

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

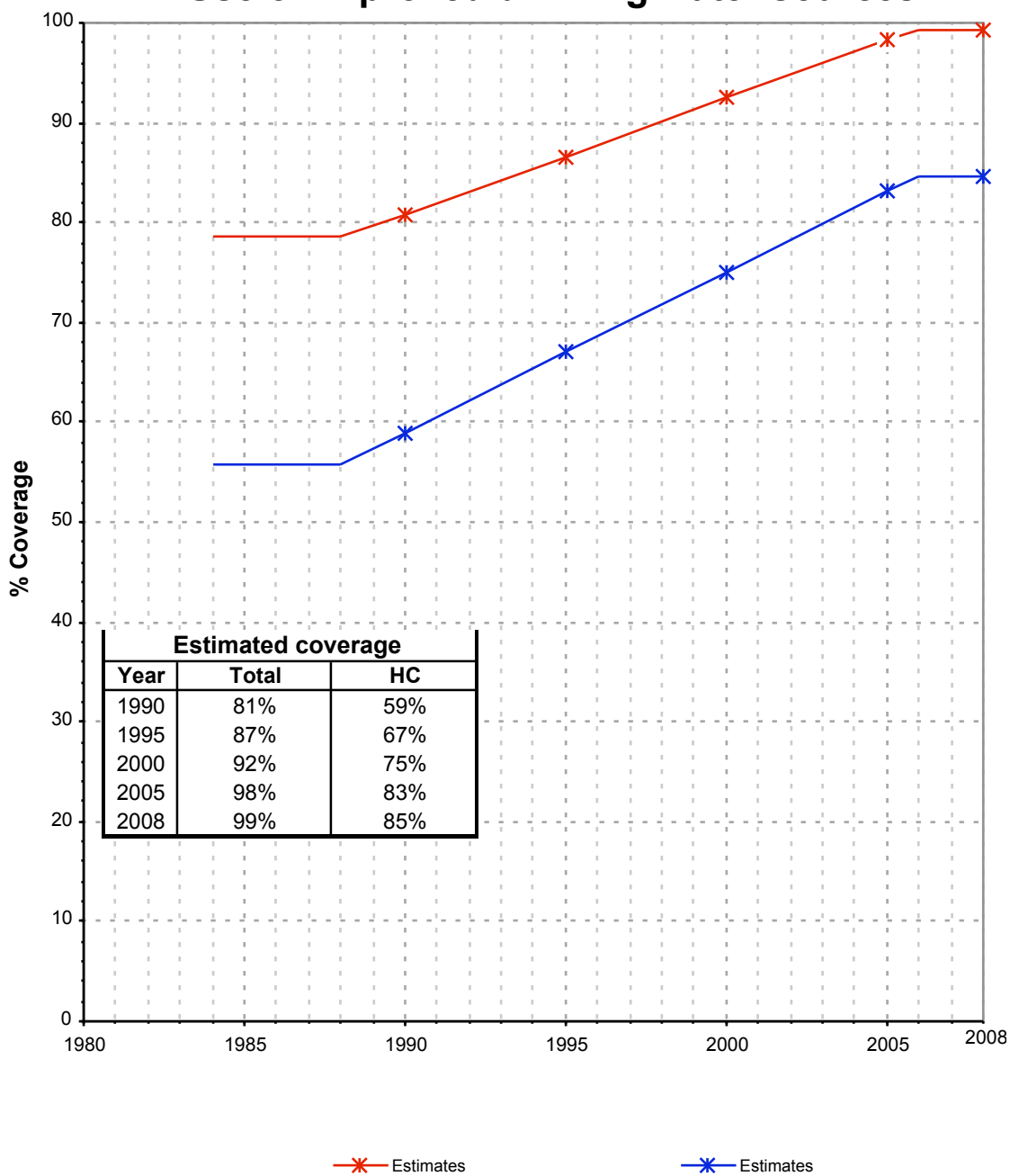
childinfo.org

Access to drinking water sources		EPH95			Paraguay			Access to drinking water sources		ENDSR96			Paraguay		
Encuesta Permanente de Hogares								Encuesta Nacional de Demografía y Salud Reproductiva							
					1995								1996		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
Agua (potable) en red	Tap water	67.9	8.9			Tap water	77.4	11.4	45.7		Tap water	73.5	10.6	43.3	
	House connections					House connections	62.8	6.2	35.6		House connections	10.7	4.4	7.7	
	Piped water into dwelling				Tubería en la casa	Piped water into dwelling					Piped water into dwelling				
	Piped water to yard/plot				Tubería en el patio	Piped water to yard/plot					Piped water to yard/plot				
	Public tap, standpipe				Canilla pública	Public tap, standpipe					Public tap, standpipe				
	Other					Other					Other				
	Ground water					Ground water	18.0	7.7	44.8		Ground water	4.6	7.9	6.2	
	Protected ground water					Protected ground water					Protected ground water				
	Unprotected ground water					Unprotected ground water					Unprotected ground water				
	Protected wells or springs					Protected wells or springs	4.6	7.9	6.2		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	18.0	7.7	44.8		All wells				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Tubewell, borehole				Pozo con bomba de mano	Tubewell, borehole	4.6	7.9	6.2		Tubewell, borehole				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Traditional wells				Pozo sin bomba de mano	Traditional wells	13.4	65.8	38.6		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	0.1	0.5	0.3		Rainwater				
	Covered cistern/tank				Aljibe	Covered cistern/tank	0.1	0.5	0.3		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				
	Surface water				Río, manantial	Surface water	0.1	5.2	2.6		Surface water				
	River					River					River				
	Lake					Lake					Lake				
	Dam					Dam					Dam				
	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				
	Other non-improved					Other non-improved	0.4	0.3	0.4		Other non-improved				
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
	Tanker truck provided				Vendedor de agua	Tanker truck provided	0.4	0.3	0.4		Tanker truck provided				
	Other					Other					Other				
	Other					Other					Other				
	DK/missing				Otro/No responde	DK/missing	3.9	8.9	6.3		DK/missing				
	Total	67.9	8.9			Total	99.9	100.0	100.1		Total				
Calculations						Calculations					Calculations				
Estimations						Estimations					Estimations				
							protected wells, based on ratio from WHS	5.9	16.8						
	HC, based on ENDSR96	64.5	8.3												
Access to improved drinking water sources :		68%	9%		Access to improved drinking water sources :		88%	37%		Access to improved drinking water sources :		88%	37%		
Access to house connections :		64%	8%		Access to house connections :		74%	11%		Access to house connections :		74%	11%		
	Used for the estimates	No	No			Used for the estimates	Yes	Yes			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					HC / Tap water	95%	93%			HC / Tap water	95%	93%		
	Public tap / Tap water					Public tap / Tap water	5%	7%			Public tap / Tap water	5%	7%		
	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	26%	11%			Tubewell / All wells	26%	11%		
	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:					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				

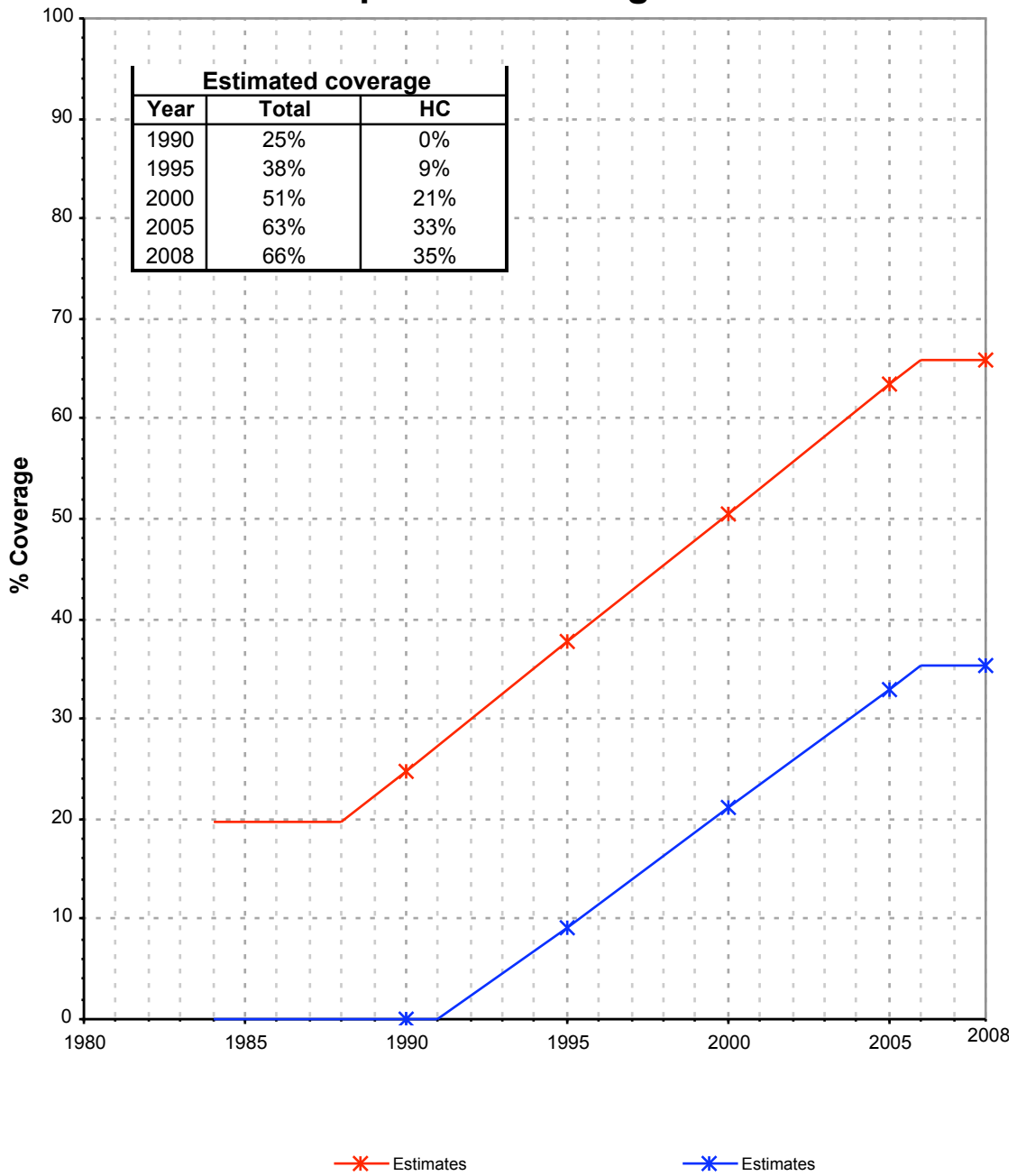
Access to drinking water sources		EPH99			Paraguay			Access to drinking water sources		JMP99			Paraguay		
Encuesta Permanente de Hogares					Global Water Supply and Sanitation Assessment 2000.					Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					
					1999								1998		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Corposana o Senasa o red privada	Tap water	71.6	15.4		Population served with household connection	Tap water	69.0	11.1							
	House connections					House connections	69.0	11.1							
	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	28.0	75.1		Population without household connection but with reasonable access to a public	Ground water	1.2	1.8							
	Protected ground water	16.0	17.4			Protected ground water	1.2	1.8							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	16.0	17.4	0.0		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	28.0	75.1			All wells									
	Private					Private									
	Public					Public									
	Other					Other									
Pozo con bomba	Tubewell, borehole	16.0	17.4			Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
Pozo sin bomba	Traditional wells	12.0	57.7			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									
Ycua o manantial - Arroyo - Rio	Surface water	0.1	7.0			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					Other									
	Other non-improved	0.4	1.1		Total population unserved	Other non-improved	29.9	87.2							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Otros	Other	0.4	1.1			Other									
	Other					Other									
	DK/missing					DK/missing									
	Total	100.1	98.6			Total	100.0	100.0							
Calculations					Calculations										
Estimations	protected wells, based on ratio from WHS	5.3	14.7		Estimations										
	HC, based on EIH98	67.8	14.6												
	Access to improved drinking water sources :	93%	48%			Access to improved drinking water sources :	70%	13%							
	Access to house connections :	68%	15%			Access to house connections :	69%	11%							
	Used for the estimates	Yes	Yes			Used for the estimates	No	No							
	Used for the estimates	Yes	Yes			Used for the estimates	No	No							
Ratios	HC / Tap water				Ratios	HC / Tap water	100%	100%							
	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	57%	23%			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:					Total population:	2905.13	2500.35							
Comments					Comments										

Paraguay			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	DHS90	1990	62.5		78.8		3.0		29.5	
National Census	CEN92	1992	57.2		81.3		2.9		28.2	
Encuesta Permanente de Hogares	EPH95	1995	64.5			67.9	8.3			8.9
Encuesta Nacional de Demografia y Salud Reproductiva	ENDSR96	1996	73.5		88.0		10.6		36.6	
Encuesta Nacional de Salud Materno Infantil	ENSMI98	1998	81.8		95.0		13.3		44.4	
Desigualdades en el acceso, uso y gasto con el agua potable en América Latina y el Caribe	EIH98	1998	66.2		90.9		12.0		41.1	
Encuesta Permanente de Hogares	EPH99	1999	67.8		92.9		14.6		47.5	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		69.0		70.1		11.1		12.8
Encuesta Integrada de Hogares	EIH00	2000			95.2				54.4	
Encuesta Integrada de Hogares	EIH01	2001	75.3		95.2		20.5		54.0	
Encuesta Permanente de Hogares	EPH02	2002	76.9		93.6		23.9		56.7	
World Health Survey	WHS03	2003	80.4		91.1		28.5		52.1	
Encuesta Permanente de Hogares	EPH03	2003	79.1		95.2		31.7		63.4	
ENCUESTA NACIONAL DE DEMOGRAFIA Y SALUD REPRODUCTIVA	ENDS04	2004	84.5		95.8		38.3		62.6	

Paraguay - urban - Use of improved drinking water sources



Paraguay - rural - Use of improved drinking water sources



Drinking Water

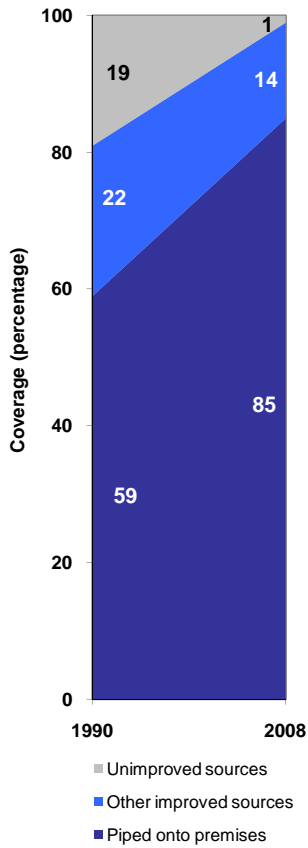
Paraguay	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	59	85	0	35	29	65
Other improved source	22	14	25	31	23	21
Unimproved source	19	1	75	34	48	14

Source: WHO/UNICEF JMP, 2010

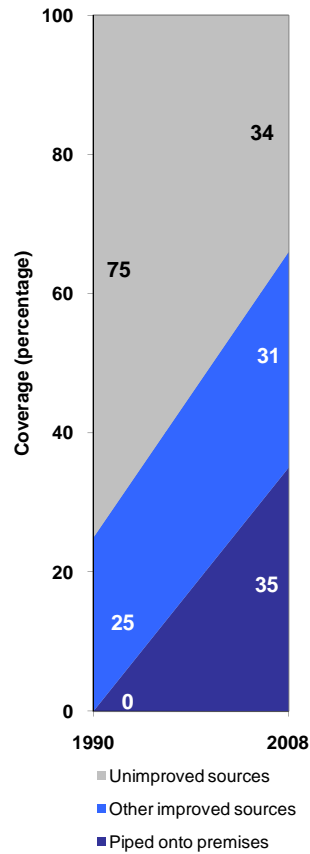
Paraguay	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	2,069	3,762	2,180	2,476	4,250	6,238

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

