



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

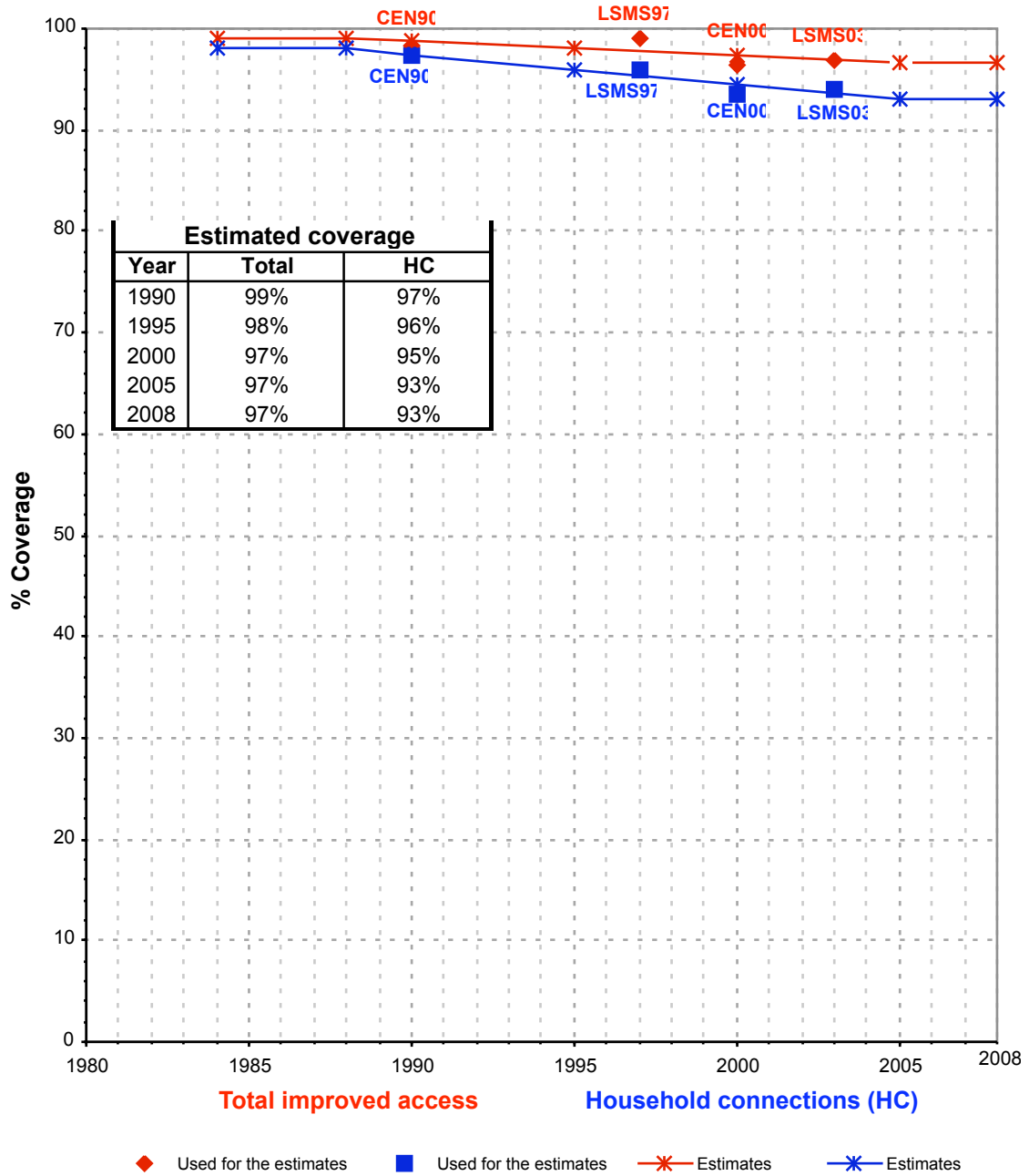
Updated March 2010

Panama

Access to drinking water sources		CEN90			Panama			Access to drinking water sources		CEN00			Panama		
Population census					Population census										
					1990					2000					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	97.4	59.2		aqueeduct	Tap water	96.0	71.2							
	House connections	97.4	59.2			House connections									
IDAAN PARTICULAR/PRIVADO DENTRO	Piped water into dwelling	72.1	25.8			Piped water into dwelling									
IDAAN PARTICULAR/PRIVADO FUERA	Piped water to yard/plot	25.4	33.4			Piped water to yard/plot									
	Public tap, standpipe					Public tap, standpipe									
	Other					Other									
	Ground water	1.8	28.7			Ground water	0.9	16.5							
	Protected ground water	0.8	4.9			Protected ground water	0.4	2.8							
	Unprotected ground water	1.0	23.8			Unprotected ground water	0.5	13.7							
	Protected wells or springs	0.8	4.9	0.0		Protected wells or springs	0.4	2.8	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	1.0	23.8	0.0		Unprotected wells or springs	0.1	3.4	0.0						
	Private					Private									
	Public					Public									
	Other					Other	0.3	10.3							
	All wells	1.2	22.6			All wells	0.9	16.5	0.0						
	Private					Private									
	Public					Public									
	Other					Other	0.3	10.3							
	Tubewell, borehole					Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	1.2	22.6			Traditional wells	0.9	16.5	0.0						
	Private					Private									
	Public					Public									
	Other					Other	0.3	10.3							
POZO SANITARIO	Protected well	0.8	4.9		Sanitary well	Protected well	0.4	2.8							
	Private					Private									
	Public					Public									
	Other					Other									
POZO SUPERFICIAL	Unprotected well	0.5	17.8		Unprotected well or spout	Unprotected well	0.1	3.4	0.0						
	Private					Private									
	Public					Public									
	Other				Surface well	Other	0.3	10.3							
	All springs	0.6	6.0			All springs									
	Private					Private									
	Public					Public									
	Other					Other									
