WHO / UNICEF

Joint Monitoring Programme for Water Supply and Sanitation

Estimates for the use of Improved Drinking-Water Sources

Updated March 2010

South Africa

wssinfo.org
### Access to Drinking Water Sources

#### South Africa

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#### Comments

- **October Household Surveys**
- **Access to Drinking Water Sources**
- **Table_W**
- **March 2010**
### October Household Surveys

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#### Irrigation channels

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#### Number of people covered by the survey

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#### Number of households covered by the survey

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#### Remarks

- **October Household Surveys**
- **OHS96**
- **South Africa**
- **OHS97**
- **South Africa**
- **March 2010**

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**Table_W**
### Access to Drinking Water Sources

#### South Africa

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#### Water Sources

| Ground water   | 2.0        | 2.0       | 2.0       | 2.0        | 2.0       | 2.0       |
| Protected ground water | 4.0        | 4.0       | 4.0       | 4.0        | 4.0       | 4.0       |
| Unprotected ground water | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Surface water  | 2.0        | 2.0       | 2.0       | 2.0        | 2.0       | 2.0       |
| Bottled water  | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Water carrier / tanker | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected well & spring | 2.0        | 2.0       | 2.0       | 2.0        | 2.0       | 2.0       |
| Unprotected well & spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected well  | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected well | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected spring | 2.0        | 2.0       | 2.0       | 2.0        | 2.0       | 2.0       |
| Unprotected spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected ground water | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected ground water | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected tap   | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected tap | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected well & spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected well & spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected well  | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected well | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Protected spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |
| Unprotected spring | 0.0        | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       |

#### Calculations

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#### Access to Improved Drinking Water Sources

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#### Comments

- Number of people covered by the survey: Total population: 100%
- Number of households covered by the survey: Total population: 100%
- Number of households covered by the survey: Total population: 100%
- Number of households covered by the survey: Total population: 100%
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</tr>
<tr>
<td>Running tapwater in dwelling</td>
<td></td>
<td>38.9%</td>
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<td>38.9%</td>
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<tr>
<td></td>
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</tr>
<tr>
<td>Public tap, standing</td>
<td></td>
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<tr>
<td></td>
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</tr>
<tr>
<td>Ground water</td>
<td></td>
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<td>72.2%</td>
</tr>
<tr>
<td>Protected ground water</td>
<td></td>
<td>72.2%</td>
<td>27.8%</td>
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<tr>
<td>All wells</td>
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<td>50.0%</td>
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<tr>
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</tr>
<tr>
<td>Protected well in village</td>
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<td>50.4%</td>
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<tr>
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</tr>
<tr>
<td>Running tapwater on site</td>
<td></td>
<td>50.2%</td>
<td>49.8%</td>
<td>50.0%</td>
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<tr>
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<td>Other improved sources</td>
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<tr>
<td>Number of people covered by the census</td>
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<tr>
<td>Number of households covered by the census</td>
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</tr>
<tr>
<td>Access to improved drinking water sources</td>
<td>CEN01 South Africa</td>
<td>Access to improved drinking water sources</td>
<td>WHS03 South Africa</td>
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<tr>
<td>------------------------------------------</td>
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<tr>
<td><strong>Classification</strong></td>
<td>Urban</td>
<td>Rural</td>
<td>Total</td>
<td>Urban</td>
</tr>
<tr>
<td>Tap water</td>
<td>99.1%</td>
<td>92.3%</td>
<td>96.8%</td>
<td>94.4%</td>
</tr>
<tr>
<td>Surface water</td>
<td>99.4%</td>
<td>92.7%</td>
<td>96.7%</td>
<td>94.6%</td>
</tr>
<tr>
<td>Rural water</td>
<td>96.4%</td>
<td>92.9%</td>
<td>94.5%</td>
<td>95.1%</td>
</tr>
<tr>
<td>Ground water</td>
<td>99.7%</td>
<td>92.9%</td>
<td>96.6%</td>
<td>94.5%</td>
</tr>
<tr>
<td>Water taken directly from pond-water or stream</td>
<td>99.4%</td>
<td>92.8%</td>
<td>95.4%</td>
<td>94.7%</td>
</tr>
<tr>
<td><strong>Other non-improved</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water from hand pump or otherwise</td>
<td>99.7%</td>
<td>92.8%</td>
<td>95.4%</td>
<td>94.6%</td>
</tr>
<tr>
<td><strong>Other improved sources</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water from hand pump or otherwise</td>
<td>99.8%</td>
<td>92.8%</td>
<td>95.4%</td>
<td>94.6%</td>
</tr>
<tr>
<td><strong>Calculations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>99.8%</td>
<td>92.8%</td>
<td>95.4%</td>
<td>94.7%</td>
</tr>
<tr>
<td><strong>Estimations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improved springs based on ratio CEN01</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
</tr>
<tr>
<td><strong>Access to house connections</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Access the water</td>
<td>99.5%</td>
<td>92.5%</td>
<td>95.5%</td>
<td>94.6%</td>
</tr>
<tr>
<td>Use the water</td>
<td>99.4%</td>
<td>92.4%</td>
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<td>94.5%</td>
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<tr>
<td><strong>Access to improved drinking water sources</strong></td>
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<tr>
<td>Access to improved drinking water sources</td>
<td>100%</td>
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<td><strong>Calculations</strong></td>
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</tr>
<tr>
<td>Number of people covered by the survey</td>
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</tr>
<tr>
<td>Number of households covered by the survey</td>
<td></td>
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</tbody>
</table>

