

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

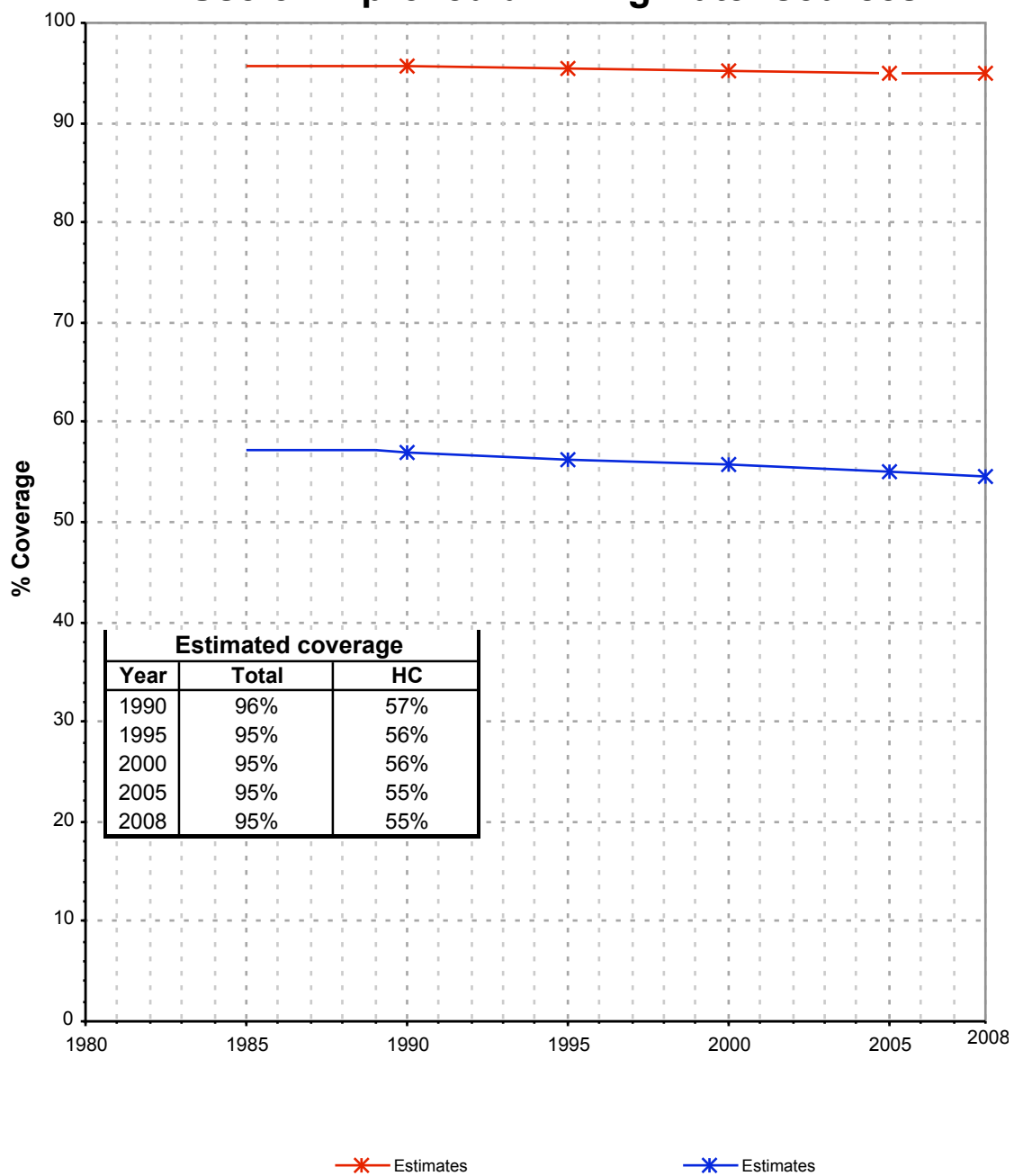
childinfo.org

Access to drinking water sources		PIHS97			Pakistan			Access to drinking water sources		CEN98			Pakistan		
Integrated Household Survey					1997			Census					1998		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Tap in house	Tap water	60.0	11.0	27.0	Pipe	Tap water	65.0	17.3							
	House connections	56.0	9.0	24.0		House connections									
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
Tap outside house	Public tap, standpipe	4.0	2.0	3.0		Public tap, standpipe									
	Other					Other									
	Ground water	37.0	74.0	63.0		Ground water	31.4	68.8							
	Protected ground water	29.0	62.0	52.0		Protected ground water	27.0	56.4							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	29.0	62.0	52.0		Protected wells or springs	27.0	56.4							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	37.0	74.0	63.0		All wells	31.4	68.8							
	Private					Private									
	Public					Public									
	Other					Other									
Hand pump/Motor Pump	Tubewell, borehole	29.0	62.0	52.0	Hand Pump	Tubewell, borehole	27.0	56.4							
	Private					Private									
	Public					Public									
	Other					Other									
Dug well	Traditional wells	8.0	12.0	11.0	Well	Traditional wells	4.5	12.5							
	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					Rainwater									
	Covered cistern/tank					Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
	Surface water	0.0	13.0	9.0		Surface water									
River/Canal/Stream	River	0.0	13.0	9.0		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	2.0	2.0	2.0		Other non-improved	3.5	13.9							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Other	Other	2.0	2.0	2.0	Other	Other	3.5	13.9							
	Other					Other									
	DK/missing					DK/missing									
	Total	99.0	100.0	101.0		Total	100.0	100.0							
Calculations					Calculations										
Estimations	protected dug wells using ratio PNN502	4.0	6.9		Estimations	protected dug wells using ratio PNN502	2.2	7.1							
						HC, based on PIHS97 and PIHS99	59.9	13.5							
Access to improved drinking water sources :		93%	80%		Access to improved drinking water sources :		94%	81%							
Access to house connections :		56%	9%		Access to house connections :		60%	14%							
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	93%	82%		Ratios	HC / Tap water									
	Public tap / Tap water	7%	18%			Public tap / Tap water									
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	78%	84%			Tubewell / All wells	86%	82%							
	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										

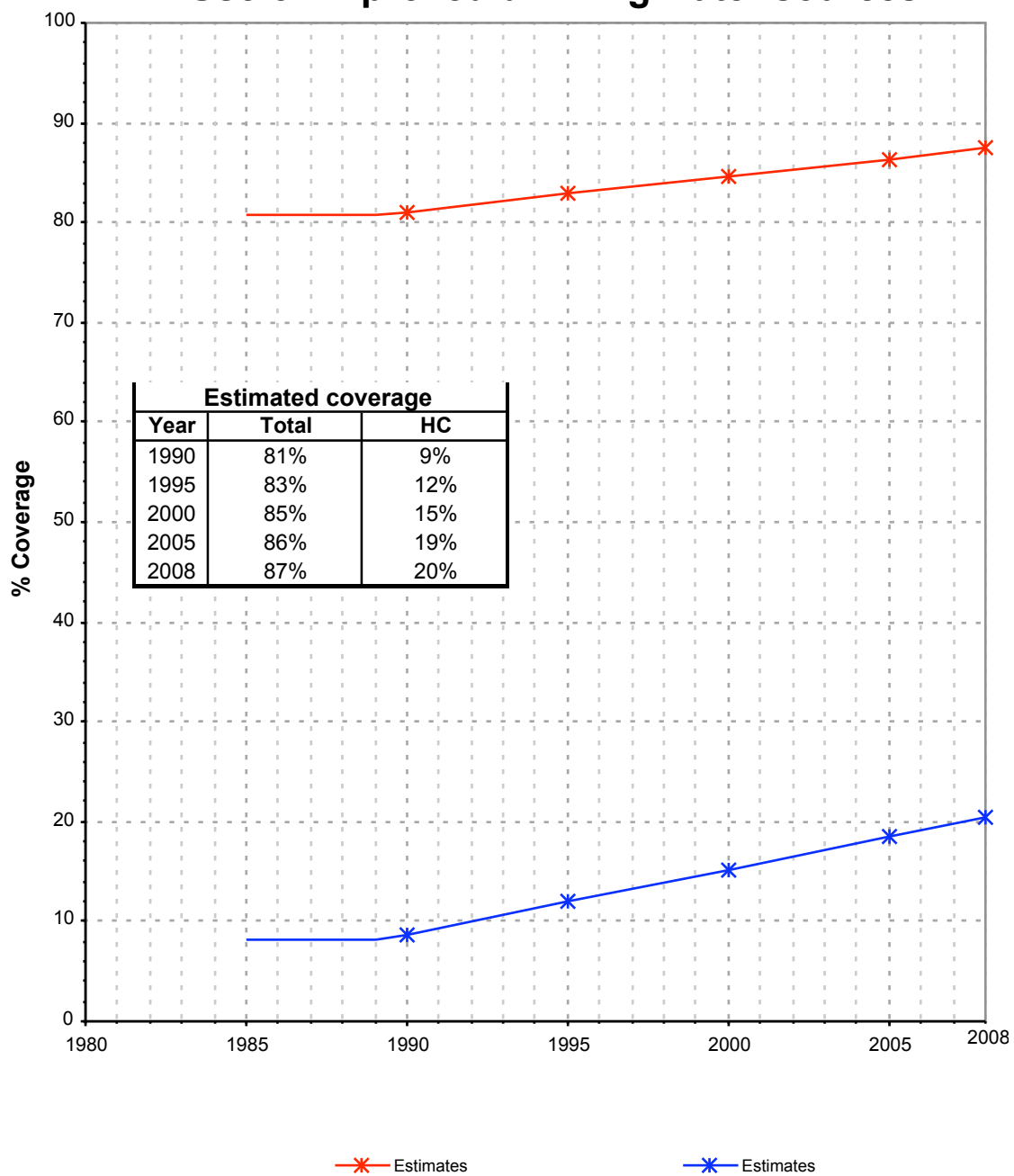
Access to drinking water sources		SLSMS05			Pakistan			Access to drinking water sources		CWIQ05			Pakistan					
Social & Living Standards Measurement Survey					Federal Bureau of Statistics					Core Welfare Indicators Questionnaire								
					2005								2005					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total				
Tap in house	Tap water	60.0	23.0	39.0	Piped into house/compound	Tap water	63.4	21.0		Piped into house/compound	Tap water	58.8	15.8					
	House connections						House connections						House connections					
	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					
	Public tap, standpipe						Public tap, standpipe	4.6	5.2				Public tap, standpipe					
	Other						Other						Other					
	Ground water	37.0	62.0	51.0		Outdoor tap	Ground water	34.4	66.5			Outdoor tap	Ground water	33.2	61.0			
	Protected ground water	35.0	53.0	45.0				Protected ground water	33.2		61.0				Protected ground water	1.2	5.4	
	Unprotected ground water							Unprotected ground water	1.2		5.4		0.0		Unprotected ground water			
	Protected wells or springs	35.0	53.0	45.0				Protected wells or springs	33.2		61.0		0.0		Protected wells or springs			
Private					Private						Private							
Public					Public						Public							
Other					Other						Other							
Unprotected wells or springs					Unprotected wells or springs		1.2	5.4	0.0		Unprotected wells or springs							
Private					Private						Private							
Public					Public						Public							
Other					Other					Other								
All wells	37.0	62.0	51.0		All wells	34.4	66.5			All wells	34.4	66.5						
Private					Private					Private								
Public					Public					Public								
Other					Other					Other								
Hand pump/Motor Pump	Tubewell, borehole	35.0	53.0	45.0	Motorised or Hand -Pumping	Tubewell, borehole	32.6	59.2		Motorised or Hand -Pumping	Tubewell, borehole							
	Private						Private					Private						
	Public						Public					Public						
	Other						Other					Other						
Dug well	Traditional wells	2.0	9.0	6.0	Protected well	Traditional wells	1.8	7.3		Protected well	Traditional wells							
	Private						Private					Private						
	Public						Public					Public						
	Other						Other					Other						
	Protected well						Protected well	0.6	1.8				Protected well					
	Private						Private						Private					
	Public						Public						Public					
	Other						Other						Other					
	Unprotected well						Unprotected well	1.2	5.4				Unprotected well					
	Private						Private						Private					
Public					Public					Public								
Other					Other					Other								
All springs					All springs					All springs								
Private					Private					Private								
Public					Public					Public								
Other					Other					Other								
Protected spring					Protected spring					Protected spring								
Private					Private					Private								
Public					Public					Public								
Other					Other					Other								
Unprotected spring					Unprotected spring					Unprotected spring								
Private					Private					Private								
Public					Public					Public								
Other					Other					Other								
Rainwater					Rainwater					Rainwater								
Covered cistern/tank					Covered cistern/tank					Covered cistern/tank								
Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank								
Bottled water					Bottled water					Bottled water								
with other improved					with other improved					with other improved								
without other improved					without other improved					without other improved								
Surface water					Surface water	0.2	9.4			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		3.0	16.0	10.0	Other non-improved		2.0	3.2		Other non-improved								
Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum								
Tanker truck provided					Tanker truck provided	1.4	0.6			Tanker truck provided								
Other		3.0	16.0	10.0	Other	0.6	2.6			Other								
Other					Other					Other								
DK/missing					DK/missing					DK/missing								
Total		100.0	101.0	100.0	Total		100.0	100.0		Total		100.0	100.0					
Calculations					Calculations					Calculations								
Estimations	protected dug wells using ratio CWIQ05	0.7	2.3		Estimations					Estimations								
Access to improved drinking water sources :		96%	78%	84%	Access to improved drinking water sources :		97%	82%		Access to improved drinking water sources :		97%	82%					
Access to house connections :		60%	23%	39%	Access to house connections :		59%	16%		Access to house connections :		59%	16%					
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	100%	100%		Ratios	HC / Tap water	93%	75%		Ratios	HC / Tap water	93%	75%					
	Public tap / Tap water						Public tap / Tap water	7%	25%				Public tap / Tap water	7%	25%			
	Tubewell + protected well / All wells						Tubewell + protected well / All wells	97%	92%				Tubewell + protected well / All wells	97%	92%			
	Protected wells / Traditional wells						Protected wells / Traditional wells	34%	25%				Protected wells / Traditional wells	34%	25%			
	Tubewell / All wells	95%	85%				Tubewell / All wells	95%	89%				Tubewell / All wells	95%	89%			
	Protected springs / All springs						Protected springs / All springs						Protected springs / All springs					
	Protect. well & spring / well & spring						Protect. well & spring / well & spring	97%	92%				Protect. well & spring / well & spring	97%	92%			
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								

Pakistan			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	DHS91	1991	68.4		96.2		9.9		78.1	
Integrated Household Survey	PIHS91	1991	56.7		95.0		12.8		81.9	
Multiple Indicator Cluster Survey	MICS95	1995	46.0		99.0		17.0		89.0	
Integrated Household Survey	PIHS96	1996	56.0		94.5		11.0		85.3	
Integrated Household Survey	PIHS97	1997	56.0		93.0		9.0		79.9	
Census	CEN98	1998	59.9		94.3		13.5		80.7	
Integrated Household Survey	PIHS99	1999	50.0		94.0		9.0		83.3	
Integrated Household Survey	PIHS02	2002	54.0		96.0		8.0		85.7	
National Nutrition Survey	PNNS02	2002			94.5				90.5	
World Health Survey	WHS03	2003	41.8		96.7		23.6		90.1	
Social & Living Standards Measurement Survey	SLSMS05	2005	60.0		95.7		23.0		78.3	
Core Welfare Indicators Questionnaire	CWIQ05	2005	58.8		96.6		15.8		82.0	
Demographic and Health Survey	DHS07	2007	61.9		93.0		23.2		91.9	

Pakistan - urban - Use of improved drinking water sources



Pakistan - rural - Use of improved drinking water sources



Drinking Water

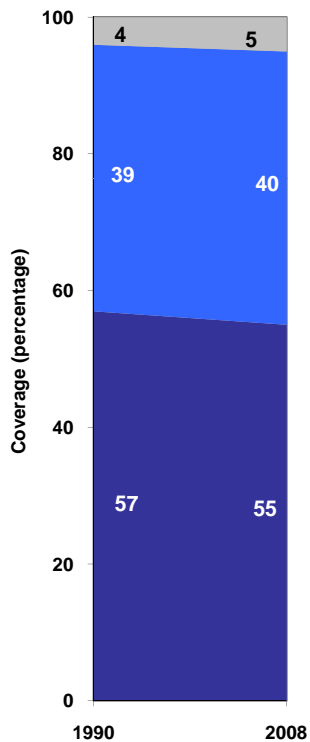
Pakistan	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	57	55	9	20	24	33
Other improved source	39	40	72	67	62	57
Unimproved source	4	5	19	13	14	10

Source: WHO/UNICEF JMP, 2010

Pakistan	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	35400	63904	80376	113048	115776	176952

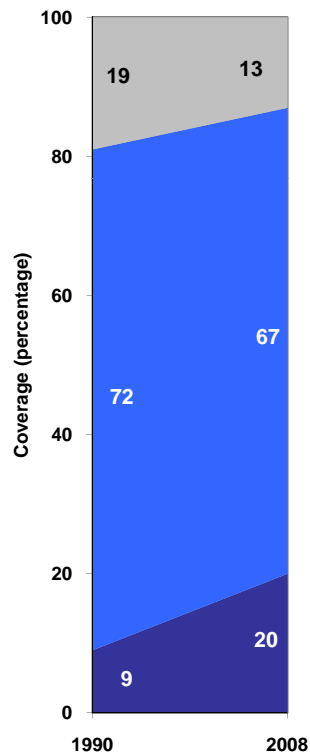
Source: UN / Population Division, 2008

Urban drinking water trends



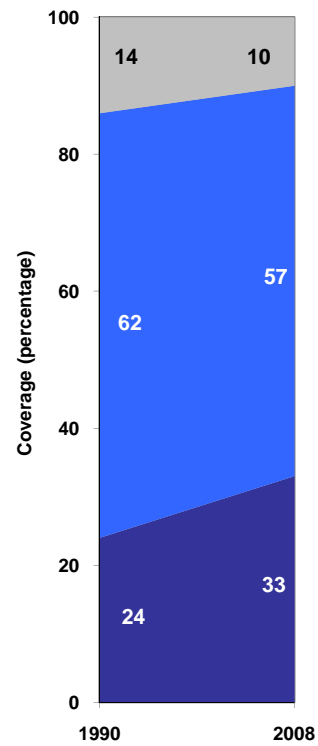
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises
■ Other improved sources
■ Unimproved sources

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises