | | | |
| | Ground water | 36.3 | 58.4 | | | Ground water | 20.8 | 40.5 | | | | | | | |
| | Protected ground water | 5.3 | 6.3 | | | Protected ground water | 15.3 | 28.7 | | | | | | | |
| | Unprotected ground water | 12.5 | 13.9 | | | Unprotected ground water | 4.7 | 10.2 | | | | | | | |
| | Protected wells or springs | 5.3 | 6.3 | | | Protected wells or springs | 15.3 | 28.7 | 0.0 | | | | | | |
| | Private | 0.1 | 0.0 | | | Private | | | | | | | | | |
| Covered well in compound/plot | Public | 5.2 | 6.3 | | | Public | | | | | | | | | |
| Covered public well | Other | | | | | Other | | | | | | | | | |
| | Unprotected wells or springs | 12.5 | 13.9 | | | Unprotected wells or springs | 4.7 | 10.2 | 0.0 | | | | | | |
| | Private | 0.5 | 0.1 | | | Private | | | | | | | | | |
| | Public | 12.0 | 13.8 | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | All wells | 12.5 | 13.9 | 0.0 | | All wells | 7.5 | 7.6 | | | | | | | |
| | Private | 0.5 | 0.1 | | | Private | | | | | | | | | |
| | Public | 12.0 | 13.8 | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Tubewell, borehole | | | | borehole | Tubewell, borehole | 6.7 | 6.0 | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Traditional wells | 12.5 | 13.9 | 0.0 | Plain well | Traditional wells | 0.8 | 1.6 | | | | | | | |
| | Private | 0.5 | 0.1 | | | Private | | | | | | | | | |
| | Public | 12.0 | 13.8 | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Protected well | | | | | Protected well | | | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Unprotected well | 12.5 | 13.9 | 0.0 | | Unprotected well | | | | | | | | | |
| | Private | 0.5 | 0.1 | | | Private | | | | | | | | | |
| | Public | 12.0 | 13.8 | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| Open well in compound/plot | All springs | 18.5 | 35.2 | | | All springs | 13.3 | 32.9 | | | | | | | |
| Open public well | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| Spring | Protected spring | | | | Protected spring | Protected spring | 8.7 | 22.7 | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Unprotected spring | | | | Unprotected spring | Unprotected spring | 4.7 | 10.2 | | | | | | | |
| | Private | | | | | Private | | | | | | | | | |
| | Public | | | | | Public | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Rainwater | 0.1 | 0.3 | | | Rainwater | | | | | | | | | |
| Rainwater | Covered cistern/tank | 0.1 | 0.3 | | | Covered cistern/tank | | | | | | | | | |
| | Uncovered cistern/tank | | | | | Uncovered cistern/tank | | | | | | | | | |
| | Bottled water | 0.1 | 0.0 | | | Bottled water | | | | | | | | | |
| | with other improved | | | | | with other improved | | | | | | | | | |
| Bottled water | without other improved | 0.1 | 0.0 | | | without other improved | | | | | | | | | |
| | Surface water | 6.8 | 21.1 | | River/Stream/lake/pool | Surface water | 9.2 | 19.4 | | | | | | | |
| River, stream | River | 4.9 | 12.2 | | | River | | | | | | | | | |
| | Lake | | | | | Lake | | | | | | | | | |
| Dam | Dam | 0.4 | 0.9 | | | Dam | | | | | | | | | |
| Pond, lake | Pond | 1.5 | 8.0 | | | Pond | | | | | | | | | |
| | Stream | | | | | Stream | | | | | | | | | |
| | Irrigation channel | | | | | Irrigation channel | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other improved sources | | | | | Other improved sources | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | Other non-improved | 1.3 | 0.5 | | | Other non-improved | 1.0 | 1.1 | | | | | | | |
| | Cart with small tank/drum | | | | | Cart with small tank/drum | | | | | | | | | |
| Tanker, truck | Tanker truck provided | 0.1 | 0.0 | | | Tanker truck provided | | | | | | | | | |
| Other | Other | 1.2 | 0.5 | | Other | Other | 1.0 | 1.1 | | | | | | | |
| | Other | | | | | Other | | | | | | | | | |
| | DK/missing | | | | | DK/missing | | | | | | | | | |
| | Total | 100.0 | 99.9 | | | Total | 100.0 | 99.9 | | | | | | | |
| Calculations | | | | | Calculations | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Estimations | | | | | Estimations | | | | | | | | | | |
| | Protected springs estimated on basis of EICV06 | 12.0 | 24.3 | | | Wells considered improved based on ratio DHS05 | 0.2 | 0.5 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Access to improved drinking water sources : | | 73% | 53% | | Access to improved drinking water sources : | | 85% | 68% | | | | | | | |
| Access to house connections : | | 14% | 1% | | Access to house connections : | | 14% | 0% | | | | | | | |
| Used for the estimates: | | Yes | Yes | | Used for the estimates: | | Yes | Yes | | | | | | | |
| Used for the estimates: | | Yes | Yes | | Used for the estimates: | | Yes | Yes | | | | | | | |
| Ratios | HC / Tap water | 25% | 2% | | Ratios | HC / Tap water | 20% | 1% | | | | | | | |
| | Public tap / Tap water | 75% | 98% | | | Public tap / Tap water | 22% | 77% | | | | | | | |
| | Tubewell + protected well / All wells | 30% | 31% | | | Tubewell + protected well / All wells | | | | | | | | | |
| | Protected wells / Traditional wells | | | | | Protected wells / Traditional wells | | | | | | | | | |
| | Tubewell / All wells | | | | | Tubewell / All wells | 89% | 79% | | | | | | | |
| | Protected springs / All springs | | | | | Protected springs / All springs | 65% | 69% | | | | | | | |
| | Protect. well & spring / well & spring | 30% | 31% | | | Protect. well & spring / well & spring | 77% | 74% | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | Number of people covered by the survey: | | | | | Number of people covered by the survey: | | | | | | | | | |
| | Number of households covered by the survey: | | | | | Number of households covered by the survey: | | | | | | | | | |
| | Total population: | | | | | Total population: | | | | | | | | | |
| Comments | | | | | Comments | | | | | | | | | | |

