

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

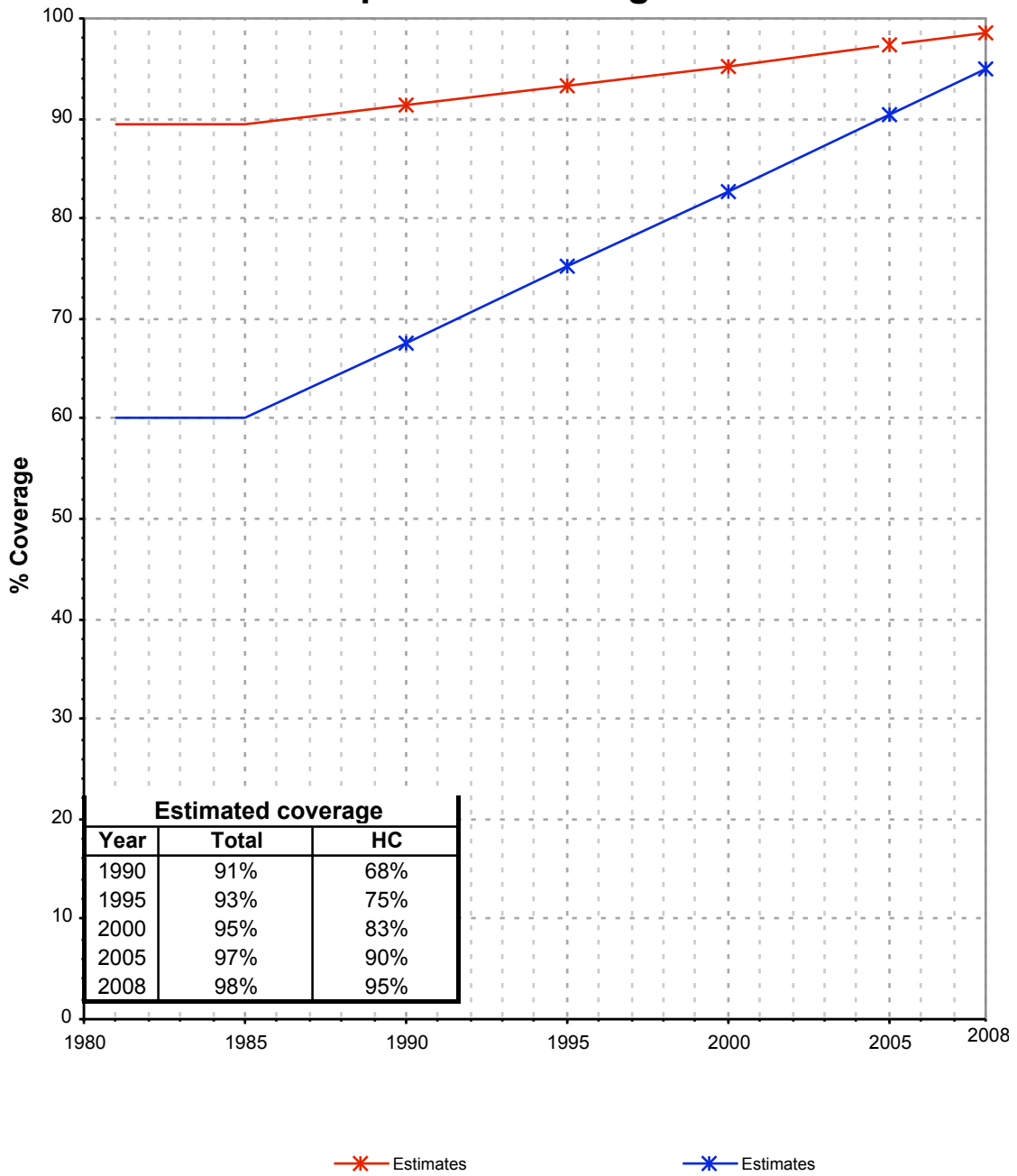
childinfo.org

Access to drinking water sources		DHS95			Guatemala			Access to drinking water sources		DHS99			Guatemala		
Demographic and Health Survey					1995			Demographic and Health Survey					1999		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Domestic connection to network (Acueducto)	Tap water	70.1	60.5		Red publica (acueducto)	Tap water	63.4	59.9	61.5						
	House connections	61.3	40.6			House connections	59.1	51.0	54.7						
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
Public standpoint	Public tap, standpipe	5.2	6.9		Chorro publico	Public tap, standpipe	3.3	4.8	4.1						
Other piped source	Other	3.8	13.0		Otra fuente por tuberia	Other	1.0	4.1	2.7						
	Ground water	6.1	17.7			Ground water	7.6	20.8	14.9						
	Protected ground water	6.1	17.7			Protected ground water	7.6	20.8	14.9						
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	6.1	17.7	0.0		Protected wells or springs	7.6	20.8	14.9						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	6.1	17.7			All wells	7.6	20.8	14.9						
	Private					Private									
	Public					Public									
	Other					Other									
Well with pump	Tubewell, borehole	6.1	17.7		Pozo mecanica	Tubewell, borehole	7.6	20.8	14.9						
	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	0.1	1.3			Rainwater	0.0	0.2	0.1						
Rainwater	Covered cistern/tank	0.1	1.3		Agua lluvia	Covered cistern/tank	0.0	0.2	0.1						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water	18.2	2.5			Bottled water	25.5	7.1	15.4						
Bottled water*	with other improved	18.2	2.5		Agua embotellada*	with other improved	25.5	7.1	15.4						
	without other improved					without other improved									
River, irrigation channel, spring	Surface water	1.8	14.7		Rio/acequia/manantial	Surface water	2.1	9.8	6.3						
	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	3.6	3.3			Other non-improved	1.2	2.2	1.8						
	Cart with small tank/drum					Cart with small tank/drum									
Truck, water carrier	Tanker truck provided	2.2	0.3		Camion tanque aguatero	Tanker truck provided	0.2	0.1	0.2						
Public trough	Other	0.8	2.3		Pila/tanque aguateria	Other	0.4	1.6	1.0						
Other	Other	0.6	0.7		Otra fuente	Other	0.6	0.5	0.6						
	DK/missing				Sin informacion	DK/missing	0.1	0.0	0.0						
	Total	99.9	100.0			Total	99.9	100.0	100.0						
Calculations					Calculations										
Estimations					Estimations										
	Bottled water with HC	18.2	2.5			Bottled water with HC	25.5	7.1							
Access to improved drinking water sources : 95% 82%					Access to improved drinking water sources : 97% 88%										
Access to house connections : 80% 43%					Access to house connections : 85% 58%										
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%	67%			HC / Tap water	93%	85%							
	Public tap / Tap water	7%	11%			Public tap / Tap water	5%	8%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	100%	100%			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	* Bottled water is considered an improved drinking water source in Guatemala, as it is mainly used as a better alternative than tap water.				Comments										

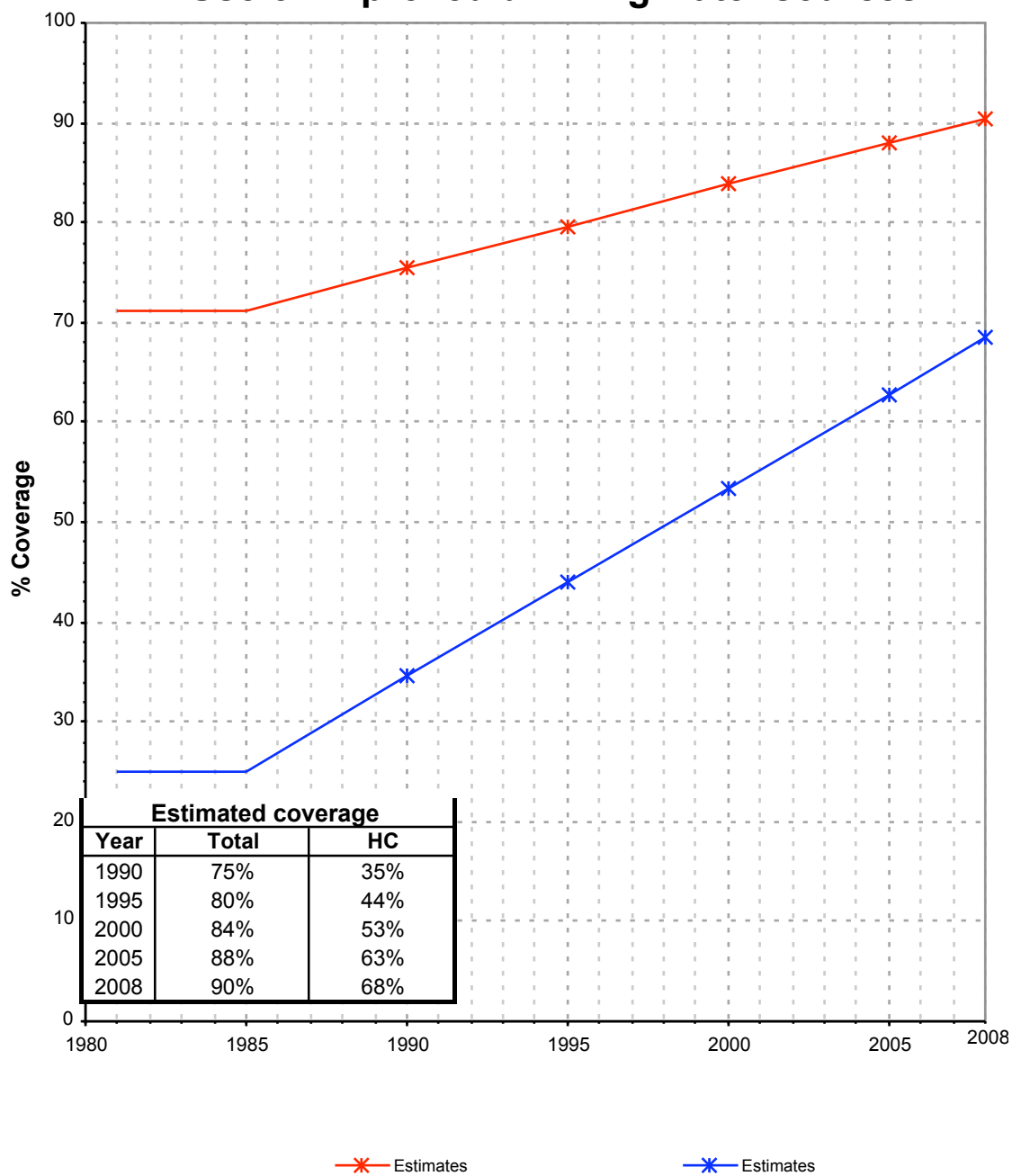
Access to drinking water sources		JMP99			Guatemala			Access to drinking water sources		ENSMI02			Guatemala		
Global Water Supply and Sanitation Assessment 2000.					Encuesta Nacional de Salud Materno Infantil										
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1998					2002					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	Tap water	78.9	33.6			Tap water	57.8	61.1							
	House connections	78.9	33.6		Red publica	House connections	49.8	44.2							
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	Public tap, standpipe				Chorro publico	Public tap, standpipe	2.5	3.7							
	Other				Otra fuente por tuberia	Other	5.5	13.2							
Population without household connection but with reasonable access to a public	Ground water	11.7	22.4			Ground water	5.8	16.1							
	Protected ground water	11.7	22.4			Protected ground water									
	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				Pozo	All wells	5.8	16.1							
	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	0.4	1.4							
	Covered cistern/tank				Agua de lluvia	Covered cistern/tank	0.4	1.4							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water	31.3	10.0							
	with other improved				Agua embotellada	with other improved	31.3	10.0							
	without other improved					without other improved									
	Surface water					Surface water	1.6	8.3							
	River				Rio	River	1.6	8.3							
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources	0.6	1.8							
	Other				Pila publica	Other	0.6	1.8							
	Other					Other									
Total population unserved	Other non-improved	9.4	44.0			Other non-improved	2.6	1.4							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Camion o tanque	Tanker truck provided	1.7	0.2							
	Other					Other									
	Other				Otro	Other	0.9	1.2							
	DK/missing					DK/missing									
	Total	100.0	100.0			Total	100.1	100.1							
Calculations					Calculations										
Estimations					Estimations	Protected wells estimated, based on WHS03	5.1	13.3							
						Bottled water with HC	31.3	10.0							
Access to improved drinking water sources :		91%	56%		Access to improved drinking water sources :		95%	88%							
Access to house connections :		79%	34%		Access to house connections :		81%	54%							
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%		Ratios	HC / Tap water	86%	72%							
	Public tap / Tap water					Public tap / Tap water	4%	6%							
	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:										
Number of households covered by the survey:					Number of households covered by the survey:										
Total population:		3789	7209		Total population:										
Comments					Comments										

Guatemala			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	DHS87	1987	68.8		86.7		30.3		73.3	
Demographic Census	CEN94	1994	69.1		96.4		37.6		79.3	
Demographic and Health Survey	DHS95	1995	79.5		94.5		43.1		82.0	
Demographic and Health Survey	DHS99	1999	84.6		96.5		58.1		88.0	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		78.9		90.6		33.6		56.0
Encuesta Nacional de Salud Materno Infantil	ENSMI02	2002	81.1		95.2		54.2		87.6	
World Health Survey	WHS03	2003	93.6		98.9		68.0		89.8	
Censos de Poblacion y Habitacion, 2002	CEN02	2002	79.7		93.8		52.7		80.7	
ENCOVI, 2006		2006	90.0		95.0		60.6		80.7	
ENSD, 1989	ENSD89	1989	58.2		91.1		32.1		68.2	
LSMS, 2000	LSMS00	2000	88.1		95.8		53.7		89.0	

Guatemala - urban - Use of improved drinking water sources



Guatemala - rural - Use of improved drinking water sources



Drinking Water

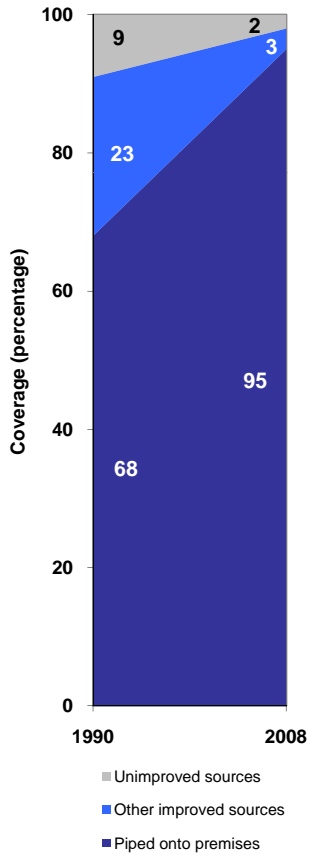
Guatemala	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	68	95	35	68	49	81
Other improved source	23	3	40	22	33	13
Unimproved source	9	2	25	10	18	6

Source: WHO/UNICEF JMP, 2010

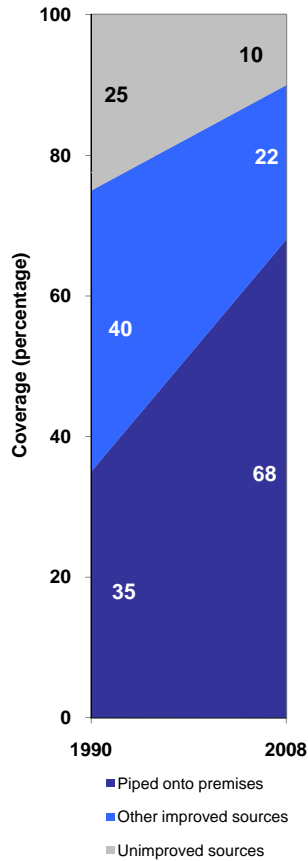
Guatemala	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	3,664	6,641	5,247	7,045	8,910	13,686

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