*March 2010*
### Access to Improved Drinking Water Sources

#### CEN96

<table>
<thead>
<tr>
<th>Source</th>
<th>Urban</th>
<th>Rural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public tap</td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
<tr>
<td>Other</td>
<td>5.0%</td>
<td>50.0%</td>
<td>28.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
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</table>

#### CEN07

<table>
<thead>
<tr>
<th>Source</th>
<th>Urban</th>
<th>Rural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public tap</td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
<tr>
<td>Other</td>
<td>5.0%</td>
<td>50.0%</td>
<td>28.0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
</tbody>
</table>

### Access to House Connections

#### CEN96

<table>
<thead>
<tr>
<th>Source</th>
<th>Urban</th>
<th>Rural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water inside the dwelling</td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
</tbody>
</table>

#### CEN07

<table>
<thead>
<tr>
<th>Source</th>
<th>Urban</th>
<th>Rural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piped water inside the dwelling</td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>98.6%</td>
<td>50.0%</td>
<td>64.9%</td>
</tr>
</tbody>
</table>

### Calculations

#### CEN96

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprinkles, based on CEN96</td>
<td>0.0</td>
</tr>
</tbody>
</table>

#### CEN07

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprinkles, based on CEN96</td>
<td>0.0</td>
</tr>
</tbody>
</table>

### Access to Improved Drinking Water Sources

#### CEN96

<table>
<thead>
<tr>
<th>Access Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>50% of wells considered improved</strong></td>
<td>0.0</td>
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</table>

#### CEN07

<table>
<thead>
<tr>
<th>Access Source</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>50% of wells considered improved</strong></td>
<td>0.0</td>
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</table>

### Access to House Connections

#### CEN96

<table>
<thead>
<tr>
<th>Access Source</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>10% of population considered</strong></td>
<td>10.0</td>
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#### CEN07

<table>
<thead>
<tr>
<th>Access Source</th>
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<tbody>
<tr>
<td><strong>10% of population considered</strong></td>
<td>10.0</td>
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</table>

### Ratios

#### CEN96

<table>
<thead>
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<th>Ratio</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>Top water</strong></td>
<td>98.6%</td>
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</tbody>
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#### CEN07

<table>
<thead>
<tr>
<th>Ratio</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>Top water</strong></td>
<td>98.6%</td>
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</tbody>
</table>

### Comments

- "Access is an aggregation of other formal and urban improved sources as a proportion of total formal and urban sources."
### Access to improved drinking water sources

<table>
<thead>
<tr>
<th>General Household Survey</th>
<th>GHS06</th>
<th>General Household Survey</th>
<th>GHS07</th>
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<tr>
<td><strong>South Africa</strong></td>
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<td><strong>South Africa</strong></td>
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<td><strong>2006</strong></td>
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<td><strong>2007</strong></td>
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<tr>
<td><strong>Original denomination</strong></td>
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<td><strong>Original denomination</strong></td>
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</tr>
<tr>
<td>Tap water</td>
<td></td>
<td>Tap water</td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>96%</td>
<td>Rural</td>
<td>96%</td>
</tr>
<tr>
<td>Rural</td>
<td>96%</td>
<td>Total</td>
<td>96%</td>
</tr>
<tr>
<td>Helpful information</td>
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<tr>
<td><strong>March 2010</strong></td>
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<td><strong>March 2010</strong></td>
<td></td>
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<tr>
<td><strong>Source</strong>: Statistics South Africa</td>
<td>GHS06</td>
<td><strong>Source</strong>: Statistics South Africa</td>
<td>GHS07</td>
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#### Table

<table>
<thead>
<tr>
<th>Classification</th>
<th>Urban</th>
<th>Rural</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tap water</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Ground water</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected ground water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected ground water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Surface water</strong></td>
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</tr>
<tr>
<td>Surface water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unprotected spring</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other improved sources</strong></td>
<td></td>
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</tr>
<tr>
<td>Bottled water</td>
<td></td>
<td></td>
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<tr>
<td>Rainwater</td>
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<tr>
<td><strong>Access to house connections</strong></td>
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<tr>
<td>House connections</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Piped water to yard/plot</td>
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<tr>
<td>Piped water into dwelling</td>
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#### Comments

- Calculations
  - 99% of the total population is covered by the survey.
<table>
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<th>Access to drinking water sources</th>
<th>DHS03</th>
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<td><strong>Rural</strong></td>
</tr>
<tr>
<td>Tap water</td>
<td>98.2</td>
<td>64.1</td>
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<td>Ground water</td>
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<td>11.0</td>
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<td>Unprotected well</td>
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<tr>
<td>Public tap</td>
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<tr>
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<td>9.7</td>
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<tr>
<td>Protected spring</td>
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<tr>
<td>Unprotected spring</td>
<td>0.1</td>
<td>3.3</td>
</tr>
<tr>
<td>Protected well in dwelling</td>
<td>0.2</td>
<td>4.8</td>
</tr>
<tr>
<td>Unprotected well in dwelling</td>
<td>0.1</td>
<td>3.3</td>
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<tr>
<td>Tap water in dwelling</td>
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<tr>
<td>Other</td>
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<td>3.6</td>
</tr>
<tr>
<td>Protected well</td>
<td>0.3</td>
<td>8.1</td>
</tr>
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<tr>
<td>Other</td>
<td>0.3</td>
<td>8.1</td>
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<td>Surface water</td>
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<td>Other non-improved</td>
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<td>72%</td>
</tr>
<tr>
<td>Number of households covered by the survey</td>
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<td>72%</td>
</tr>
<tr>
<td>Total population</td>
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<td>511.4</td>
</tr>
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<td>50% of springs considered improved</td>
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<td>Access to improved drinking water sources</td>
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<td>72%</td>
</tr>
<tr>
<td>Access to house connections</td>
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<td>72%</td>
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<td>Percent of people using tap water</td>
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<td>49%</td>
</tr>
<tr>
<td>Percent of people using surface water</td>
<td>95%</td>
<td>3%</td>
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<tr>
<td>Percent of people using bottled water</td>
<td>95%</td>
<td>36%</td>
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<tr>
<td>Percent of people using protected well</td>
<td>95%</td>
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<td>Percent of people using public tap</td>
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<td>Percent of people using protected well in dwelling</td>
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### Use of improved drinking water sources

**Estimated coverage**

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<th>Year</th>
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<td>2005</td>
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<td>88%</td>
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<td>2008</td>
<td>99%</td>
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**Total improved access**

**Household connections (HC)**

- Red diamonds: Used for the estimates
- Blue squares: Used for the estimates
- Red line: Estimates
- Blue line: Estimates

### Graph Details

- **Year range:** 1980 to 2008
- **Coverage range:** 0% to 100%

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South Africa - urban -
Use of improved drinking water sources

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South Africa

UW

March 2010
South Africa - rural -

Use of improved drinking water sources

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>HC</th>
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<tbody>
<tr>
<td>1990</td>
<td>66%</td>
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<td>67%</td>
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<td>2000</td>
<td>71%</td>
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<td>2005</td>
<td>75%</td>
<td>30%</td>
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<td>2008</td>
<td>78%</td>
<td>32%</td>
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Estimated coverage

- Total improved access
- Household connections (HC)

Legend:
- Used for the estimates
- Estimates