

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

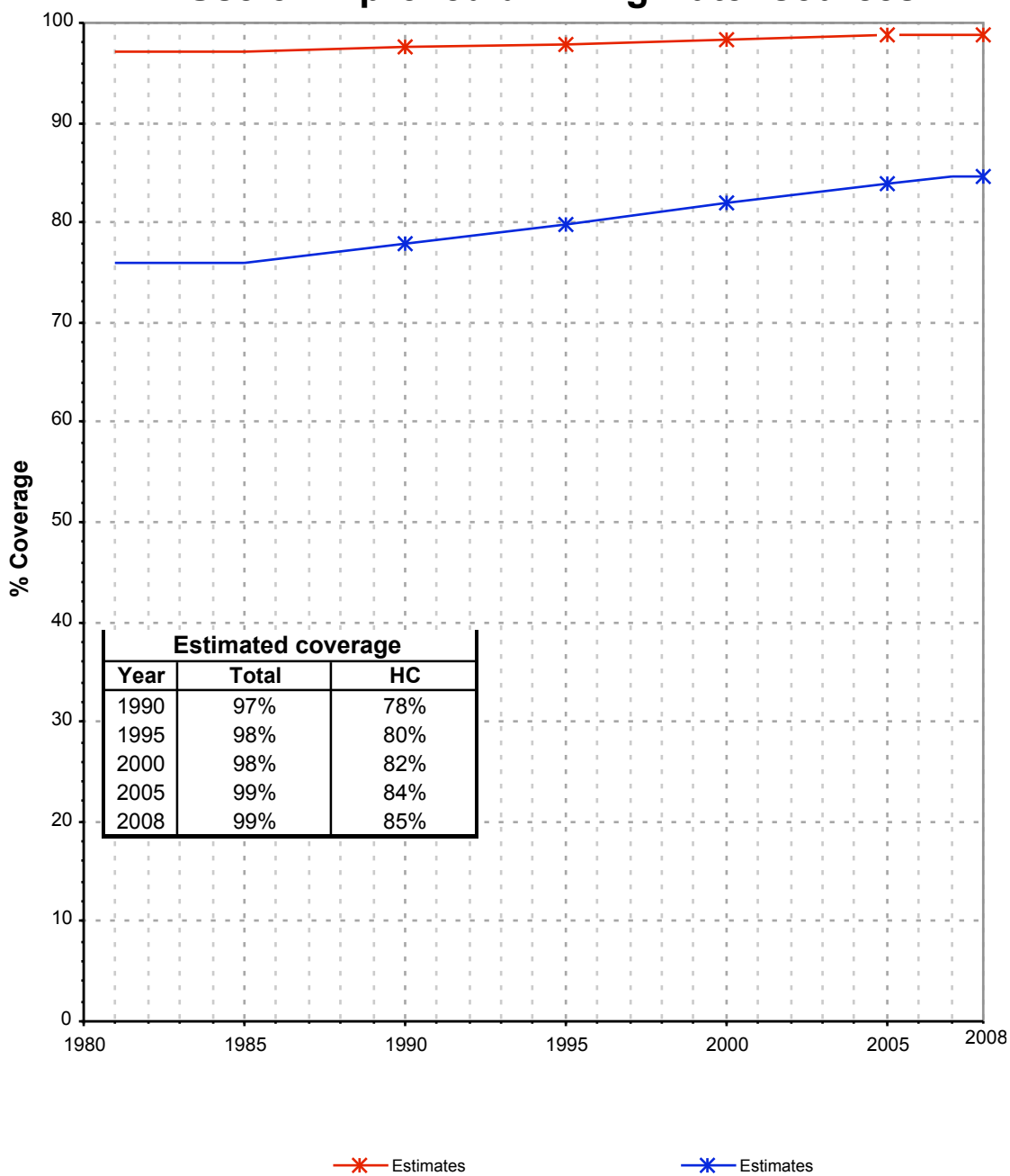
childinfo.org

Access to drinking water sources		PHS96			Thailand			Access to drinking water sources		JMP99			Thailand		
Provincial Health Survey 2					1996			Global Water Supply and Sanitation Assessment 2000. 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					Tap water	76.4	1.5							
	House connections				Population served with household connection	House connections	76.4	1.5							
	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					Ground water	21.6	88.5							
	Protected ground water				Population without household connection but with reasonable access to a public	Protected ground water	21.6	88.5							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs					Protected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells					All wells									
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells					Traditional wells									
	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					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				Total population unserved	Other non-improved	1.9	9.9							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
	Other					Other									
	Other					Other									
	DK/missing					DK/missing									
	Total					Total	100.0	100.0							
Calculations					Calculations										
Estimations					Estimations										
Access to improved drinking water sources :		88%	73%	81%	Access to improved drinking water sources :		98%	90%							
Access to house connections :					Access to house connections :		76%	2%							
Used for the estimates		No	No		Used for the estimates		No	No							
Used for the estimates		No	No		Used for the estimates		No	No							
Ratios	HC / Tap water				Ratios	HC / Tap water	100%	100%							
	Public tap / Tap water					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					Tubewell / All wells									
	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:		19528	42224							
Comments	No disaggregation of facilities.				Comments										

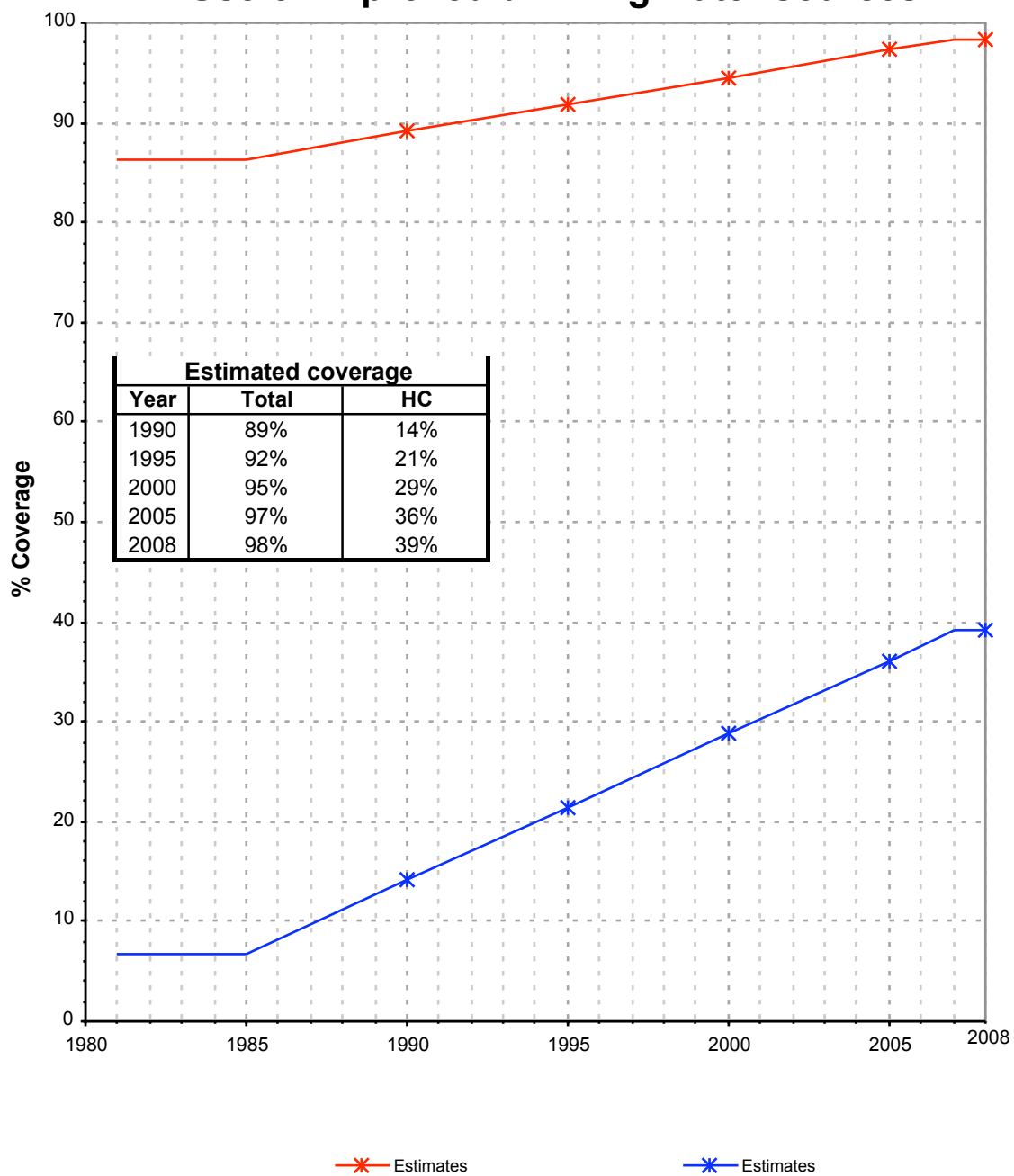
Access to drinking water sources		CEN00		Thailand		Access to drinking water sources		MICS05		Thailand		
National Census				2000		Multiple Indicator Cluster Survey				2005		
Department of Health, Ministry of Public Health												
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Urban	Rural	Total
	Tap water					Tap water	39.2	15.6				
	House connections					House connections	39.2	15.5				
	Piped water into dwelling				Piped into dwelling	Piped water into dwelling	37.0	14.1				
	Piped water to yard/plot				Piped into plot or yard	Piped water to yard/plot	2.2	1.4				
	Public tap, standpipe				Public Tap/Standpipe	Public tap, standpipe	0.0	0.1				
	Other					Other						
	Ground water					Ground water	4.8	15.5				
	Protected ground water					Protected ground water	4.2	11.7				
	Unprotected ground water					Unprotected ground water	0.6	3.8				
	Protected wells or springs					Protected wells or springs	4.2	11.7	0.0			
	Private					Private						
	Public					Public						
	Other					Other						
	Unprotected wells or springs					Unprotected wells or springs	0.6	3.8	0.0			
	Private					Private						
	Public					Public						
	Other					Other						
	All wells					All wells	4.8	15.5				
	Private					Private						
	Public					Public						
	Other					Other						
	Tubewell, borehole				Tubewell/Borehole	Tubewell, borehole	2.3	5.0				
	Private					Private						
	Public					Public						
	Other					Other						
	Traditional wells					Traditional wells	2.5	10.5				
	Private					Private						
	Public					Public						
	Other					Other						
	Protected well				Protected well	Protected well	1.9	6.7				
	Private					Private						
	Public					Public						
	Other					Other						
	Unprotected well				Unprotected well	Unprotected well	0.6	3.8				
	Private					Private						
	Public					Public						
	Other					Other						
	All springs					All springs	0.0	0.0				
	Private					Private						
	Public					Public						
	Other					Other						
	Protected spring				Protected spring	Protected spring	0.0	0.0				
	Private					Private						
	Public					Public						
	Other					Other						
	Unprotected spring				unprotected spring	Unprotected spring	0.0	0.0				
	Private					Private						
	Public					Public						
	Other					Other						
	Rainwater					Rainwater	10.6	48.3				
	Covered cistern/tank				Rainwater	Covered cistern/tank	10.6	48.3				
	Uncovered cistern/tank					Uncovered cistern/tank						
	Bottled water	39.8	9.2			Bottled water	44.8	18.3				
Bottled water (*)	with other improved	39.8	9.2		Bottled water	with other improved	44.8	18.3				
	without other improved					without other improved						
	Surface water					Surface water	0.1	1.1				
	River				Surface water	River						
	Lake					Lake						
	Dam					Dam						
	Pond					Pond						
	Stream					Stream						
	Irrigation channel					Irrigation channel						
	Other					Other						
Safe water supplies (*)	Other improved sources	58.1	89.3			Other improved sources						
	Other					Other						
	Other					Other						
	Other non-improved					Other non-improved	0.5	1.0				
	Cart with small tank/drum					Cart with small tank/drum						
	Tanker truck provided				Tanker-truck	Tanker truck provided	0.2	0.9				
	Other				Other	Other	0.3	0.1				
	Other					Other						
	DK/missing					DK/missing						
	Total	97.9	98.5			Total	100.0	99.8				
Calculations					Calculations							
Estimations					Estimations							
	House connection estimation, based on MICS05	83.2	35.5			Bottled water as HCC	44.8	18.3				
Access to improved drinking water sources :		98%	99%		Access to improved drinking water sources :		99%	94%				
Access to house connections :		83%	35%		Access to house connections :		84%	34%				
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	100%	99%				
	Public tap / Tap water					Public tap / Tap water	0%	1%				
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	88%	75%				
	Protected wells / Traditional wells					Protected wells / Traditional wells	76%	64%				
	Tubewell / All wells					Tubewell / All wells	48%	32%				
	Protected springs / All springs					Protected springs / All springs	#DIV/0!	#DIV/0!				
	Protect. well & spring / well & spring					Protect. well & spring / well & spring	88%	75%				
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							
Comments	(*) Access from waterworks systems, artesian wells, sanitary shallow wells, rainwater.				Comments							
	(**) Detailed number is also considered important as result of the non-urban divide.											

Thailand			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	74.0		95.8		8.5		80.2	
National Census	CEN90	1990	81.2		99.4		13.9		96.7	
Provincial Health Survey 2	PHS96	1996				88.0				73.0
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		76.4		98.1		1.5		90.1
National Census	CEN00	2000	83.2		97.9		35.5		98.5	
Multiple Indicator Cluster Survey	MICS05	2005	84.0		98.8		33.8		93.9	
SOCIO-ECONOMIC SURVEY	SES02	2002	80.7		98.4		28.9		94.8	

Thailand - urban - Use of improved drinking water sources



Thailand - rural - Use of improved drinking water sources



Drinking Water

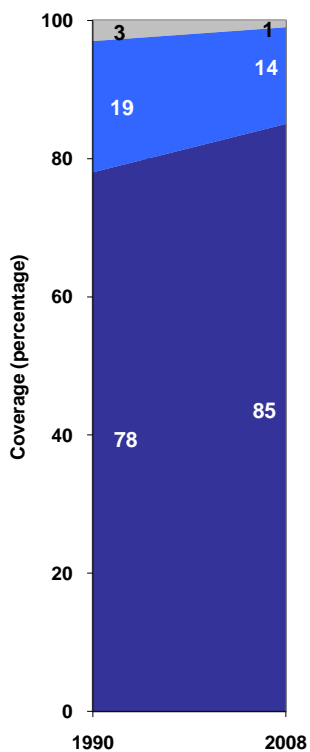
Thailand	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	78	85	14	39	33	54
Other improved source	19	14	75	59	58	44
Unimproved source	3	1	11	2	9	2

Source: WHO/UNICEF JMP, 2010

Thailand	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	16675	22397	39998	44989	56673	67386

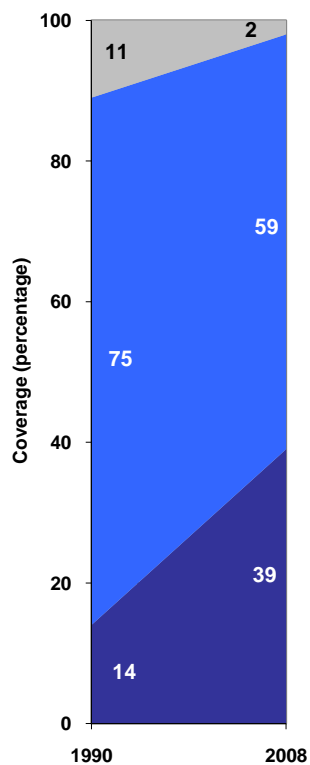
Source: UN / Population Division, 2008

Urban drinking water trends



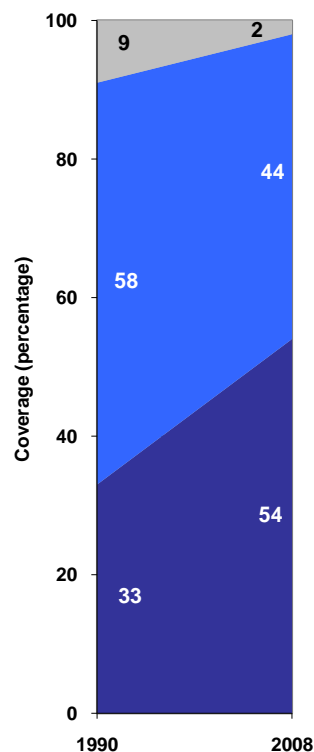
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises
■ Other improved sources
■ Unimproved sources

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises