

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		DHS87			Indonesia			Access to drinking water sources		DHS91			Indonesia		
Demographic and Health Survey					1987			Demographic and Health Survey					1991		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Pipe	Tap water	33.5	2.6	11.8		Tap water	38.9	4.5	14.6						
	House connections					House connections	24.6	2.1	8.7						
	Piped water into dwelling					Piped water into dwelling	21.0	1.4	7.1						
	Piped water to yard/plot					Piped water to yard/plot	3.6	0.7	1.6						
	Public tap, standpipe					Public tap, standpipe	14.3	2.4	5.9						
	Other					Other									
	Ground water	64.4	87.5	80.6		Ground water	58.2	83.1	75.6						
	Protected ground water	19.0	7.0	10.6		Protected ground water	16.8	8.5	10.9						
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	19.0	7.0	10.6		Protected wells or springs	16.8	8.5	10.9						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	60.5	68.9	66.4		All wells	55.4	62.9	60.7						
	Private					Private									
	Public					Public									
	Other					Other									
Pump	Tubewell, borehole	19.0	7.0	10.6	Pump	Tubewell, borehole	16.8	8.5	10.9						
	Private					Private									
	Public					Public									
	Other					Other									
Well	Traditional wells	41.5	62.0	55.9	Well	Traditional wells	38.6	54.4	49.8						
	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									
Spring	All springs	3.9	18.6	14.2	Spring	All springs	2.8	20.2	15.1						
	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	0.8	2.1	1.7		Rainwater	1.2	2.6	2.2						
Rainwater	Covered cistern/tank	0.8	2.1	1.7	Rainwater	Covered cistern/tank	1.2	2.6	2.2						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
	Surface water	1.2	7.5	5.6		Surface water	1.1	8.3	6.2						
River	River	1.2	7.5	5.6	River	River	1.1	8.3	6.2						
	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	0.0	0.4	0.3		Other non-improved	0.5	1.4	1.1						
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Other	Other	0.0	0.4	0.3	Other	Other	0.5	1.4	1.1						
	Other					Other									
	DK/missing				Missing	DK/missing	0.2	0.1	0.2						
	Total	100.0	100.0	100.0	Total	Total	100.1	100.0	100.1						
Calculations					Calculations										
Estimations	Protected well, assuming same proportion as in DHS 94	35.3	40.2		Estimations	Protected well, assuming same proportion as in DHS 94	32.8	35.3							
	Protected spring, assuming same proportion as in DHS 94	2.6	9.8			Protected spring, assuming same proportion as in DHS 94	1.9	10.7							
	HC, based on DHS91	21.2	1.2												
Access to improved drinking water sources :		91%	62%		Access to improved drinking water sources :		92%	62%							
Access to house connections :		21%	1%		Access to house connections :		25%	2%							
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				Ratios	HC / Tap water	63%	47%							
	Public tap / Tap water					Public tap / Tap water	37%	53%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	31%	10%			Tubewell / All wells	30%	14%							
	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		DHS97			Indonesia			Access to drinking water sources		CEN98			Indonesia		
Demographic and Health Survey					1997			National Census					1998		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
	Tap water	41.8	8.4	18.0	Pipe	Tap water	35.1	6.8							
	House connections	33.5	5.2	13.3		House connections									
Piped into residence	Piped water into dwelling	28.9	4.0	11.1		Piped water into dwelling									
Piped into yard/plot	Piped water to yard/plot	4.6	1.2	2.2		Piped water to yard/plot									
Public tap	Public tap, standpipe	8.3	3.2	4.7		Public tap, standpipe									
	Other					Other									
	Ground water	56.8	82.5	75.3		Ground water	56.6	80.5							
	Protected ground water	49.4	56.6	54.5		Protected ground water	21.4	9.0							