| Rwanda | | | DRINKING WATER | | | | | | | |
|---|---------|------|------------------|----------|-------|----------|------------------|----------|-------|----------|
| | | | URBAN | | | | RURAL | | | |
| | | | House connection | | Total | | House connection | | Total | |
| Source | Code | Year | Used | Not used | Used | Not used | Used | Not used | Used | Not used |
| Demographic and Health Survey | DHS92 | 1992 | 26.0 | | 88.2 | | 0.2 | | 58.7 | |
| Global Water Supply and Sanitation Assessment 2000. | JMP99 | 1999 | | 59.2 | | 60.0 | | 3.3 | | 40.0 |
| Demographic and Health Survey | DHS00 | 2000 | 33.9 | | 91.2 | | 1.0 | | 66.7 | |
| Multiple Indicator Cluster Survey | MICS00 | 2000 | 30.6 | | 90.9 | | 0.3 | | 67.6 | |
| Census | CEN02 | 2002 | 16.4 | | 80.1 | | 0.4 | | 65.0 | |
| Enquête Intégrale sur les Conditions de Vie des Ménages | EICV02 | 2002 | 14.0 | | 83.1 | | 0.2 | | 68.3 | |
| Demographic and Household Survey | DHS05 | 2005 | 14.1 | | 72.8 | | 0.5 | | 53.5 | |
| Enquête Intégrale sur les Conditions de Vie des Ménages | EICV06 | 2006 | 13.8 | | 84.6 | | 0.2 | | 68.1 | |
| Enquête Intégrale sur les Conditions de Vie des Ménages | EICV98 | 1998 | 22.5 | | 90.0 | | 0.1 | | 68.4 | |
| Enquête Intégrale sur les Conditions de Vie des Ménages | EICV01 | 2001 | | 22.5 | | 22.6 | | 0.1 | | 0.7 |
| Questionnaire Unifié sur les Indicateurs de Bien-être de Base | QUIBB03 | 2003 | 19.4 | | | 87.5 | 0.2 | | | 83.3 |
| | DHS08 | 2008 | 17.0 | | 72.5 | | 0.9 | | 56.7 | |

Rwanda - urban - Use of improved drinking water sources



Rwanda - rural - Use of improved sanitation facilities



Drinking Water

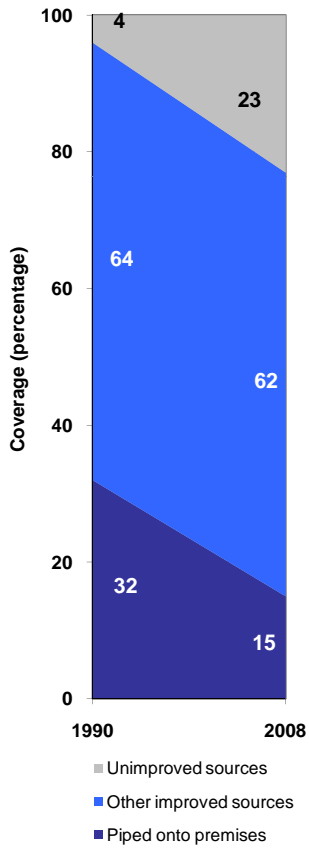
| Rwanda | Drinking water coverage estimates | | | | | |
|-----------------------|-----------------------------------|------|-----------|------|-----------|------|
| | Urban (%) | | Rural (%) | | Total (%) | |
| | 1990 | 2008 | 1990 | 2008 | 1990 | 2008 |
| Piped into premises | 32 | 15 | 0 | 1 | 2 | 4 |
| Other improved source | 64 | 62 | 66 | 61 | 66 | 61 |
| Unimproved source | 4 | 23 | 34 | 38 | 32 | 35 |

Source: WHO/UNICEF JMP, 2010

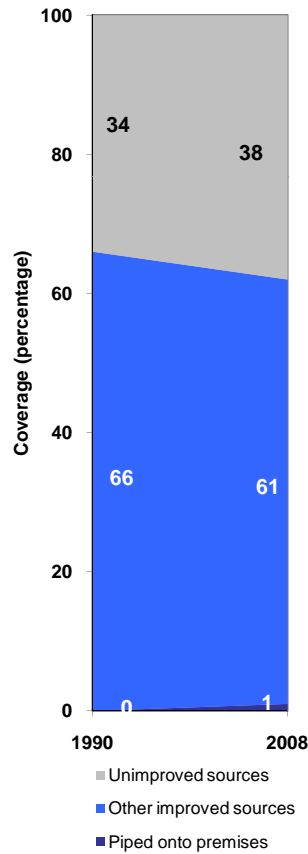
| Rwanda | Urban | | Rural | | Total | |
|--------------------|-------|-------|-------|------|-------|------|
| | 1990 | 2008 | 1990 | 2008 | 1990 | 2008 |
| Population (x1000) | 387 | 1 778 | 6763 | 7943 | 7150 | 9721 |

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

