

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		CEN88			Tanzania			Access to drinking water sources		DHS92			Tanzania		
Census		as recorded in the Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999			1988			Demographic and Health Survey		1992					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	79.5	18.5			Tap water	75.9	18.3							
	House connections	27.4	5.8		Piped in house, yard	House connections	38.6	2.4							
Piped Within	Piped water into dwelling	27.4	5.8			Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
Piped Water Outside	Public tap, standpipe	52.1	12.7		Public tap	Public tap, standpipe	37.3	15.9							
	Other					Other									
	Ground water	17.2	60.5	0.0		Ground water	16.3	47.3							
	Protected ground water					Protected ground water									
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs					Protected wells or springs	0.0	0.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.0	0.0							
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	17.2	60.5	0.0		All wells	14.5	35.4							
Well Water Within	Private	5.7	22.3		Well in house, yard	Private	1.0	1.3							
Well Water Outside	Public	11.5	38.2		Public well	Public	13.6	34.2							
	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				Spring	All springs	1.7	11.8							
	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	0.6	6.8			Rainwater	0.0	0.3							
Other Supply Within (Rainwater)	Covered cistern/tank	0.6	6.8		Rainwater	Covered cistern/tank	0.0	0.3							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
Other Supply Outside (River, Pond, Lake, Stream)	Surface water	2.7	14.2			Surface water	5.5	30.1							
	River				River/ Stream	River	3.9	22.3							
	Lake					Lake									
	Dam				Dam	Dam	0.0	2.2							
	Pond				Pond/ Lake	Pond	1.5	5.4							
	Stream					Stream									
	Irrigation channel				Irrigation ditch	Irrigation channel	0.0	0.3							
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved					Other non-improved	1.8	3.1							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Tanker truck	Tanker truck provided	0.3	0.0							
	Other				Other	Other	1.5	3.1							
	Other					Other									
	DK/missing				Missing Information	DK/missing	0.7	1.0							
	Total	100.0	100.0	0.0		Total	100.0	100.0							
Calculations					Calculations										
Estimations	Protected Well based on ratio DHS99	14.4	37.0			Protected Well based on ratio DHS99	12.2	21.6							
						Protected Spring based on ratio DHS99	0.8	4.5							
						HC corrected for Neighbour's tap water, based on LSMS93	29.5	0.9							
Access to improved drinking water sources :		94%	62%		Access to improved drinking water sources :		89%	45%							
Access to house connections :		27%	6%		Access to house connections :		30%	1%							
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	34%	31%		Ratios	HC / Tap water	51%	13%							
	Public tap / Tap water	66%	69%			Public tap / Tap water	49%	87%							
	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	24%	28%							
Number of people covered by the census		4247	18928		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					Comments										

