

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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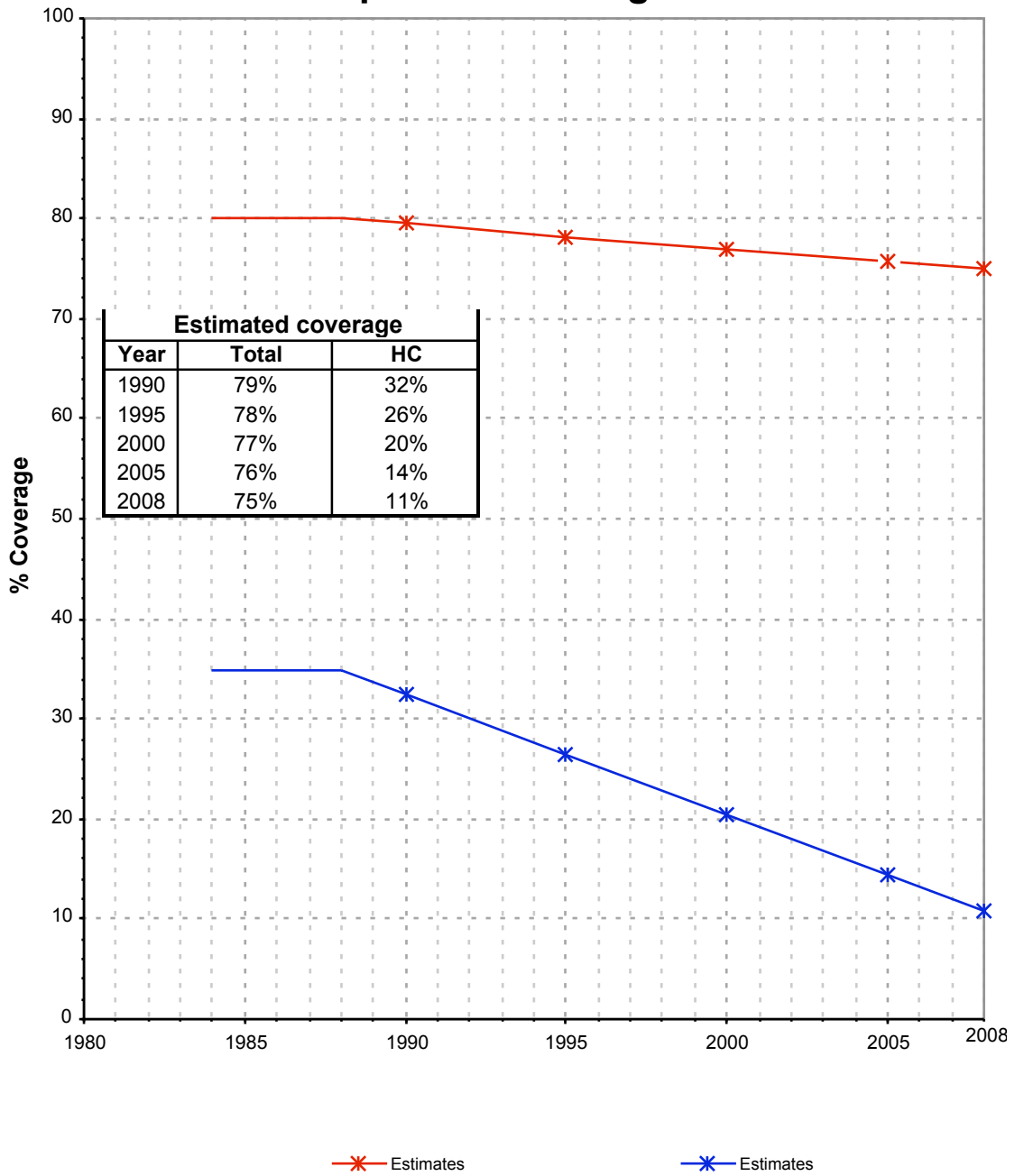
Access to drinking water sources		DHS90			Nigeria			Access to drinking water sources		CEN96			Nigeria		
Demographic and Health Survey					1990			Census					1996		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	63.3	11.7	24.7	Piped borne (treated & not)	Tap water	68.4	13.7							
	House connections	31.1	3.3	10.3		House connections									
Piped into residence	Piped water into dwelling	17.3	1.5	5.5		Piped water into dwelling									
Piped into yard	Piped water to yard/plot	13.8	1.8	4.8		Piped water to yard/plot									
Public tap	Public tap, standpipe	32.2	8.4	14.4		Public tap, standpipe									
	Other					Other									
	Ground water	22.2	34.9	31.7		Ground water	25.2	47.4							
	Protected ground water	7.4	6.8	7.0		Protected ground water	1.7	5.6							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	7.4	6.8	7.0		Protected wells or springs	1.7	5.6							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	22.2	34.9	31.7		All wells	25.2	47.4							
	Private					Private	2.4	2.0							
	Public					Public	21.0	39.8							
	Other					Other									
Well without handpump	Tubewell, borehole	14.8	28.1	24.7	Borehole	Tubewell, borehole	1.7	5.6							
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	7.4	6.8	7.0		Traditional wells	23.5	41.9							
	Private				Well (Piped into household)	Private	2.4	2.0							
	Public				Well (Unpiped into household)	Public	21.0	39.8							
	Other					Other									
Well with handpump	Protected well	7.4	6.8	7.0		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	0.3	0.7	0.6		Rainwater									
Rain water	Covered cistern/tank	0.3	0.7	0.6		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									
River, spring, surface water	Surface water	4.9	51.9	40.0		Surface water	6.3	36.3							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond				Pond	Pond	1.7	0.6							
	Stream				Stream	Stream	3.6	35.7							
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	9.3	0.7	2.9		Other non-improved	1.5	2.7							
	Cart with small tank/drum					Cart with small tank/drum									
Tanker truck, other vendor	Tanker truck provided	8.9	0.7	2.8		Tanker truck provided									
Other	Other	0.4	0.0	0.1	Others	Other	1.5	2.7							
	Other					Other									
	DK/missing					DK/missing									
	Total	100.0	99.9	99.9		Total	100.4	100.1							
Calculations					Calculations										
Estimations	50% of wells without handpump estimated to be protected	7.4	14.1	12.4	Estimations	50% of traditional wells considered improved	11.7	20.9							
						HC, based on DHS90	33.6	3.9							
Access to improved drinking water sources :		78%	33%	45%	Access to improved drinking water sources :		82%	40%							
Access to house connections :		31%	3%	10%	Access to house connections :		34%	4%							
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	49%	28%		Ratios	HC / Tap water									
	Public tap / Tap water	51%	72%			Public tap / Tap water									
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells	100%	100%			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 census									
	Number of households covered by the survey					Number of households covered by the census									
	Total population					Total population									
Comments					Comments	NOTE: Census was in 1991 Data seem to be from the 1992 General Household Survey.									

