



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

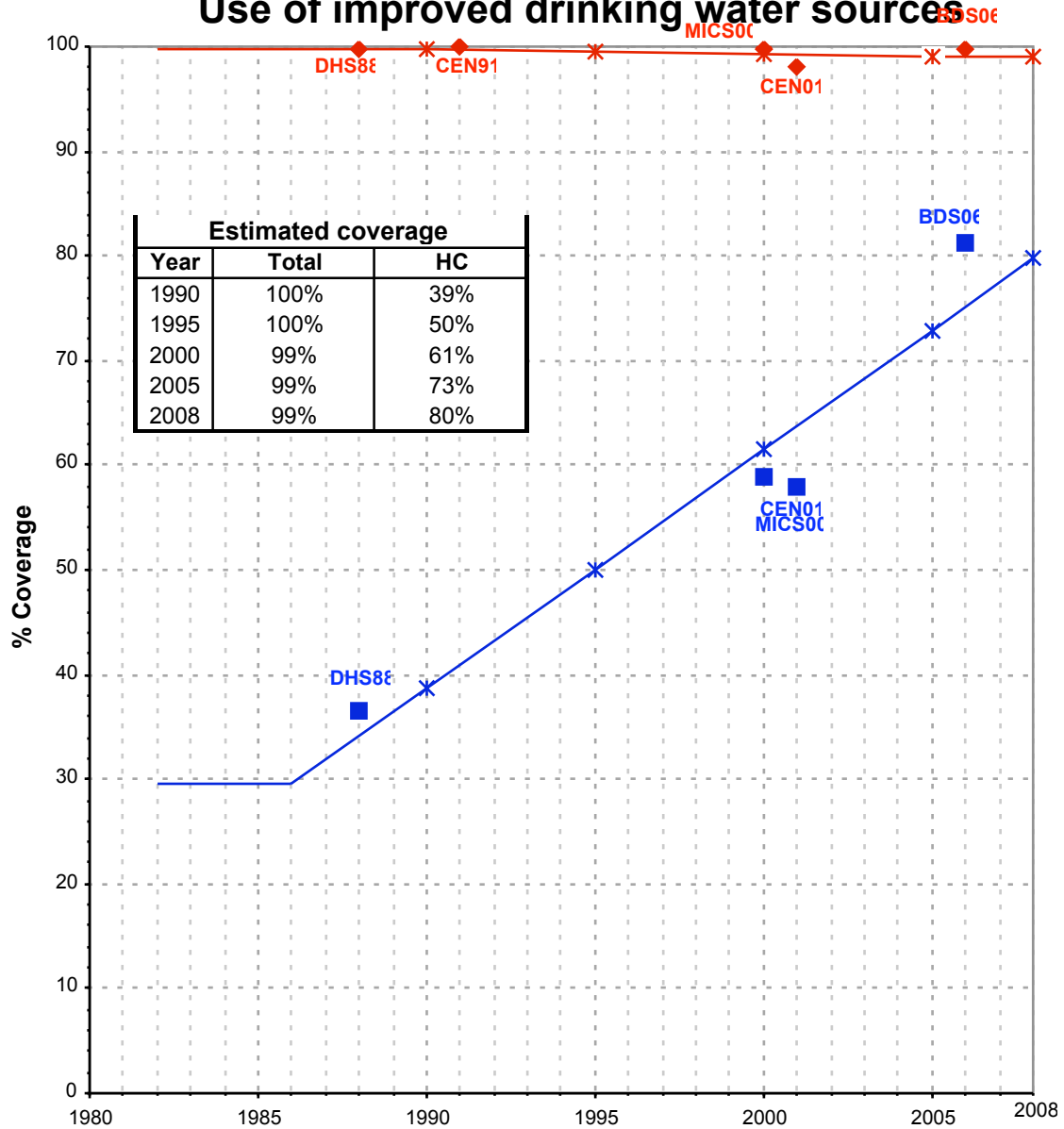
Botswana

Access to drinking water sources		JMP99			Botswana			Access to drinking water sources		MICS00			Botswana		
Global Water Supply and Sanitation Assessment 2000.								Multiple Indicator Cluster Survey							
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.															
		1999							2000						
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
Population served with household connection	Tap water	81.6	8.5			Tap water	99.6	82.6			Tap water	58.8	25.2		
	House connections	81.6	8.5			House connections	58.8	25.2			House connections	21.4	8.2		
	Piped water into dwelling					Piped into dwelling					Piped water into dwelling	37.4	17.0		
	Piped water to yard/plot					Piped into yard or plot					Piped water to yard/plot	40.8	57.4		
	Public tap, standpipe					Public tap					Public tap, standpipe				
	Other					Other					Other				
Population without household connection but with accessible access to a public	Ground water	18.4	76.5			Ground water	0.1	7.9			Ground water	0.1	7.9		
	Protected ground water	18.4	76.5			Protected ground water	0.1	7.9			Protected ground water				
	Unprotected ground water					Unprotected ground water					Unprotected ground water				
	Protected wells or springs					Protected wells or springs	0.1	7.9	0.0		Protected wells or springs				
	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					
All wells						All wells	0.1	7.9			All wells				
Private					Private					Private					
Public					Public					Public					
Other					Other					Other					
Tubewell, borehole					Tubewell/borehole with pump					Tubewell, borehole	0.1	7.9			
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						All springs					All springs				
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						Rainwater					Rainwater				
Covered cistern/tank					Covered cistern/tank					Covered cistern/tank					
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	0.1	5.6			
Surface water						Surface water	0.1	5.6			Surface water	0.1	3.1		
River					River/ stream					River					
Lake					Lake					Lake					
Dam					Dam/ lake/ pan					Dam	0.0	2.5			
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					
Total population unserved	Other non-improved	0.0	15.0			Other non-improved	0.2	3.9			Other non-improved	0.2	3.9		
Cart with small tank/drum	Cart with small tank/drum				Cart with small tank/drum					Cart with small tank/drum					
Tanker truck provided	Tanker truck provided				Tanker truck provided					Tanker truck provided					
Other	Other				Other					Other	0.2	3.9			
Other	Other				Other					Other					
DK/missing					Don't know					DK/missing	0.0	0.0			
Total		100.0	100.0			Total	100.0	100.0			Total	100.0	100.0		
Calculations						Calculations					Calculations				
Estimations						Estimations					Estimations				
Access to improved drinking water sources		100%	85%		Access to improved drinking water sources		100%	81%		Access to improved drinking water sources		100%	81%		
Access to house connections		82%	9%		Access to house connections		59%	25%		Access to house connections		59%	25%		
Used for the estimates		No	No		Used for the estimates		Yes	Yes		Used for the estimates		Yes	Yes		
Used for the estimates		No	No		Used for the estimates		Yes	Yes		Used for the estimates		Yes	Yes		
Ratios	HC / Tap water	100%	100%		Ratios	HC / Tap water	59%	31%		Ratios	HC / Tap water	59%	31%		
	Public tap / Tap water					Public tap / Tap water	41%	69%			Public tap / Tap water	41%	69%		
	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		606.328	720.468		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		CEN01		Botswana		Access to drinking water sources		Botswana	
Census				2001		Botswana Demographic Survey, 2006		2006	
						Central Statistics Office			
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total
	Tap water	98.1	73.3	87.7		Tap water	99.5	79.5	91.3
	House connections					House connections	91.2	34.4	62.1
	Piped water into dwelling				Piped indoors	Piped water into dwelling	30.8	8.7	21.8
	Piped water to yard/plot				Piped outdoors	Piped water to yard/plot	50.4	25.7	40.3
	Public tap, standpipe				Communal tap	Public tap, standpipe	14.6	42.4	25.9
Piped or tapped	Other	98.1	73.3	87.7	Neighbours tap	Other	3.7	2.7	3.3
	Ground water					Ground water			
	Protected ground water		12.2	5.1		Protected ground water	0.1	10.4	4.3
	Unprotected ground water					Unprotected ground water			
	Protected wells or springs	0.0	12.2	5.1		Protected wells or springs	0.1	10.4	4.3
	Private					Private			
	Public					Public			
	Other					Other			
	Unprotected wells or springs					Unprotected wells or springs			
	Private					Private			
	Public					Public			
	Other					Other			
	All wells	0.1	16.4	6.9		All wells	0.2	13.0	5.4
	Private					Private			
	Public					Public			
	Other					Other			
Borehole	Tubewell, borehole	0.0	12.2	5.1	Borehole	Tubewell, borehole	0.1	10.4	4.3
	Private					Private			
	Public					Public			
	Other					Other			
Wells	Traditional wells	0.1	4.2	1.8	Well	Traditional wells	0.1	2.6	1.1
	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 water	All springs	0.0	0.2	0.1	Spring water	All springs	0.0	0.1	0.1
	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			
Rain water tank	Rainwater	0.0	0.2	0.1		Rainwater	0.0	0.1	0.1
	Covered cistern/tank				Rain water tank	Covered cistern/tank	0.0	0.1	0.1
	Uncovered cistern/tank					Uncovered cistern/tank			
	Bottled water					Bottled water			
	with other improved					with other improved			
	without other improved					without other improved			
River/stream	Surface water	0.0	6.6	2.7	River/stream	Surface water	0.0	5.5	2.3
	River	0.0	3.9	1.6	River/stream	River	0.0	2.8	1.2
	Lake					Lake			
Dam/Pan	Dam	0.0	2.7	1.1	Dam/pan	Dam	0.0	2.7	1.1
	Pond					Pond			
	Stream					Stream			
	Irrigation channel					Irrigation channel			
	Other					Other			
	Other improved sources					Other improved sources			
	Other					Other			
	Other					Other			
	Other non-improved	1.7	3.3	2.4		Other non-improved	0.3	1.9	0.9
	Cart with small tank/drum					Cart with small tank/drum			
Bouwer/tanker	Tanker truck provided	0.0	2.1	0.9	Bouwer/Tanker	Tanker truck provided	0.2	1.7	0.8
Other	Other	1.7	1.2	1.5	Other	Other	0.1	0.1	0.1
	Other					Other			
Unknown	DK/missing	0.1	0.1	0.1		DK/missing			
	Total	100.0	100.1	100.0		Total	100.0	100.0	100.1
Calculations					Calculations				
Estimations	50% of traditional wells considered improved	0.1	2.1		Estimations	50% of traditional wells considered improved	0.1	1.3	
	50% of springs considered improved	0.0	0.1			50% of springs considered improved	0.0	0.1	
Access to improved drinking water sources :		98%	88%	93%	Access to improved drinking water sources :		100%	91%	96%
Access to house connections :		58%	22%		Access to house connections :		81%	34%	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				Ratios	HC / Tap water	82%	43%	
	Public tap / Tap water					Public tap / Tap water	15%	53%	
	Tubewell + protected well / All wells					Tubewell + protected well / All wells			
	Protected wells / Traditional wells					Protected wells / Traditional wells			
	Tubewell / All wells	0%	74%			Tubewell / All wells	50%	80%	
	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				

Botswana			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	DHS88	1988	36.7		99.7		9.9		91.1	
Census	CEN91	1991		81.6	100.0		15.0		84.6	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		81.6		100.0		8.5		85.0
Multiple Indicator Cluster Survey	MICS00	2000	58.8		99.7		25.2		90.5	
Census	CEN01	2001	57.9		98.2		22.4		87.7	
Botswana Demographic Survey, 2006		2006	81.2		99.7		34.4		91.4	

Botswana - urban - Use of improved drinking water sources



Year	Total	HC
1990	100%	39%
1995	100%	50%
2000	99%	61%
2005	99%	73%
2008	99%	80%

Total improved access

Household connections (HC)

◆ Used for the estimates ■ Used for the estimates * Estimates * Estimates

Botswana - rural - Use of improved drinking water sources

