

**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](http://childinfo.org)



Access to drinking water sources		CEN97			Mozambique			Access to drinking water sources		DHS97			Mozambique		
Census as recorded in the Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999.					1997			Demographic and Health Survey GOM-UNICEF					1997		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	
	<b>Tap water</b>	54.1	4.0			<b>Tap water</b>	70.6	8.7			<b>Tap water</b>	70.6	8.7		
	House connections	34.7	1.0			House connections	23.4	0.6			House connections	23.4	0.6		
Household Connection	Piped water into dwelling	10.9	0.2		Own piped connection	Piped water into dwelling	23.4	0.6			Piped water into dwelling	23.4	0.6		
Yard Tap	Piped water to yard/plot	23.8	0.8			Piped water to yard/plot					Piped water to yard/plot				
Standpipe	Public tap, standpipe	19.4	3.0		Public standpipe	Public tap, standpipe	23.7	6.9			Public tap, standpipe	23.7	6.9		
	Other				Neighbour's piped connection	Other	23.5	1.2			Other	23.5	1.2		
	<b>Ground water</b>	40.9	72.8			<b>Ground water</b>	27.4	54.6			<b>Ground water</b>	27.4	54.6		
	Protected ground water					Protected ground water					Protected ground water				
	Unprotected ground water					Unprotected ground water					Unprotected ground water				
	Protected wells or springs	7.3	10.4			Protected wells or springs					Protected wells or springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected wells or springs					Unprotected wells or springs					Unprotected wells or springs				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	<b>All wells</b>	40.9	72.8			<b>All wells</b>	27.4	54.6			<b>All wells</b>	27.4	54.6		
	Private				Own well	Private	5.7	2.8			Private	5.7	2.8		
	Public				Public well	Public	6.3	47.7			Public	6.3	47.7		
	Other				Neighbour's well	Other	15.4	4.1			Other	15.4	4.1		
Borehole	Tubewell, borehole	7.3	10.4			Tubewell, borehole					Tubewell, borehole				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	<b>Traditional wells</b>	33.5	62.4			<b>Traditional wells</b>					<b>Traditional wells</b>				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Protected well					Protected well					Protected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected well					Unprotected well					Unprotected well				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	<b>All springs</b>					<b>All springs</b>					<b>All springs</b>				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Protected spring					Protected spring					Protected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	Unprotected spring					Unprotected spring					Unprotected spring				
	Private					Private					Private				
	Public					Public					Public				
	Other					Other					Other				
	<b>Rainwater</b>					<b>Rainwater</b>	0.2	0.5			<b>Rainwater</b>	0.2	0.5		
	Covered cistern/tank				Rainwater	Covered cistern/tank	0.2	0.5			Covered cistern/tank	0.2	0.5		
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank				
	<b>Bottled water</b>					<b>Bottled water</b>					<b>Bottled water</b>				
	with other improved					with other improved					with other improved				
	without other improved					without other improved					without other improved				
	<b>Surface water</b>	4.3	21.8			<b>Surface water</b>	7.5	35.8			<b>Surface water</b>	7.5	35.8		
River or Lake	River	4.3	21.8		River	River	1.1	15.7			River	1.1	15.7		
	Lake				Lake	Lake	0.1	2.6			Lake	0.1	2.6		
	Dam				Dam	Dam	0.0	0.2			Dam	0.0	0.2		
	Pond					Pond					Pond				
	Stream				Stream	Stream	0.3	17.3			Stream	0.3	17.3		
	Irrigation channel					Irrigation channel					Irrigation channel				
	Other					Other					Other				
	<b>Other improved sources</b>					<b>Other improved sources</b>					<b>Other improved sources</b>				
	Other					Other					Other				
	Other					Other					Other				
	<b>Other non-improved</b>	0.7	1.4			<b>Other non-improved</b>					<b>Other non-improved</b>				
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum				
	Tanker truck provided					Tanker truck provided					Tanker truck provided				
Other	Other	0.7	1.4			Other					Other				
	Other					Other					Other				
	<b>DK/missing</b>				No information	<b>DK/missing</b>	0.0	1.0			<b>DK/missing</b>	0.0	1.0		
	<b>Total</b>	100.0	100.0			<b>Total</b>	99.7	100.6			<b>Total</b>	99.7	100.6		
<b>Calculations</b>	Boreholes among wells	17.9%	14.3%			<b>Calculations</b>	Boreholes, based on IFTRAB05	6.0	12.0			6.0	12.0		
<b>Estimations</b>	Protected wells estimated using the DHS03 ratio for improved wells	12.5	15.8			<b>Estimations</b>	Protected own wells estimated using the DHS03 ratio for improved wells	7.8	1.7			7.8	1.7		
							Protected own wells estimated using the DHS03 ratio for improved wells	2.3	12.1			2.3	12.1		
	HC corrected for neighbour's pipe, based on DHS97	17.4	0.7												
<b>Access to improved drinking water sources :</b>		<b>74%</b>	<b>30%</b>		<b>Access to improved drinking water sources :</b>		<b>81%</b>	<b>23%</b>		<b>Access to improved drinking water sources :</b>		<b>81%</b>	<b>23%</b>		
<b>Access to house connections :</b>		<b>17%</b>	<b>1%</b>		<b>Access to house connections :</b>		<b>23%</b>	<b>1%</b>		<b>Access to house connections :</b>		<b>23%</b>	<b>1%</b>		
Used for the estimates :		<b>Yes</b>	<b>Yes</b>		Used for the estimates :		<b>Yes</b>	<b>Yes</b>		Used for the estimates :		<b>Yes</b>	<b>Yes</b>		
Used for the estimates :		<b>Yes</b>	<b>Yes</b>		Used for the estimates :		<b>Yes</b>	<b>Yes</b>		Used for the estimates :		<b>Yes</b>	<b>Yes</b>		
<b>Ratios</b>	HC / Tap water	64%	26%			<b>Ratios</b>	HC / Tap water	33%	7%			33%	7%		
	Public tap / Tap water	36%	74%				Public tap / Tap water	34%	79%			34%	79%		
	Tubewell + protected well / All wells						Tubewell + protected well / All wells								
	Protected wells / Traditional wells						Protected wells / Traditional wells								
	Tubewell / All wells	18%	14%				Tubewell / All wells								
	Protected springs / All springs						Protected springs / All springs								
							"Neighbours pipe" among "Non-public pipe"	50%	67%			50%	67%		
	Number of people covered by the census:	4429.33	10805.95				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:								
<b>Comments</b>						<b>Comments</b>									

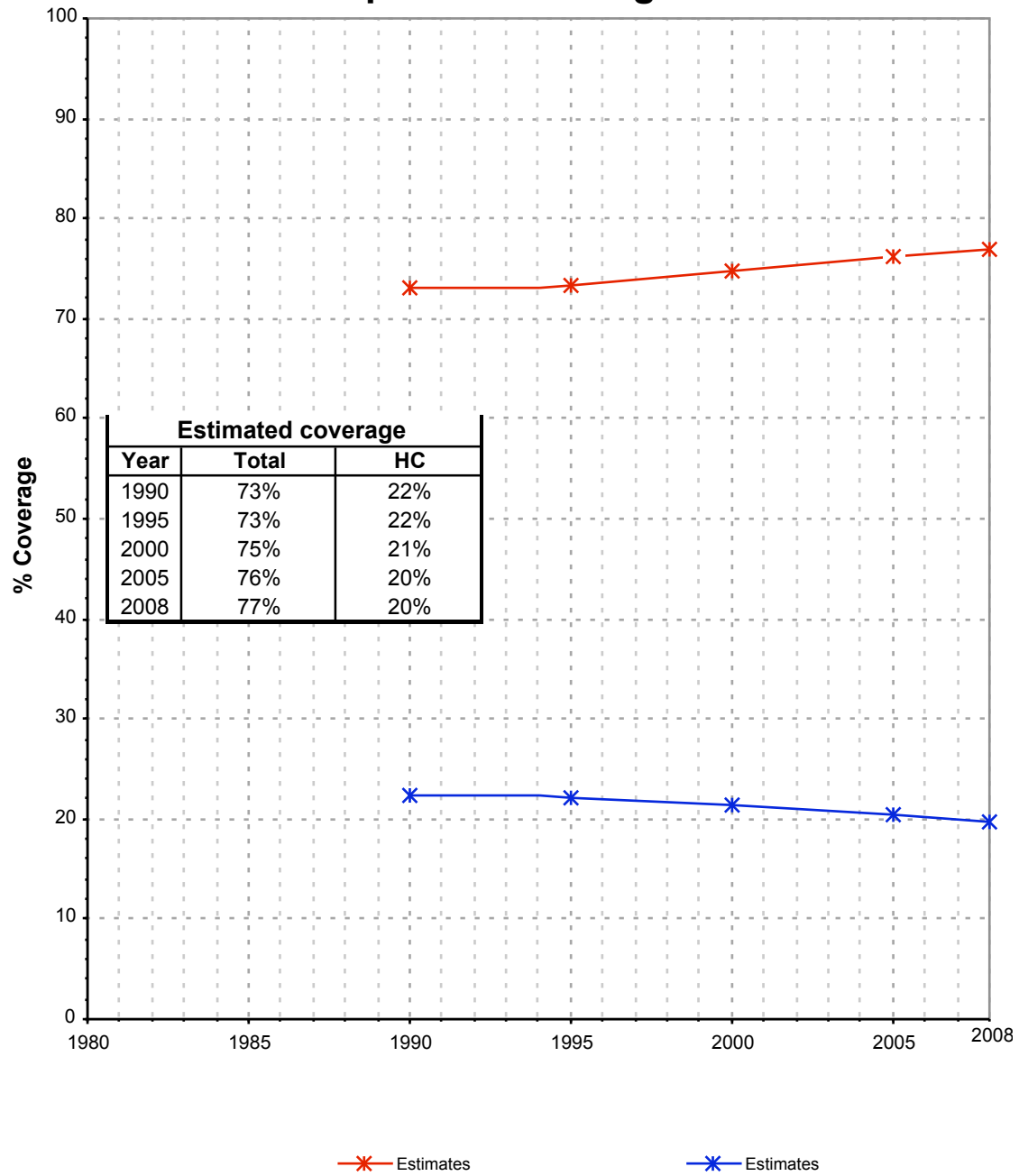
Access to drinking water sources		JMP99			Mozambique			Access to drinking water sources		QUIBB01			Mozambique			
Global Water Supply and Sanitation Assessment 2000.							INE-QUIBB							2001		
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.							1999							2001		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total		
Population served with household connection	<b>Tap water</b>	18.0	2.0		Agua Canalizada	<b>Tap water</b>	51.4	13.6								
	House connections	18.0	2.0			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										
	<b>Ground water</b>	11.0	34.0			<b>Ground water</b>	31.8	63.8								
	Protected ground water					Protected ground water										
	Unprotected ground water					Unprotected ground water										
Population without household connection but with	Protected wells or springs	11.0	34.0			Protected wells or springs	15.4	12.5								
	Private					Private										
	Public					Public										
	Other					Other										
	Unprotected wells or springs					Unprotected wells or springs	16.4	51.3								
	Private					Private										
	Public					Public										
	Other					Other										
	<b>All wells</b>					<b>All wells</b>	31.8	63.8								
	Private					Private										
	Public					Public										
	Other					Other										
	Tubewell, borehole					Tubewell, borehole										
	Private					Private										
	Public					Public										
	Other					Other										
	<b>Traditional wells</b>					<b>Traditional wells</b>	31.8	63.8								
	Private					Private										
	Public					Public										
	Other					Other										
	Protected well					Protected well	15.4	12.5								
	Private					Private										
	Public					Public										