	Unprotected ground water	7.4	25.9	20.8		Unprotected ground water									
	Protected wells or springs	49.4	56.6	54.5		Protected wells or springs	21.4	9.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	7.4	25.9	20.8		Unprotected wells or springs	0.0	0.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	55.5	62.0	60.2		All wells	52.9	61.5							
	Private					Private									
	Public					Public									
	Other					Other									
pump	Tubewell, borehole	23.1	8.7	12.8	Pump (deep-well)	Tubewell, borehole	21.4	9.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	32.4	53.3	47.4	Pump (shallow-well)	Traditional wells	31.5	52.4							
	Private					Private									
	Public					Public									
	Other					Other									
protected well	Protected well	25.7	36.5	33.4		Protected well									
	Private					Private									
	Public					Public									
	Other					Other									
unprotected well	Unprotected well	6.7	16.8	14.0		Unprotected well									
	Private					Private									
	Public					Public									
	Other					Other									
	All springs	1.3	20.5	15.1	Spring	All springs	3.7	19.1							
	Private					Private									
	Public					Public									
	Other					Other									
protected spring	Protected spring	0.6	11.4	8.3		Protected spring									
	Private					Private									
	Public					Public									
	Other					Other									
unprotected spring	Unprotected spring	0.7	9.1	6.8		Unprotected spring									
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater	0.9	2.3	1.9		Rainwater	3.7	3.7							
rainwater	Covered cistern/tank	0.9	2.3	1.9	Rain collector	Covered cistern/tank	3.1	3.7							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
	Surface water	0.4	6.6	4.9		Surface water	2.5	7.2							
river/stream	River	0.4	6.6	4.9	River	River	2.5	7.2							
	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	0.0	0.1	0.1		Other non-improved	2.6	1.7							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
other	Other	0.0	0.1	0.1	Others	Other	2.6	1.7							
	Other					Other									
	DK/missing					DK/missing									
	Total	99.9	99.9	100.2		Total	100.0	100.0							
Calculations					Calculations										
Estimations					Estimations	protected shallow well based on NSES98	25.5	34.6							
						protected spring based on NSES98	3.0	11.0							
						House connections based on DHS97	28.1	4.2							
Access to improved drinking water sources :		92%	67%		Access to improved drinking water sources :		88%	65%							
Access to house connections :		34%	5%		Access to house connections :		28%	4%							
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	80%	62%		Ratios	HC / Tap water									
	Public tap / Tap water	20%	38%			Public tap / Tap water									
	Tubewell + protected well / All wells	88%	73%			Tubewell + protected well / All wells									
	Protected wells / Traditional wells	79%	68%			Protected wells / Traditional wells									
	Tubewell / All wells	42%	14%			Tubewell / All wells									
	Protected springs / All springs	46%	56%			Protected springs / All springs									
	Protect. well & spring / well & spring	87%	69%			Protect. well & spring / well & spring	100%	100%							
Number of people covered by the survey:					Number of people covered by the census:		74700	126657							
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		NSES98			Indonesia			Access to drinking water sources		NSES99			Indonesia		
National Socio-Economic Survey					1998			National Socio-Economic Survey					1999		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Pipe	Tap water	37.9	8.0	19.1	Pipe	Tap water	36.4	7.0	18.6						
	House connections					House connections									
	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	58.3	82.1	73.3		Ground water	59.3	83.2	73.8						
	Protected ground water	51.1	55.7	54.0		Protected ground water	52.0	56.7	54.8						
	Unprotected ground water	7.2	26.4	19.3		Unprotected ground water	7.4	26.5	19.0						
	Protected wells or springs	51.1	55.7	54.0		Protected wells or springs	52.0	56.7	54.8						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	7.2	26.4	19.3		Unprotected wells or springs	7.4	26.5	19.0						
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	56.2	64.0	61.2		All wells	56.9	64.8	61.7						
	Private					Private									
	Public					Public									
	Other					Other									
Pump	Tubewell, borehole	20.6	8.9	13.3	Pump	Tubewell, borehole	21.1	8.4	13.4						
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	35.6	55.1	47.9		Traditional wells	35.8	56.4	48.3						
	Private					Private									
	Public					Public									
	Other					Other									
Protected Well	Protected well	28.8	36.3	33.5	Protected Well	Protected well	28.9	37.4	34.0						
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected Well	Unprotected well	6.8	18.8	14.4	Unprotected Well	Unprotected well	7.0	19.0	14.3						
	Private					Private									
	Public					Public									
	Other					Other									
	All springs	2.1	18.1	12.1		All springs	2.4	18.4	12.1						
	Private					Private									
	Public					Public									
	Other					Other									
Protected Spring	Protected spring	1.7	10.4	7.2	Protected Spring	Protected spring	2.0	11.0	7.4						
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected Spring	Unprotected spring	0.4	7.6	4.9	Unprotected Spring	Unprotected spring	0.4	7.5	4.7						
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater	1.3	3.3	2.6		Rainwater	1.4	3.7	2.8						
Rainwater	Covered cistern/tank	1.3	3.3	2.6	Rainwater	Covered cistern/tank	1.4	3.7	2.8						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water	1.6	0.3	0.8		Bottled water	1.8	0.3	0.9						
Mineral water/Bottled water	with other improved	1.6	0.3	0.8	Bottled water	with other improved	1.8	0.3	0.9						
	without other improved					without other improved									
	Surface water	0.5	5.7	3.8		Surface water	0.6	5.4	3.5						
Rivers	River	0.5	5.7	3.8	Rivers	River	0.6	5.4	3.5						
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other non-improved	0.5	0.6	0.5		Other non-improved	0.4	0.5	0.5						
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Other	Other	0.5	0.6	0.5	Other	Other	0.4	0.5	0.5						
	Other					Other									
	DK/missing					DK/missing									
	Total	100.0	99.9	100.0		Total	100.0	100.0	100.0						
Calculations					Calculations										
Estimations					Estimations										
	House connections based on DHS97	31.9	5.2			House connections based on DHS97	31.0	4.6							
Access to improved drinking water sources : 92% 67%					Access to improved drinking water sources : 92% 68%										
Access to house connections : 32% 5%					Access to house connections : 31% 5%										
	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				Ratios	HC / Tap water									
	Public tap / Tap water					Public tap / Tap water									
	Tubewell + protected well / All wells	88%	71%			Tubewell + protected well / All wells	88%	71%							
	Protected wells / Traditional wells	81%	66%			Protected wells / Traditional wells	81%	66%							
	Tubewell / All wells	37%	14%			Tubewell / All wells	37%	13%							
	Protected springs / All springs	82%	58%			Protected springs / All springs	84%	59%							
	Protect. well & spring / well & spring	88%	68%			Protect. well & spring / well & spring	88%	68%							
	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										

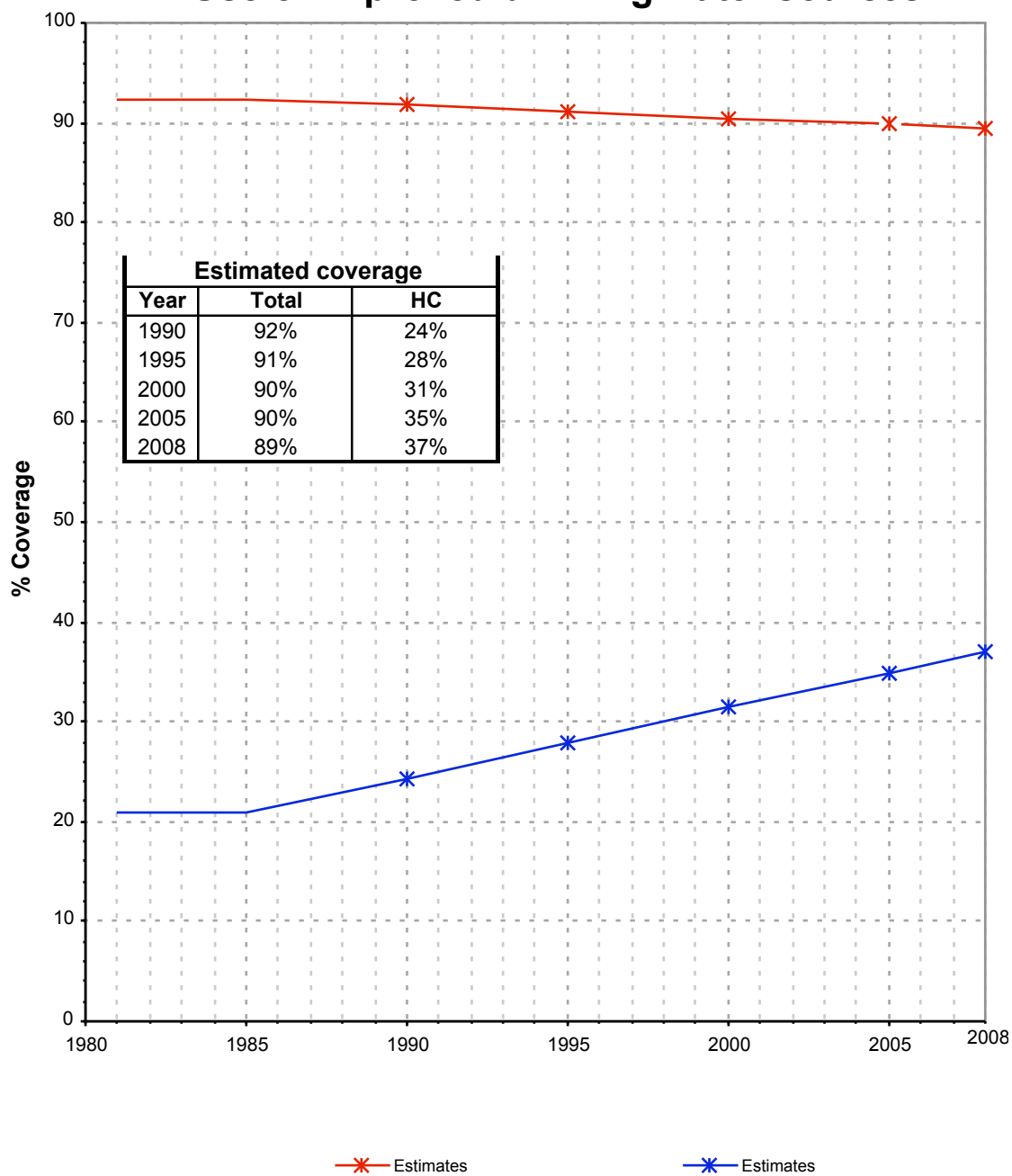
Access to drinking water sources		SUS02			Indonesia			Access to drinking water sources		DHS03			Indonesia		
SUSENAS					2002			Demographic and Health Survey					2003		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Pipe	Tap water	33.3	6.2			Tap water	28.9	7.1							