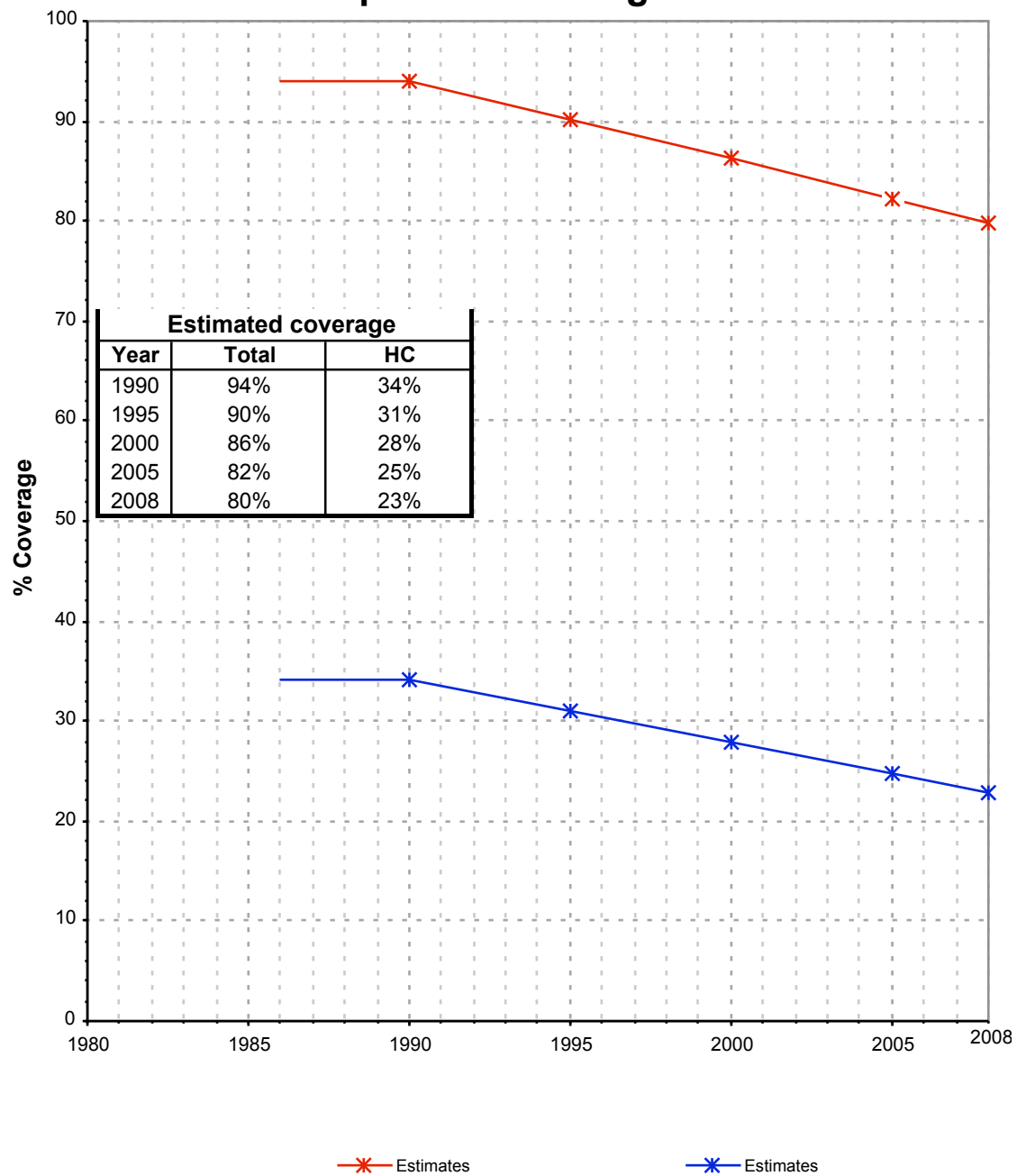
Access to drinking water sources		LSMS93			Tanzania			Access to drinking water sources		DHS94			Tanzania		
Living Standards Measurement Survey					1993			Demographic and Health Survey					1994		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	85.2	23.5			Tap water	82.5	20.0							
	House connections	33.2	1.1			House connections	37.1	1.3							
INDOOR PLUMBING	Piped water into dwelling	11.1	0.3		Piped into residence	Piped water into dwelling	37.1	1.3							
INSIDE STANDPIPE	Piped water to yard/plot	22.1	0.8			Piped water to yard/plot									
PRIVATE & PUBLIC STANDPIPE/TAP	Public tap, standpipe	29.3	21.1		Public tap	Public tap, standpipe	45.4	18.7							
NEIGHBORING HOUSEHOLD	Other	22.7	1.3			Other									
	Ground water	9.3	36.2			Ground water	14.2	50.5							
	Protected ground water					Protected ground water									
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	3.2	8.7			Protected wells or springs	0.0	0.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	6.1	27.5			Unprotected wells or springs	0.0	0.0							
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	9.3	36.2			All wells	13.5	34.0							
	Private				Well in residence	Private	0.7	0.9							
	Public				Public well	Public	12.8	33.1							
	Other					Other									
	Tubewell, borehole					Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	9.3	36.2			Traditional wells									
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well	3.2	8.7			Protected well									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well	6.1	27.5			Unprotected well									
	Private					Private									
	Public					Public									
	Other					Other									
	All springs				Spring	All springs	0.7	16.5							
	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	0.0	0.0			Rainwater	0.0	0.1							
RAINWATER	Covered cistern/tank	0.0	0.0		Rainwater	Covered cistern/tank	0.0	0.1							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
RIVER, LAKE, SPRING, POND	Surface water	3.5	40.2			Surface water	2.2	28.7							
	River				River/ Stream	River	0.8	23.3							
	Lake					Lake									
	Dam				Dam	Dam	0.1	2.2							
	Pond				Pond/ Lake	Pond	1.3	3.2							
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	1.9	0.0			Other non-improved									
WATER VENDOR	Cart with small tank/drum	1.4	0.0			Cart with small tank/drum									
WATER TRUCK/TANKER SERVICE	Tanker truck provided	0.2				Tanker truck provided									
OTHER	Other	0.3				Other									
	Other				Missing Information	Other									
	DK/missing					DK/missing	1.1	0.6							
	Total	99.9	99.9			Total	100.0	99.9							
Calculations	Springs, based on DHS92 and DHS94	0.8	13.0		Calculations										
Estimations	Protected Spring based on ratio DHS99	0.4	5.0		Estimations	Protected Well based on ratio DHS99	11.3	20.8							
						Protected Spring based on ratio DHS99	0.3	6.3							
						HC corrected for Neighbour's tap water, based on LSMS93	32.1	0.9							
Access to improved drinking water sources :		89%	37%		Access to improved drinking water sources :		94%	47%							
Access to house connections :		33%	1%		Access to house connections :		32%	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	39%	5%		Ratios	HC / Tap water	45%	7%							
	Public tap / Tap water	34%	90%			Public tap / Tap water	55%	94%							
	Tubewell + protected well / All wells	34%	24%			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									
	Public and Neighbour's tap among Tap water	61%	95%			Spring among surface water	24%	37%							
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										

Access to drinking water sources		DHS99		Tanzania		Access to drinking water sources		JMP99		Tanzania					
Reproductive and Child Health Survey				1999				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	Original denomination	Classification	Urban	Rural	Total	
	Tap water	80.1	22.3	37.5		Tap water	18.5	0.7			Tap water	18.5	0.7		
	House connections	48.2	4.1	15.7	Population served with household connection.	House connections					House connections				
Piped into residence	Piped water into dwelling	9.0	1.0	3.1		Piped water into dwelling					Piped water into dwelling				
Piped into yard	Piped water to yard/plot	39.2	3.1	12.6		Piped water to yard/plot					Piped water to yard/plot				
Public tap	Public tap, standpipe	31.9	18.2	21.8		Public tap, standpipe					Public tap, standpipe				
	Other					Other					Other				
	Ground water	15.1	60.6	48.7		Ground water	60.0	34.9			Ground water	60.0	34.9		
	Protected ground water					Protected ground water					Protected ground water				
	Unprotected ground water					Unprotected ground water					Unprotected ground water				
	Protected wells or springs	12.0	34.0	28.2	Population without household connection but with reasonable access to a public.	Protected wells or springs	60.0	34.9			Protected wells or springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected wells or springs	3.1	26.6	20.5		Unprotected wells or springs					Unprotected wells or springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All wells	13.4	47.3	38.4		All wells					All wells				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Borehole or tube well	Tubewell, borehole	6.0	10.4	9.2		Tubewell, borehole					Tubewell, borehole				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Traditional wells	7.4	36.9	29.2		Traditional wells					Traditional wells				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Protected dug well	Protected well	5.2	18.5	15.0		Protected well					Protected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Unprotected well	Unprotected well	2.2	18.4	14.2		Unprotected well					Unprotected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	All springs	1.7	13.3	10.3		All springs					All springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Protected spring	Protected spring	0.8	5.1	4.0		Protected spring					Protected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
Unprotected spring	Unprotected spring	0.9	8.2	6.3		Unprotected spring					Unprotected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Rainwater					Rainwater					Rainwater				
	Covered cistern/tank					Covered cistern/tank					Covered cistern/tank				
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank				
	Bottled water					Bottled water					Bottled water				
	with other improved					with other improved					with other improved				
	without other improved					without other improved					without other improved				
Pond, river stream	Surface water	1.9	16.9	13.0		Surface water					Surface water				
	River					River					River				
	Lake					Lake					Lake				
	Dam					Dam					Dam				
	Pond					Pond					Pond				
	Stream					Stream					Stream				
	Irrigation channel					Irrigation channel					Irrigation channel				
	Other					Other					Other				
	Other improved sources					Other improved sources					Other improved sources				
	Other					Other					Other				
	Other					Other					Other				
	Other non-improved	2.7	0.1	0.8	Total population unserved	Other non-improved	21.5	64.4			Other non-improved	21.5	64.4		
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
Tanker, truck	Tanker truck provided	2.7	0.1	0.8		Tanker truck provided					Tanker truck provided				
	Other					Other					Other				
	Other					Other					Other				
	DK/missing					DK/missing					DK/missing				
	Total	99.8	99.9	100.0		Total	100.0	100.0			Total	100.0	100.0		
Calculations						Calculations									
Estimations						Estimations									
	HC corrected for Neighbour's tap water, based on HBS01	33.3	2.3												
Access to improved drinking water sources :		92%	56%	66%		Access to improved drinking water sources :		78%	36%						
Access to house connections :		33%	2%			Access to house connections :		18%	1%						
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	42%	10%			Ratios	HC / Tap water	100%	100%						
	Public tap / Tap water	40%	82%				Public tap / Tap water								
	Tubewell + protected well / All wells	84%	61%				Tubewell + protected well / All wells								
	Protected wells / Traditional wells	70%	50%				Protected wells / Traditional wells								
	Tubewell / All wells	45%	22%				Tubewell / All wells								
	Protected springs / All springs	47%	38%				Protected springs / All springs								
Number of people covered by the survey:						Number of people covered by the survey:		6553	24503						
Number of households covered by the survey:						Number of households covered by the survey:									
Total population:						Total population:									
Comments						Comments									

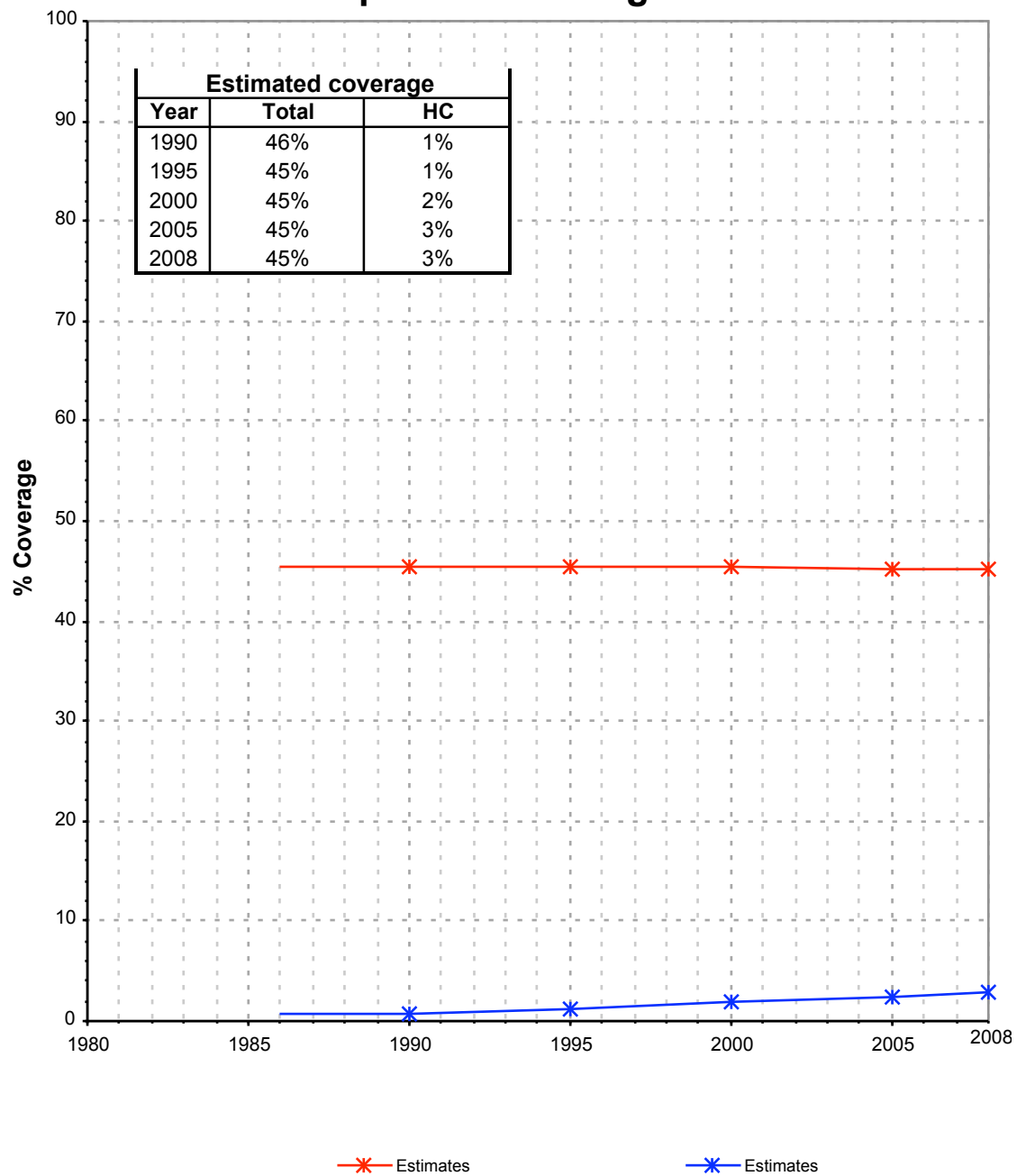
Access to drinking water sources		AIS03			Tanzania			Access to drinking water sources		DHS05			Tanzania		
HIV/Aids Indicator Survey					2003			Macro-International					2005		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	60.8	23.6	33.6		Tap water	66.9	22.4							
	House connections	40.3	4.4	14.0		House connections	18.6	2.1							
Piped into dwelling	Piped water into dwelling	14.0	0.5	4.1	Piped into dwelling/yard/plot	Piped water into dwelling									
Piped into yard/plot	Piped water to yard/plot	26.3	3.9	9.9		Piped water to yard/plot									
Public tap	Public tap, standpipe	20.5	19.2	19.6	Public tap	Public tap, standpipe	15.5	16.8							
	Other				Neighbor's tap	Other	32.8	3.5							
	Ground water	24.9	52.3	44.9		Ground water	19.9	53.2							
	Protected ground water					Protected ground water									
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs	18.1	18.9	18.6		Protected wells or springs	10.1	14.7							
	Private					Private	0.5	0.1							
	Public					Public	6.3	14.4							
	Other					Other	3.3	0.2							
	Unprotected wells or springs	6.8	33.4	26.3		Unprotected wells or springs	8.2	30.3							
	Private					Private	1.0	0.6							
	Public					Public	5.2	28.5							
	Other					Other	2.0	1.2							
	All wells	22.3	41.4	36.3		All wells	18.3	45.0							
	Private					Private	1.5	0.7							
	Public					Public	11.5	42.9							
	Other					Other	5.3	1.4							
Borehole or tube well	Tubewell, borehole	10.8	12.5	12.0		Tubewell, borehole	3.3	0.2							
	Private					Private									
	Public					Public									
	Other				Neighbor's borehole	Other	3.3	0.2							
	Traditional wells	11.5	28.9	24.3		Traditional wells	15.0	44.8							
	Private					Private	1.5	0.7							
	Public					Public	11.5	42.9							
	Other					Other	2.0	1.2							
Protected/Covered well	Protected well	6.0	5.0	5.3		Protected well	6.8	14.5							
	Private				Protected well in dwelling/yard/plot	Private	0.5	0.1							
	Public				Protected public well	Public	6.3	14.4							
	Other					Other									
Water from open well	Unprotected well	5.5	23.9	19.0		Unprotected well	8.2	30.3							
	Private				Open well in dwelling/yard/plot	Private	1.0	0.6							
	Public				Open public well	Public	5.2	28.5							
	Other				Neighbors open well	Other	2.0	1.2							
	All springs	2.6	10.9	8.6	Spring	All springs	1.6	8.2							
	Private					Private									
	Public					Public									
	Other					Other									
Protected spring	Protected spring	1.3	1.4	1.3		Protected spring									
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected spring	Unprotected spring	1.3	9.5	7.3		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	1.1	23.3	17.3		Surface water	4.7	23.5							
River stream	River	0.5	16.5	12.2	River, stream	River	1.6	17.7							
	Lake					Lake									
	Dam					Dam									
Pond, lake dam	Pond	0.6	6.8	5.1	Pond/lake/dam	Pond	3.1	5.8							
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	12.9	0.8	4.1		Other non-improved	8.7	0.9							
	Cart with small tank/drum				Water vendor	Cart with small tank/drum	4.0	0.3							
Tanker, truck	Tanker truck provided	11.9	0.6	3.7	Tanker truck	Tanker truck provided	3.2	0.5							
Other	Other	1.0	0.2	0.4	Other	Other	1.5	0.1							
	Other					Other									
	DK/missing					DK/missing									
	Total	99.7	100.0	99.9		Total	100.2	100.0							
Calculations					Calculations										
Estimations					Estimations										
						Protected Spring based on ratio AIS03 & DHS05	0.8	4.1							
	HC corrected for Neighbour's water, based on average value of HBS01 and DHS05	21.1	2.3												
Access to improved drinking water sources : 79% 43% 52%					Access to improved drinking water sources : 78% 41%										
Access to house connections : 21% 2%					Access to house connections : 19% 2%										
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	66%	19%		Ratios	HC / Tap water	28%	9%							
	Public tap / Tap water	34%	81%			Public tap / Tap water	23%	75%							
	Tubewell + protected well / All wells	75%	42%			Tubewell + protected well / All wells	55%	33%							
	Protected wells / Traditional wells	52%	17%			Protected wells / Traditional wells	45%	32%							
	Tubewell / All wells	48%	30%			Tubewell / All wells	18%	0%							
	Protected springs / All springs	50%	13%			Protected springs / All springs									
						Public and Neighbour's tap among Tap water	72%	91%							
	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										

Tanzania			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	CEN88	1988		27.4		94.5		5.8		62.3
Demographic and Health Survey	DHS92	1992	29.5		88.8		0.9		44.7	
Living Standarts Measurement Survey	LSMS93	1993	33.2		88.8		1.1		37.2	
Demographic and Health Survey	DHS94	1994	32.1		94.1		0.9		47.2	
Demographic and Health Survey	DHS96	1996	30.3		90.7		1.2		51.1	
Multiple Indicator Cluster Survey	MICS96	1996	28.6			79.2	1.2		44.1	
Reproductive and Child Health Survey	DHS99	1999	33.3		92.1		2.3		56.3	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		18.5		78.5		0.7		35.6
Household Budget Survey	HBS01	2001	32.2		89.0		2.9		45.9	
Census	CEN02	2002	29.5		85.9		2.2		42.9	
HIV/Aids Indicator Survey	AIS03	2003	21.1		78.9		2.3		42.5	
Demographic and Health Survey	DHS05	2005	18.6		77.8		2.1		41.2	
Aids Indicator Survey	AIS08	2008	24.5		81.2		2.6		46.2	

U. Rep of Tanzania - urban - Use of improved drinking water sources



U. Rep of Tanzania - rural - Use of improved drinking water sources



Drinking Water

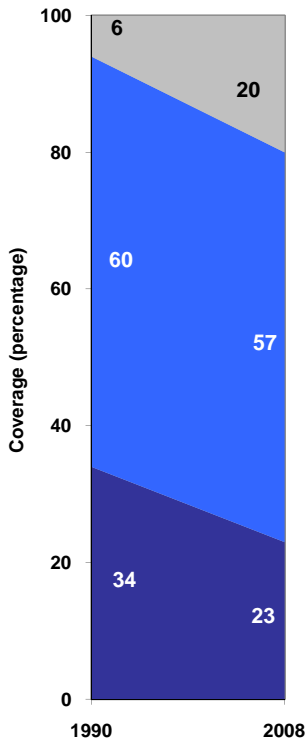
Tanzania	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	34	23	1	3	7	8
Other improved source	60	57	45	42	48	46
Unimproved source	6	20	54	55	45	46

Source: WHO/UNICEF JMP, 2010

Tanzania	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	4 807	10 822	20648	31662	25455	42484

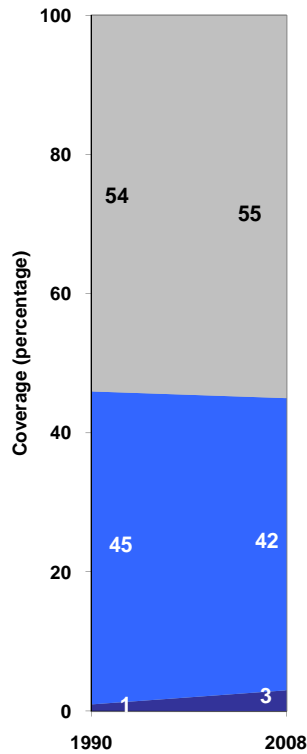
Source: UN / Population Division, 2008

Urban drinking water trends



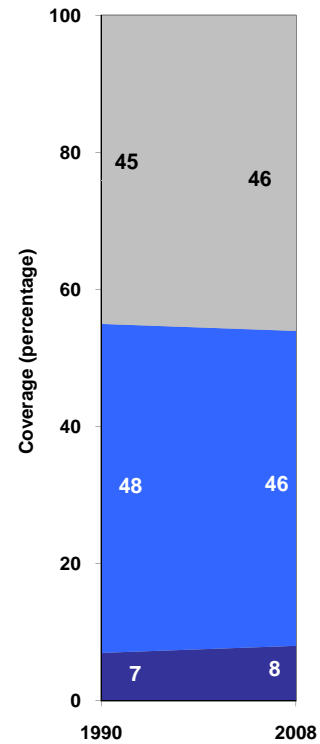
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises