



WHO / UNICEF

**Joint Monitoring Programme
for Water Supply and Sanitation**

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

South Africa

Access to drinking water sources		OHS94			South Africa			Access to drinking water sources		OHS95			South Africa						
October Household Surveys					1994					October Household Surveys					1995				
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total										
Tap water					Tap water					Tap water									
	House connections	98.6	51.7	80.7		House connections	97.9	51.6	79.6		House connections	93.9	37.6	71.6					
Running tapwater in dwelling	Piped water into dwelling	74.7	12.1	50.0	Running tapwater in dwelling	Piped water into dwelling	74.1	16.8	51.4		Piped water into dwelling	74.1	16.8	51.4					
Running tapwater on site	Piped water to yard/plot	17.6	20.4	18.8	Running tapwater on site	Piped water to yard/plot	19.8	20.8	20.2		Piped water to yard/plot	19.8	20.8	20.2					
Piped to public tap/kiosk	Public tap, standpipe	6.3	19.2	11.9	Piped to public tap/kiosk	Public tap, standpipe	4.0	14.0	8.0		Public tap, standpipe	4.0	14.0	8.0					
	Other					Other					Other								
Ground water					Ground water					Ground water									
	Protected ground water	0.8	24.3	10.6		Protected ground water	1.0	22.4	9.4		Protected ground water	0.8	17.1	7.1					
	Unprotected ground water	0.7	18.1	7.9		Unprotected ground water	0.8	17.7	7.1		Unprotected ground water	0.1	4.1	1.7					
	Protected wells or springs	0.1	4.9	2.1		Protected wells or springs	0.1	4.1	1.7		Protected wells or springs	0.8	17.1	7.1					
	Private	0.4	7.3	3.3		Private	0.4	5.6	2.4		Private	0.4	5.6	2.4					
	Public	0.2	10.0	4.2		Public	0.3	10.7	4.1		Public	0.3	10.7	4.1					
	Other					Other					Other								
	Unprotected wells or springs	0.1	4.9	2.1		Unprotected wells or springs	0.1	4.1	1.7		Unprotected wells or springs	0.1	4.1	1.7					
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	All wells	0.6	18.6	8.1		All wells	0.8	16.9	7.1		All wells	0.4	5.8	2.5					
	Private	0.4	7.7	3.5		Private	0.4	5.8	2.5		Private	0.4	5.8	2.5					
	Public	0.2	10.9	4.6		Public	0.4	11.1	4.6		Public	0.4	11.1	4.6					
	Other					Other					Other								
	Tubewell, borehole	0.6	17.3	7.5		Tubewell, borehole	0.7	15.7	6.5		Tubewell, borehole	0.7	15.7	6.5					
	Private	0.4	7.3	3.3		Private	0.4	5.6	2.4		Private	0.4	5.6	2.4					
Borehole with handpump/engine on site	Public	0.2	10.0	4.2	Borehole with handpump/engine on site	Public	0.3	10.1	4.1		Public	0.3	10.1	4.1					
Borehole with handpump/engine, Communal	Other				Borehole with handpump/engine, Communal	Other					Other								
	Traditional wells	0.0	1.3	0.6		Traditional wells	0.1	1.2	0.6		Traditional wells	0.1	1.2	0.6					
	Private	0.0	0.4	0.2		Private	0.0	0.2	0.1		Private	0.0	0.2	0.1					
Well (non-borehole) on site	Public	0.0	0.9	0.4	Well (non-borehole) on site	Public	0.1	1.0	0.5		Public	0.1	1.0	0.5					
Well (non-borehole): communal	Other				Well (non-borehole): communal	Other					Other								
	Protected well					Protected well					Protected well								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Unprotected well					Unprotected well					Unprotected well								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	All springs	0.2	5.7	2.5		All springs	0.2	5.5	2.3		All springs	0.2	5.5	2.3					
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Protected spring	0.1	0.8	0.4	Protected spring	0.1	1.4	0.6		Protected spring	0.1	1.4	0.6						
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