	House connections					House connections	25.0	5.6							
	Piped water into dwelling					Piped water into dwelling	22.1	4.2							
	Piped water to yard/plot					Piped into yard/plot	2.9	1.4							
	Public tap, standpipe					Public tap, standpipe	3.9	1.5							
	Other					Other									
	Ground water	61.3	83.8			Ground water	59.3	80.7							
	Protected ground water	53.8	58.1			Protected ground water	42.8	40.7							
	Unprotected ground water	7.5	25.7			Unprotected ground water	13.3	20.9							
	Protected wells or springs	63.8	58.1	0.0		Protected wells or springs	42.8	40.7							
	Private					Private	36.8	30.9							
	Public					Public	6.0	9.8							
	Other					Other									
	Unprotected wells or springs	7.5	25.7	0.0		Unprotected wells or springs	13.3	20.9							
	Private					Private	11.6	16.0							
	Public					Public	1.7	4.9							
	Other					Other									
	All wells	58.3	63.8			All wells	56.1	61.6	0.0						
	Private					Private	48.4	46.9							
	Public					Public	7.7	14.7							
	Other					Other									
Pump	Tubewell, borehole	21.1	9.1			Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	37.2	54.7			Traditional wells	56.1	61.6	0.0						
	Private					Private	48.4	46.9							
	Public					Public	7.7	14.7							
	Other					Other									
Protected well	Protected well	30.4	36.9			Protected well	42.8	40.7	0.0						
	Private					Private	36.8	30.9							
	Public					Public	6.0	9.8							
	Other					Other									
Unprotected well	Unprotected well	6.8	17.8			Unprotected well	13.3	20.9	0.0						
	Private					Private	11.6	16.0							
	Public					Public	1.7	4.9							
	Other					Other									
	All springs	3.1	20.0			All springs	3.2	19.1							
	Private					Private									
	Public					Public									
	Other					Other									
Protected spring	Protected spring	2.4	12.1			Protected spring									
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected spring	Unprotected spring	0.7	7.9			Unprotected spring									
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater	1.4	4.0			Rainwater	1.2	3.2							
Rain water	Covered cistern/tank	1.4	4.0		Rainwater	Covered cistern/tank	1.2	3.2							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water	2.9	0.3			Bottled water	6.2	0.8							
Packaging water	with other improved	2.9	0.3		Bottled water	with other improved	6.2	0.8							
	without other improved					without other improved									
	Surface water	0.7	5.5		River, stream, pond	Surface water	0.3	6.0							
Rivers	River	0.7	5.5			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	0.4			Other non-improved	4.0	2.0							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Tanker truck	Tanker truck provided	3.2	1.6							
	Other	0.4	0.4		Other	Other	0.8	0.4							
Others	Other					Other									
	DK/missing					DK/missing									
	Total	100.0	100.0			Total	99.9	99.8							
Calculations					Calculations										
Estimations					Estimations										
	HHC based on ration HHC/all piped of DHS03	31.7	5.1			Protected springs based on ratio from SUS02 and SUS04	2.3	12.1							
						Bottled water with other improved	6.2	0.8							
Access to improved drinking water sources :		91%	68%		Access to improved drinking water sources :		81%	64%							
Access to house connections :		32%	5%		Access to house connections :		31%	6%							
	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				Ratios	HC / Tap water	87%	79%							
	Public tap / Tap water					Public tap / Tap water	13%	21%							
	Tubewell + protected well / All wells	88%	72%			Tubewell + protected well / All wells									
	Protected wells / Traditional wells	82%	67%			Protected wells / Traditional wells	76%	66%							
	Tubewell / All wells	36%	14%			Tubewell / All wells									
	Protected springs / All springs	78%	61%			Protected springs / All springs									
	Protect. well & spring / well & spring	88%	69%			Protect. well & spring / well & spring	76%	66%							
	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		SUS04			Indonesia			Access to drinking water sources		SUS03			Indonesia						
SUSENAS					2004					SOCIO-ECONOMIC SURVEY (SUSENAS)					2003				
National Institute of Statistics										National Institute of Statistics									
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total
Pipe	Tap water	32.8	7.0		Tap water	Tap water	32.0	6.4		Tap water	Tap water	32.0	6.4		Tap water	Tap water	32.0	6.4	
	House connections					House connections					House connections					House connections			
	Piped water into dwelling					Piped water into dwelling					Piped water into dwelling					Piped water into dwelling			
	Piped water to yard/plot					Piped water to yard/plot					Piped water to yard/plot					Piped water to yard/plot			
	Public tap, standpipe					Public tap, standpipe					Public tap, standpipe					Public tap, standpipe			
	Other					Other					Other					Other			
	Ground water	59.8	84.0			Ground water	61.5	84.5			Ground water	61.5	84.5			Ground water	61.5	84.5	
	Protected ground water	53.8	61.8			Protected ground water	54.8	60.2			Protected ground water	54.8	60.2			Protected ground water	54.8	60.2	
	Unprotected ground water	6.0	22.3			Unprotected ground water	6.7	24.3			Unprotected ground water	6.7	24.3			Unprotected ground water	6.7	24.3	
	Protected wells or springs	63.8	61.8	0.0		Protected wells or springs	64.8	60.2	0.0		Protected wells or springs	64.8	60.2	0.0		Protected wells or springs	64.8	60.2	0.0
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
	Unprotected wells or springs	6.0	22.3	0.0		Unprotected wells or springs	6.7	24.3	0.0		Unprotected wells or springs	6.7	24.3	0.0		Unprotected wells or springs	6.7	24.3	0.0
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
	All wells	56.7	65.1			All wells	58.5	64.8			All wells	58.5	64.8			All wells	58.5	64.8	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
Pump	Tubewell, borehole	20.8	9.7		Pump	Tubewell, borehole	21.9	9.3		Pump	Tubewell, borehole	21.9	9.3		Pump	Tubewell, borehole	21.9	9.3	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
	Traditional wells	35.9	55.5			Traditional wells	36.6	55.5			Traditional wells	36.6	55.5			Traditional wells	36.6	55.5	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
Protected well	Protected well	30.9	39.7		Protected well	Protected well	30.7	39.0		Protected well	Protected well	30.7	39.0		Protected well	Protected well	30.7	39.0	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
Unprotected well	Unprotected well	5.0	15.8		Unprotected well	Unprotected well	6.0	16.4		Unprotected well	Unprotected well	6.0	16.4		Unprotected well	Unprotected well	6.0	16.4	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
	All springs	3.1	18.9			All springs	3.0	19.8			All springs	3.0	19.8			All springs	3.0	19.8	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
Protected spring	Protected spring	2.2	12.5		Protected spring	Protected spring	2.3	11.9		Protected spring	Protected spring	2.3	11.9		Protected spring	Protected spring	2.3	11.9	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
Unprotected spring	Unprotected spring	1.0	6.4		Unprotected spring	Unprotected spring	0.7	7.9		Unprotected spring	Unprotected spring	0.7	7.9		Unprotected spring	Unprotected spring	0.7	7.9	
	Private					Private					Private					Private			
	Public					Public					Public					Public			
	Other					Other					Other					Other			
	Rainwater	1.4	3.4			Rainwater	1.5	3.5			Rainwater	1.5	3.5			Rainwater	1.5	3.5	
Rain water	Covered cistern/tank	1.4	3.4		Precipitation	Covered cistern/tank	1.5	3.5		Precipitation	Covered cistern/tank	1.5	3.5		Precipitation	Covered cistern/tank	1.5	3.5	