	Other					Other										
	Unprotected well					Unprotected well	16.4	51.3								
	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>				Rio, lago, lagoa	<b>Surface water</b>	3.6	21.9								
	River					River	3.6	21.9								
	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>	71.0	64.0			<b>Other non-improved</b>	13.2	0.8								
	Cart with small tank/drum					Cart with small tank/drum										
	Tanker truck provided					Tanker truck provided										
	Other				Outra	Other	13.2	0.8								
	Other					Other										
	<b>DK/missing</b>					<b>DK/missing</b>										
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.0	100.1								
<b>Calculations</b>					<b>Calculations</b>	Boreholes, based on IFTRAB05	9.1	10.9								
						Standpipe, based on DHS03	14.5	6.9								
<b>Estimations</b>					<b>Estimations</b>											
						Estimation of House connection with the ratio from DHS97	17.0	0.9								
<b>Access to improved drinking water sources :</b>		29%	36%		<b>Access to improved drinking water sources :</b>		67%	26%								
<b>Access to house connections :</b>		18%	2%		<b>Access to house connections :</b>		17%	1%								
Used for the estimates		No	No		Used for the estimates		No	Yes								
Used for the estimates		No	No		Used for the estimates		No	Yes								
<b>Ratios</b>	HC / Tap water	100%	100%		<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	48%	20%								
	Tubewell / All wells					Tubewell / All wells										
	Protected springs / All springs					Protected springs / All springs										
Number of people covered by the survey:		4601.14	11498.1		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>	Urban not used for too big Category "Outra"										



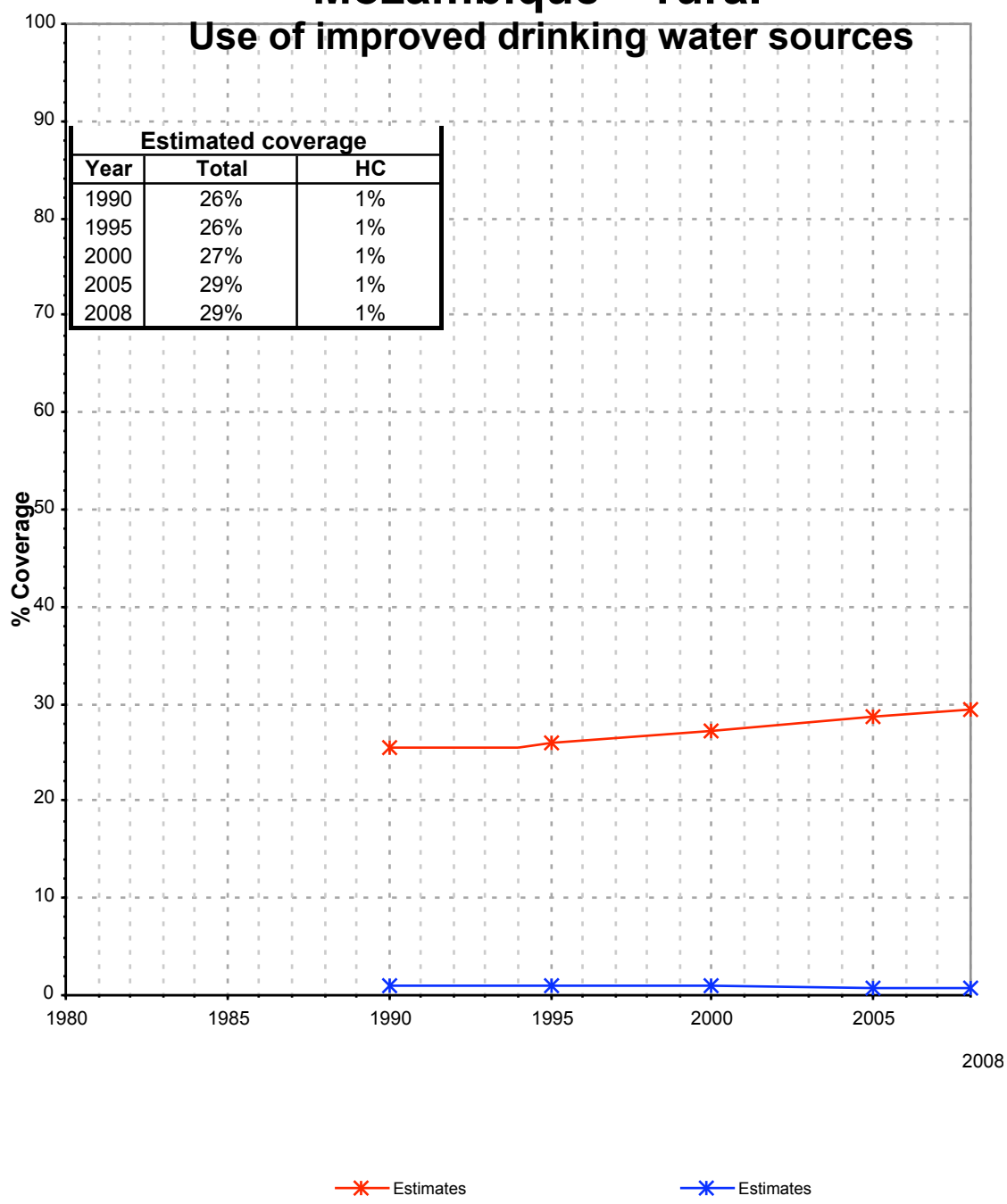
Access to drinking water sources		IFTRAB05			Mozambique			Access to drinking water sources		MICS08			Mozambique		
Inquérito Integrado à Força de Trabalho 2004-2005					2005			Multiple Indicator Cluster Survey					2008		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Tap water</b>	56.3	2.0			<b>Tap water</b>	60.4	5.0							
	House connections					House connections	22.9	0.4							
	Piped water into dwelling					Piped water into dwelling	6.2	0.1							
	Piped water to yard/plot					Piped water to yard/plot	16.7	0.3							
Água de fontanário	Public tap, standpipe	16.1	1.3			Public tap, standpipe	19.7	4.1							
Água Canalizada	Other	40.2	0.7			Other	17.8	0.5							
	<b>Ground water</b>	35.8	76.5			<b>Ground water</b>	36.1	72.3							
	Protected ground water	17.0	23.9			Protected ground water	15.9	28.5							
	Unprotected ground water	18.8	52.6			Unprotected ground water	20.2	43.8							
	Protected wells or springs	17.0	23.9			Protected wells or springs	15.9	28.5	0.0						
	Private					Private									
	Public					Public									
	Other	17.0	23.9			Other									
	Unprotected wells or springs	18.8	52.6			Unprotected wells or springs	20.2	43.8	0.0						
	Private					Private									
	Public					Public									
	Other	18.8	52.6			Other									
	<b>All wells</b>	35.8	76.5	0.0		<b>All wells</b>	36.1	72.3							
	Private					Private									
	Public					Public									
	Other	35.8	76.5			Other									
	Tubewell, borehole	10.1	20.8			Tubewell, borehole	9.3	25.0							
	Private					Private									
	Public					Public									
	Other	10.1	20.8			Other									
	<b>Traditional wells</b>	25.7	55.7	0.0		<b>Traditional wells</b>	26.8	47.3							
	Private					Private									
	Public					Public									
	Other	25.7	55.7			Other									
	Protected well	6.9	3.1	0.0		Protected well	6.6	3.5							
	Private					Private									
	Public					Public									
	Other	6.9	3.1			Other									
	Unprotected well	18.8	52.6	0.0		Unprotected well	20.2	43.8							
	Private					Private									
	Public					Public									
	Other	18.8	52.6			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>	0.3	0.2							
	Covered cistern/tank					Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	<b>Bottled water</b>					<b>Bottled water</b>	0.2	0.0							
	with other improved					with other improved									
	without other improved					without other improved									
	<b>Surface water</b>	5.3	19.8			<b>Surface water</b>	2.8	22.4							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other	5.3	19.8			Other									
	<b>Other improved sources</b>					<b>Other improved sources</b>									
	Other					Other									
	Other					Other									
	<b>Other non-improved</b>	2.5	1.4			<b>Other non-improved</b>	0.1	0.2							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided									
Outro	Other	2.5	1.4			Other	0.1	0.2							
	Other					Other									
Sem inf.	<b>DK/missing Total</b>	99.9	99.8	0.1		<b>DK/missing Total</b>	99.9	100.1							
<b>Calculations</b>	Wells with pump among protected wells	59.4%	87.0%			<b>Calculations</b>									
	Standpipe, based on DHS03	15.8	1.0												
<b>Estimations</b>	Estimation of House connection with the ratio from DHS03	16.7	0.4			<b>Estimations</b>	FAUX	0.0	0.0						
<b>Access to improved drinking water sources :</b>		<b>73%</b>	<b>26%</b>		<b>Access to improved drinking water sources :</b>		<b>77%</b>	<b>34%</b>							
<b>Access to house connections :</b>		<b>17%</b>	<b>0%</b>		<b>Access to house connections :</b>		<b>23%</b>	<b>0%</b>							
Used for the estimates :		Yes	Yes		Used for the estimates :		Yes	Yes							
Used for the estimates :		Yes	Yes		Used for the estimates :		Yes	Yes							
<b>Ratios</b>	HC / Tap water				<b>Ratios</b>	HC / Tap water	38%	8%							
	Public tap / Tap water	29%	65%			Public tap / Tap water	33%	82%							
	Tubewell + protected well / All wells	47%	31%			Tubewell + protected well / All wells	44%	39%							
	Protected wells / Traditional wells	27%	6%			Protected wells / Traditional wells	25%	7%							
	Tubewell / All wells	28%	27%			Tubewell / All wells	26%	35%							
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring	47%	31%			Protect. well & spring / well & spring	44%	39%							
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:										
<b>Comments</b>					<b>Comments</b>										

Mozambique			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
Inquérito Nacional aos Agregados Familiares sobre as Condições de Vida	ICVS96	1996	25.7		66.7		0.9		28.5	
Census	CEN97	1997	17.4		73.9		0.7		30.2	
Demographic and Health Survey	DHS97	1997	23.4		81.0		0.6		23.0	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		18.0		29.0		2.0		36.0
INE-QUIBB	QUIBB01	2001		17.0			0.9		26.1	
Household Budget Survey	HBS03	2003		12.4		57.7	1.0		26.4	
Labor force Survey	DHS03	2003	20.5		78.7		1.9		26.9	
Inquérito Integrado à Força de Trabalho 2004-2005	IFTRAB05	2005	16.7		73.3		0.4		25.9	
Multiple Indicator Cluster Survey	MICS08	2008	22.9		76.8		0.4		33.7	

# Mozambique - urban - Use of improved drinking water sources



# Mozambique - rural - Use of improved drinking water sources



# Drinking Water

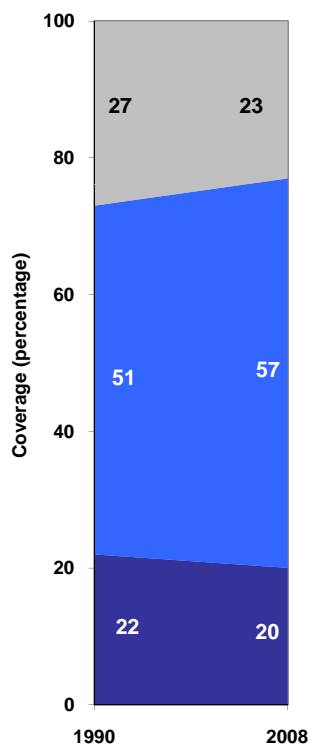
Mozambique	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	22	20	1	1	5	8
Other improved source	51	57	25	28	31	39
Unimproved source	27	23	74	71	64	53

Source: WHO/UNICEF JMP, 2010

Mozambique	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	2 857	8 249	10686	14133	13543	22383

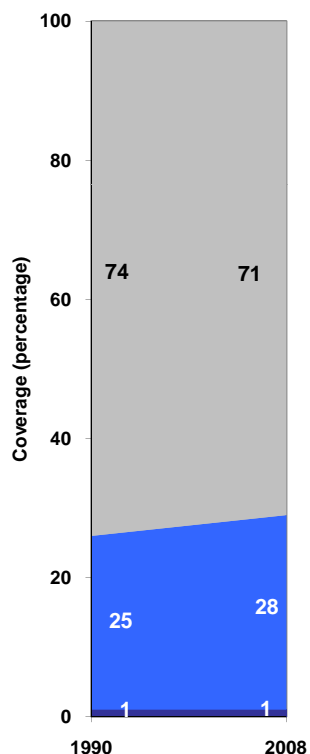
Source: UN / Population Division, 2008

Urban drinking water trends



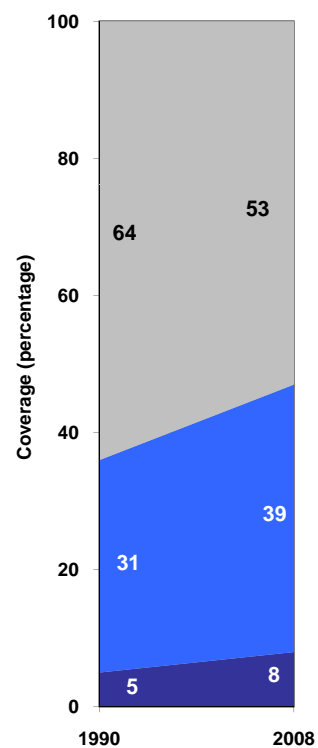
■ Unimproved sources  
■ Other improved sources  
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises  
■ Other improved sources  
■ Unimproved sources

Total drinking water trends



■ Piped onto premises  
■ Other improved sources  
■ Unimproved sources