



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

Philippines

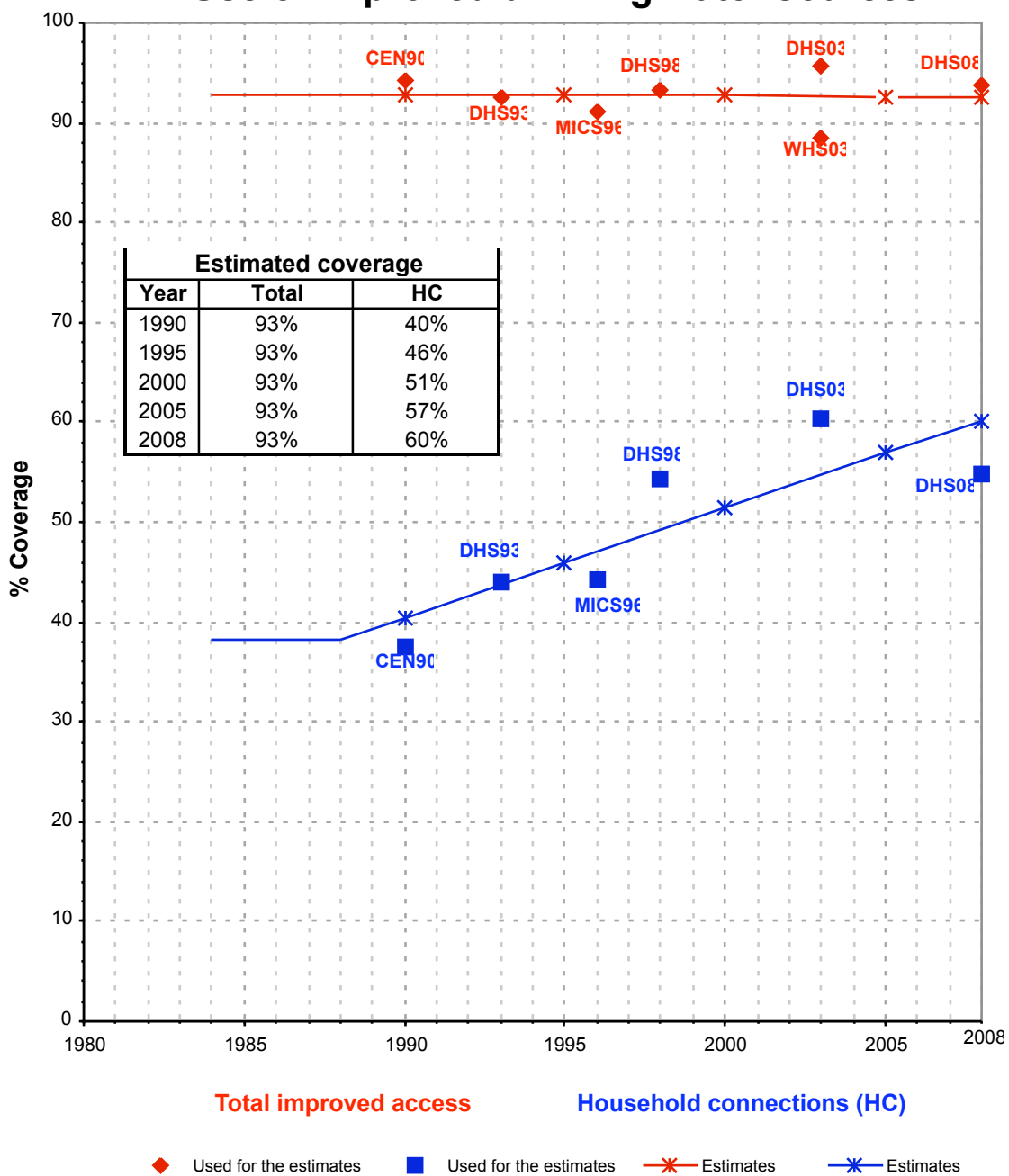
Access to drinking water sources		CEN90			Philippines			Access to drinking water sources		DHS93			Philippines		
National Census					1990			Demographic and Health Survey					1993		
10% micro dataset from IPUMS															
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
Own use faucet	Tap water	60.9	22.7		Piped into residence	Tap water	53.5	20.6	37.3	Piped into residence	Tap water	44.1	12.0	28.3	
	House connections	37.5	8.7			Piped water into dwelling						Piped water into dwelling			
Shared faucet	Piped water to yard/plot				Public tap	Piped water to yard/plot				Public tap	Piped water to yard/plot				
	Public tap, standpipe	23.4	14.0			Public tap, standpipe	9.4	8.6	9.0		Public tap, standpipe	9.4	8.6	9.0	
	Other					Other					Other				
	Ground water	33.3	57.1			Ground water	42.3	74.9	58.4		Ground water	42.3	74.9	58.4	
	Protected ground water	23.4	23.7			Protected ground water	38.5	59.1	48.7		Protected ground water	38.5	59.1	48.7	
	Unprotected ground water	9.9	33.4			Unprotected ground water	3.8	15.8	9.7		Unprotected ground water	3.8	15.8	9.7	
	Protected wells or springs	23.4	23.7			Protected wells or springs	38.5	59.1	48.7		Protected wells or springs	38.5	59.1	48.7	
	Private	9.5	8.3			Private	19.6	24.5	22.1		Private	19.6	24.5	22.1	
	Public	13.9	15.4			Public	16.8	22.3	19.5		Public	16.8	22.3	19.5	
	Other					Other					Other				
	Unprotected wells or springs	9.9	33.4	0.0		Unprotected wells or springs	3.8	15.8	9.7		Unprotected wells or springs	3.8	15.8	9.7	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All wells	33.3	57.1			All wells	40.2	62.6	51.3		All wells	40.2	62.6	51.3	
	Private	9.5	8.3			Private	19.6	24.5	22.1		Private	19.6	24.5	22.1	
	Public	13.9	15.4			Public	16.8	22.3	19.5		Public	16.8	22.3	19.5	
	Other					Other					Other				
	Tubewell, borehole	23.4	23.7			Tubewell, borehole	19.7	30.6	25.1		Tubewell, borehole	19.7	30.6	25.1	
Own use deep well	Private	9.5	8.3		Tubed/pipe well/improved dug well within residence	Private	13.7	20.2	16.9		Private	13.7	20.2	16.9	
Shared deep well	Public	13.9	15.4		Tubed/pipe well/improved dug well outside residence	Public	6.0	10.4	8.2		Public	6.0	10.4	8.2	
	Other					Other					Other				
	Traditional wells	9.9	33.4			Traditional wells	20.5	32.0	26.2		Traditional wells	20.5	32.0	26.2	
	Private					Private	5.9	4.3	5.2		Private	5.9	4.3	5.2	
	Public					Public	10.8	11.9	11.3		Public	10.8	11.9	11.3	
	Other					Other					Other				
	Protected well					Protected well	16.7	16.2	16.5		Protected well	16.7	16.2	16.5	
	Private				Private well	Private	5.9	4.3	5.2		Private	5.9	4.3	5.2	
	Public				Public well	Public	10.8	11.9	11.3		Public	10.8	11.9	11.3	
	Other					Other					Other				
	Unprotected well	9.9	33.4		Open dug well	Unprotected well	3.8	15.8	9.7		Unprotected well	3.8	15.8	9.7	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All springs					All springs	2.1	12.3	7.1		All springs	2.1	12.3	7.1	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Protected spring				Developed spring	Protected spring	2.1	12.3	7.1		Protected spring	2.1	12.3	7.1	
