



**WHO / UNICEF**

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

Estimates for the use of

**Improved  
Drinking-Water Sources**

Updated March 2010

---

**Chad**

---



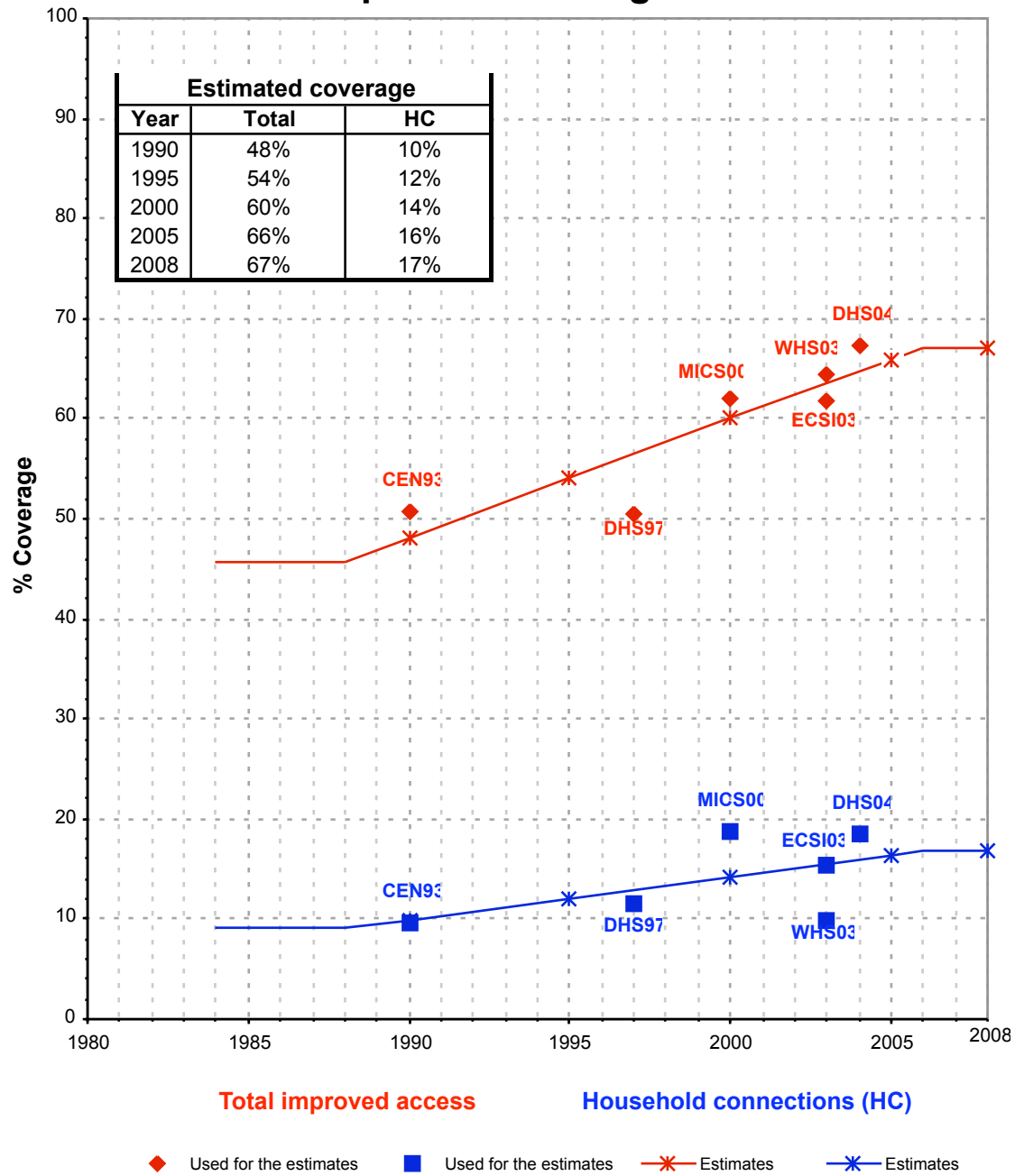
Access to drinking water sources		JMP99			Chad			Access to drinking water sources		MICS00			Chad		
Global Water Supply and Sanitation Assessment 2000.					Enquete de grappes a indicateurs multiples					Multiple Indicator Cluster Survey					
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999					2000					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	<b>Tap water</b>	9.7	0.0		Eau du robinet	<b>Tap water</b>	37.6	2.8							
	House connections	9.7	0.0			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									
Population without household connection but with accessible access to a public	<b>Ground water</b>	38.5	17.0			<b>Ground water</b>	37.3	81.1							
	Protected ground water	38.5	17.0			Protected ground water	8.0	24.0							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs					Protected wells or springs	8.0	24.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.0	0.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	<b>All wells</b>					<b>All wells</b>	37.3	81.1							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole				Puits moderne/forage	Tubewell, borehole	8.0	24.0							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>				Puits traditionnel protégé ou non protégé	<b>Traditional wells</b>	29.3	57.1							
	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									
	<b>All springs</b>					<b>All springs</b>									
	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									
	<b>Rainwater</b>					<b>Rainwater</b>									
	Covered cistern/tank					Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	<b>Bottled water</b>					<b>Bottled water</b>									
	with other improved					with other improved									
	without other improved					without other improved									
	<b>Surface water</b>				Eau de surface	<b>Surface water</b>	1.2	14.2							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	<b>Other improved sources</b>					<b>Other improved sources</b>									
	Other					Other									
	Other					Other									
Total population unserved	<b>Other non-improved</b>	51.8	83.0			<b>Other non-improved</b>	23.9	1.9							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Camion citerne, vendeur d'eau	Tanker truck provided	23.8	0.6							
	Other				Autres	Other	0.1	1.3							
	Other					Other									
	<b>DK/missing</b>				Pas de réponse/NSP	<b>DK/missing</b>	0.0	0.1							
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.0	100.1							
<b>Calculations</b>					<b>Calculations</b>										
<b>Estimations</b>					<b>Estimations</b>	Improved traditional Wells based on ECSI03	16.3	15.2							
						HC, based on DHS97	18.7	0.1							
<b>Access to improved drinking water sources :</b>		<b>48%</b>	<b>17%</b>		<b>Access to improved drinking water sources :</b>		<b>62%</b>	<b>42%</b>							
<b>Access to house connections :</b>		<b>10%</b>	<b>0%</b>		<b>Access to house connections :</b>		<b>19%</b>	<b>0%</b>							
Used for the estimates :		No	No		Used for the estimates :		Yes	Yes							
Used for the estimates :		No	No		Used for the estimates :		Yes	Yes							
<b>Ratios</b>	HC / Tap water	100%	#DIV/0!		<b>Ratios</b>	HC / Tap water									
	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	21%	30%							
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring					Protect. well & spring / well & spring	100%	100%							
	Number of people covered by the survey:	1324.6	4869			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:									
<b>Comments</b>					<b>Comments</b>										

Access to drinking water sources		WHS03		Chad	
World Health Survey				2003	
Original denomination	Classification	Urban	Rural	Total	
	<b>Tap water</b>	66.7	15.2		
Piped water through house connection or yard	<b>House connections</b>	9.9	1.5		
	Piped water into dwelling				
	Piped water to yard/plot				
Public standpipe	Public tap, standpipe	56.8	13.7		
	Other				
	<b>Ground water</b>	27.9	74.9		
	Protected ground water	14.6	23.4		
	Unprotected ground water	13.3	51.4		
Protected dug well or protected spring	Protected wells or springs	7.7	12.8	0.0	
	Private				
	Public				
	Other				
Unprotected dug well or spring	Unprotected wells or springs	13.3	51.4		
	Private				
	Public				
	Other				
	<b>All wells</b>	6.9	10.6		
	Private				
	Public				
	Other				
Protected tube well or bore hole	Tubewell, borehole	6.9	10.6		
	Private				
	Public				
	Other				
	<b>Traditional wells</b>				
	Private				
	Public				
	Other				
	Protected well				
	Private				
	Public				
	Other				
	Unprotected well				
	Private				
	Public				
	Other				
	<b>All springs</b>				
	Private				
	Public				
	Other				
	Protected spring				
	Private				
	Public				
	Other				
	Unprotected spring				
	Private				
	Public				
	Other				
	<b>Rainwater</b>	0.1	2.2		
Rainwater (into tank or cistern )	Covered cistern/tank	0.1	2.2		
	Uncovered cistern/tank				
	<b>Bottled water</b>				
	with other improved				
	without other improved				
Water taken directly from pond-water or stream	<b>Surface water</b>	5.2	0.3		
	River				
	Lake				
	Dam				
	Pond				
	Stream				
	Irrigation channel				
	Other				
	<b>Other improved sources</b>				
	Other				
	Other				
	<b>Other non-improved</b>	0.2	7.4		
	Cart with small tank/drum				
Tanker-truck, vendor	Tanker truck provided	0.2	7.4		
	Other				
	Other				
	<b>DK/missing</b>				
	<b>Total</b>	100.0	100.0		
<b>Calculations</b>					
	Protected wells, based on DHS04	7.1	10.6		
	Protected springs based on DHS04	0.6	2.2		
<b>Estimations</b>					
	corrected for urban vendor provided water, based on DHS04	-16.9	0.0		
<b>Access to improved drinking water sources :</b>		<b>64%</b>	<b>41%</b>		
<b>Access to house connections :</b>		<b>10%</b>	<b>2%</b>		
Used for the estimates		Yes	Yes		
Used for the estimates		Yes	Yes		
<b>Ratios</b>	HC / Tap water	15%	10%		
	Public tap / Tap water	85%	90%		
	Tubewell + protected well / All wells				
	Protected wells / Traditional wells				
	Tubewell / All wells	100%	100%		
	Protected springs / All springs				
	Protect. well & spring / well & spring	37%	20%		
Number of people covered by the survey:					
Number of households covered by the survey:					
Total population:					
<b>Comments</b>					



Chad			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
Census	CEN93	1990	9.7		50.7		0.0		35.0	
Demographic and Household Survey	DHS97	1997	11.6		50.4		0.2		41.9	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		9.7		48.2		0.0		17.0
Enquete de grappes a indicateurs multiples	MICS00	2000	18.7		61.9		0.1		42.0	
World Health Survey	WHS03	2003	9.9		64.4		1.5		40.9	
Demographic and Household Survey	DHS04	2004	18.6		67.4		0.0		42.4	
Enquête sur la Consommation et le Secteur Informel	ECSI03	2003	15.5		61.8		0.6		42.7	

# Chad - urban - Use of improved drinking water sources



# Chad - rural - Use of improved drinking water sources