	Protected spring					Protected spring									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected spring	0.6	6.0			Unprotected spring									
	Private					Private									
	Public					Public									
	Other					Other									
BROCAL NO PROTEGIDO															
	Rainwater	0.1	0.8			Rainwater	0.0	0.6							
AGUA LLUVIA	Covered cistern/tank	0.1	0.8		Rainwater	Covered cistern/tank	0.0	0.6							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
RIO O QUEBRADA	Surface water	0.1	11.0		River or stream	Surface water	0.1	9.4							
	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	0.6	0.3			Other non-improved	0.9	0.7							
	Cart with small tank/drum					Cart with small tank/drum									
CARRO CISTERNA	Tanker truck provided	0.6	0.3		Tank truck	Tanker truck provided	0.6	0.1							
	Other				Other	Other	0.3	0.6							
	Other					Other									
	DK/missing				NIU	DK/missing	2.0	1.6							
	Total	100.0	100.0			Total	100.0	100.0							
Calculations					Calculations										
Estimations					Estimations										
						HC, based on LSMS03	93.6	69.1							
Access to improved drinking water sources :		98%	65%		Access to improved drinking water sources :		97%	75%							
Access to house connections :		97%	59%		Access to house connections :		94%	69%							
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	100%	100%		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	63%	21%			Protected wells / Traditional wells	49%	17%							
	Tubewell / All wells					Tubewell / All wells									
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring	43%	17%			Protect. well & spring / well & spring	75%	46%							
	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										

Panama			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
Living Standarts Measurement Survey	LSMS97	1997	95.9		99.1		71.7		76.7	
Living Standarts Measurement Survey	LSMS03	2003	94.1		96.8		77.3		80.7	
Population census	CEN90	1990	97.4		98.3		59.2		64.9	
Population census	CEN00	2000	93.6		96.5		69.1		74.6	

Panama - urban - Use of improved drinking water sources



Panama - rural - Use of improved drinking water sources

