

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

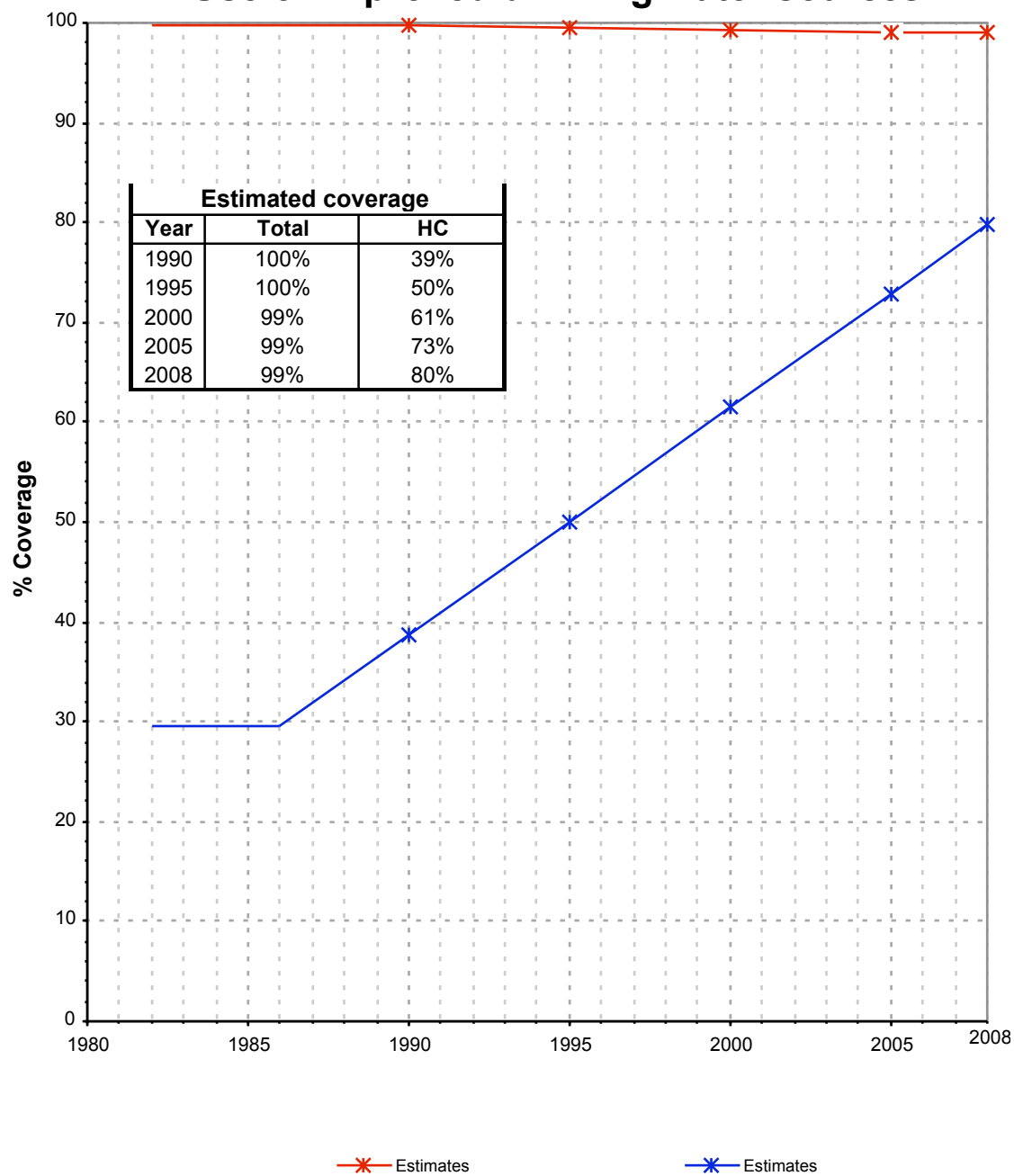
childinfo.org

Access to drinking water sources		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						
Population served with household connection	Tap water	81.6	8.5		Tap water		99.6	82.6							
	House connections	81.6	8.5		House connections		58.8	25.2							
	Piped water into dwelling				Piped into dwelling		21.4	8.2							
	Piped water to yard/plot				Piped into yard or plot		37.4	17.0							
	Public tap, standpipe				Public tap		40.8	57.4							
	Other				Other										
Population without household connection (but with reasonable access to a public)	Ground water	18.4	76.5		Ground water		0.1	7.9							
	Protected ground water	18.4	76.5		Protected ground water		0.1	7.9							
	Unprotected ground water				Unprotected ground water										
	Protected wells or springs				Protected wells or springs		0.1	7.9	0.0						
	Private				Private										
	Public				Public										
	Other				Other										
	Unprotected wells or springs				Unprotected wells or springs										
	Private				Private										
	Public				Public										
	Other				Other										
	All wells				All wells		0.1	7.9							
	Private				Private										
	Public				Public										
	Other				Other										
	Tubewell, borehole				Tubewell/borehole with pump		0.1	7.9							
	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										
	All springs				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		0.1	5.6								
Surface water				Surface water		0.1	3.1								
River				River/ stream											
Lake				Lake		0.1	3.1								
Dam				Dam/ lake/ pan		0.0	2.5								
Pond				Pond											
Stream				Stream											
Irrigation channel				Irrigation channel											
Other				Other											
Other improved sources				Other improved sources											
Other				Other											
Other				Other											
Total population unserved	Other non-improved	0.0	15.0	Other non-improved		0.2	3.9								
Cart with small tank/drum	Cart with small tank/drum			Cart with small tank/drum											
Tanker truck provided	Tanker truck provided			Tanker truck provided											
Other	Other			Other		0.2	3.9								
Other	Other			Other											
DK/missing				DK/missing		0.0	0.0								
Total		100.0	100.0	Total		100.0	100.0								
Calculations				Calculations											
Estimations				Estimations											
Access to improved drinking water sources		100%	85%		Access to improved drinking water sources		100%	81%							
Access to house connections		82%	9%		Access to house connections		59%	25%							
Used for the estimates		No	No		Used for the estimates		Yes	Yes							
Used for the estimates		No	No		Used for the estimates		Yes	Yes							
Ratios	HC / Tap water	100%	100%		HC / Tap water	59%	31%								
	Public tap / Tap water				Public tap / Tap water	41%	69%								
	Tubewell + protected well / All wells				Tubewell + protected well / All wells										
	Protected wells / Traditional wells				Protected wells / Traditional wells										
	Tubewell / All wells				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		606.328	720.468		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											

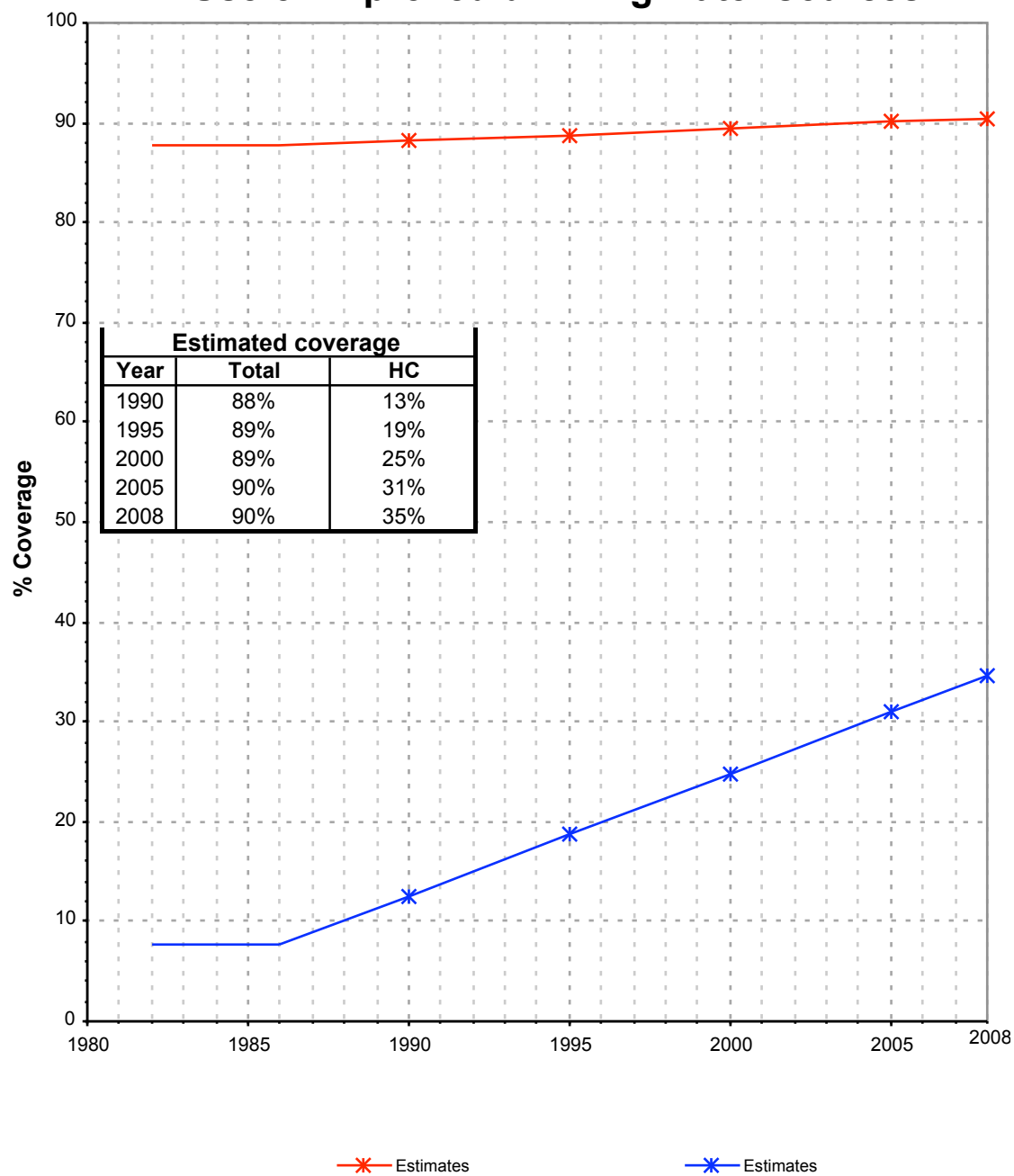
Access to drinking water sources		CEN01		Botswana		Access to drinking water sources		Botswana	
Census				2001		Botswana Demographic Survey, 2006		2006	
						Central Statistics Office			
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total
	Tap 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	0.1	16.6	7.0		Ground water	0.2	13.1	5.5
	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			
Bousser/tanker	Tanker truck provided	0.0	2.1	0.9	Bousser/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



Botswana - rural - Use of improved drinking water sources



Drinking Water

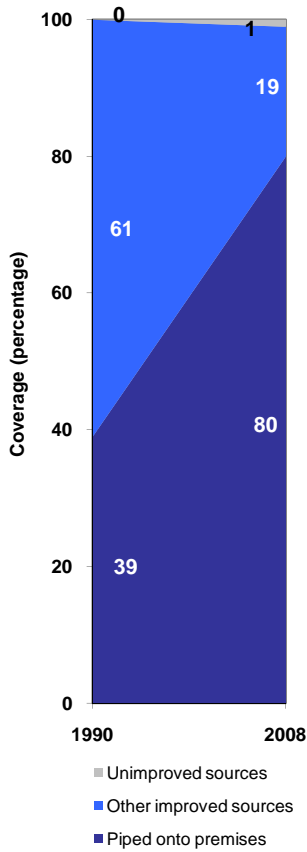
Botswana	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	39	80	13	35	24	62
Other improved source	61	19	75	55	69	33
Unimproved source	0	1	12	10	7	5

Source: WHO/UNICEF JMP, 2010

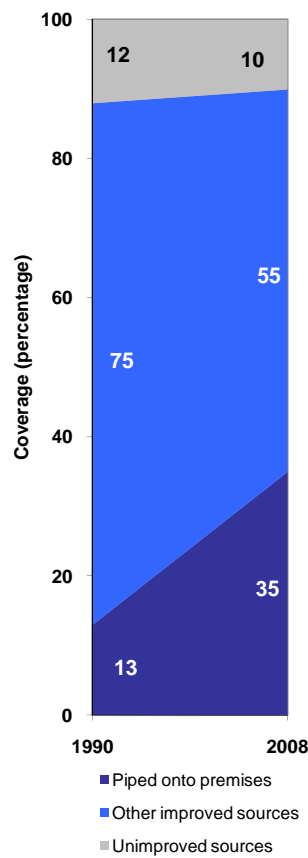
Botswana	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	567	1146	785	775	1352	1921

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