Unprotected spring	Unprotected spring	0.1	4.9	2.1	Unprotected spring	Unprotected spring	0.1	4.1	1.7		Unprotected spring	0.1	4.1	1.7					
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Rainwater	0.0	1.6	0.7		Rainwater	0.2	4.2	1.8		Rainwater	0.2	4.2	1.8					
Rainwater tank	Covered cistern/tank	0.0	1.6	0.7	Rainwater tank	Covered cistern/tank	0.2	4.2	1.8		Covered cistern/tank	0.2	4.2	1.8					
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank								
	Bottled water					Bottled water					Bottled water								
	with other improved					with other improved					with other improved								
	without other improved					without other improved					without other improved								
	Surface water	0.1	19.2	8.3		Surface water	0.2	18.7	7.5		Surface water	0.2	18.7	7.5					
	River					River					River								
	Lake					Lake					Lake								
Dam/pool/stagnant water	Dam	0.0	2.8	1.2	Dam/pool/stagnant water	Dam	0.0	3.3	1.3		Dam	0.0	3.3	1.3					
	Pond					Pond					Pond								
Flowing water / stream	Stream	0.1	16.4	7.1	Flowing water / stream	Stream	0.2	15.4	6.2		Stream	0.2	15.4	6.2					
	Irrigation channel					Irrigation channel					Irrigation channel								
	Other					Other					Other								
	Other improved sources					Other improved sources					Other improved sources								
	Other					Other					Other								
	Other					Other					Other								
	Other non-improved	0.5	3.1	1.6		Other non-improved	0.8	3.2	1.7		Other non-improved	0.5	2.5	1.2					
Water carrier / tanker	Cart with small tank/drum	0.1	1.8	0.8	Water carrier / tanker	Cart with small tank/drum	0.5	2.5	1.2		Cart with small tank/drum	0.5	2.5	1.2					
	Tanker truck provided					Tanker truck provided					Tanker truck provided								
Other	Other	0.4	1.3	0.8	Other	Other	0.3	0.7	0.5		Other	0.3	0.7	0.5					
	Other					Other					Other								
	DK/missing					DK/missing					DK/missing								
	Total	100.0	99.9	101.9		Total	100.1	100.1	100.0		Total	100.1	100.1	100.0					
Calculations					Calculations					Calculations									
	50% of traditional wells considered improved	0.0	0.7			50% of traditional wells considered improved	0.1	0.6			50% of traditional wells considered improved	0.1	0.6						
Estimations					Estimations					Estimations									
Access to improved drinking water sources : 99%					Access to improved drinking water sources : 99%					Access to improved drinking water sources : 99%									
Access to house connections : 92%					Access to house connections : 92%					Access to house connections : 94%									
Used for the estimates : No					Used for the estimates : No					Used for the estimates : No									
Used for the estimates : No					Used for the estimates : No					Used for the estimates : No									
Ratios					Ratios					Ratios									
	HC / Tap water	94%	63%			HC / Tap water	96%	73%			HC / Tap water	96%	73%						
	Public tap / Tap water	6%	37%			Public tap / Tap water	4%	27%			Public tap / Tap water	4%	27%						
	Tubewell + protected well / All wells					Tubewell + protected well / All wells					Tubewell + protected well / All wells								
	Protected wells / Traditional wells					Protected wells / Traditional wells					Protected wells / Traditional wells								
	Tubewell / All wells	100%	93%			Tubewell / All wells	88%	93%			Tubewell / All wells	88%	93%						
	Protected springs / All springs	50%	14%			Protected springs / All springs	50%	25%			Protected springs / All springs	50%	25%						
	Protect. well & spring / well & spring	88%	79%			Protect. well & spring / well & spring	89%	81%			Protect. well & spring / well & spring	89%	81%						
Number of people covered by the survey:					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:					Number of households covered by the survey:									
Total population:					Total population:					Total population:									
Comments					Comments					Comments									

Access to drinking water sources		OHS96			South Africa			Access to drinking water sources		OHS97			South Africa		
October Household Surveys								October Household Surveys							
					1996								1997		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	98.3	57.3	81.9		Tap water	98.9	56.3	82.2						
	House connections	86.9	25.4	62.2		House connections	88.4	26.7	64.3						
Running tapwater in dwelling	Piped water into dwelling	68.7	10.9	45.5	Running tapwater in dwelling	Piped water into dwelling	63.4	8.2	41.8						
Running tapwater on site/in yard	Piped water to yard/plot	16.2	14.5	16.7	Running tapwater on site/in yard	Piped water to yard/plot	25.0	18.5	22.5						
Public tap	Public tap, standpipe	11.4	31.9	19.7	Public tap	Public tap, standpipe	10.5	29.6	17.9						
	Other					Other									
	Ground water		16.3	6.7		Ground water		17.7	7.0						
	Protected ground water		9.9	4.7		Protected ground water		10.5	4.2						
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	0.0	9.9	4.1		Protected wells or springs	0.0	10.5	4.2						
	Private	0.0	3.1	1.3		Private	0.0	2.6	1.0						
	Public	0.0	6.8	2.8		Public	0.0	7.9	3.2						
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
Well	All wells	0.0	2.2	0.9	Well	All wells	0.0	2.3	0.9						
	Private	0.0	3.1	1.3		Private	0.0	2.6	1.0						
	Public	0.0	6.8	2.8		Public	0.0	7.9	3.2						
	Other					Other									
	Tubewell, borehole	0.0	9.9	4.1		Tubewell, borehole	0.0	10.5	4.2						
Borehole with handpump on site	Private	0.0	3.1	1.3	Borehole with handpump on site	Private	0.0	2.6	1.0						
Borehole with handpump: Communal	Public	0.0	6.8	2.8	Borehole with handpump: Communal	Public	0.0	7.9	3.2						
	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	0.0	4.2	1.7	Spring	All springs	0.0	4.9	1.9						
	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 tank	Rainwater	0.0	1.7	0.7	Rainwater tank	Rainwater	0.0	0.6	0.3						
	Covered cistern/tank	0.0	1.7	0.7		Covered cistern/tank	0.0	0.6	0.3						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
	Surface water	0.2	21.7	6.9		Surface water	0.0	21.8	8.5						
	River					River									
	Lake					Lake									
Dam/pool/stagnant water	Dam	0.0	5.7	2.3	Dam/pool/stagnant water	Dam	0.0	4.1	1.6						
	Pond					Pond									
Flowing water / stream	Stream	0.2	16.0	6.6	Flowing water / stream	Stream	0.0	17.7	6.9						
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	1.0	2.7	1.6		Other non-improved	0.6	3.3	1.7						
Water carrier / tanker	Cart with small tank/drum	0.5	1.8	1.0	Water carrier / tanker	Cart with small tank/drum	0.2	2.1	1.0						
	Tanker truck provided					Tanker truck provided									
Other	Other	0.5	0.9	0.6	Other	Other	0.4	1.2	0.7						
	Other					Other									
Unspecified	DK/missing			0.1	Unspecified	DK/missing			0.2						
	Total	99.5	99.7	99.9		Total	99.5	99.7	99.9						
Calculations					Calculations										
Estimations	50% of Wells improved	0.0	1.1		Estimations	50% of Wells improved	0.0	1.2							
	Improved springs based on ratio OHS95	0.0	1.1			Improved springs based on ratio OHS95	0.0	1.2							
Access to improved drinking water sources :		98%	71%	87%	Access to improved drinking water sources :		99%	70%	87%						
Access to house connections :		87%	25%	62%	Access to house connections :		88%	27%	64%						
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	88%	44%		Ratios	HC / Tap water	89%	47%							
	Public tap / Tap water	12%	56%			Public tap / Tap water	11%	53%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	#DIV/0!	82%			Tubewell / All wells	#DIV/0!	82%							
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring					Protect. well & spring / well & spring									
	Rainwater among rainwater and wells	#DIV/0!	12%												
	Springs among surface water	0%	16%												
	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										

Access to drinking water sources		OHS98			South Africa			Access to drinking water sources		DHS98			South Africa		
October Household Surveys								Demographic and Health Survey							
					1998								1998		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	98.2	57.7	82.1		Tap water	97.9	57.8	81.4						
	House connections	87.2	29.3	64.1		House connections	86.6	26.5	61.9						
Running tapwater in dwelling	Piped water into dwelling	62.4	8.1	40.7	Piped into residence	Piped water into dwelling	59.0	10.0	38.9						
Running tapwater on site/in yard	Piped water to yard/plot	24.8	21.2	23.4	Piped water in site/yard	Piped water to yard/plot	27.6	16.5	23.0						
Public tap	Public tap, standpipe	11.0	28.4	18.0	Public tap	Public tap, standpipe	11.3	31.3	19.5						
	Other					Other									
	Ground water	0.3	20.1	8.3		Ground water	0.2	7.0	3.0						
	Protected ground water	0.3	9.0	3.8		Protected ground water	0.2	7.0	3.0						
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	0.3	9.0	3.8		Tubewell, borehole									
	Private	0.0	2.2	0.9		Private									
	Public	0.3	6.8	2.9		Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
Well	All wells	0.0	2.2	0.9		All wells	0.2	7.0	3.0						
	Private	0.0	2.2	0.9		Private									
	Public	0.3	6.8	2.9		Public									
	Other					Other									
	Tubewell, borehole	0.3	9.0	3.8	Borehole/well	Tubewell, borehole	0.2	7.0	3.0						
	Private	0.0	2.2	0.9		Private									
	Public	0.3	6.8	2.9		Public									
	Other					Other									
Borehole with handpump on site															
Borehole with handpump: Communal															
	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	0.0	8.9	3.6		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 tank	Rainwater	0.0	0.7	0.3		Rainwater	0.0	1.6	0.7						
	Covered cistern/tank	0.0	0.7	0.3	Rain water tank	Covered cistern/tank	0.0	1.6	0.7						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water	0.1	0.2	0.1						
	with other improved					with other improved									
	without other improved				Bottled water	without other improved	0.1	0.2	0.1						
	Surface water	0.0	17.0	6.9	Dam/river/ream/spring	Surface water	0.2	28.5	11.8						
	River					River									
	Lake					Lake									
Dam/pool/stagnant water	Dam	0.0	3.8	1.6		Dam									
	Pond					Pond									
Flowing water / stream	Stream	0.0	13.2	5.3		Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	1.0	4.5	2.4		Other non-improved	0.9	4.3	2.4						
Water carrier / tanker	Cart with small tank/drum	0.3	2.8	1.3	Water carrier/tanker	Cart with small tank/drum	0.3	1.8	1.0						
	Tanker truck provided					Tanker truck provided									
Other	Other	0.7	1.7	1.1	other	Other	0.6	2.5	1.4						
	Other					Other									
Unspecified	DK/missing				missing	DK/missing	1.0	1.0	1.0						
	Total	99.5	100.0	100.0		Total	100.3	100.4	100.4						
Calculations					Calculations										
Estimations	50% of Wells improved	0.0	1.1		Estimations										
	Improved springs based on ratio OHS95	0.0	2.3												
Access to improved drinking water sources : 99% 71% 86%					Access to improved drinking water sources : 98% 66% 85%										
Access to house connections : 87% 29% 64%					Access to house connections : 87% 27% 62%										
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	89%	51%		Ratios	HC / Tap water	88%	46%							
	Public tap / Tap water	11%	49%			Public tap / Tap water	12%	54%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	#DIV/0!	80%			Tubewell / All wells	100%	100%							
	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:									
	Number of households covered by the survey:					Number of households covered by the survey:									
	Total population:					Total population:									
Comments					Comments										

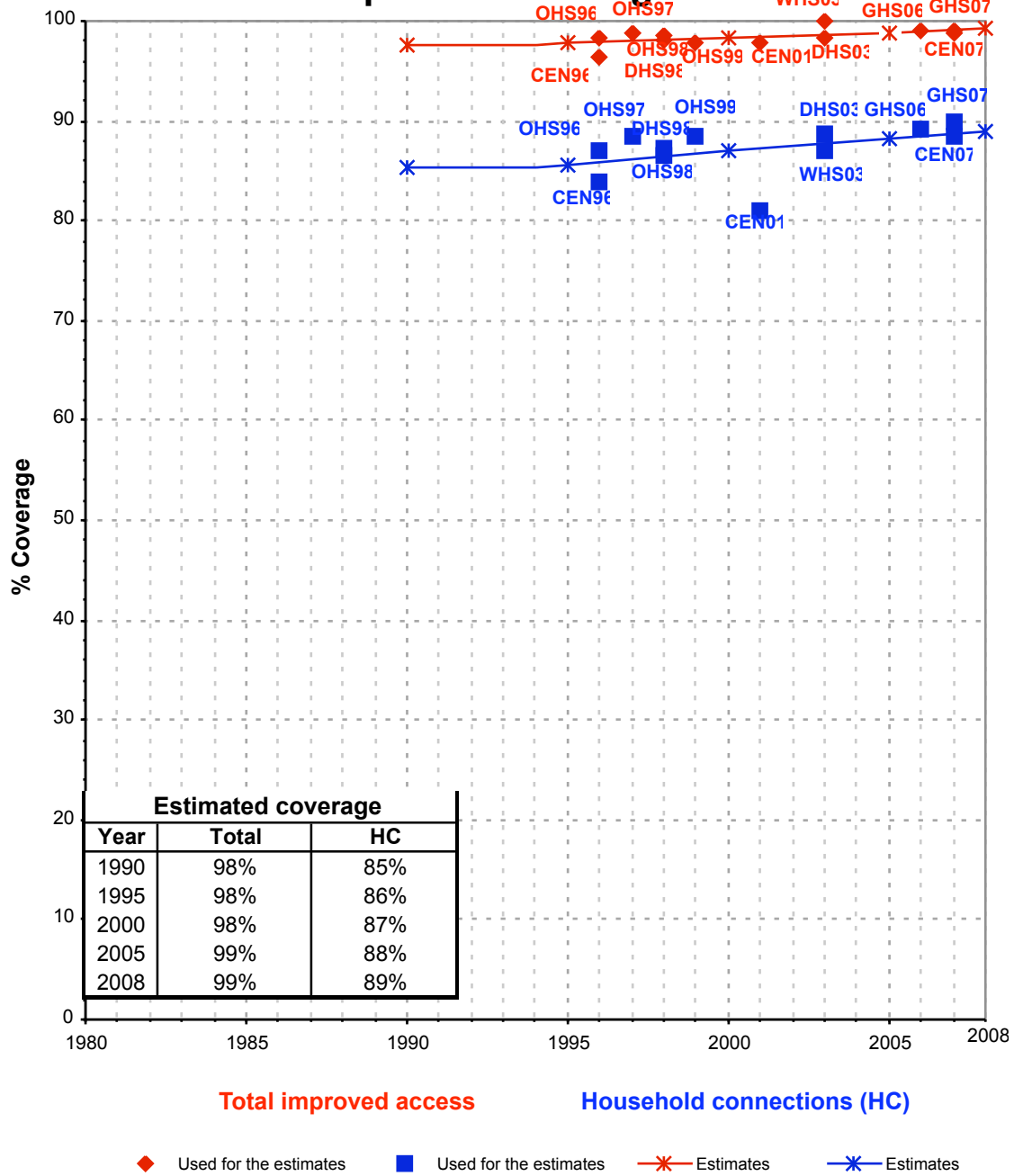
Access to drinking water sources		OHS99			South Africa			Access to drinking water sources		CEN01			South Africa		
October Household Surveys					1999			Census					2001		
					10% micro dataset from IPUMS										
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	97.8	60.6	83.0		Tap water	97.6	60.5							
	House connections	89.4	31.1	65.7		House connections	82.7	27.3							
Running tapwater in dwelling	Piped water into dwelling	58.5	8.4	38.7	Piped water (tap) inside dwelling	Piped water into dwelling	48.0	6.4							
Running tapwater on site/in yard	Piped water to yard/plot	29.9	22.7	27.0	Piped water (tap) inside yard	Piped water to yard/plot	34.7	20.9							
Public tap	Public tap, standpipe	9.4	29.5	17.3	Piped water on community stand	Public tap, standpipe	14.9	33.2							
	Other					Other									
	Ground water	0.2	18.8	7.7		Ground water	0.3	11.7							
	Protected ground water	0.1	8.3	3.4		Protected ground water	0.2	6.4							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	0.1	8.3	3.4		Protected wells or springs	0.2	6.4	0.0						
	Private					Private									
	Public	0.1	6.1	2.5		Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.0								
	Private					Private									
	Public					Public									
	Other					Other									
Well	All wells	0.0	3.2	1.3		All wells	0.2	6.4							
	Private	0.0	2.2	0.9		Private									
	Public	0.1	6.1	2.5		Public									
	Other					Other									
	Tubewell, borehole	0.1	8.3	3.4	Borehole	Tubewell, borehole	0.2	6.4							
	Private	0.0	2.2	0.9		Private									
Borehole with handpump on site	Public	0.1	6.1	2.5		Public									
Borehole with handpump: Communal	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	0.1	7.3	3.0	Spring	All springs	0.1	5.3							
	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 tank	Rainwater	0.0	0.9	0.4	Rainwater tank	Rainwater	0.1	1.3							
	Covered cistern/tank	0.0	0.9	0.4		Covered cistern/tank	0.1	1.3							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
	Surface water	0.1	15.9	6.4		Surface water	0.3	21.7							
	River					River									
	Lake					Lake									
Dam/pool/stagnant water	Dam	0.0	3.1	1.2	Dam/pool/stagnant water	Dam	0.1	2.7							
	Pond					Pond									
Flowing water / stream	Stream	0.1	12.8	5.2	River/stream	Stream	0.2	19.0							
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	1.2	3.6	2.7		Other non-improved	1.8	4.7							
Water carrier / tanker	Cart with small tank/drum	0.3	1.9	0.9	Water vendor	Cart with small tank/drum	0.3	1.3							
	Tanker truck provided				Other	Tanker truck provided	1.5	3.4							
Other	Other	0.9	1.7	1.2		Other									
Unspecified	DK/missing	0.4	0.2	0.3		DK/missing									
	Total	99.7	100.0	99.9		Total	100.1	99.9							
Calculations					Calculations										
Estimations	50% of Wells improved	0.0	1.6		Estimations	Improved springs based on ratio OHS95	0.1	1.3							
	Improved springs based on ratio OHS95	0.1	1.9												
Access to improved drinking water sources :		98%	73%	87%	Access to improved drinking water sources :		98%	70%							
Access to house connections :		88%	31%	66%	Access to house connections :		83%	27%							
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	90%	51%		Ratios	HC / Tap water	85%	45%							
	Public tap / Tap water	10%	49%			Public tap / Tap water	15%	55%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells	#DIV/0!	259%			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	100%								
	Springs/Groundwater	50%	39%												
	Number of people covered by the survey:					Number of people covered by the census:									
	Number of households covered by the survey:					Number of households covered by the census:									
	Total population:					Total population:									
Comments					Comments										

Access to drinking water sources		CEN96			South Africa			Access to drinking water sources		CEN07			South Africa		
Recensement général de la population								Recensement général de la population							
National Census (10% micro dataset from IPUMS)					1996			National Census (10% micro dataset from IPUMS)					2007		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
	Tap water	96.1	50.0			Tap water	98.5	63.7			Tap water	98.5	63.7		
	House connections	83.8	21.9			House connections	88.6	31.5			House connections	88.6	31.5		
Piped water in dwelling	Piped water into dwelling	64.9	9.0		Piped water inside the dwelling	Piped water into dwelling	64.4	11.7		Piped water inside the dwelling	Piped water into dwelling	64.4	11.7		
Piped water on site or yard	Piped water to yard/plot	18.9	12.9		Piped water inside the yard	Piped water to yard/plot	24.2	19.8		Piped water inside the yard	Piped water to yard/plot	24.2	19.8		
Public tap	Public tap, standpipe	12.3	28.2		Piped water from access point outside the plot	Public tap, standpipe	9.9	32.1		Piped water from access point outside the plot	Public tap, standpipe	9.9	32.1		
	Other					Other					Other				
	Ground water	0.3	11.1			Ground water	0.4	11.0			Ground water	0.4	11.0		
	Protected ground water					Protected ground water	0.4	7.4			Protected ground water	0.4	7.4		
	Unprotected ground water					Unprotected ground water					Unprotected ground water				
	Protected wells or springs					Protected wells or springs	0.4	7.4			Protected wells or springs	0.4	7.4		
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected wells or springs					Unprotected wells or springs					Unprotected wells or springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Borehole/rain-water tank/well	All wells	0.3	11.1			All wells	0.4	7.4			All wells	0.4	7.4		
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Tubewell, borehole				Borehole	Tubewell, borehole	0.4	7.4			Tubewell, borehole	0.4	7.4		
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Traditional wells					Traditional wells					Traditional wells				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Protected well					Protected well					Protected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected well					Unprotected well					Unprotected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All springs				Spring	All springs	0.1	3.6			All springs	0.1	3.6		
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Protected spring					Protected spring					Protected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected spring					Unprotected spring					Unprotected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Rainwater				Rain water tank	Rainwater	0.1	1.9			Rainwater	0.1	1.9		
	Covered cistern/tank					Covered cistern/tank	0.1	1.9			Covered cistern/tank	0.1	1.9		
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank				
	Bottled water					Bottled water					Bottled water				
	with other improved					with other improved					with other improved				
	without other improved					without other improved					without other improved				
Dam/river/stream/spring	Surface water	0.2	33.9		River/stream	Surface water	0.2	20.5		River/stream	0.2	18.6			
	River					River	0.2	18.6			River	0.2	18.6		
	Lake					Lake					Lake				
	Dam				Dam/pool	Dam	0.1	1.9		Dam/pool	0.1	1.9			
	Pond					Pond					Pond				
	Stream					Stream					Stream				
	Irrigation channel					Irrigation channel					Irrigation channel				
	Other					Other					Other				
	Other improved sources					Other improved sources					Other improved sources				
	Other					Other					Other				
	Other					Other					Other				
	Other non-improved	1.2	3.5			Other non-improved	0.8	2.9			Other non-improved	0.8	2.9		
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
Water-carrier/tanker	Tanker truck provided	0.5	2.0		Water vendor	Tanker truck provided	0.3	1.9		Water vendor	Tanker truck provided	0.3	1.9		
Other	Other	0.7	1.5		Other	Other	0.5	1.0		Other	Other	0.5	1.0		
Unknown	DK/missing	2.2	1.5			DK/missing					DK/missing				
	Total	100.0	100.0			Total	100.0	100.0			Total	100.0	100.0		
Calculations	Springs, based on OHS96	0.0	5.5			Calculations									
Estimations	Rainwater, based on OHS96		1.4			Estimations									
	Proportion of boreholes based on OHS96	0.3	9.1												
	50% of well considered improved	0.0	0.3			50% of springs considered improved	0.0	1.8							
	50% of springs considered improved	0.0	2.7												
Access to improved drinking water sources :		96%	64%		Access to improved drinking water sources :		99%	75%		Access to improved drinking water sources :		99%	75%		
Access to house connections :		84%	22%		Access to house connections :		89%	32%		Access to house connections :		89%	32%		
Used for the estimates :		Yes	Yes		Used for the estimates :		Yes	Yes		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	87%	44%		Ratios	HC / Tap water	90%	50%		Ratios	HC / Tap water	90%	50%		
	Public tap / Tap water	13%	56%			Public tap / Tap water	10%	50%			Public tap / Tap water	10%	50%		
	Tubewell + protected well / All wells					Tubewell + protected well / All wells					Tubewell + protected well / All wells				
	Protected wells / Traditional wells					Protected wells / Traditional wells					Protected wells / Traditional wells				
	Tubewell / All wells					Tubewell / All wells	100%	100%			Tubewell / All wells	100%	100%		
	Protected springs / All springs					Protected springs / All springs					Protected springs / All springs				
	Protect. well & spring / well & spring					Protect. well & spring / well & spring					Protect. well & spring / well & spring				
	Number of people covered by the survey:					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:					Number of households covered by the survey:				
	Total population:					Total population:					Total population:				
Comments					Comments	Urban is an aggregation of urban formal and urban informal Rural is an aggregation of rural formal and tribal area									

Access to drinking water sources		DHS03		South Africa	
Demographic and Health Survey					
				2003	
Original denomination	Classification	Urban	Rural	Total	