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank			
	Bottled water	4.9	0.6			Bottled water	4.0	0.3			Bottled water	4.0	0.3			Bottled water	4.0	0.3	
Packaging water	with other improved	4.9	0.6		Bottled water	with other improved	4.0	0.3		Bottled water	with other improved	4.0	0.3		Bottled water	with other improved	4.0	0.3	
	without other improved					without other improved					without other improved					without other improved			
	Surface water	0.6	4.6			Surface water	0.6	4.9			Surface water	0.6	4.9			Surface water	0.6	4.9	
Rivers	River	0.6	4.6		River water	River	0.6	4.9		River water	River	0.6	4.9		River water	River	0.6	4.9	
	Lake					Lake					Lake					Lake			
	Dam					Dam					Dam					Dam			
	Pond					Pond					Pond					Pond			
	Stream					Stream					Stream					Stream			
	Irrigation channel					Irrigation channel					Irrigation channel					Irrigation channel			
	Other					Other					Other					Other			
	Other improved sources					Other improved sources					Other improved sources					Other improved sources			
	Other					Other					Other					Other			
	Other non-improved	0.5	0.4			Other non-improved	0.4	0.4			Other non-improved	0.4	0.4			Other non-improved	0.4	0.4	
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum			
	Tanker truck provided					Tanker truck provided					Tanker truck provided					Tanker truck provided			
Others	Other	0.5	0.4		other	Other	0.4	0.4		other	Other	0.4	0.4		other	Other	0.4	0.4	
	Other					Other					Other					Other			
	DK/missing					DK/missing					DK/missing					DK/missing			
	Total	100.1	100.0			Total	100.0	100.0			Total	100.0	100.0			Total	100.0	100.0	
Calculations					Calculations					Calculations					Calculations				
Estimations					Estimations					Estimations					Estimations				
	HHC based on ration HHC/all piped of DHS03	33.3	6.1			HHC based on ration HHC/all piped of DHS03	31.7	5.3			HHC based on ration HHC/all piped of DHS03	31.7	5.3			HHC based on ration HHC/all piped of DHS03	31.7	5.3	
	Access to improved drinking water sources :	93%	73%			Access to improved drinking water sources :	92%	70%			Access to improved drinking water sources :	92%	70%			Access to improved drinking water sources :	92%	70%	
	Access to house connections :	33%	6%			Access to house connections :	32%	5%			Access to house connections :	32%	5%			Access to house connections :	32%	5%	
	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			Used for the estimates	Yes	Yes			Used for the estimates	Yes	Yes	
Ratios	HC / Tap water					HC / Tap water					HC / Tap water					HC / Tap water			
	Public tap / Tap water					Public tap / Tap water					Public tap / Tap water					Public tap / Tap water			
	Tubewell + protected well / All wells	91%	76%			Tubewell + protected well / All wells	90%	75%			Tubewell + protected well / All wells	90%	75%			Tubewell + protected well / All wells	90%	75%	
	Protected wells / Traditional wells	86%	71%			Protected wells / Traditional wells	84%	70%			Protected wells / Traditional wells	84%	70%			Protected wells / Traditional wells	84%	70%	
	Tubewell / All wells	37%	15%			Tubewell / All wells	37%	14%			Tubewell / All wells	37%	14%			Tubewell / All wells	37%	14%	
	Protected springs / All springs	68%	66%			Protected springs / All springs	75%	60%			Protected springs / All springs	75%	60%			Protected springs / All springs	75%	60%	
	Protect. well & spring / well & spring	90%	74%			Protect. well & spring / well & spring	89%	71%			Protect. well & spring / well & spring	89%	71%			Protect. well & spring / well & spring	89%	71%	
	Number of people covered by the survey:					Number of people covered by the survey:					Number of people covered by the survey:								

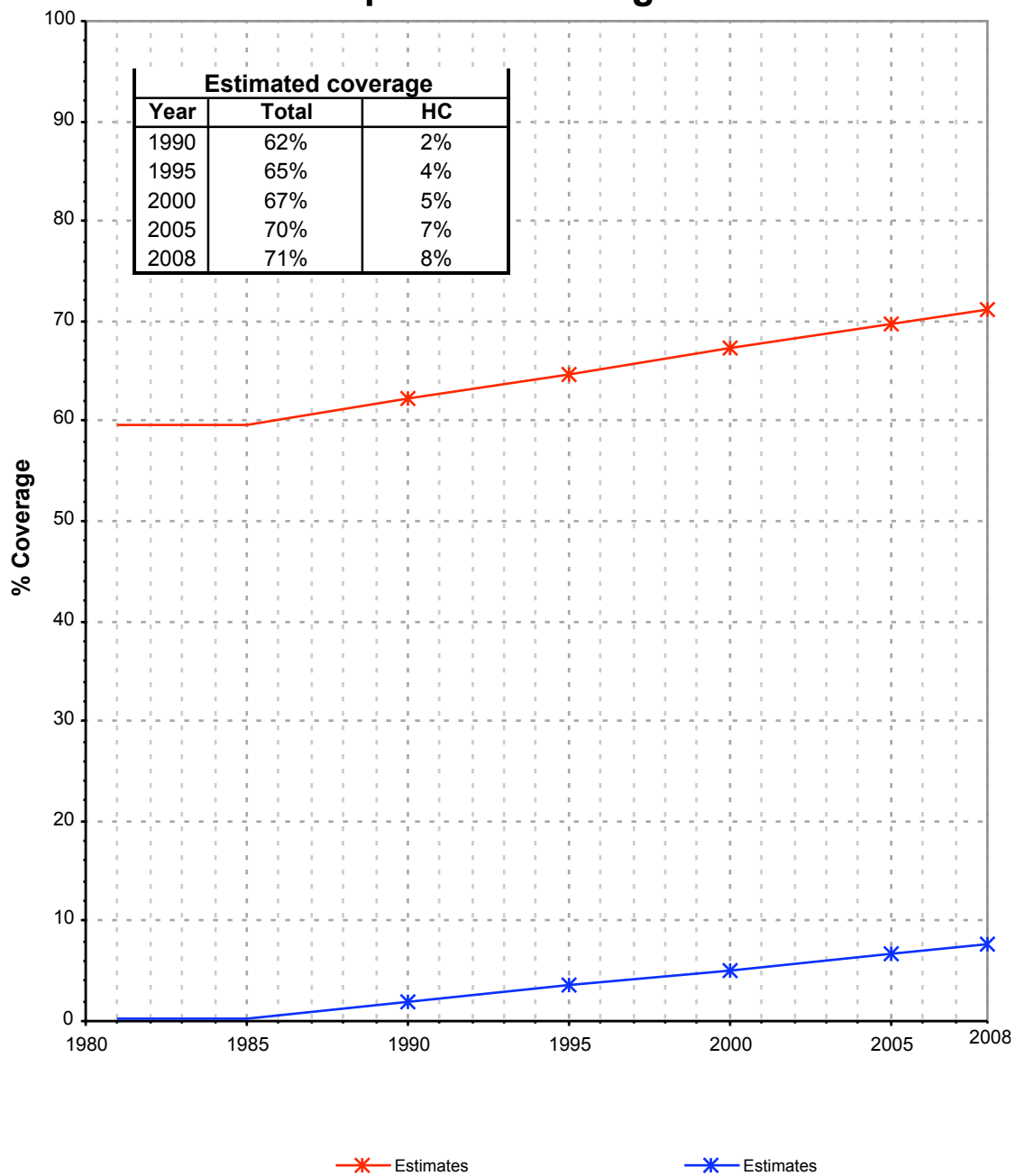
Access to drinking water sources		SUS07			Indonesia			Access to drinking water sources		DHS07			Indonesia		
SUSENAS					2007			Demographic and Health Survey					2007		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
Pipe	Tap water	27.9	7.3			Tap water	28.4	9.0	17.3		Tap water	28.4	9.0	17.3	
Pipe	House connections	21.8	5.2			House connections	24.6	6.7	14.4		House connections	24.6	6.7	14.4	
	Piped water into dwelling				Piped into dwelling	Piped water into dwelling	22.0	5.1	12.3		Piped water into dwelling	22.0	5.1	12.3	
	Piped water to yard/plot				Piped into yard/plot	Piped water to yard/plot	2.6	1.6	2.1		Piped water to yard/plot	2.6	1.6	2.1	
	Public tap, standpipe				Public tap	Public tap, standpipe	3.8	2.3	2.9		Public tap, standpipe	3.8	2.3	2.9	
Pipe retail	Other	6.1	2.1			Other					Other				
	Ground water	55.4	82.2			Ground water	49.6	79.4	86.6		Ground water	49.6	79.4	86.6	
	Protected ground water	50.2	59.6			Protected ground water	37.8	41.3	39.8		Protected ground water	37.8	41.3	39.8	
	Unprotected ground water	5.2	22.6			Unprotected ground water	8.4	15.6	12.5		Unprotected ground water	8.4	15.6	12.5	
	Protected wells or springs	50.2	59.6	0.0		Protected wells or springs	37.8	41.3	39.8		Protected wells or springs	37.8	41.3	39.8	
	Private					Private	32.8	30.9	31.7		Private	32.8	30.9	31.7	
	Public					Public	5.0	10.4	8.1		Public	5.0	10.4	8.1	
	Other					Other					Other				
	Unprotected wells or springs	5.2	22.6	0.0		Unprotected wells or springs	8.4	15.6	12.5		Unprotected wells or springs	8.4	15.6	12.5	
	Private					Private	7.2	11.6	9.7		Private	7.2	11.6	9.7	
	Public					Public	1.2	4.0	2.8		Public	1.2	4.0	2.8	
	Other					Other					Other				
	All wells	52.1	62.5			All wells	46.2	56.9	52.3		All wells	46.2	56.9	52.3	
	Private					Private	40.0	42.5	41.4		Private	40.0	42.5	41.4	
	Public					Public	6.2	14.4	10.9		Public	6.2	14.4	10.9	
	Other					Other					Other				
Pump	Tubewell, borehole	23.4	13.2			Tubewell, borehole					Tubewell, borehole				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Traditional wells	28.7	49.3			Traditional wells	46.2	66.9	52.3		Traditional wells	46.2	66.9	52.3	
	Private					Private	40.0	42.5	41.4		Private	40.0	42.5	41.4	
	Public					Public	6.2	14.4	10.9		Public	6.2	14.4	10.9	
	Other					Other					Other				
Protected well	Protected well	24.3	34.5			Protected well	37.8	41.3	39.8		Protected well	37.8	41.3	39.8	
	Private				Protected well in dwelling/yard	Private	32.8	30.9	31.7		Private	32.8	30.9	31.7	
	Public				Protected public well	Public	5.0	10.4	8.1		Public	5.0	10.4	8.1	
	Other					Other					Other				
Unprotected well	Unprotected well	4.4	14.8			Unprotected well	8.4	15.6	12.5		Unprotected well	8.4	15.6	12.5	
	Private				Open well in dwelling/yard	Private	7.2	11.6	9.7		Private	7.2	11.6	9.7	
	Public				Open public well	Public	1.2	4.0	2.8		Public	1.2	4.0	2.8	
	Other					Other					Other				
	All springs	3.3	19.7		Spring	All springs	3.4	22.5	14.3		All springs	3.4	22.5	14.3	
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Protected spring	Protected spring	2.5	11.9			Protected spring					Protected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Unprotected spring	Unprotected spring	0.8	7.8			Unprotected spring					Unprotected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Rainwater	1.3	3.5			Rainwater	1.9	2.5	2.2		Rainwater	1.9	2.5	2.2	
Precipitation	Covered cistern/tank	1.3	3.5		Rainwater	Covered cistern/tank	1.9	2.5	2.2		Covered cistern/tank	1.9	2.5	2.2	
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank				
	Bottled water	14.5	1.7			Bottled water	14.9	2.3	7.7		Bottled water	14.9	2.3	7.7	
Packaged water	with other improved	14.5	1.7		Bottled water	with other improved	14.9	2.3	7.7		with other improved	14.9	2.3	7.7	
	without other improved					without other improved					without other improved				
	Surface water	0.5	5.0			Surface water	1.0	5.5	3.6		Surface water	1.0	5.5	3.6	
River water	River	0.5	5.0		River/stream	River	0.9	5.2	3.3		River	0.9	5.2	3.3	
	Lake				Pond/lake	Lake	0.1	0.2	0.2		Lake	0.1	0.2	0.2	
	Dam				Dam	Dam	0.0	0.1	0.1		Dam	0.0	0.1	0.1	
	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	0.4	0.4			Other non-improved	4.2	1.2	2.5		Other non-improved	4.2	1.2	2.5	
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
	Tanker truck provided				Tanker truck	Tanker truck provided	4.1	1.0	2.3		Tanker truck provided	4.1	1.0	2.3	
other	Other	0.4	0.4		Other	Other	0.1	0.2	0.2		Other	0.1	0.2	0.2	
	Other					Other					Other				
	DK/missing					DK/missing					DK/missing				
	Total	100.0	100.1			Total	100.0	99.9	99.9		Total	100.0	99.9	99.9	
Calculations					Calculations					Calculations					
Estimations					Estimations					Estimations	Springs considered improved based on SUS07	2.6	13.6		
	HHC including packaged water	36.3	6.9			HCC including bottled water	39.5	9.0			HCC including bottled water	39.5	9.0		
Access to improved drinking water sources :		94%	72%		Access to improved drinking water sources :		86%	69%		Access to improved drinking water sources :		86%	69%		
Access to house connections :		36%	7%		Access to house connections :		40%	9%		Access to house connections :		40%	9%		
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	78%	71%		Ratios	HC / Tap water	87%	74%		Ratios	HC / Tap water	87%	74%		
	Public tap / Tap water					Public tap / Tap water	13%	26%			Public tap / Tap water	13%	26%		
	Tubewell + protected well / All wells	92%	76%			Tubewell + protected well / All wells					Tubewell + protected well / All wells				
	Protected wells / Traditional wells	85%	70%			Protected wells / Traditional wells	82%	73%			Protected wells / Traditional wells	82%	73%		
	Tubewell / All wells	45%	21%			Tubewell / All wells					Tubewell / All wells				
	Protected springs / All springs	76%	60%			Protected springs / All springs					Protected springs / All springs				
Protect. well & spring / well & spring	91%	73%		Protect. well & spring / well & spring	82%	73%		Protect. well & spring / well & spring	82%	73%					
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					

Indonesia			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	DHS87	1987	21.2		91.2		1.2		61.6	
Demographic and Health Survey	DHS91	1991	24.6		91.6		2.1		61.5	
Demographic and Health Survey	DHS94	1994	26.9		92.6		2.8		62.8	
SUSENAS	SUS97	1997	32.0		90.9		4.3		65.8	
Demographic and Health Survey	DHS97	1997	33.5		92.1		5.2		67.3	
National Census	CEN98	1998	28.1		88.2		4.2		65.1	
National Socio-Economic Survey	NSES98	1998	31.9		91.8		5.2		67.2	
National Socio-Economic Survey	NSES99	1999	31.0		91.7		4.6		67.7	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		35.1		107.6		6.8		90.9
National Socio-Economic Survey	NSES01	2001	29.9		90.5		4.3		67.0	
SUSENAS	SUS02	2002	31.7		91.4		5.1		68.5	
Demographic and Health Survey	DHS03	2003	31.2		81.4		6.4		63.9	
SUSENAS	SUS04	2004	33.3		93.0		6.1		72.7	
SOCIO-ECONOMIC SURVEY (SUSENAS)	SUS03	2003	31.7		92.3		5.3		70.4	
SUSENAS	SUS07	2007	36.3		93.9		6.9		72.1	
Demographic and Health Survey	DHS07	2007	39.5		85.6		9.0		68.7	

Indonesia - urban - Use of improved drinking water sources



Indonesia - rural - Use of improved drinking water sources



Drinking Water

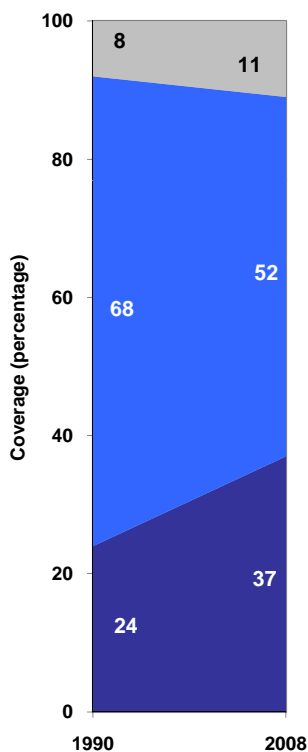
Indonesia	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	24	37	2	8	9	23
Other improved source	68	52	60	63	62	57
Unimproved source	8	11	38	29	29	20

Source: WHO/UNICEF JMP, 2010

Indonesia	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	54251	117196	123134	110149	177385	227345

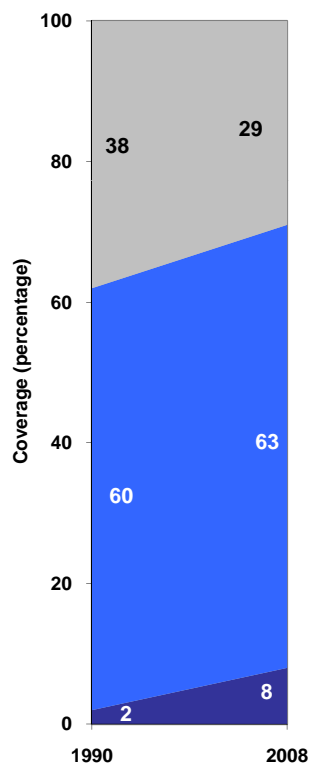
Source: UN / Population Division, 2008

Urban drinking water trends



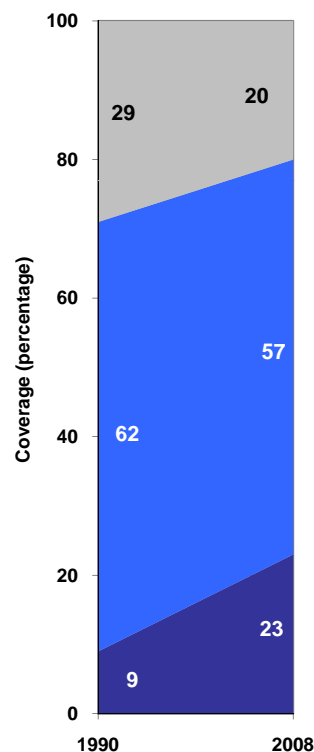
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises