



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

Colombia

Access to drinking water sources		DHS90			Colombia			Access to drinking water sources		CEN93			Colombia		
Demographic and Health Survey					National Census										
Encuesta de Prevalencia, Demografía y Salud					10% micro dataset from IPUMS										
Original denomination		Classification		Urban	Rural	Total	Original denomination		Classification		Urban	Rural	Total		
		Tap water		97.6	67.3				Tap water		94.4	37.8			
Red pública & Acueducto veredal		House connections		95.0	43.2		Piped	House connections		92.4	36.7				
		Piped water into dwelling						Piped water into dwelling							
		Piped water to yard/plot						Piped water to yard/plot							
Pila pública		Public tap, standpipe		0.3	1.7		Public tank/tap	Public tap, standpipe		2.0	1.1				
Otra fuente con tubería		Other		2.3	22.4			Other							
		Ground water		0.4	13.4				Ground water		2.5	25.4			
		Protected ground water							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		0.4	13.4		Well or cistern	All wells		2.5	25.4				
Pozo o aljibe		Private		0.4	13.4			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		0.3	1.3				Rainwater		1.0	2.5			
Agua lluvia		Covered cistern/tank		0.3	1.3		Rainwater	Covered cistern/tank		1.0	2.5				
		Uncovered cistern/tank						Uncovered cistern/tank							
		Bottled water							Bottled water		0.4	0.3			
		with other improved					Bottled water	with other improved		0.4	0.3				
		without other improved						without other improved							
Río, acqueña, manantial		Surface water		0.2	14.5		River or stream	Surface water		1.0	33.5				
		River						River		1.0	33.5				
		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		1.6	3.3				Other non-improved						
		Cart with small tank/drum						Cart with small tank/drum							
Camión, tanque aguatero		Tanker truck provided		0.4	0.4			Tanker truck provided							
Otro		Other		1.2	2.9			Other							
		Other						Other							
Missing		DK/missing		0.0	0.0		Unknown	DK/missing		0.6	0.4				
		Total		100.1	99.8				Total		100.0	100.0			
Calculations		Otra fuente con tubería/otra fuente + pozo		85.2%	62.6%		Calculations								
Estimations		50% of wells considered improved		0.2	6.7		Estimations		Pozo con tubería based on DHS90	2.1	15.9				
		Otra fuente con tubería = HCC		2.3	22.4				50% of remaining wells considered improved	0.2	4.8				
									Pozo con tubería = HCC	2.1	15.9				
Access to improved drinking water sources :				98%	75%		Access to improved drinking water sources :				98%	61%			
Access to house connections :				97%	66%		Access to house connections :				95%	53%			
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		97%	64%		Ratios		HC / Tap water	98%	97%				
		Public tap / Tap water		0%	3%				Public tap / Tap water	2%	3%				
		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 census:								
Number of households covered by the survey:							Number of households covered by the census:								
Total population:							Total population:								
Comments						Comments									

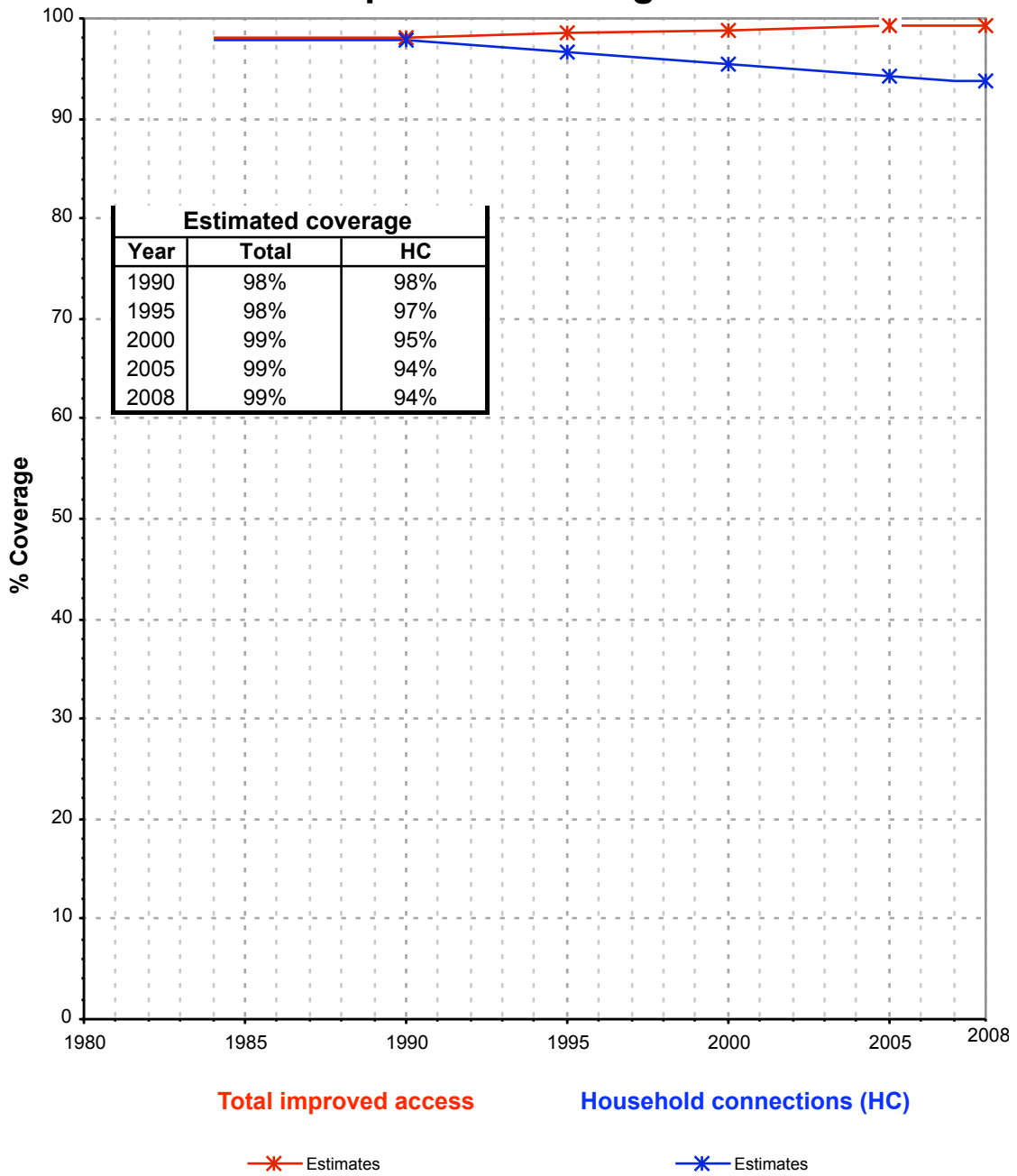
Access to drinking water sources		DHS95		Colombia		Access to drinking water sources		ENCV97		Colombia	
Demographic and Health Survey				PAHO, Feb 2001, using data of ENCV 1997				Desigualdades en el acceso, uso y gasto con el agua potable en América Latina y el Caribe			
		1995				1997					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total		
	Tap water	98.0	56.7			Tap water	97.5	78.5			
Red pública & Acueducto veredal	House connections	96.7	39.2			House connections	97.0	57.3			
	Piped water into dwelling				dentro de la vivienda	Piped water into dwelling	90.6	50.5			
	Piped water to yard/plot				en el lote o terreno	Piped water to yard/plot	6.4	6.8			
Pila pública	Public tap, standpipe	0.5	0.4		Pila pública	Public tap, standpipe	0.1	1.1			
Otra fuente con tubería	Other	0.8	17.1		fuera de la vivienda	Other	0.4	20.1			
	Ground water	0.5	20.8			Ground water	0.9	11.2			
	Protected ground water					Protected ground water	0.1	1.7			
	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	0.5	20.8			All wells	0.9	11.2			
Pozo o aljibe	Private	0.5	20.8			Private					
	Public					Public					
	Other					Other					
	Tubewell, borehole				Pozo con bomba	Tubewell, borehole	0.1	1.7			
	Private					Private					
	Public					Public					
	Other					Other					
	Traditional wells				Pozo sin bomba, aljibe (tank) o barreno (drilled hole)	Traditional wells	0.8	9.5			
	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	0.3	4.9			Rainwater	0.2	1.8			
Agua lluvia	Covered cistern/tank	0.3	4.9		Agua lluvia	Covered cistern/tank	0.2	1.8			
	Uncovered cistern/tank					Uncovered cistern/tank					
	Bottled water					Bottled water					
	with other improved					with other improved					
	without other improved					without other improved					
Río, acequia, manantial	Surface water	0.1	14.6		Río, quebrada, manantial, nacimiento	Surface water	0.0	6.4			
	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	0.8	1.1			Other non-improved	1.4	2.1			
	Cart with small tank/drum					Cart with small tank/drum					
Camión	Tanker truck provided	0.8	1.1		Carrotanque	Tanker truck provided	0.5	1.0			
	Other				Aguatero	Other	0.1	0.0			
	Other				Otro	Other	0.8	1.1			
Sin información/ no sabe	DK/missing	0.3	1.2			DK/missing					
	Total	100.0	99.3			Total	100.0	100.0			
Calculations	Otra fuente con tubería/otra fuente + pozo	61.5%	45.1%			Calculations					
Estimations	50% of wells considered improved	0.3	10.4			Estimations					
	Otra fuente con tubería = HCC	0.8	17.1				0.6	5.1			
							0.2	3.1			
							0.6	5.1			
Access to improved drinking water sources : 99% 72%				Access to improved drinking water sources : 99% 90%							
Access to house connections : 98% 56%				Access to house connections : 98% 62%							
Used for the estimates : Yes Yes				Used for the estimates : Yes No							
Used for the estimates : Yes Yes				Used for the estimates : Yes No							
Ratios	HC / Tap water	99%	69%			Ratios	HC / Tap water	99%	73%		
	Public tap / Tap water	1%	1%				Public tap / Tap water	0%	1%		
	Tubewell + protected well / All wells						Tubewell + protected well / All wells				
	Protected wells / Traditional wells						Protected wells / Traditional wells				
	Tubewell / All wells						Tubewell / All wells	11%	15%		
	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		JMP99			Colombia			Access to drinking water sources		DHS00			Colombia						
Global Water Supply and Sanitation Assessment 2000.					Demographic and Health Survey														
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1998					Salud sexual y reproductiva en Colombia, Encuesta Nacional de Demografía y Salud.					2000				
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total										
Population served with household connection	Tap water	89.2	46.4			Tap water	98.0	50.3											
	House connections	89.2	46.4		Red publica & Acueducto	House connections	97.9	50.1											
	Piped water into dwelling					Piped water into dwelling													
	Piped water to yard/plot					Piped water to yard/plot													
	Public tap, standpipe				Pila publica	Public tap, standpipe	0.1	0.2											
	Other					Other													
Population without household connection	Ground water					Ground water	1.3	18.7											
	Protected ground water					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 o aljibe	All wells	1.3	18.7											
	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				Agua lluvia	Rainwater	0.4	4.1											
	Covered cistern/tank					Covered cistern/tank	0.4	4.1											
	Uncovered cistern/tank					Uncovered cistern/tank													
	Bottled water					Bottled water													
	with other improved					with other improved													
	without other improved					without other improved													
	Surface water				Rio, acqueia, manantial	Surface water	0.0	24.6											
	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													
Total population unserved	Other non-improved	10.8	53.6			Other non-improved	0.3	2.2											
	Cart with small tank/drum					Cart with small tank/drum													
	Tanker truck provided				Camion tanque aguatero	Tanker truck provided	0.1	1.2											
	Other				Otro	Other	0.2	1.0											
	Other					Other													
	DK/missing					DK/missing													
	Total	100.0	100.0			Total	100.0	99.9											
Calculations					Calculations														
Estimations					Estimations	Pozo con tuberia based on DHS95	0.8	8.4											
						50% of remaining wells considered improved	0.3	5.1											
						Pozo con tuberia = HCC	0.8	8.4											
Access to improved drinking water sources :		89%	46%		Access to improved drinking water sources :		99%	68%											
Access to house connections :		89%	46%		Access to house connections :		99%	59%											
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	100%	100%											
	Public tap / Tap water					Public tap / Tap water	0%	0%											
	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:		28062	11953		Total population:														
Comments					Comments														

Access to drinking water sources		DHS05		Colombia		Access to drinking water sources		ENC03		Colombia	
Demographic and Health Survey				Encuesta Nacional de Calidad de Vida - September							
Encuesta Nacional de Demografía y Salud				2005				2003			
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total		
	Tap water	91.7	63.9			Tap water	93.1	43.8			
Acueducto publico & comunal o veredal	House connections	91.6	63.5		Acueducto	House connections	93.0	43.3			
	Piped water into dwelling					Piped water into dwelling					
	Piped water to yard/plot					Piped water to yard/plot					
Pila publica	Public tap, standpipe	0.1	0.4		Pila pública	Public tap, standpipe	0.1	0.5			
	Other					Other					
	Ground water	1.1	9.9			Ground water	2.8	15.7			
	Protected ground water	0.8	3.1			Protected ground water	1.6	6.3			
	Unprotected ground water					Unprotected ground water					
	Protected wells or springs	0.8	3.1			Protected wells or springs	1.6	6.3			
	Private					Private					
	Public					Public					
	Other					Other					
	Unprotected wells or springs					Unprotected wells or springs					
	Private					Private					
	Public					Public					
	Other					Other					
	All wells	1.1	9.9			All wells	2.8	15.7			
	Private					Private					
	Public					Public					
	Other					Other					
Pozo con bomba	Tubewell, borehole	0.8	3.1		Pozo con bomba	Tubewell, borehole	1.6	6.3			
	Private					Private					
	Public					Public					
	Other					Other					
Pozo sin bomba, jagüey	Traditional wells	0.3	6.8		Pozo sin bomba, jagüey	Traditional wells	1.2	9.3			
	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	1.5	6.5			Rainwater	1.1	2.7			
Agua lluvia	Covered cistern/tank	1.5	6.5		Agua lluvia	Covered cistern/tank	1.1	2.7			
	Uncovered cistern/tank					Uncovered cistern/tank					
	Bottled water	4.4	1.8			Bottled water	0.9	0.5			
Agua embotallada o en bolsa	with other improved	4.4	1.8		Agua embotellada o en bolsa	with other improved	0.4	0.3			
	without other improved					without other improved	0.4	0.3			
Río, acqueña, manantial	Surface water	0.2	14.8		Río, quebrada, manantial, nacimiento	Surface water	1.8	35.8			
	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	1.1	3.1			Other non-improved	0.8	1.7			
Carrotanque	Cart with small tank/drum	0.0	0.6		Carrotanque	Cart with small tank/drum	0.3	1.0			
Aguaatero	Tanker truck provided	0.6	1.1		Aguaatero	Tanker truck provided	0.5	0.7			
Otro	Other	0.5	1.4			Other					
	DK/missing					DK/missing					
	Total	100.0	100.0			Total	100.5	100.2			
Calculations					Calculations						
Estimations	Pozo con tuberia based on DHS95	0.7	4.5		Estimations	Pozo con tuberia based on DHS95	1.7	7.1			
	50% of remaining wells considered improved	0.2	2.7			50% of remaining wells considered improved	0.5	4.3			
						Pozo con tuberia = HCC	1.7	7.1			
Access to improved drinking water sources : 99% 82%				Access to improved drinking water sources : 98% 64%							
Access to house connections : 92% 64%				Access to house connections : 95% 50%							
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%	99%		Ratios	HC / Tap water	100%	99%			
	Public tap / Tap water	0%	1%			Public tap / Tap water	0%	1%			
	Tubewell + protected well / All wells					Tubewell + protected well / All wells					
	Protected wells / Traditional wells					Protected wells / Traditional wells					
	Tubewell / All wells	73%	31%			Tubewell / All wells	56%	40%			
	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						

Colombia			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	97.3		98.1		65.6		75.3	
National Census	CEN93	1993	94.5		98.2		52.6		61.3	
Demographic and Health Survey	DHS95	1995	97.5		98.6		56.3		72.0	
Desigualdades en el acceso, uso y gasto con el agua potable en América Latina y el Caribe	ENCV97	1997	97.6		98.5			62.4		90.1
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		89.2		89.2		46.4		46.4
Demographic and Health Survey	DHS00	2000	98.7		99.5		58.5		68.0	
Demographic and Health Survey	DHS05	2005	91.6		99.3		63.5		82.5	
Encuesta Nacional de Calidad de Vida - September	ENCV03	2003	94.7		98.5		50.4		64.5	

Colombia - urban - Use of improved drinking water sources



Colombia - rural - Use of improved drinking water sources