	Tap water	98.2	64.1	86.0	
	House connections	88.7	27.6	66.7	
Piped into dwelling	Piped water into dwelling	58.2	11.0	41.2	
Piped into yard/plot	Piped water to yard/plot	30.5	16.6	25.5	
Public tap	Public tap, standpipe	9.5	36.5	19.3	
	Other				
	Ground water	0.3	8.7	3.8	
	Protected ground water	0.2	4.6	1.9	
	Unprotected ground water	0.1	3.3	1.3	
	Protected wells or springs	0.2	4.8	1.9	
	Private	0.2	4.8	1.9	
	Public				
	Other				
	Unprotected wells or springs	0.1	3.3	1.3	
	Private	0.1	3.3	1.3	
	Public				
	Other				
	All wells	0.3	8.1	3.2	
	Private	0.3	8.1	3.2	
	Public				
	Other				
	Tubewell, borehole				
	Private				
	Public				
	Other				
	Traditional wells	0.3	8.1	3.2	
	Private	0.3	8.1	3.2	
	Public				
	Other				
	Protected well	0.2	4.6	1.9	
Protected well in dwelling	Private	0.2	4.6	1.9	
	Public				
	Other				
	Unprotected well	0.1	3.3	1.3	
Open well in dwelling	Private	0.1	3.3	1.3	
	Public				
	Other				
Spring	All springs	0.0	1.6	0.6	
	Private				
	Public				
	Other				
	Protected spring				
	Private				
	Public				
	Other				
	Unprotected spring				
	Private				
	Public				
	Other				
Rainwater	Rainwater	0.0	1.1	0.4	
	Covered cistern/tank				
	Uncovered cistern/tank				
Bottled water	Bottled water	0.0	0.7	0.3	
	with other improved				
	without other improved				
	Surface water	0.2	20.4	7.5	
River/stream	River	0.1	17.6	6.4	
Pond/lake	Lake	0.0	0.8	0.3	
Dam	Dam	0.0	1.8	0.7	
Pool/stagnant water	Pond	0.1	0.2	0.1	
	Stream				
	Irrigation channel				
	Other				
	Other improved sources				
	Other				
	Other				
	Other non-improved	0.8	3.6	1.8	
	Cart with small tank/drum				
Tanker truck	Tanker truck provided	0.7	3.4	1.7	
Other	Other	0.1	0.2	0.1	
	Other				
Missing	DK/missing	0.5	0.5	0.5	
	Total	100.0	100.1	100.3	
Calculations					
Estimations					
	50% of springs considered improved	0.0	0.8		
Access to improved drinking water sources :		98%	70%	88%	
Access to house connections :		89%	28%	67%	
Used for the estimates :		Yes	Yes	Yes	
Used for the estimates :		Yes	Yes	Yes	
Ratios	HC / Tap water	90%	43%		
	Public tap / Tap water	10%	57%		
	Tubewell + protected well / All wells	67%	59%		
	Protected wells / Traditional wells	67%	59%		
	Tubewell / All wells				
	Protected springs / All springs				
	Protect. well & spring / well & spring	67%	59%		
	Number of people covered by the survey:				
	Number of households covered by the survey:				
	Total population:				
Comments					

South Africa			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
October Household Surveys	OHS94	1994		92.3		99.3		32.5		72.1
October Household Surveys	OHS95	1995		93.9		99.0		37.6		73.5
October Household Surveys	OHS96	1996	86.9		98.3		25.4		71.1	
October Household Surveys	OHS97	1997	88.4		98.9		26.7		69.8	
October Household Surveys	OHS98	1998	87.2		98.5		29.3		70.8	
Demographic and Health Survey	DHS98	1998	86.6		98.1		26.5		66.4	
October Household Surveys	OHS99	1999	88.4		98.0		31.1		73.3	
Census	CEN01	2001		82.7		98.0		27.3		69.5
Census	CEN01	2001	81.1		97.9		28.6		71.8	
World Health Survey	WHS03	2003	87.1		100.0			47.5		86.7
Recensement général de la population	CEN96	1996	83.8		96.4		21.9		63.5	
Recensement général de la population	CEN07	2007	88.6		98.9		31.5		74.8	
General Household Survey	GHS06	2006	89.3		99.2		29.5		78.6	
General Household Survey	GHS07	2007	89.8		98.8		31.2		77.9	
Demographic and Health Survey	DHS03	2003	88.7		98.4		27.6		69.7	

South Africa - urban - Use of improved drinking water sources



South Africa - rural - Use of improved drinking water sources