	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	0.5	1.1	0.8		Rainwater	0.5	1.1	0.8	
	Covered cistern/tank				Rainwater	Covered cistern/tank	0.5	1.1	0.8		Covered cistern/tank	0.5	1.1	0.8	
	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				
Spring lake river	Surface water	3.1	19.4			Surface water					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	2.6	0.9			Other non-improved	3.4	3.2	3.3		Other non-improved	3.4	3.2	3.3	
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
Peddler	Tanker truck provided	2.6	0.9		Other	Tanker truck provided	3.4	3.2	3.3		Tanker truck provided	3.4	3.2	3.3	
	Other					Other					Other				
	Other					Other					Other				
	DK/missing				Missing/DK	DK/missing	0.2	0.3	0.3		DK/missing	0.2	0.3	0.3	
	Total	99.9	100.1			Total	99.9	100.1	100.1		Total	99.9	100.1	100.1	
Calculations	Springs, based on DHS93	3.1	19.4		Calculations					Calculations					
Estimations	protected shallow wells and dug wells based on DHS 93	8.1	16.9		Estimations					Estimations					
	Ratio of protected springs from DHS03	1.9	11.1												
Access to improved drinking water sources : 94% 74%					Access to improved drinking water sources : 93% 81% 87%					Access to improved drinking water sources : 93% 81% 87%					
Access to house connections : 38% 9%					Access to house connections : 44% 12% 28%					Access to house connections : 44% 12% 28%					
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					Used for the estimates: Yes Yes					
Ratios	HC / Tap water	62%	38%		Ratios	HC / Tap water	82%	58%		Ratios	HC / Tap water	82%	58%		
	Public tap / Tap water	38%	62%			Public tap / Tap water	18%	42%			Public tap / Tap water	18%	42%		
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	91%	75%			Tubewell + protected well / All wells	91%	75%		
	Protected wells / Traditional wells					Protected wells / Traditional wells	81%	51%			Protected wells / Traditional wells	81%	51%		
	Tubewell / All wells					Tubewell / All wells	49%	49%			Tubewell / All wells	49%	49%		
	Protected springs / All springs					Protected springs / All springs	100%	100%			Protected springs / All springs	100%	100%		
	Protect. well & spring / well & spring	70%	42%			Protect. well & spring / well & spring	91%	79%			Protect. well & spring / well & spring	91%	79%		
Number of people covered by the census:					Number of people covered by the survey:					Number of people covered by the survey:					
Number of households covered by the census:					Number of households covered by the survey:					Number of households covered by the survey:					
Total population:					Total population:					Total population:					
Comments					Comments					(updated after query response received)					

Access to drinking water sources		JMP99			Philippines			Access to drinking water sources		WHS03			Philippines		
Global Water Supply and Sanitation Assessment 2000.					World Health Survey										
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999					2003					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	Tap water	46.6	15.0		Piped water through house connection or yard	Tap water	70.8	45.8							
	House connections	46.6	15.0			House connections	42.0	19.8							
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	Public tap, standpipe					Public tap, standpipe	28.8	25.9							
	Other				Other										
Population without household connection but with reasonable access to a public	Ground water	44.0	65.0		Unprotected dug well or spring	Ground water	18.9	47.1							
	Protected ground water	44.0	65.0			Protected ground water	17.7	41.1							
	Unprotected ground water					Unprotected ground water	1.2	6.0							
	Protected wells or springs					Protected wells or springs	17.7	41.1	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	1.2	6.0							
	Private					Private									
	Public					Public									
	Other					Other									
	All wells					All wells	17.7	41.1							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole	14.1	27.2							
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells					Traditional wells	3.6	13.9							
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well					Protected well	3.6	13.9							
	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	0.1	0.7							
	Covered cistern/tank					Covered cistern/tank	0.1	0.7							
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	1.0	3.1									
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	9.4	20.0		Other non-improved	9.2	3.4								
	Cart with small tank/drum				Cart with small tank/drum										
	Tanker truck provided			Tanker-truck, vendor	9.2	3.4									
	Other			Other											
	Other			Other											
	DK/missing			DK/missing											
	Total	100.0	100.0		Total	100.0	100.0								
Calculations				Calculations											
Estimations				Estimations											
Access to improved drinking water sources : 91% 80%				Access to improved drinking water sources : 89% 87%											
Access to house connections : 47% 15%				Access to house connections : 42% 20%											
Used for the estimates : No No				Used for the estimates : Yes Yes											
Used for the estimates : No No				Used for the estimates : No Yes											
Ratios	HC / Tap water	100%	100%		HC / Tap water	59%	43%								
	Public tap / Tap water				Public tap / Tap water	41%	57%								
	Tubewell + protected well / All wells				Tubewell + protected well / All wells	100%	100%								
	Protected wells / Traditional wells				Protected wells / Traditional wells	100%	100%								
	Tubewell / All wells				Tubewell / All wells	80%	66%								
	Protected springs / All springs				Protected springs / All springs										
	Protect. well & spring / well & spring				Protect. well & spring / well & spring	94%	87%								
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: 32000 41000				Total population:											
Comments				Comments											

Access to drinking water sources		DHS03		Philippines		Access to drinking water sources		DHS08		Philippines					
Demographic and Health Survey				2003				Demographic and Health Survey				2008			
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
	Tap water	66.8	37.1			Tap water	41.6	28.7	35.1		Tap water	41.6	28.7	35.1	
	House connections	55.7	21.9			House connections	38.2	21.6	29.9		House connections	38.2	21.6	29.9	
Piped into dwelling	Piped water into dwelling	50.9	16.0		Piped into dwelling, yard, Plot	Piped water into dwelling	38.2	21.6	29.9		Piped water into dwelling	38.2	21.6	29.9	
Piped into yard/plot	Piped water to yard/plot	4.8	5.9			Piped water to yard/plot					Piped water to yard/plot				
Public tap	Public tap, standpipe	11.1	15.2		Public tap	Public tap, standpipe	3.4	7.1	5.2		Public tap, standpipe	3.4	7.1	5.2	
	Other					Other					Other				
	Ground water	20.8	58.2			Ground water	19.9	60.9	40.1		Ground water	19.9	60.9	40.1	
	Protected ground water	19.5	43.4			Protected ground water	18.7	50.3	34.2		Protected ground water	18.7	50.3	34.2	
	Unprotected ground water	1.3	14.8			Unprotected ground water	1.2	10.6	5.9		Unprotected ground water	1.2	10.6	5.9	
	Protected wells or springs	19.5	43.4	0.0		Protected wells or springs	18.4	48.3	33.1		Protected wells or springs	18.4	48.3	33.1	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other	0.3	2.0	1.1		Other	0.3	2.0	1.1	
	Unprotected wells or springs	1.3	14.8	0.0		Unprotected wells or springs	1.2	10.6	5.9		Unprotected wells or springs	1.2	10.6	5.9	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All wells	19.3	44.0			All wells	17.5	44.9	31.0		All wells	17.5	44.9	31.0	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other	0.3	2.0	1.1		Other	0.3	2.0	1.1	
	Tubewell, borehole				Tubewell or borehole	Tubewell, borehole	14.4	29.6	21.9		Tubewell, borehole	14.4	29.6	21.9	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Traditional wells	19.3	44.0			Traditional wells	3.1	15.3	9.1		Traditional wells	3.1	15.3	9.1	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other	0.3	2.0	1.1		Other	0.3	2.0	1.1	
Protected well	Protected well	18.6	35.3		Protected dug well	Protected well	2.2	7.9	5.0		Protected well	2.2	7.9	5.0	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other	0.3	2.0	1.1		Other	0.3	2.0	1.1	
Open dug well	Unprotected well	0.7	8.7		Unprotected dug well	Unprotected well	0.6	5.4	3.0		Unprotected well	0.6	5.4	3.0	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All springs	1.5	14.2			All springs	2.4	16.0	9.1		All springs	2.4	16.0	9.1	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Developed spring	Protected spring	0.9	8.1		Protected spring	Protected spring	1.8	10.8	6.2		Protected spring	1.8	10.8	6.2	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Undeveloped spring	Unprotected spring	0.6	6.1		Unprotected spring	Unprotected spring	0.6	5.2	2.9		Unprotected spring	0.6	5.2	2.9	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Rainwater	0.1	0.8			Rainwater	0.4	0.9	0.7		Rainwater	0.4	0.9	0.7	
Rainwater	Covered cistern/tank	0.1	0.8		Rainwater	Covered cistern/tank	0.4	0.9	0.7		Covered cistern/tank	0.4	0.9	0.7	
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank				
Bottled water/refilling station	Bottled water	9.8	1.3			Bottled water	34.6	6.7	20.8		Bottled water	34.6	6.7	20.8	
	with other improved				Bottled water with improved source for cooking, ha	with other improved	33.0	6.4	19.8		with other improved	33.0	6.4	19.8	
	without other improved				Bottled water non improved source for cooking, ha	without other improved	1.6	0.3	1.0		without other improved	1.6	0.3	1.0	
River/stream/pond/lake/dam	Surface water	0.2	1.6		Surface water	Surface water	0.3	0.4	0.4		Surface water	0.3	0.4	0.4	
	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	2.2	0.8			Other non-improved	3.2	2.5	2.8		Other non-improved	3.2	2.5	2.8	
	Cart with small tank/drum				Cart with small tank/drum	Cart with small tank/drum					Cart with small tank/drum				
Tanker truck/peddler	Tanker truck provided	2.2	0.8		Tanker truck/cart with small tank	Tanker truck provided	1.7	1.2	1.4		Tanker truck provided	1.7	1.2	1.4	
	Other				Other	Other	1.5	1.3	1.4		Other	1.5	1.3	1.4	
	Other					Other					Other				
	DK/missing					DK/missing					DK/missing				
	Total	99.9	99.8			Total	100.0	100.1	99.9		Total	100.0	100.1	99.9	
Calculations					Calculations	Proportion bottled water with improved source	95%	96%		Calculations					
Estimations	Bottled water + improved source based on DHS08	9.3	1.2		Estimations					Estimations					
	50% of bottled water + improved users with HCC	4.7	0.6			50% of bottled water + improved users with HCC	16.5	3.2			50% of bottled water + improved users with HCC	16.5	3.2		
Access to improved drinking water sources :		96%	83%		Access to improved drinking water sources :		94%	86%	90%	Access to improved drinking water sources :		94%	86%	90%	
Access to house connections :		60%	23%		Access to house connections :		55%	25%	30%	Access to house connections :		55%	25%	30%	
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		Used for the estimates :		Yes	Yes		
Ratios	HC / Tap water	83%	59%		Ratios	HC / Tap water	92%	75%		Ratios	HC / Tap water	92%	75%		
	Public tap / Tap water	17%	41%			Public tap / Tap water	8%	25%			Public tap / Tap water	8%	25%		
	Tubewell + protected well / All wells	96%	80%			Tubewell + protected well / All wells	95%	84%			Tubewell + protected well / All wells	95%	84%		
	Protected wells / Traditional wells					Protected wells / Traditional wells	71%	52%			Protected wells / Traditional wells	71%	52%		
	Tubewell / All wells					Tubewell / All wells	82%	66%			Tubewell / All wells	82%	66%		
	Protected springs / All springs	60%	57%			Protected springs / All springs	75%	68%			Protected springs / All springs	75%	68%		
	Protect. well & spring / well & spring	94%	75%			Protect. well & spring / well & spring	94%	82%			Protect. well & spring / well & spring	94%	82%		
	Bottled water/tanker truck	0%	0%			Bottled water/tanker truck					Bottled water/tanker truck				
	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					

Philippines			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
National Census	CEN90	1990	37.5		94.2		8.7		74.4	
Demographic and Health Survey	DHS93	1993	44.1		92.5		12.0		80.8	
Multiple Indicator Cluster Survey	MICS96	1996	44.1		91.1		8.9		80.7	
Demographic and Health Survey	DHS98	1998	54.4		93.3		19.4		79.7	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		46.6		90.6		15.0		80.0
World Health Survey	WHS03	2003		42.0	88.6		19.8		87.5	
Demographic and Health Survey	DHS03	2003	60.4		95.7		22.5		82.5	
Demographic and Health Survey	DHS08	2008	54.7		93.7		24.8		86.3	

Philippines - urban - Use of improved drinking water sources



Philippines - rural - Use of improved drinking water sources

