



WHO / UNICEF

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

Estimates for the use of

**Improved
Drinking-Water Sources**

Updated March 2010

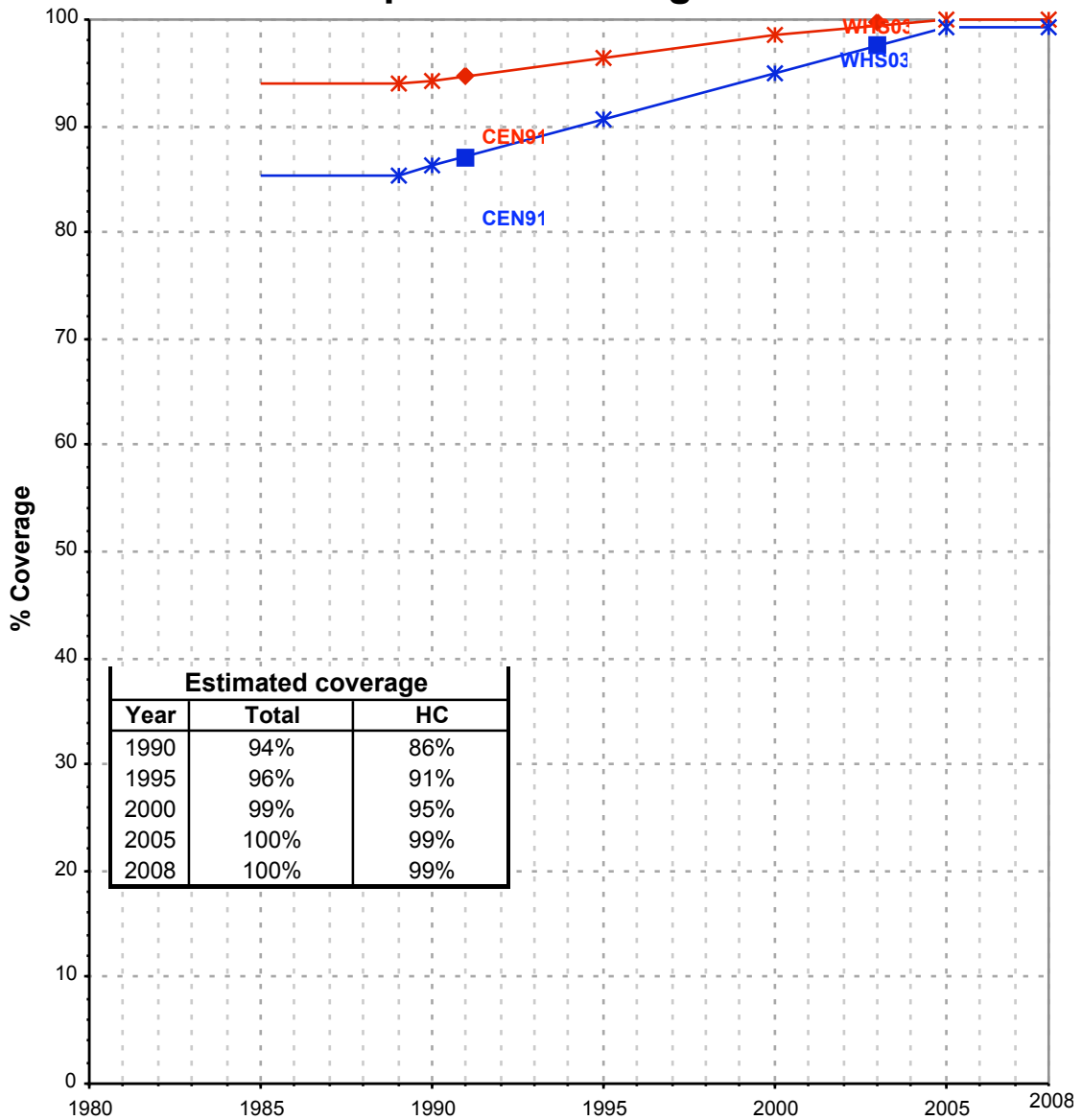
Malaysia

Access to drinking water sources		JMP99			Malaysia			Access to drinking water sources		WHS03			Malaysia		
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	Tap water		64.3		Piped water through house connection or yard	Tap water	98.7	88.0							
	House connections		64.3			House connections	97.6	86.7							
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	Public tap, standpipe					Public tap, standpipe	1.1	1.3							
	Other					Other									
	Ground water		30.0			Ground water	0.8	6.7							
	Protected ground water		30.0			Protected ground water	0.7	5.2							
	Unprotected ground water					Unprotected ground water	0.1	1.5							
	Protected wells or springs					Protected wells or springs	0.2	3.3							
Private				Private											
Public				Public											
Other				Other											
Unprotected wells or springs				Unprotected wells or springs	0.1	1.5									
Private				Private											
Public				Public											
Other				Other											
All wells				All wells	0.5	1.9									
Private				Private											
Public				Public											
Other				Other											
Tubewell, borehole				Tubewell, borehole	0.5	1.9									
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	0.4	3.1									
Covered cistern/tank				Covered cistern/tank	0.4	3.1									
Uncovered cistern/tank				Uncovered cistern/tank											
Bottled water				Bottled water											
with other improved				with other improved											
without other improved				without other improved	0.1	2.1									
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											
Total population unserved	Other non-improved		5.7	Other non-improved	0.0	0.1									
	Cart with small tank/drum			Cart with small tank/drum											
	Tanker truck provided			Tanker truck provided	0.0	0.1									
	Other			Other											
	Other			Other											
	DK/missing			DK/missing											
	Total		100.0	Total	100.0	100.0									
Calculations															
					Protected trad. Well estimated at 50% of well & spring	0.1	1.7								
					Springs estimated at 50% of well & spring	0.1	1.7								
Estimations															
Access to improved drinking water sources :				94%	Access to improved drinking water sources :				100%	96%					
Access to house connections :				64%	Access to house connections :				98%	87%					
Used for the estimates				No	No	Used for the estimates				Yes	Yes				
Used for the estimates				No	No	Used for the estimates				Yes	Yes				
Ratios	HC / Tap water		100%		HC / Tap water		99%	98%							
	Public tap / Tap water				Public tap / Tap water		1%	2%							
	Tubewell + protected well / All wells				Tubewell + protected well / All wells										
	Protected wells / Traditional wells				Protected wells / Traditional wells										
	Tubewell / All wells				Tubewell / All wells		100%	100%							
	Protected springs / All springs				Protected springs / All springs										
	Protect. well & spring / well & spring				Protect. well & spring / well & spring		64%	69%							
Number of people covered by the survey:				8905	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		CEN91			Malaysia			Access to drinking water sources		CEN00			Malaysia			
Population and housing census					Population and housing census					Population and housing census						
National Census (10% micro dataset from IPUMS)					National Census (10% micro dataset from IPUMS)					National Census (10% micro dataset from IPUMS)						
Original denomination		Classification			Urban	Rural	Total	Original denomination		Classification			Urban	Rural	Total	
Piped water inside living quarters	Tap water	House connections	87.1	73.2					Tap water	House connections						
		Piped water into dwelling								Piped water into dwelling						
		Piped water to yard/plot								Piped water to yard/plot						
Piped water outside living quarters		Public tap, standpipe	5.3	11.7						Public tap, standpipe						
		Other							Other							
	Ground water	Protected ground water	3.6	14.5					Ground water	Protected ground water						
		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							
Well	All wells	All wells	3.6	14.5					All wells	All wells						
		Private								Private						
		Public								Public						
		Other								Other						
		Tubewell, borehole							Tubewell, borehole							
		Private							Private							
		Public							Public							
		Other							Other							
	Traditional wells	Traditional wells							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							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	Covered cistern/tank							Rainwater	Covered cistern/tank						
		Uncovered cistern/tank								Uncovered cistern/tank						
	Bottled water	with other improved							Bottled water	with other improved						
		without other improved								without other improved						
	Surface water	River							Surface water	River						
		Lake								Lake						
		Dam								Dam						
		Pond								Pond						
		Stream								Stream						
		Irrigation channel								Irrigation channel						
		Other								Other						
		Other improved sources	Other								Other improved sources	Other				
			Other									Other				
		Other non-improved	Cart with small tank/drum	1.1	10.5						Other non-improved	Cart with small tank/drum				
	Tanker truck provided								Tanker truck provided							
	Other		1.1	10.5					Other							
	Other								Other							
NIU (not in universe)	DK/missing		2.9	1.8				DK/missing								
	Total		100.0	100.0				Total								
Calculations								Calculations								
Estimations		Well considered improved based on WHSO3	2.3	10.0				Estimations								
Access to improved drinking water sources :			95%	83%				Access to improved drinking water sources :								
Access to house connections :			87%	62%				Access to house connections :								
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		94%	84%				Ratios	HC / Tap water							
	Public tap / Tap water		6%	16%					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:								
Comments	Urban small, large and metropolitan have been aggregated in urban.			Comments		Insufficient data disaggregation										

Malaysia			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
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999						64.3		94.3
World Health Survey	WHS03	2003	97.6		99.8		86.7		96.3	
Population and housing census	CEN91	1991	87.1		94.7		61.5		83.2	
Population and housing census	CEN00	2000								

Malaysia - urban - Use of improved drinking water sources



Estimated coverage		
Year	Total	HC
1990	94%	86%
1995	96%	91%
2000	99%	95%
2005	100%	99%
2008	100%	99%

Total improved access

Household connections (HC)

◆ Used for the estimates ■ Used for the estimates * Estimates * Estimates

Malaysia - rural - Use of improved drinking water sources

