

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

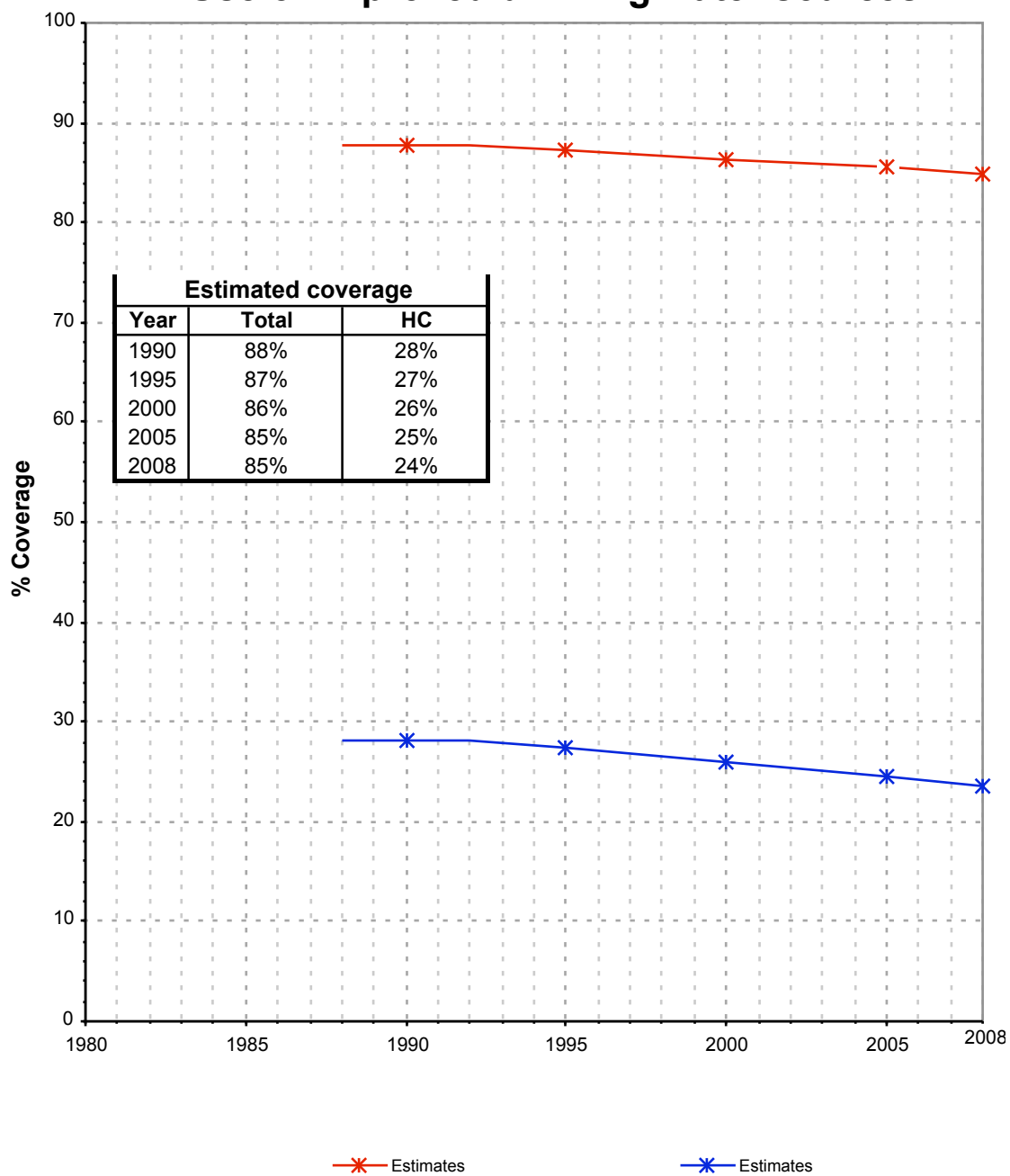
Access to drinking water sources		MICS95			Bangladesh			Access to drinking water sources		MICS96			Bangladesh		
Multiple Indicator Cluster Survey					1995			Multiple Indicator Cluster Survey					1996		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Tap	Tap water	35.1	0.2	3.7	Tap	Tap water	36.2	0.5	4.1						
	House connections					House connections									
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	Public tap, standpipe					Public tap, standpipe									
	Other					Other									
	Ground water	64.2	96.5	93.2		Ground water	65.0	97.6	94.4						
	Protected ground water	64.0	92.7	89.8		Protected ground water	64.5	94.9	91.9						
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	64.0	92.7	89.8		Protected wells or springs	64.5	94.9	91.9						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	64.2	96.5	93.2		All wells	65.0	97.6	94.4						
	Private					Private									
	Public					Public									
	Other					Other									
Tubewell	Tubewell, borehole	64.0	92.7	89.8	Tubewell	Tubewell, borehole	64.5	94.9	91.9						
	Private					Private									
	Public					Public									
	Other					Other									
Ringwell	Traditional wells	0.2	3.8	3.4	Ringwell	Traditional wells	0.5	2.7	2.5						
	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									
	Surface water					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 non-improved	0.9	3.6	3.3		Other non-improved	0.8	3.6	3.3						
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Other	Other	0.9	3.6	3.3	Other	Other	0.8	3.6	3.3						
	DK/missing					DK/missing									
	Total	100.2	100.3	100.2		Total	102.0	101.7	101.8						
Calculations					Calculations										
Estimations	50% of traditional wells considered improved	0.1	1.9		Estimations	50% of traditional wells considered improved	0.3	1.4							
	Deduct. of 20% arsenic contaminated wells	-12.8	-18.9			Deduct. of 20% arsenic contaminated wells	-13.0	-19.3							
	HC, based on DHS94	25.5	0.1			HC, based on DHS94	29.6	0.3							
Access to improved drinking water sources : 86% 76% 94%					Access to improved drinking water sources : 88% 78% 96%										
Access to house connections : 25% 0%					Access to house connections : 30% 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				Ratios	HC / Tap water									
	Public tap / Tap water					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	100%	96%			Tubewell / All wells	99%	97%							
	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		MICS99			Bangladesh			Access to drinking water sources		JMP99			Bangladesh		
Multiple Indicator Cluster Survey					Global Water Supply and Sanitation Assessment 2000.					Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					
					1999								1999		
Original denomination	Classification		Urban	Rural	Total	Original denomination	Classification		Urban	Rural	Total				
	Tap water						Tap water		28.6	0.0					
	House connections					Population served with household connection	House connections		28.6	0.0					
	Piped water into dwelling						Piped water into dwelling								
	Piped water to yard/plot						Piped water to yard/plot								
	Public tap, standpipe						Public tap, standpipe								
	Other						Other								
	Ground water						Ground water		69.5	96.6					
	Protected ground water					Population without household connection but with reasonable access to a public	Protected ground water		69.5	96.6					
	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								
	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								
Pond/ River/ Other	Surface water		0.5	3.3	3.0		Surface water								
	River						River								
	Lake						Lake								
	Dam						Dam								
	Pond						Pond								
	Stream						Stream								
	Irrigation channel						Irrigation channel								
	Other						Other								
Tubewell/Tap/Ringwell	Other improved sources		99.6	97.7	97.9		Other improved sources								
	Other						Other								
	Other						Other								
	Other non-improved					Total population unserved	Other non-improved		2.0	3.4					
	Cart with small tank/drum						Cart with small tank/drum								
	Tanker truck provided						Tanker truck provided								
	Other						Other								
	Other						Other								
	DK/missing						DK/missing								
	Total		100.1	101.0	100.9		Total		100.0	100.0					
Calculations						Calculations									
Estimations						Estimations									
Access to improved drinking water sources :			100%	98%	98%	Access to improved drinking water sources :			98%	97%					
Access to house connections :						Access to house connections :			29%	0%					
Used for the estimates			No	No		Used for the estimates			No	No					
Used for the estimates			No	No		Used for the estimates			No	No					
Ratios	HC / Tap water					Ratios	HC / Tap water		100%	#DIV/0!					
	Public tap / Tap water						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:			34.8	92.6					
Number of households covered by the survey:						Number of households covered by the survey:									
Total population:						Total population:									
Comments	NB: Multiple responses were possible					Comments									

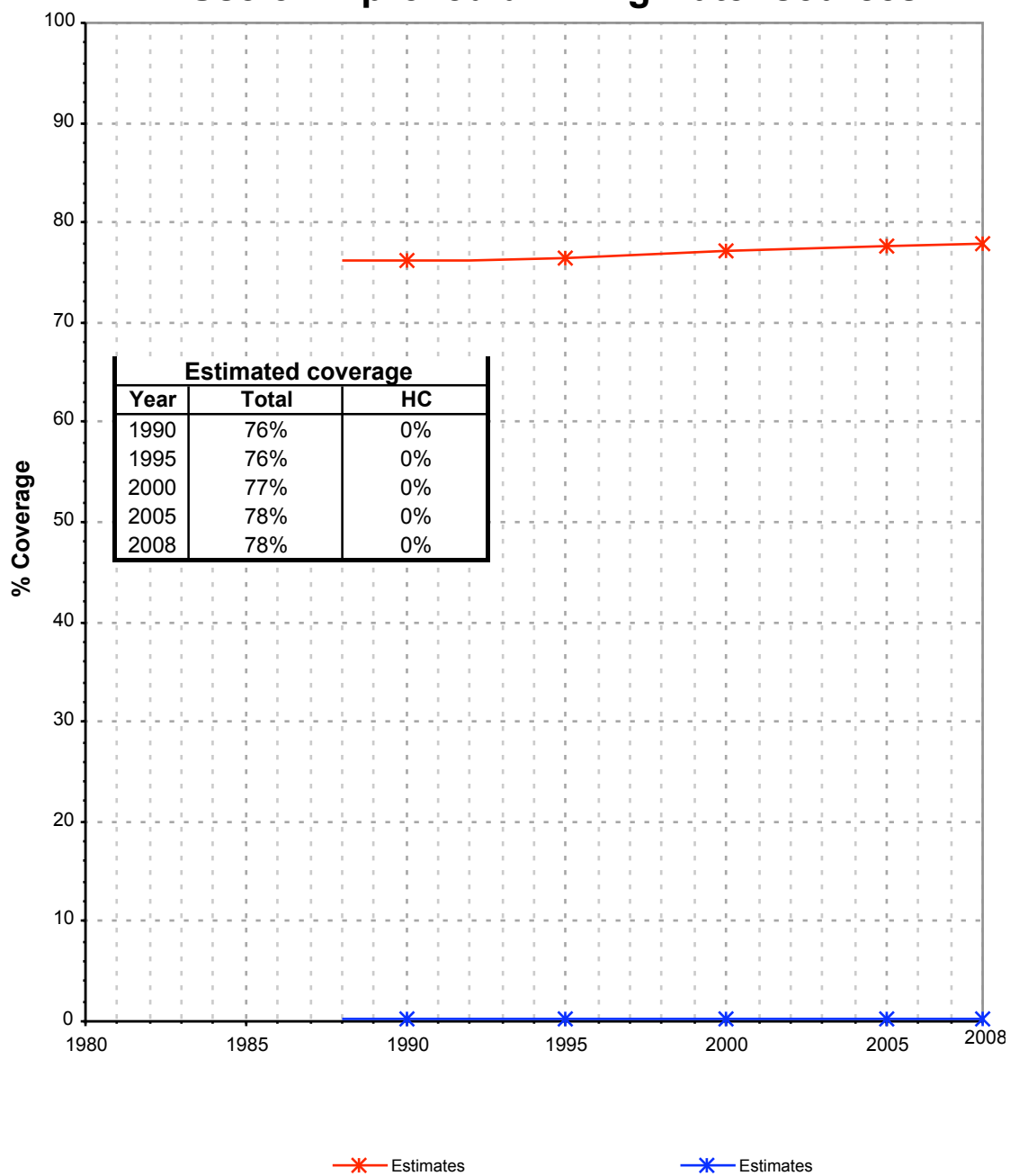
Access to drinking water sources		MHS01			Bangladesh			Access to drinking water sources		WHS03			Bangladesh		
Maternal health services and Maternal Mortality survey					World Health Survey										
					2001								2003		
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total
	Tap water								Tap water				32.4	1.1	
	House connections						Piped water through house connection or yard	House connections				25.3	0.6		
	Piped water into dwelling							Piped water into dwelling							
	Piped water to yard/plot							Piped water to yard/plot							
	Public tap, standpipe						Public standpipe	Public tap, standpipe				7.2	0.5		
	Other							Other							
	Ground water								Ground water				67.5	96.2	
	Protected ground water							Protected ground water				67.4	95.3		
	Unprotected ground water							Unprotected ground water				0.1	0.9		
	Protected wells or springs						Protected dug well or protected spring	Protected wells or springs				0.7	2.1	0.0	
	Private							Private							
	Public							Public							
	Other							Other							
	Unprotected wells or springs						Unprotected dug well or spring	Unprotected wells or springs				0.1	0.9		
	Private							Private							
	Public							Public							
	Other							Other							
	All wells							All wells				66.7	93.2		
	Private							Private							
	Public							Public							
	Other							Other							
	Tubewell, borehole						Protected tube well or bore hole	Tubewell, borehole				66.7	93.2		
	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				0.0	0.1		
	Covered cistern/tank						Rainwater (into tank or cistern)	Covered cistern/tank				0.0	0.1		
	Uncovered cistern/tank							Uncovered cistern/tank							
	Bottled water							Bottled water							
	with other improved							with other improved							
	without other improved							without other improved							
	Surface water						Water taken directly from pond-water or str	Surface water				0.1	2.6		
	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							Other non-improved							
	Cart with small tank/drum							Cart with small tank/drum							
	Tanker truck provided							Tanker truck provided							
	Other							Other							
	Other							Other							
	DK/missing							DK/missing							
	Total							Total				100.0	100.0		
Calculations															
												0.7	2.1		
											0.0	0.0			
Estimations															
												-13.5	-19.1		
Access to improved drinking water sources :							Access to improved drinking water sources :				86%	77%			
Access to house connections :							Access to house connections :				25%	1%			
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							HC / Tap water				78%	54%		
	Public tap / Tap water							Public tap / Tap water				22%	46%		
	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				91%	70%		
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								

Bangladesh			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	DHS94	1994	26.7		86.7		0.3		75.1	
Multiple Indicator Cluster Survey	MICS94	1994	26.0		87.2		0.1		76.2	
Multiple Indicator Cluster Survey	MICS95	1995	25.5		86.4		0.1		75.9	
Multiple Indicator Cluster Survey	MICS96	1996	29.6		88.0		0.3		77.5	
Demographic and Health Survey	DHS97	1997	32.1		87.3		0.4		76.8	
	SVRS98	1998	25.9		87.3			7.5	78.4	
Multiple Indicator Cluster Survey	MICS99	1999				99.6				97.7
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		28.6		98.0		0.0		96.6
Progotir Pathay	PP00	2000				99.5				97.3
Demographic and Health Survey	DHS00	2000	24.2		85.6		0.1		77.0	
Maternal health services and Maternal Mortality survey	MHS01	2001								
World Health Survey	WHS03	2003	25.3		86.4		0.6		77.5	
Demographic and Health Survey	DHS04	2004	23.3		85.5		0.0		77.7	
Multiple Cluster Indicator Survey	MICS06	2006	22.4		84.7		0.3		77.8	
Demographic and Health Survey	DHS07	2007	26.2		85.3		0.2		77.1	

Bangladesh - urban - Use of improved drinking water sources



Bangladesh - rural - Use of improved drinking water sources



Drinking Water

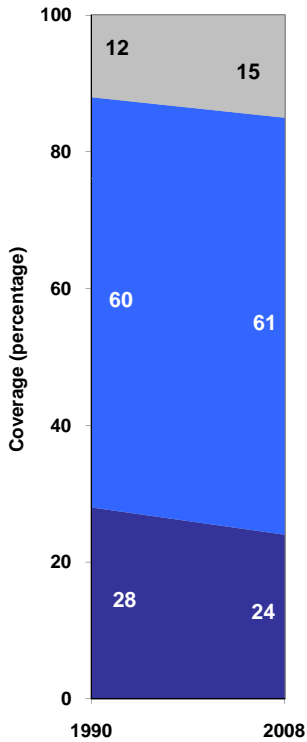
Bangladesh	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	28	24	0	0	6	6
Other improved source	60	61	76	78	72	74
Unimproved source	12	15	24	22	22	20

Source: WHO/UNICEF JMP, 2010

Bangladesh	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	22908	43312	92724	116688	115632	160000

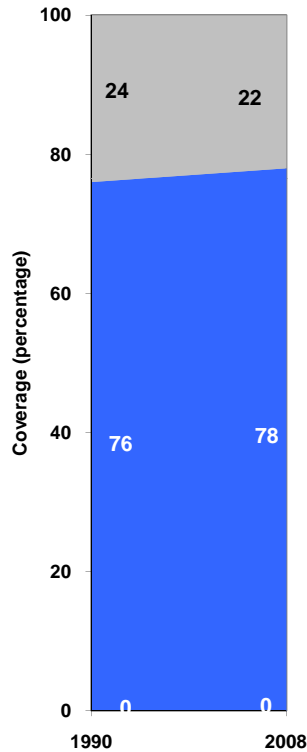
Source: UN / Population Division, 2008

Urban drinking water trends



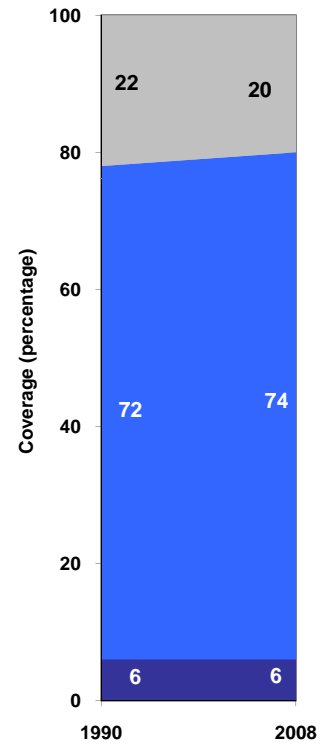
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises
■ Other improved sources
■ Unimproved sources

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises