



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

Cambodia

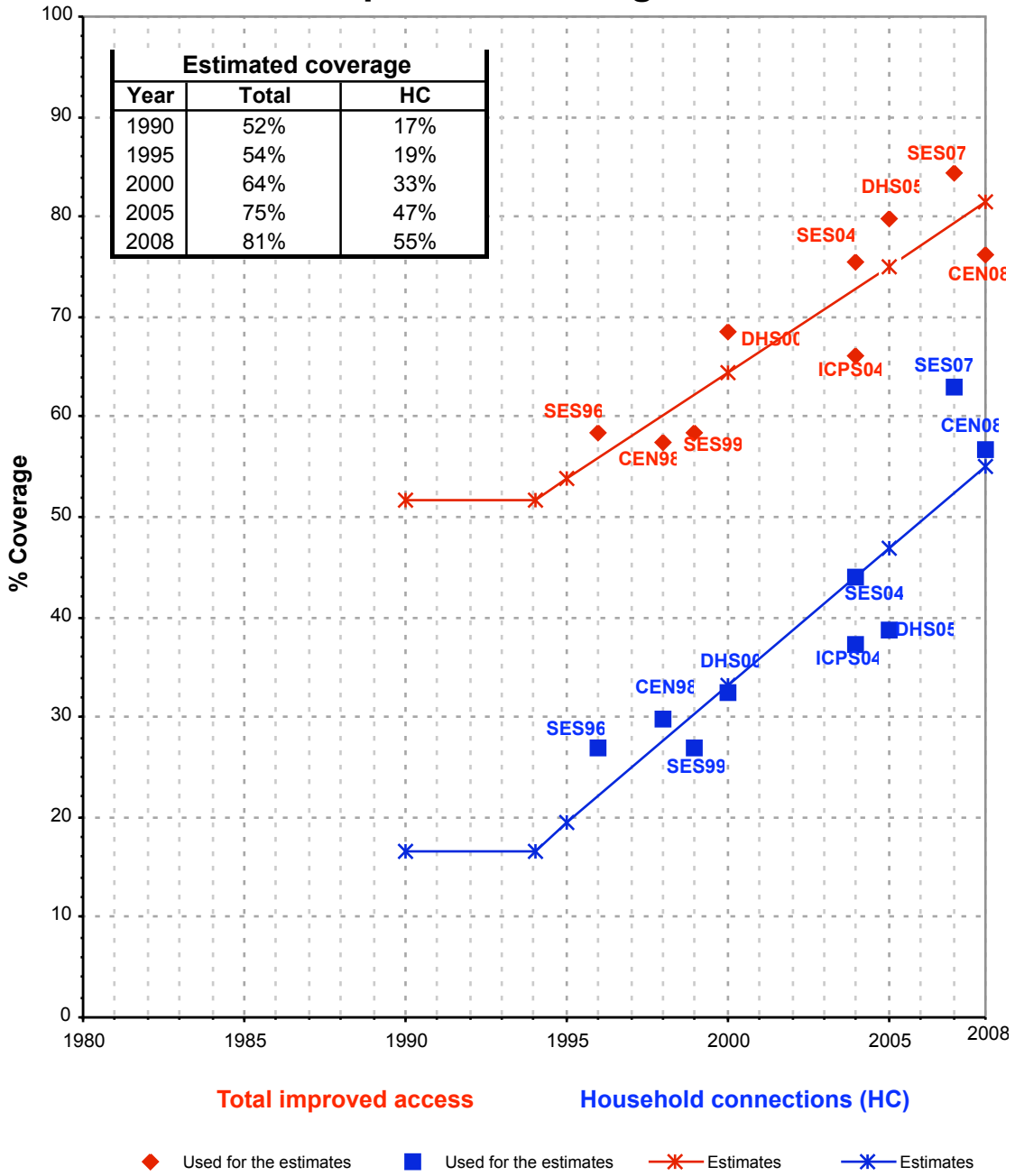
Access to drinking water sources		CEN98			Cambodia			Access to drinking water sources		JMP99			Cambodia						
National Census					Global Water Supply and Sanitation Assessment 2000.					Global Water Supply and Sanitation Assessment 2000.									
as recorded in the Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999					1998					Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999				
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total										
	Tap water	34.7	2.1			Tap water	29.8	0.8											
	House connections	29.8	0.8		Population served with household connection	House connections	29.8	0.8											
Piped in Dwelling	Piped water into dwelling	29.8	0.8			Piped water into dwelling													
	Piped water to yard/plot					Piped water to yard/plot													
Public Tap	Public tap, standpipe	4.9	1.3			Public tap, standpipe													
	Other					Other													
	Ground water	30.7	59.4			Ground water	23.1	23.7											
	Protected ground water	18.1	22.4		Population without household connection but with reasonable access to a public	Protected ground water	23.1	23.7											
	Unprotected ground water	12.6	37.0			Unprotected ground water													
	Protected wells or springs	18.1	22.4	0.0		Protected wells or springs													
	Private					Private													
	Public					Public													
	Other					Other													
	Unprotected wells or springs	12.6	37.0	0.0		Unprotected wells or springs													
	Private					Private													
	Public					Public													
	Other					Other													
	All wells	30.7	59.4			All wells													
	Private					Private													
	Public					Public													
	Other					Other													
Tubed, Piped Well	Tubewell, borehole	14.2	17.1			Tubewell, borehole													
	Private					Private													
	Public					Public													
	Other					Other													
	Traditional wells	16.5	42.3			Traditional wells													
	Private					Private													
	Public					Public													
	Other					Other													
Protected Dug Well	Protected well	3.9	5.3			Protected well													
	Private					Private													
	Public					Public													
	Other					Other													
Unprotected Dug Well	Unprotected well	12.6	37.0			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													
Pond, River or Stream	Surface water	15.5	30.6			Surface water													
	River					River													
	Lake					Lake													
	Dam					Dam													
	Pond					Pond													
	Stream					Stream													
	Irrigation channel					Irrigation channel													
	Other					Other													
	Other improved sources					Other improved sources													
	Other					Other													
	Other					Other													
	Other non-improved	19.0	7.9		Total population unserved	Other non-improved	47.2	75.5											
	Cart with small tank/drum					Cart with small tank/drum													
Tanker/Bought	Tanker truck provided	16.1	3.5			Tanker truck provided													
Other	Other	2.9	4.4			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 :		57%	35%		Access to improved drinking water sources :		53%	25%											
Access to house connections :		30%	1%		Access to house connections :		30%	1%											
Used for the estimates:		Yes	Yes		Used for the estimates:		No	No											
Used for the estimates:		Yes	Yes		Used for the estimates:		No	No											
Ratios	HC / Tap water	86%	38%		Ratios	HC / Tap water	100%	100%											
	Public tap / Tap water	14%	62%			Public tap / Tap water													
	Tubewell + protected well / All wells	24%	13%			Tubewell + protected well / All wells													
	Protected wells / Traditional wells					Protected wells / Traditional wells													
	Tubewell / All wells					Tubewell / All wells													
	Protected springs / All springs					Protected springs / All springs													
	Protect. well & spring / well & spring	59%	38%			Protect. well & spring / well & spring													
Number of people covered by the census.		1793.94	9632.31		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:		1793.917	9632.306											
Comments					Comments														

Access to drinking water sources		DHS00			Cambodia			Access to drinking water sources		ICPS04			Cambodia		
Demographic and Health Survey					2000			Inter-Censal Population Survey					2004		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Piped in Dwelling/yard/plot	Tap water	34.2	1.0		Piped water	Tap water	37.4	3.3							
	House connections	32.5	0.7			House connections									
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
Public Tap	Public tap, standpipe	1.7	0.3			Public tap, standpipe									
	Other					Other									
	Ground water	34.7	58.1			Ground water	36.6	59.1							
	Protected ground water	17.4	24.4			Protected ground water	25.0	30.0							
	Unprotected ground water	16.7	32.9			Unprotected ground water	11.6	29.1							
	Protected wells or springs	17.4	24.4			Protected wells or springs	25.0	30.0	0.0						
	Private	11.2	9.8			Private									
	Public	6.2	14.6			Public									
	Other					Other									
	Unprotected wells or springs	16.7	32.9			Unprotected wells or springs	11.6	29.1	0.0						
	Private	6.0	10.0			Private									
	Public	10.7	22.9			Public									
	Other					Other									
	All wells	34.1	57.3	0.0		All wells	36.6	59.1							
	Private	17.2	19.8			Private									
	Public	16.9	37.5			Public									
	Other					Other									
	Tubewell, borehole	12.5	20.9		Tube/piped well	Tubewell, borehole	20.5	27.3							
	Private	7.8	8.4			Private									
	Public	4.7	12.5			Public									
	Other					Other									
	Traditional wells	21.6	36.4	0.0		Traditional wells	16.1	31.8							
	Private	9.4	11.4			Private									
	Public	12.2	25.0			Public									
	Other					Other									
	Protected well	4.9	3.5	0.0	Protected dug well	Protected well	4.5	2.7							
	Private	3.4	1.4			Private									
	Public	1.5	2.1			Public									
	Other					Other									
	Unprotected well	16.7	32.9	0.0	Unprotected dug well	Unprotected well	11.6	29.1							
	Private	6.0	10.0			Private									
	Public	10.7	22.9			Public									
	Other					Other									
	All springs	0.6	0.8			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	10.7	8.0			Rainwater									
Rainwater	Covered cistern/tank	10.7	8.0			Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water	0.2	0.1			Bottled water									
	with other improved					with other improved									
Bottled water	without other improved	0.2	0.1			without other improved									
River/ stream/ pond/ lake/ dam	Surface water	10.0	27.0		Spring, river, etc	Surface water	16.1	30.5							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	11.1	6.0			Other non-improved	9.9	7.0							
	Cart with small tank/drum					Cart with small tank/drum									
Tanker truck/ water vendor	Tanker truck provided	8.6	2.6		Bought	Tanker truck provided	9.6	6.3							
Other	Other	2.5	3.4		Other	Other	0.3	0.7							
	Other					Other									
	DK/missing					DK/missing									
	Total	100.9	100.2			Total	100.0	99.9							
Calculations					Calculations										
Estimations					Estimations										
	Springs estimated to be protected based on DHS00/04	0.2	0.1												
						Piped into dwelling based on CSES04	37.3	3.2							
Access to improved drinking water sources :		69%	44%		Access to improved drinking water sources :		66%	43%							
Access to house connections :		33%	1%		Access to house connections :		37%	3%							
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	95%	70%		Ratios	HC / Tap water									
	Public tap / Tap water	5%	30%			Public tap / Tap water									
	Tubewell + protected well / All wells	51%	43%			Tubewell + protected well / All wells	68%	51%							
	Protected wells / Traditional wells	23%	10%			Protected wells / Traditional wells	28%	8%							
	Tubewell / All wells	37%	36%			Tubewell / All wells	56%	46%							
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring	51%	43%			Protect. well & spring / well & spring	68%	51%							
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	Data represent averages of aggregated data for rainy and dry season				Comments										

Access to drinking water sources		SES96			Cambodia			Access to drinking water sources		SES99			Cambodia		
Socio-Economic Survey					Socio-Economic Survey										
National Institute of Statistics					National Institute of Statistics										
Original denomination		Classification			Urban	Rural	Total	Original denomination		Classification			Urban	Rural	Total
		Tap water			28.8	2.5				Tap water			28.8	2.5	
		House connections			26.9	1.3				House connections			26.9	1.3	
Piped in dwelling		Piped water into dwelling			26.9	1.3		Piped in dwelling		Piped water into dwelling			26.9	1.3	
		Piped water to yard/plot								Piped water to yard/plot					
Public tap		Public tap, standpipe			1.9	1.2		Public tap		Public tap, standpipe			1.9	1.2	
		Other								Other					
		Ground water			37.7	60.0				Ground water			37.7	60.0	
		Protected ground water			30.8	42.9				Protected ground water			30.8	42.9	
		Unprotected ground water			6.9	17.0				Unprotected ground water			6.9	17.0	
		Protected wells or springs			30.8	42.9	0.0			Protected wells or springs			30.8	42.9	0.0
		Private								Private					
		Public								Public					
		Other								Other					
		Unprotected wells or springs			6.9	17.0	0.0			Unprotected wells or springs			6.9	17.0	0.0
		Private								Private					
		Public								Public					
		Other								Other					
		All wells			37.7	60.0				All wells			37.7	60.0	
		Private								Private					
		Public								Public					
		Other								Other					
Subwell, borehole		Tubewell, borehole			18.3	19.2		Subwell, borehole		Tubewell, borehole			18.3	19.2	
		Private								Private					
		Public								Public					
		Other								Other					
		Traditional wells			19.4	40.8				Traditional wells			19.4	40.8	
		Private								Private					
		Public								Public					
		Other								Other					
Protected dug well		Protected well			12.6	23.8		Protected dug well		Protected well			12.6	23.8	
		Private								Private					
		Public								Public					
		Other								Other					
Unprotected dug well		Unprotected well			6.9	17.0		Unprotected dug well		Unprotected well			6.9	17.0	
		Private								Private					
		Public								Public					
		Other								Other					
		All springs								All springs					
		Private								Private					
		Public								Public					
		Other								Other					
		Protected spring								Protected spring					
		Private								Private					
		Public								Public					
		Other								Other					
		Unprotected spring								Unprotected spring					
		Private								Private					
		Public								Public					
		Other								Other					
		Rainwater			1.4	0.6				Rainwater			1.4	0.6	
Rainwater		Covered cistern/tank			1.4	0.6		Rainwater		Covered cistern/tank			1.4	0.6	
		Uncovered cistern/tank								Uncovered cistern/tank					
		Bottled water								Bottled water					
		with other improved								with other improved					
		without other improved								without other improved					
Pond, river or stream		Surface water			15.4	30.6		Pond, river or stream		Surface water			15.4	30.6	
		River								River					
		Lake								Lake					
		Dam								Dam					
		Pond								Pond					
		Stream								Stream					
		Irrigation channel								Irrigation channel					
		Other								Other					
		Other improved sources								Other improved sources					
		Other								Other					
		Other								Other					
		Other non-improved			16.8	6.4				Other non-improved			16.8	6.4	
		Cart with small tank/drum								Cart with small tank/drum					
Tanker truck, vendor or otherwise bought		Tanker truck provided			15.7	4.4		Tanker truck, vendor or otherwise bought		Tanker truck provided			15.7	4.4	
Other		Other			1.1	1.9		Other		Other			1.1	1.9	
		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 :					58%	38%		Access to improved drinking water sources :					58%	38%	
Access to house connections :					27%	1%		Access to house connections :					27%	1%	
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%	51%		Ratios		HC / Tap water			93%	51%	
		Public tap / Tap water			7%	49%				Public tap / Tap water			7%	49%	
		Tubewell + protected well / All wells			82%	72%				Tubewell + protected well / All wells			82%	72%	
		Protected wells / Traditional wells			65%	58%				Protected wells / Traditional wells			65%	58%	
		Tubewell / All wells			48%	32%				Tubewell / All wells			48%	32%	
		Protected springs / All springs								Protected springs / All springs					
		Protect. well & spring / well & spring			82%	72%				Protect. well & spring / well & spring			82%	72%	
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							

Cambodia			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	CEN98	1998	29.8		57.3		0.8		35.3	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		29.8		52.8		0.8		24.5
Demographic and Health Survey	DHS00	2000	32.5		68.6		0.7		43.9	
Inter-Censal Population Survey	ICPS04	2004	37.3		66.1		3.2		42.7	
Socio Economic Survey	CSES04	2004	44.1		75.4		4.2		54.4	
Demographic and Health Survey	DHS05	2005	38.8		79.9		4.8		61.4	
Socio-Economic Survey	SES96	1996	26.9		58.3		1.3		37.8	
Socio-Economic Survey	SES99	1999	26.9		58.3		1.3		37.8	
Socio-Economic Survey	SES07	2007	63.1		84.4		3.5		56.8	
Census 2008	CEN08	2008	56.8		76.2		4.4		46.3	

Cambodia - urban - Use of improved drinking water sources



Cambodia - rural - Use of improved drinking water sources