Access to drinking water sources		DHS99			Nigeria			Access to drinking water sources		JMP99			Nigeria		
Demographic and Health Survey					1999			Global Water Supply and Sanitation Assessment 2000.					1999		
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999			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
Piped in residence/yard/plot	Tap water				49.8	13.2	24.2	Population served with household connection	Tap water				16.0	15.0	
	House connections				24.0	3.7	9.8		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				25.8	9.5	14.4		Public tap, standpipe						
	Other								Other						
	Ground water				40.0	48.0	45.6	Population without household connection but with reasonable access to a public	Ground water				42.0	24.0	
	Protected ground water				12.4	9.1	10.1		Protected ground water				42.0	24.0	
	Unprotected ground water								Unprotected ground water						
	Protected wells or springs				12.4	9.1	10.1		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				38.9	44.0	42.5		All wells						
	Private				16.9	15.1	15.7		Private						
	Public				9.6	19.8	16.7		Public						
	Other								Other						
Borehole	Tubewell, borehole				12.4	9.1	10.1		Tubewell, borehole						
	Private								Private						
	Public								Public						
	Other								Other						
	Traditional wells				26.5	34.9	32.4		Traditional wells						
	Private				16.9	15.1	15.7		Private						
	Public				9.6	19.8	16.7		Public						
	Other								Other						
Well in residence/yard/plot	Protected well								Protected well						
	Private								Private						
	Public								Public						
	Other								Other						
Public well	Unprotected well								Unprotected well						
	Private								Private						
	Public								Public						
	Other								Other						
Spring	All springs				1.1	4.0	3.1		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				0.3	0.8	0.6		Rainwater						
Rainwater	Covered cistern/tank				0.3	0.8	0.6		Covered cistern/tank						
	Uncovered cistern/tank								Uncovered cistern/tank						
	Bottled water				0.4	0.1	0.2		Bottled water						
	with other improved								with other improved						
Bottled water	without other improved				0.4	0.1	0.2		without other improved						
	Surface water				4.1	34.1	24.9		Surface water						
River/stream	River				3.2	32.2	23.4		River						
	Lake								Lake						
Dam	Dam				0.4	0.3	0.3		Dam						
Pond/lake	Pond				0.5	1.6	1.2		Pond						
	Stream								Stream						
	Irrigation channel								Irrigation channel						
	Other								Other						
	Other improved sources								Other improved sources						
	Other								Other						
	Other								Other						
	Other non-improved				4.2	2.7	3.2	Total population unserved	Other non-improved				42.0	61.0	
Tanker vendor	Cart with small tank/drum				2.0	1.2	1.4		Cart with small tank/drum						
Tanker truck	Tanker truck provided				1.6	1.1	1.3		Tanker truck provided						
Other	Other				0.6	0.4	0.5		Other						
Missing	DK/missing				1.0	1.0	1.0		DK/missing						
	Total				99.8	99.9	99.7		Total				100.0	100.0	
Calculations								Calculations							
Estimations	Protected wells based on DHS03				16.8	11.6		Estimations							
	50% of springs estimated to be improved				0.4	0.8									
Access to improved drinking water sources :					80%	35%	35%	Access to improved drinking water sources :					58%	39%	
Access to house connections :					24%	4%	10%	Access to house connections :					16%	15%	
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				48%	28%		Ratios	HC / Tap water				100%	100%	
	Public tap / Tap water				52%	72%			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				32%	21%			Tubewell / All wells						
	Protected springs / All springs								Protected springs / All springs						
	Protect. well & spring / well & spring								Protect. well & spring / well & spring						
Rainwater/rainwater+surface water				7%	2%	2%									
Number of people covered by the survey								Number of people covered by the survey:					52280	52280	
Number of households covered by the survey								Number of households covered by the survey:							
Total population:								Total population:							
Comments								Comments							

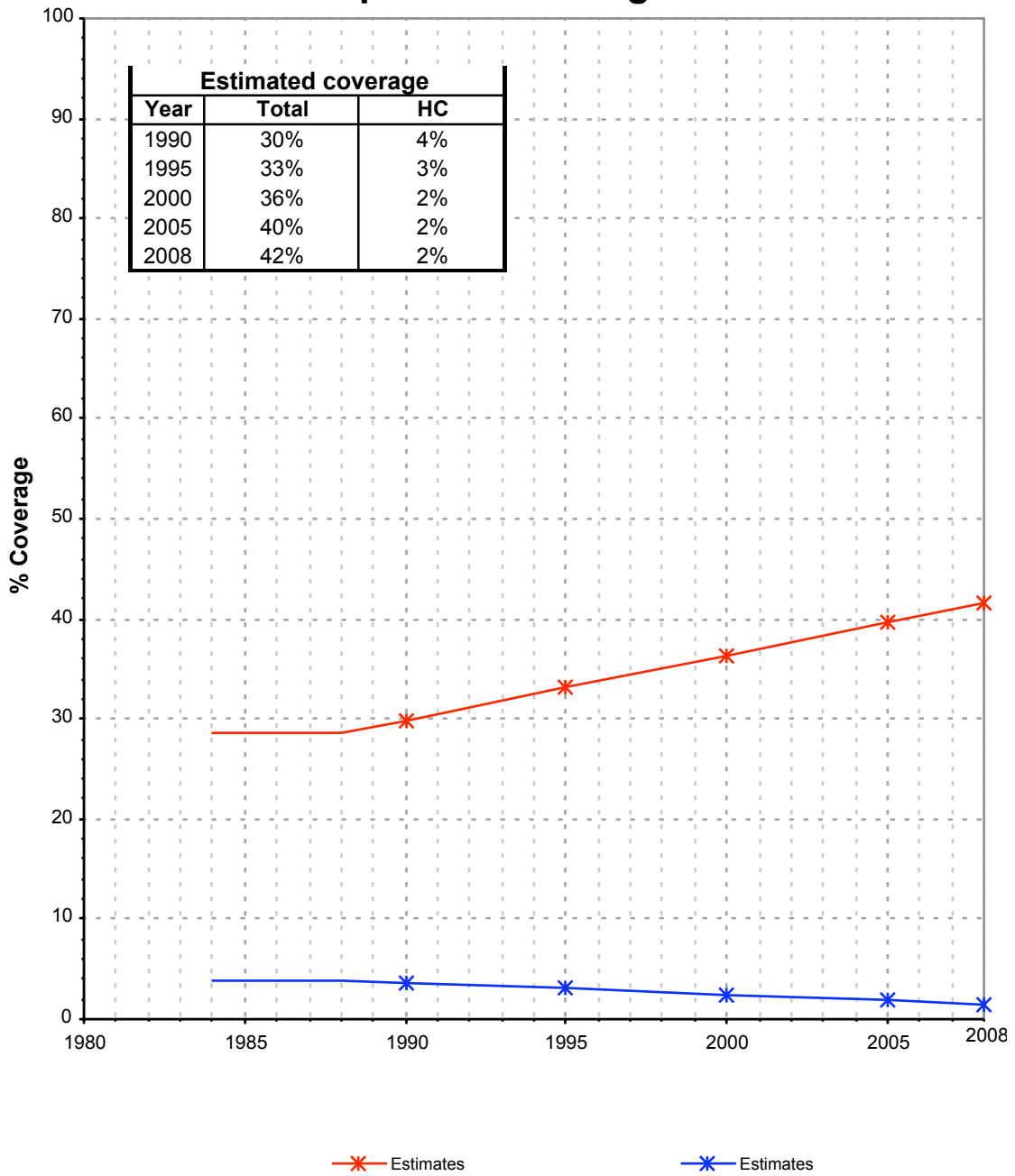
Access to drinking water sources		NLSS04			Nigeria			Access to drinking water sources		CWIQ06			Nigeria		
Nigerian Living Standard Survey					Core Welfare Indicator Questionnaire										
Nigerian Bureau of Statistics					Nigerian Bureau of Statistics										
2004					2006										
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Pipe borne	Tap water	41.4	8.0	23.1	Pipe borne water	Tap water	28.9	6.4	14.0						
	House connections					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									
	Ground water	46.6	57.9	52.8		Ground water	53.2	57.4	56.0						
	Protected ground water	41.6	34.2	37.5		Protected ground water	47.9	35.0	39.4						
	Unprotected ground water	5.0	23.7	15.3		Unprotected ground water	5.3	22.4	16.6						
	Protected wells or springs	41.6	34.2	37.5		Protected wells or springs	47.9	35.0	39.4						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	5.0	23.7	15.3		Unprotected wells or springs	5.3	22.4	16.6						
	Private					Private									
	Public					Public									
	Other	5.0	23.7	15.3		Other									
	All wells	46.6	57.9	52.8		All wells	53.2	57.4	56.0						
	Private					Private									
	Public					Public									
	Other	5.0	23.7	15.3		Other									
Borehole, handpump	Tubewell, borehole	22.4	17.2	19.5	Borehole or handpump	Tubewell, borehole	31.2	19.0	23.2						
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	24.2	40.7	33.3		Traditional wells	22.0	38.4	32.8						
	Private					Private									
	Public					Public									
	Other	5.0	23.7	15.3		Other									
Protected well	Protected well	19.2	17.0	18.0	Protected well	Protected well	16.7	16.0	16.2						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well				Unprotected well	Unprotected well	5.3	22.4	16.6						
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected well or rainwater	All springs	5.0	23.7	15.3		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	Rainwater	0.4	0.8	0.7						
	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									
River, lake, pond	Surface water	3.7	28.3	17.2	River, lake, pond	Surface water	5.3	27.4	19.9						
	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 non-improved	8.3	5.7	6.9		Other non-improved	12.2	8.1	9.4						
	Cart with small tank/drum					Cart with small tank/drum									
Vendor or tanker truck	Tanker truck provided	7.3	2.2	4.5	Vendor truck	Tanker truck provided	10.1	5.0	6.7						
Others	Other	1.0	3.5	2.4	Other	Other	2.1	3.1	2.7						
	Other					Other									
	DK/missing					DK/missing									
	Total	100.0	99.9	100.0		Total	100.0	100.1	100.0						
Calculations	Pipe borne	37.1	5.9	20.0	Calculations	Pipe borne water treated	25.5	5.0	11.9						
	Untreated pipe	4.3	2.1	3.1		Pipe borne water untreated	3.4	1.4	2.1						
Estimations					Estimations										
	HC, based on DHS03	19.8	2.5			HC, based on MICS07	12.5	1.3							
Access to improved drinking water sources :				83%	42%	61%	Access to improved drinking water sources :				77%	41%	53%		
Access to house connections :				20%	2%		Access to house connections :				13%	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				Ratios	HC / Tap water									
	Public tap / Tap water					Public tap / Tap water									
	Tubewell + protected well / All wells	89%	59%			Tubewell + protected well / All wells	90%	61%							
	Protected wells / Traditional wells	79%	42%			Protected wells / Traditional wells	76%	42%							
	Tubewell / All wells	48%	30%			Tubewell / All wells	59%	33%							
	Protected springs / All springs					Protected springs / All springs									
Protect. well & spring / well & spring	89%	59%		Protect. well & spring / well & spring	90%	61%									
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										

Nigeria			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	DHS90	1990	31.1		78.4		3.3		33.3	
Census	CEN96	1996		33.6		81.8		3.9		40.2
Multiple Indicator Cluster Survey	MICS95	1995								
Multiple Indicator Cluster Survey	MICS99	1999		21.1		70.5		1.9		48.0
Demographic and Health Survey	DHS99	1999	24.0		79.7		3.7		35.5	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		16.0		58.0		15.0		39.0
Child Labour Survey	CLS00	2000	20.5		80.9		1.8		34.2	
Demographic and Health Survey	DHS03	2003	15.5		63.0		2.5		28.3	
Nigerian Living Standard Survey	NLSS04	2004	19.8		83.0		2.5		42.2	
Core Welfare Indicator Questionnaire	CWIQ06	2006	12.5		76.8		1.3		41.4	
General Household Survey	GHS06	2006	11.0		74.9		1.0		37.8	
Multiple Cluster Indicator Survey	MICS07	2007	12.6		75.7		1.1		37.4	
Nigeria Water Supply and Sanitation Baseline Survey	BLS08	2008	12.7		69.3		2.3		49.8	
Demographic and Health Survey	DHS08	2008	7.9		79.7		1.5		43.8	

Nigeria - urban - Use of improved drinking water sources



Nigeria - rural - Use of improved drinking water sources



Drinking Water

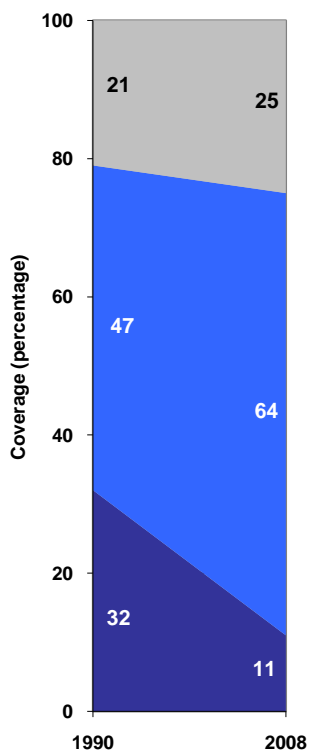
Nigeria	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	32	11	4	2	14	6
Other improved source	47	64	26	40	33	52
Unimproved source	21	25	70	58	53	42

Source: WHO/UNICEF JMP, 2010

Nigeria	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	34,343	73,123	62,995	78,089	97,338	151,212

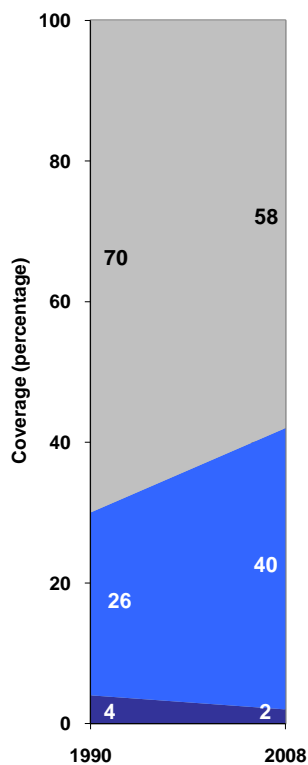
Source: UN / Population Division, 2008

Urban drinking water trends



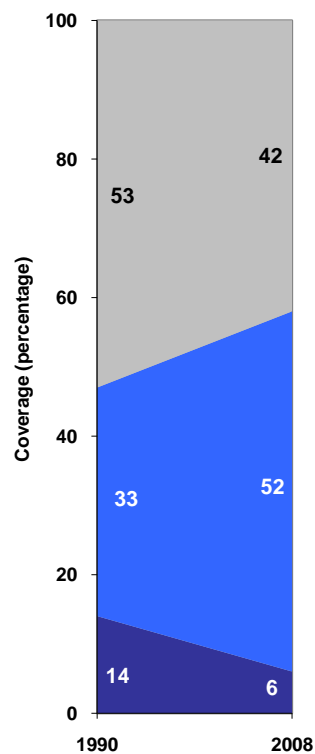
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises
■ Other improved sources
■ Unimproved sources

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises