

**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](http://childinfo.org)

Access to drinking water sources		CEN90			Philippines			Access to drinking water sources		DHS93			Philippines		
National Census					10% micro dataset from IPUMS					Demographic and Health Survey					
					1990					1993					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Own use faucet	<b>Tap water</b>	60.9	22.7		Piped into residence	<b>Tap water</b>	53.5	20.6	37.3						
	House connections	37.5	8.7			House connections	44.1	12.0	28.3						
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	Shared faucet	Public tap, standpipe	23.4	14.0			Public tap, standpipe	9.4	8.6	9.0					
		Other					Other								
		<b>Ground water</b>	33.3	57.1			<b>Ground water</b>	42.3	74.9	58.4					
		Protected ground water	23.4	23.7			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					
		Protected wells or springs	23.4	23.7			Protected wells or springs	38.5	59.1	48.7					
	Private	9.5	8.3		Private	19.6	24.5	22.1							
	Public	13.9	15.4		Public	16.8	22.3	19.5							
	Other				Other										
	Unprotected wells or springs	9.9	33.4	0.0	Unprotected wells or springs	3.8	15.8	9.7							
	Private				Private										
	Public				Public										
	Other				Other										
	<b>All wells</b>	33.3	57.1		<b>All wells</b>	40.2	62.6	51.3							
	Private	9.5	8.3		Private	19.6	24.5	22.1							
	Public	13.9	15.4		Public	16.8	22.3	19.5							
	Other				Other										
	Tubewell, borehole	23.4	23.7		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						
Shared deep well	Public	13.9	15.4		Public	6.0	10.4	8.2							
	Other				Other										
	<b>Traditional wells</b>	9.9	33.4		<b>Traditional wells</b>	20.5	32.0	26.2							
	Private				Private	5.9	4.3	5.2							
	Public				Public	10.8	11.9	11.3							
	Other				Other										
	Protected well				Protected well	16.7	16.2	16.5							
	Private				Private	5.9	4.3	5.2							
	Public				Public	10.8	11.9	11.3							
	Other				Other										
	Unprotected well	9.9	33.4		Unprotected well	3.8	15.8	9.7							
	Private				Private										
	Public				Public										
	Other				Other										
	<b>All springs</b>				<b>All springs</b>	2.1	12.3	7.1							
	Private				Private										
	Public				Public										
	Other				Other										
	Protected spring				Protected spring	2.1	12.3	7.1							
	Private				Private										
	Public				Public										
	Other				Other										
	Unprotected spring				Unprotected spring										
	Private				Private										
	Public				Public										
	Other				Other										
	<b>Rainwater</b>				<b>Rainwater</b>	0.5	1.1	0.8							
	Covered cistern/tank				Covered cistern/tank	0.5	1.1	0.8							
	Uncovered cistern/tank				Uncovered cistern/tank										
	<b>Bottled water</b>				<b>Bottled water</b>										
	with other improved				with other improved										
	without other improved				without other improved										
Spring lake river	<b>Surface water</b>	3.1	19.4		<b>Surface water</b>										
	River				River										
	Lake				Lake										
	Dam				Dam										
	Pond				Pond										
	Stream				Stream										
	Irrigation channel				Irrigation channel										
	Other				Other										
	<b>Other improved sources</b>				<b>Other improved sources</b>										
	Other				Other										
	Other				Other										
	<b>Other non-improved</b>	2.6	0.9		<b>Other non-improved</b>	3.4	3.2	3.3							
	Cart with small tank/drum				Cart with small tank/drum										
	Tanker truck provided	2.6	0.9		Tanker truck provided										
	Other				Other	3.4	3.2	3.3							
	Other				Other										
Peddler	<b>DK/missing</b>				<b>DK/missing</b>	0.2	0.3	0.3							
	<b>Total</b>	99.9	100.1		<b>Total</b>	99.9	100.1	100.1							
Calculations	Springs, based on DHS93	3.1	19.4		Calculations										
Estimations	protected shallow wells and dug wells based on DHS 93	8.1	16.9		Estimations										
	Ratio of protected springs from DHS03	1.9	11.1												
<b>Access to improved drinking water sources : 94% 74%</b>					<b>Access to improved drinking water sources : 93% 81% 87%</b>										
<b>Access to house connections : 38% 9%</b>					<b>Access to house connections : 44% 12% 28%</b>										
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%							
	Public tap / Tap water	38%	62%			Public tap / Tap water	18%	42%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	91%	75%							
	Protected wells / Traditional wells					Protected wells / Traditional wells	81%	51%							
	Tubewell / All wells					Tubewell / All wells	49%	49%							
	Protected springs / All springs					Protected springs / All springs	100%	100%							
	Protect. well & spring / well & spring	70%	42%			Protect. well & spring / well & spring	91%	79%							
Number of people covered by the census:					Number of people covered by the survey:										
Number of households covered by the census:					Number of households covered by the survey:										
Total population:					Total population:										
<b>Comments</b>					<b>Comments</b> (updated after query response received)										

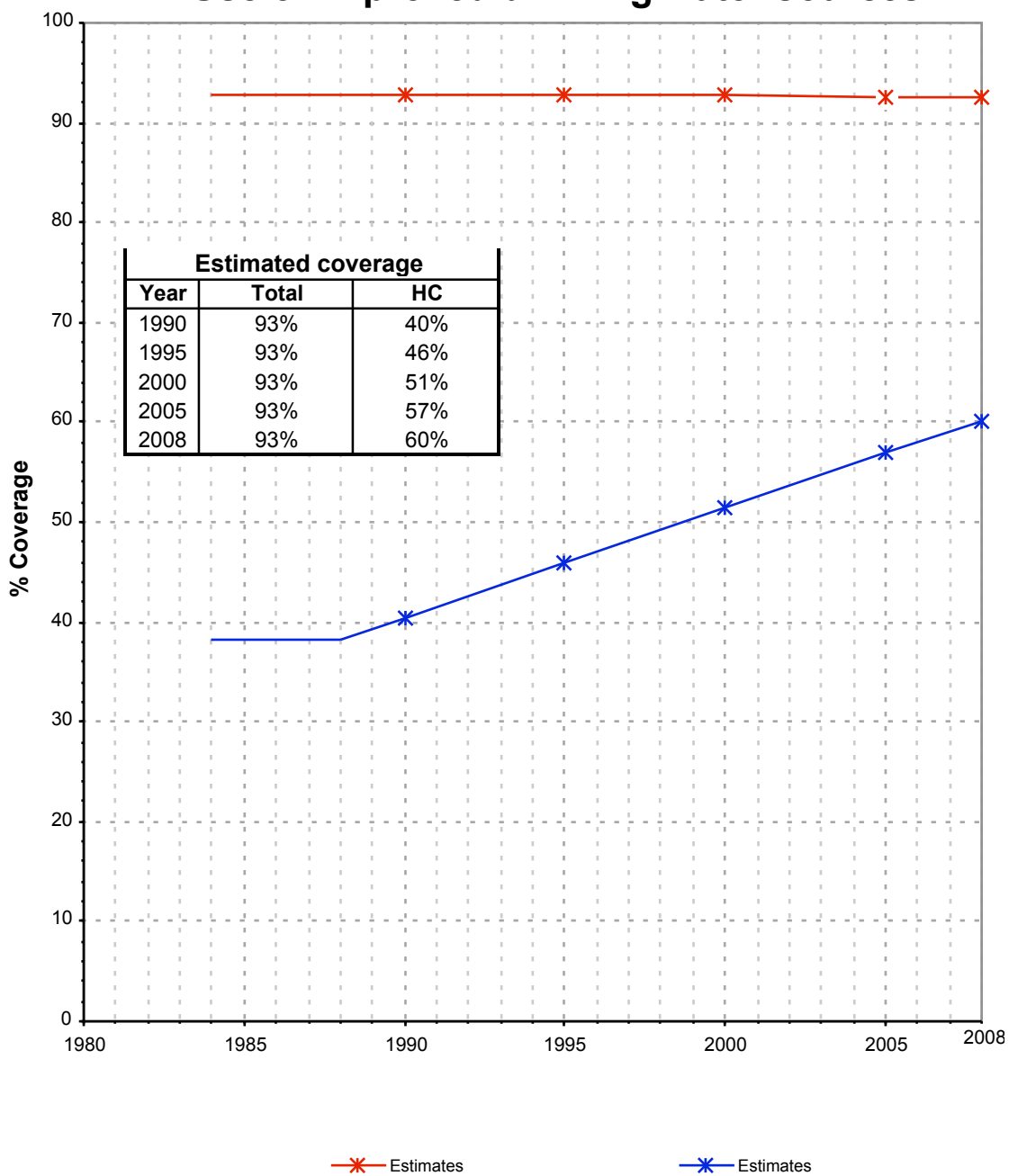


Access to drinking water sources		JMP99			Philippines			Access to drinking water sources		WHS03			Philippines		
Global Water Supply and Sanitation Assessment 2000.					World Health Survey										
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999					2003					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	<b>Tap water</b>	46.6	15.0		Piped water through house connection or yard	<b>Tap water</b>	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	<b>Ground water</b>	44.0	65.0		Unprotected dug well or spring	<b>Ground water</b>	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									
	<b>All wells</b>					<b>All wells</b>	17.7	41.1							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole	14.1	27.2							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>					<b>Traditional wells</b>	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									
	<b>All springs</b>					<b>All springs</b>									
	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									
	<b>Rainwater</b>					<b>Rainwater</b>	0.1	0.7							
	Covered cistern/tank					Covered cistern/tank	0.1	0.7							
Uncovered cistern/tank				Uncovered cistern/tank											
<b>Bottled water</b>				<b>Bottled water</b>											
with other improved				with other improved											
without other improved				without other improved											
<b>Surface water</b>				<b>Surface water</b>	1.0	3.1									
River				River											
Lake				Lake											
Dam				Dam											
Pond				Pond											
Stream				Stream											
Irrigation channel				Irrigation channel											
Other				Other											
<b>Other improved sources</b>				<b>Other improved sources</b>											
Other				Other											
Other				Other											
Total population unserved	<b>Other non-improved</b>	9.4	20.0		<b>Other non-improved</b>	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											
	<b>DK/missing</b>			<b>DK/missing</b>											
	<b>Total</b>	100.0	100.0		<b>Total</b>	100.0	100.0								
Calculations					Calculations										
Estimations					Estimations										
<b>Access to improved drinking water sources :</b>				91%	80%	<b>Access to improved drinking water sources :</b>				89%	87%				
<b>Access to house connections :</b>				47%	15%	<b>Access to house connections :</b>				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%		Ratios	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										

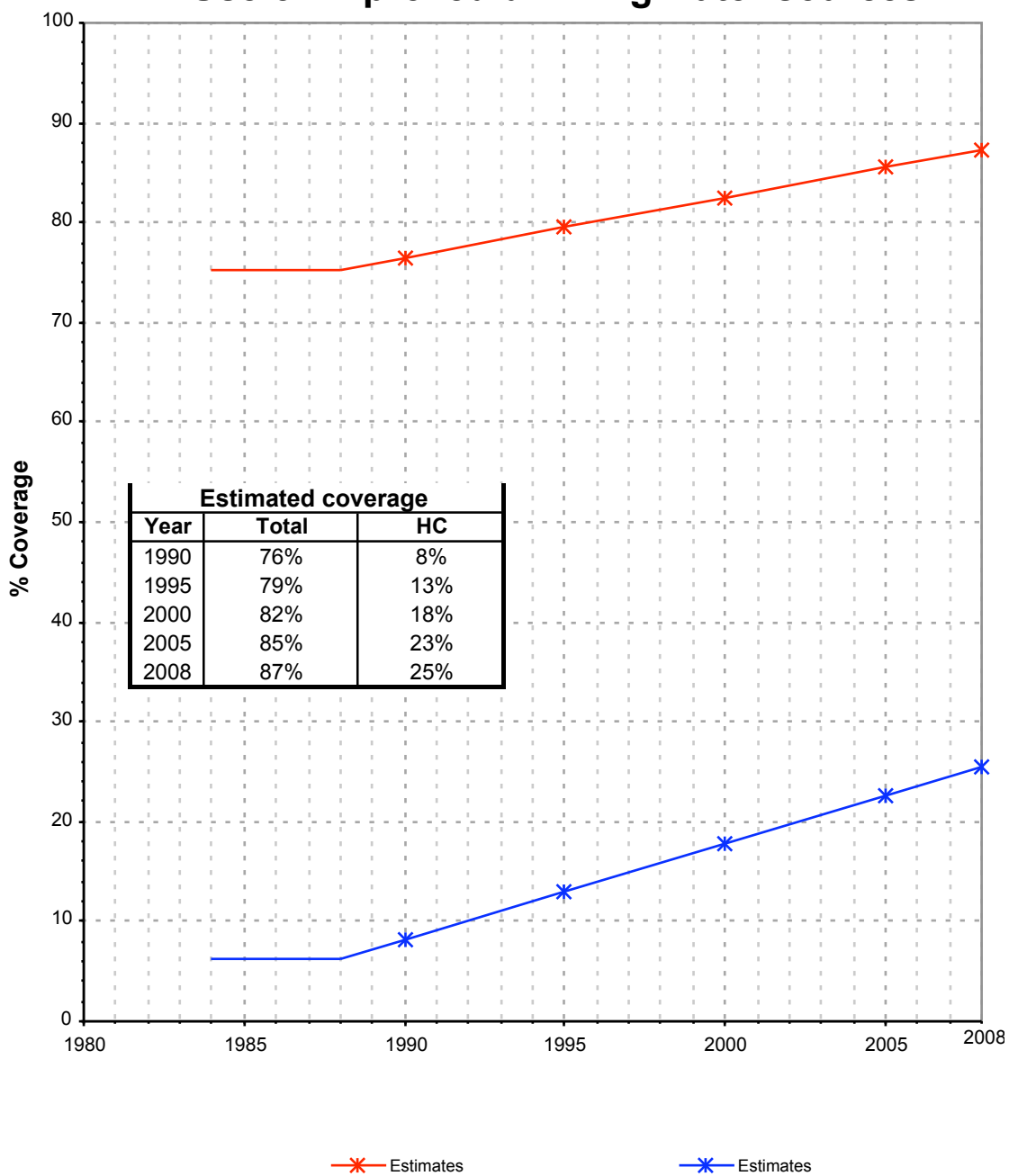
Access to drinking water sources		DHS03			Philippines			Access to drinking water sources		DHS08			Philippines		
Demographic and Health Survey					2003			Demographic and Health Survey					2008		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total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

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



# Drinking Water

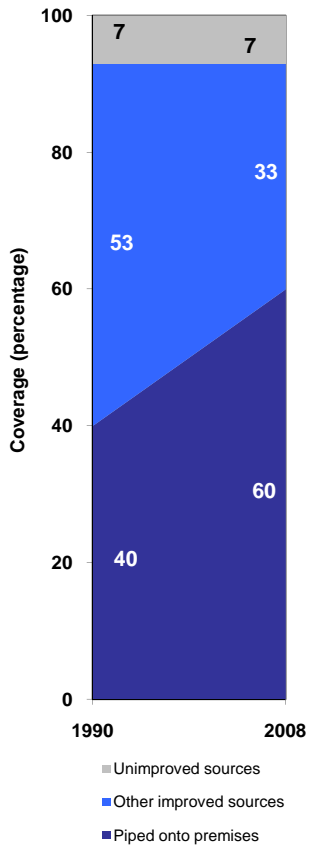
Philippines	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	40	60	8	25	24	48
Other improved source	53	33	68	62	60	43
Unimproved source	7	7	24	13	16	9

Source: WHO/UNICEF JMP, 2010

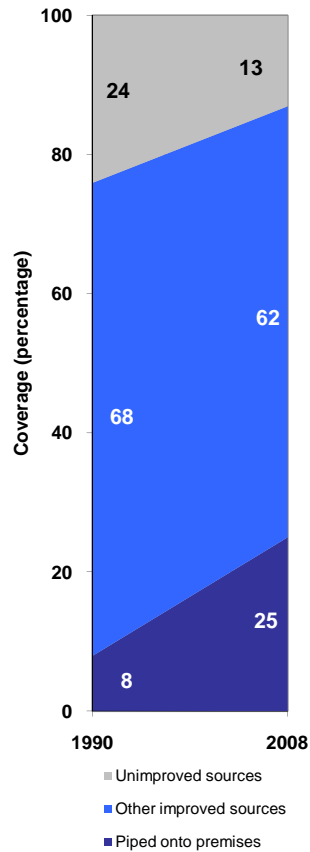
Philippines	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	30450	58699	31978	31649	62427	90348

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

