

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

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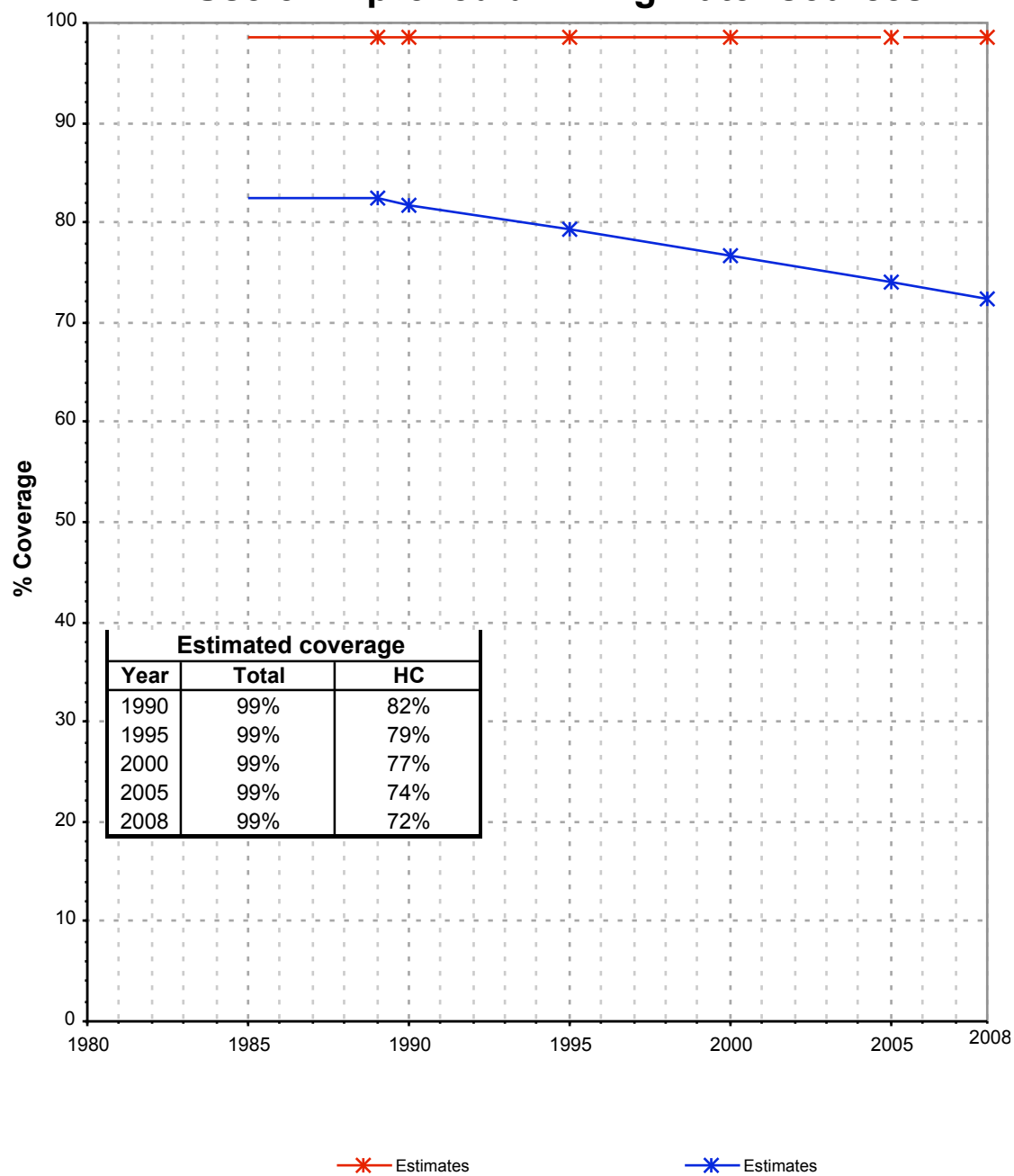
Access to drinking water sources		JMP99			Namibia			Access to drinking water sources		DHS00			Namibia		
Global Water Supply and Sanitation Assessment 2000.					Demographic and Health Survey					Preliminary report					
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999					2000					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	Tap water	82.0	32.7			Tap water	98.0	40.3							
	House connections	82.0	32.7			House connections	77.1	19.8							
	Piped water into dwelling				Piped into residence	Piped water into dwelling	57.8	8.4							
	Piped water to yard/plot				Piped into yard	Piped water to yard/plot	19.3	11.4							
	Public tap, standpipe				Public tap	Public tap, standpipe	20.9	20.5							
	Other					Other									
Population without household connection but with reasonable access to a public	Ground water	18.0	34.5			Ground water		32.4							
	Protected ground water	18.0	34.5			Protected ground water		12.7							
	Unprotected ground water					Unprotected ground water		19.7							
	Protected wells or springs					Protected wells or springs	0.0	12.7	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.0	19.7	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	All wells					All wells	0.0	29.4							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole				Tubewell/Borehole	Tubewell, borehole	0.0	11.1							
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells					Traditional wells	0.0	18.3							
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well				Protected dug well	Protected well	0.0	1.2							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well				Unprotected well	Unprotected well	0.0	17.1							
	Private					Private									
	Public					Public									
	Other					Other									
	All springs					All springs	0.0	3.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Protected spring				Protected spring	Protected spring	0.0	0.4							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected spring				Unprotected spring	Unprotected spring	0.0	2.6							
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater					Rainwater	0.0	14.9							
	Covered cistern/tank				Rainwater	Covered cistern/tank	0.0	14.9							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water	0.0	0.1							
	with other improved				Bottled water	with other improved	0.0	0.1							
	without other improved				Pond river stream	without other improved	0.0	0.1							
	Surface water					Surface water	0.0	9.7							
	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	0.0	32.7			Other non-improved	1.9	2.5							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Tanker truck	Tanker truck provided	0.0	0.3							
	Other				Other	Other	1.9	2.2							
	Other					Other									
	DK/missing				Missing	DK/missing	0.0	0.1							
	Total	100.0	100.0			Total	99.9	100.0							
Calculations					Calculations										
Estimations					Estimations										
Access to improved drinking water sources :		100%	67%		Access to improved drinking water sources :		98%	68%							
Access to house connections :		82%	33%		Access to house connections :		77%	20%							
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%	100%		Ratios	HC / Tap water	79%	49%							
	Public tap / Tap water					Public tap / Tap water	21%	51%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	#DIV/0!	42%							
	Protected wells / Traditional wells					Protected wells / Traditional wells	#DIV/0!	7%							
	Tubewell / All wells					Tubewell / All wells	#DIV/0!	38%							
	Protected springs / All springs					Protected springs / All springs	#DIV/0!	13%							
	Protect. well & spring / well & spring					Protect. well & spring / well & spring		39%							
	Protect. Traditional wells & springs					Protect. Traditional wells & springs		8%							
					Springs/Groundwater	#####	9%								
Number of people covered by the survey:		415.614	1488.53		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		CEN01			Namibia			Access to drinking water sources		WHS03			Namibia		
Census		2001			World Health Survey			2003			2003				
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
	Tap water	97.8	69.4	80.6		Tap water	99.6	74.9			Tap water	68.8	24.0		
	House connections	78.2	36.1	52.7		House connections					House connections				
Piped into residence	Piped water into dwelling	78.2	36.1	52.7		Piped water through house connection or yard					Piped water into dwelling				
Piped into yard	Piped water to yard/plot										Piped water to yard/plot				
Public tap	Public tap, standpipe	19.6	33.3	27.9		Public standpipe					Public tap, standpipe	30.9	50.9		
	Other										Other				
	Ground water	0.6	10.6	6.6		Ground water	0.3	15.3			Ground water	0.2	10.1		
	Protected ground water	0.6	10.6	6.6		Protected ground water					Protected ground water				
	Unprotected ground water					Unprotected ground water	0.1	5.2			Unprotected ground water				
	Protected wells or springs	0.6	10.6	6.6		Protected dug well or protected spring					Protected wells or springs	0.0	5.0		
	Private										Private				
	Public										Public				
	Other										Other				
	Unprotected wells or springs					Unprotected dug well or spring					Unprotected wells or springs	0.1	5.2		
	Private										Private				
	Public										Public				
	Other										Other				
	All wells	0.6	10.6	6.6		All wells	0.2	5.1			All wells				
	Private										Private				
	Public										Public				
	Other										Other				
Tubewell/Borehole	Tubewell, borehole	0.6	10.6	6.6		Protected tube well or bore hole					Tubewell, borehole	0.2	5.1		
	Private										Private				
	Public										Public				
	Other										Other				
	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				
	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	0.0	1.5			Rainwater	0.0	1.5		
	Covered cistern/tank					Rainwater (into tank or cistern)					Covered cistern/tank				
	Uncovered cistern/tank										Uncovered cistern/tank				
	Bottled water					Bottled water					Bottled water				
	with other improved										with other improved				
	without other improved										without other improved				
Pond river stream	Surface water	0.5	10.6	6.6		Water taken directly from pond-water or stream					Surface water	0.0	4.7		
	River										River				
	Lake										Lake				
	Dam										Dam				
	Pond										Pond				
	Stream										Stream				
	Irrigation channel										Irrigation channel				
	Other										Other				
	Other improved sources					Other improved sources					Other improved sources				
	Other										Other				
	Other										Other				
	Other non-improved	0.3	8.6	5.3		Other non-improved	0.1	3.6			Other non-improved				
	Cart with small tank/drum										Cart with small tank/drum				
	Tanker truck provided					Tanker-truck, vendor					Tanker truck provided	0.1	3.6		
Other	Other	0.3	8.6	5.3							Other				
	Other										Other				
Not stated	DK/missing	0.8	0.8	0.8		DK/missing					DK/missing				
	Total	100.0	100.0	99.9		Total	100.0	100.0			Total	100.0	100.0		
Calculations						Calculations									
											Protected wells, based on DHS00	0.0	4.6		
											Protected springs based on DHS00	0.0	0.4		
Estimations						Estimations									
Access to improved drinking water sources :		98%	80%	87%	Access to improved drinking water sources :		100%	87%		Access to improved drinking water sources :		100%	87%		
Access to house connections :		78%	36%	53%	Access to house connections :		69%	24%		Access to house connections :		69%	24%		
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	80%	52%		Ratios	HC / Tap water	69%	32%		Ratios	HC / Tap water	69%	32%		
	Public tap / Tap water	20%	48%			Public tap / Tap water	31%	68%			Public tap / Tap water	31%	68%		
	Tubewell + protected well / All wells					Tubewell + protected well / All wells					Tubewell + protected well / All wells				
	Protected wells / Traditional wells					Protected wells / Traditional wells					Protected wells / Traditional wells				
	Tubewell / All wells					Tubewell / All wells	100%	100%			Tubewell / All wells	100%	100%		
	Protected springs / All springs					Protected springs / All springs					Protected springs / All springs				
	Protect. well & spring / well & spring					Protect. well & spring / well & spring	0%	49%			Protect. well & spring / well & spring	0%	49%		
Number of people covered by the census:					Number of people covered by the survey:					Number of people covered by the survey:					
Number of households covered by the census:					Number of households covered by the survey:					Number of households covered by the survey:					
Total population:					Total population:					Total population:					
Comments					Comments					Comments					

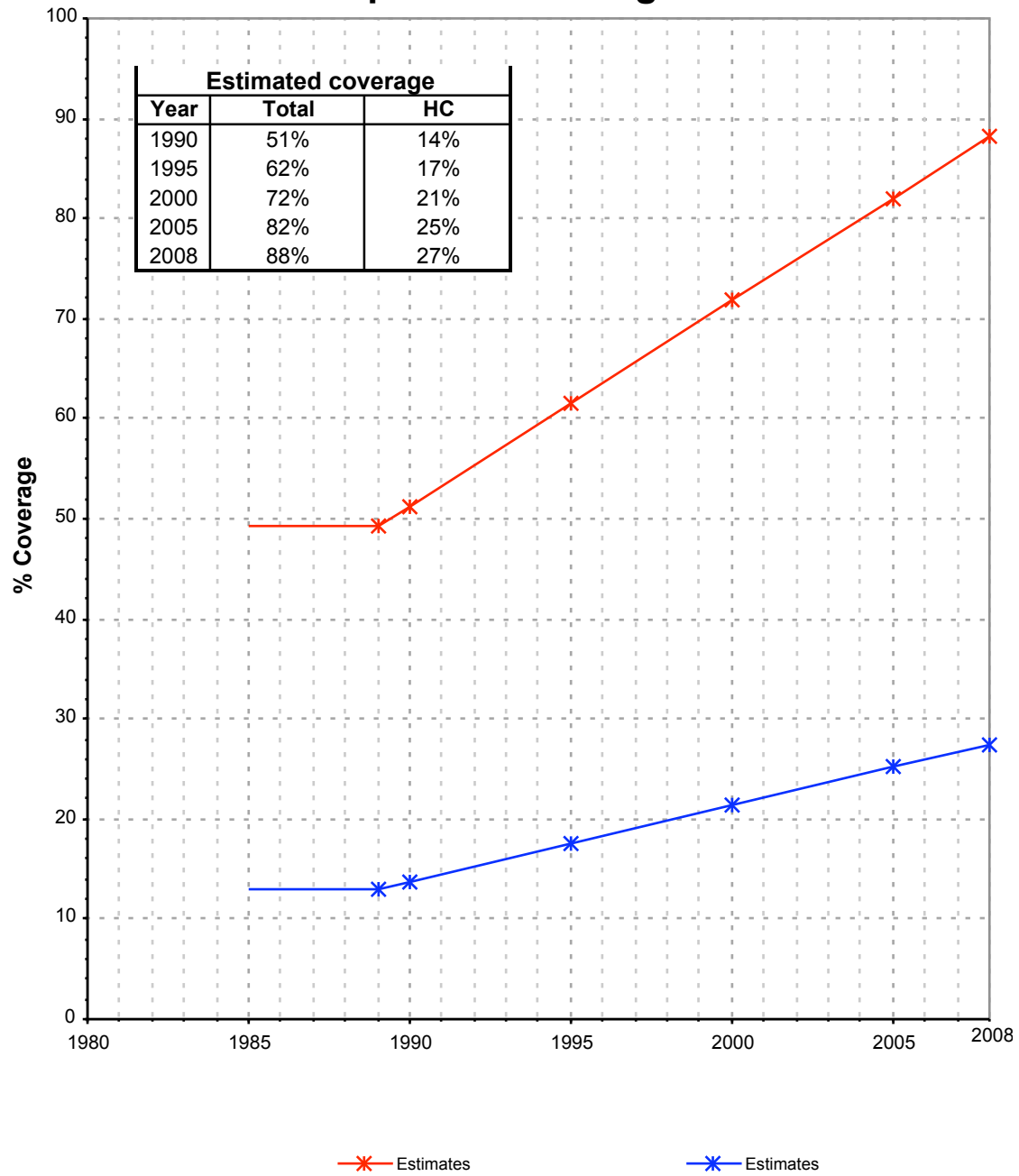
Access to drinking water sources		NHIE04			Namibia			Access to drinking water sources		DHS07			Namibia		
Household Income and Expenditure Survey					2004			Demographic and Health Survey					2007		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Piped water	Tap water	99.3	58.4			Tap water	96.5	55.9	72.6						
	House connections					House connections	80.7	23.1	46.8						
	Piped water into dwelling				Piped into dwelling/yard/plot	Piped water into dwelling	80.7	23.1	46.8						
	Piped water to yard/plot					Piped water to yard/plot									
	Public tap, standpipe				Standpipe	Public tap, standpipe	15.8	32.8	25.8						
	Other					Other									
	Ground water	0.2	20.3			Ground water	0.2	27.9	16.6						
	Protected ground water	0.2	20.3			Protected ground water	0.1	21.4	9.9						
	Unprotected ground water					Unprotected ground water	0.1	6.5	3.9						
	Protected wells or springs	0.2	20.3			Protected wells or springs	0.1	21.4	12.7						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.1	6.5	3.9						
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	0.2	20.3			All wells	0.1	26.7	15.8						
	Private					Private									
	Public					Public									
	Other					Other									
Borehole/protected wells	Tubewell, borehole	0.2	20.3		Tubewell/borehole	Tubewell, borehole	0.0	16.2	9.6						
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells					Traditional wells	0.1	10.5	6.2						
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well				Protected dug well	Protected well	0.0	4.8	2.8						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well				Unprotected dug well	Unprotected well	0.1	5.7	3.4						
	Private					Private									
	Public					Public									
	Other					Other									
	All springs					All springs	0.1	1.2	0.8						
	Private					Private									
	Public					Public									
	Other					Other									
	Protected spring				Protected spring	Protected spring	0.1	0.4	0.3						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected spring				Unprotected spring	Unprotected spring	0.0	0.8	0.5						
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater					Rainwater	0.0	2.0	1.2						
	Covered cistern/tank				Rainwater	Covered cistern/tank	0.0	2.0	1.2						
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water	0.8	0.0	0.3						
	with other improved					with other improved	0.7	0.0	0.3						
	without other improved					without other improved	0.1	0.0	0.0						
	Surface water	0.2	20.7			Surface water	0.2	12.2	7.3						
Flowing water	River	0.2	8.0			River									
	Lake					Lake									
	Dam					Dam									
Stagnant water	Pond	0.0	12.7			Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other				Surface water	Other	0.2	12.2	7.3						
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	0.1	0.5			Other non-improved	2.3	2.0	2.2						
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Other source	Other	0.1	0.5		Tanker truck/cart with small tank	Other	0.1	1.0	0.7						
	Other					Other	2.2	1.0	1.5						
	DK/missing					DK/missing									
	Total	99.8	99.9			Total	100.0	100.0	100.2						
Calculations					Calculations										
	Standpipe, based on WHS03	30.8	39.7												
Estimations					Estimations										
	HC based on WHS03	68.5	18.7												
Access to improved drinking water sources :		100%	79%		Access to improved drinking water sources :		97%	79%	84%						
Access to house connections :		69%	19%		Access to house connections :		81%	23%	47%						
	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	84%	41%							
	Public tap / Tap water					Public tap / Tap water	16%	59%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	0%	79%							
	Protected wells / Traditional wells					Protected wells / Traditional wells	0%	46%							
	Tubewell / All wells	100%	100%			Tubewell / All wells	0%	61%							
	Protected springs / All springs					Protected springs / All springs	100%	33%							
	Protect. well & spring / well & spring					Protect. well & spring / well & spring	50%	77%							
	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										

Namibia			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	CEN91	1991	82.0		99.3		12.8		53.2	
Demographic and Health Survey	DHS92	1992	81.8		97.7		13.0		52.8	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		82.0		100.0		32.7		67.3
Demographic and Health Survey	DHS00	2000	77.1		98.0		19.8		67.9	
Census	CEN01	2001	78.2		98.4		36.1		80.0	
World Health Survey	WHS03	2003	68.8		99.8		24.0		86.6	
Household Income and Expenditure Survey	NHIE04	2004	68.5		99.5		18.7		78.7	
Demographic and Health Survey	DHS07	2007	80.7		97.3		23.1		79.3	

Namibia - urban - Use of improved drinking water sources



Namibia - rural - Use of improved drinking water sources



Drinking Water

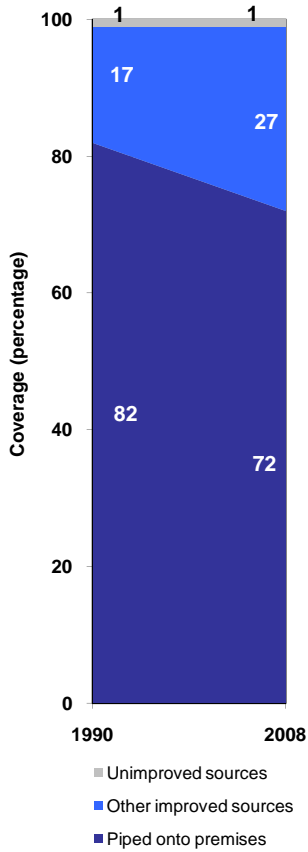
Namibia	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	82	72	14	27	33	44
Other improved source	17	27	37	61	31	48
Unimproved source	1	1	49	12	36	8

Source: WHO/UNICEF JMP, 2010

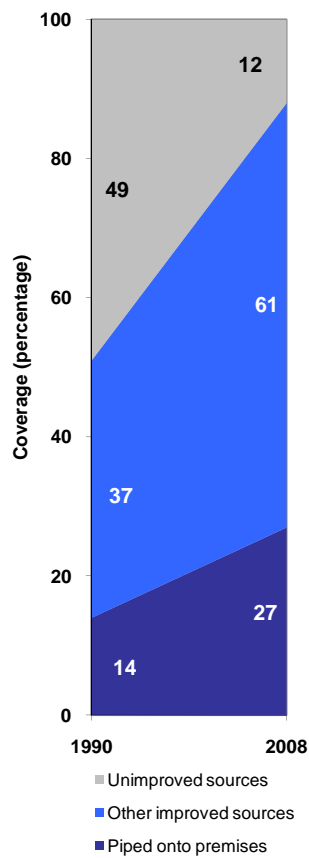
Namibia	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	392	784	1025	1346	1417	2130

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

