

**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		DHS96			Zambia			Access to drinking water sources		MICS99			Zambia		
Demographic and Health Survey					1996			Multiple Indicator Cluster Survey					1999		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Tap water</b>	80.6	7.0			<b>Tap water</b>	83.2	6.2							
	House connections	46.7	1.7			House connections	55.4	2.8							
Piped into residence	Piped water into dwelling	46.7	1.7		Piped into dwelling	Piped water into dwelling	34.4	1.2							
	Piped water to yard/plot				Piped into yard or plot	Piped water to yard/plot	21.0	1.6							
Public tap	Public tap, standpipe	33.9	5.3		Public tap	Public tap, standpipe	27.8	3.4							
	Other					Other									
	<b>Ground water</b>	15.8	68.5			<b>Ground water</b>	14.1	72.9							
	Protected ground water	4.7	12.5			Protected ground water	5.7	32.0							
	Unprotected ground water					Unprotected ground water	8.4	40.9							
	Protected wells or springs	4.7	12.5	0.0	Protected dug well or protected spring	Protected wells or springs	2.7	16.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs				Unprotected dug well or spring	Unprotected wells or springs	8.4	40.9							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>All wells</b>	15.6	66.9			<b>All wells</b>	3.0	16.0							
	Private	3.6	3.1			Private									
	Public	5.1	31.2			Public									
	Other	2.2	20.1			Other									
Borehole	Tubewell, borehole	4.7	12.5		Tubewell/borehole	Tubewell, borehole	3.0	16.0							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>	10.9	54.4			<b>Traditional wells</b>									
	Private	3.6	3.1			Private									
	Public	5.1	31.2			Public									
	Other	2.2	20.1			Other									
	Protected well					Protected well									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well					Unprotected well									
	Private					Private									
	Public					Public									
	Other					Other									
Spring	<b>All springs</b>	0.2	1.6			<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>	0.0	0.1							
	Covered cistern/tank				Rainwater collection	Covered cistern/tank	0.0	0.1							
	Uncovered cistern/tank					Uncovered cistern/tank									
	<b>Bottled water</b>					<b>Bottled water</b>	0.0	0.2							
	with other improved					with other improved									
	without other improved				Bottled water	without other improved	0.0	0.2							
	<b>Surface water</b>	1.1	23.9			<b>Surface water</b>	0.2	20.2							
River/ stream	River	0.8	22.3			River									
	Lake					Lake									
	Dam					Dam									
Pond/ lake	Pond	0.3	1.6		Pond, river or stream	Pond	0.2	20.2							
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	<b>Other improved sources</b>					<b>Other improved sources</b>									
	Other					Other									
	Other					Other									
	<b>Other non-improved</b>	2.4	0.4			<b>Other non-improved</b>	2.5	0.6							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided				Tanker truck vendor	Tanker truck provided	0.0	0.0							
Other	Other	2.4	0.4		Other	Other	2.5	0.6							
	Other					Other									
Missing information	<b>DK/missing</b>	0.2	0.1			<b>DK/missing</b>									
	<b>Total</b>	100.1	99.9			<b>Total</b>	100.0	100.2							
<b>Calculations</b>					<b>Calculations</b>										
						Protected wells, based on DHS96	2.7	15.6							
						Protected springs based on DHS96	0.0	0.4							
<b>Estimations</b>	Protected wells & springs estimated on basis of MICS 99	2.7	15.7		<b>Estimations</b>										
	HC corrected for neighbour's tap, based on LCMS96	45.4	1.0			HC corrected for neighbour's tap, based on LCMS99	43.0	1.7							
<b>Access to improved drinking water sources :</b>		<b>88%</b>	<b>35%</b>		<b>Access to improved drinking water sources :</b>		<b>89%</b>	<b>38%</b>							
<b>Access to house connections :</b>		<b>45%</b>	<b>1%</b>		<b>Access to house connections :</b>		<b>43%</b>	<b>2%</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	58%	24%		<b>Ratios</b>	HC / Tap water	67%	45%							
	Public tap / Tap water	42%	76%			Public tap / Tap water	33%	55%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells	30%	19%			Protected wells / Traditional wells	100%	100%							
	Tubewell / All wells					Tubewell / All wells									
	Protected springs / All springs					Protected springs / All springs	24%	28%							
	Protect. well & spring / well & spring					Protect. well & spring / well & spring									
	Springs/Groundwater	1%	2%												
	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>										



Access to drinking water sources		LCMS02			Zambia			Access to drinking water sources		WHS03			Zambia		
Living Conditions Monitoring Survey								World Health Survey							
					2002								2003		
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total
Own tap	<b>Tap water</b>				80.0	8.0		Piped water through house connection or yard	<b>Tap water</b>				75.8	6.8	
	House connections				38.0	1.0			House connections				40.5	2.4	
	Piped water into dwelling								Piped water into dwelling						
	Piped water to yard/plot								Piped water to yard/plot						
Public tap	Public tap, standpipe				33.0	3.0		Public standpipe	Public tap, standpipe				35.4	4.4	
Other tap & pumped (piped) water	Other				9.0	4.0			Other						
	<b>Ground water</b>				19.0	66.0			<b>Ground water</b>				22.5	73.7	
	Protected ground water				7.0	28.0			Protected ground water				14.6	37.6	
	Unprotected ground water				12.0	38.0			Unprotected ground water				7.9	36.2	
	Protected wells or springs				7.0	28.0	0.0	Protected dug well or protected spring	Protected wells or springs				10.9	15.9	0.0
	Private								Private						
	Public								Public						
	Other								Other						
	Unprotected wells or springs				12.0	38.0		Unprotected dug well or spring	Unprotected wells or springs				7.9	36.2	
	Private								Private						
	Public								Public						
	Other								Other						
	<b>All wells</b>				19.0	66.0			<b>All wells</b>				3.7	21.7	
	Private								Private						
	Public								Public						
	Other								Other						
Borehole	Tubewell, borehole				3.0	16.0		Protected tube well or bore hole	Tubewell, borehole				3.7	21.7	
	Private								Private						
	Public								Public						
	Other								Other						
	<b>Traditional wells</b>				16.0	50.0			<b>Traditional wells</b>						
	Private								Private						
	Public								Public						
	Other								Other						
Protected well	Protected well				4.0	12.0			Protected well						
	Private								Private						
	Public								Public						
	Other								Other						
Unprotected well	Unprotected well				12.0	38.0			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>				0.0	0.1	
	Covered cistern/tank							Rainwater (into tank or cistern )	Covered cistern/tank				0.0	0.1	
	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>				1.0	24.0			<b>Surface water</b>				1.7	19.3	
	River								River						
Lake/stream	Lake				1.0	24.0			Lake						
	Dam								Dam						
	Pond							Water taken directly from pond-water or stream	Pond				1.7	19.3	
	Stream								Stream						
	Irrigation channel								Irrigation channel						
	Other								Other						
	<b>Other improved sources</b>								<b>Other improved sources</b>						
	Other								Other						
	Other								Other						
	<b>Other non-improved</b>				0.0	2.0			<b>Other non-improved</b>				0.0	0.0	
Vendor	Cart with small tank/drum				0.0	0.0			Cart with small tank/drum						
	Tanker truck provided							Tanker-truck, vendor	Tanker truck provided				0.0	0.0	
other	Other				0.0	2.0			Other						
	Other								Other						
	<b>DK/missing</b>								<b>DK/missing</b>						
	<b>Total</b>				100.0	100.0			<b>Total</b>				100.0	100.0	
Calculations								Calculations							
									Protected wells, based on DHS96				10.8	15.5	
							Protected springs based on DHS96				0.1	0.4			
Estimations								Estimations							
<b>Access to improved drinking water sources :</b>				87%	36%		<b>Access to improved drinking water sources :</b>				90%	45%			
<b>Access to house connections :</b>				38%	1%		<b>Access to house connections :</b>				40%	2%			
Used for the estimates :				Yes	Yes		Used for the estimates :				Yes	Yes			
Ratios	Used for the estimates :				Yes	Yes		Used for the estimates :				Yes	Yes		
	HC / Tap water				48%	13%		HC / Tap water				53%	35%		
	Public tap / Tap water				41%	38%		Public tap / Tap water				47%	65%		
	Tubewell + protected well / All wells				37%	42%		Tubewell + protected well / All wells				100%	100%		
	Protected wells / Traditional wells				25%	24%		Protected wells / Traditional wells							
	Tubewell / All wells				16%	24%		Tubewell / All wells							
	Protected springs / All springs				37%	42%		Protected springs / All springs				58%	30%		
Protect. well & spring / well & spring							Protect. well & spring / well & spring								
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>								

Access to drinking water sources		SDA91			Zambia			Access to drinking water sources		LCMS04			Zambia						
The Social Dimensions of Adjustment Survey					The Social Dimensions of Adjustment Survey (Question on previous year)														
Central Statistical Office					1991					Central Statistical Office					2004				
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total				
OWN TAP	<b>Tap water</b>				82.7	4.2		OWN TAP	<b>Tap water</b>				76.2	4.8	32.4				
	House connections				42.9	0.7			House connections				36.7	1.1	14.9				
	Piped water into dwelling								Piped water into dwelling										
	Piped water to yard/plot								Piped water to yard/plot										
PUBLIC TAP	Public tap, standpipe				39.8	3.5		PUBLIC TAP	Public tap, standpipe				29.2	3.0	13.1				
	Other								Other tap				10.3	0.7	4.4				
	<b>Ground water</b>				14.5	53.0			<b>Ground water</b>				21.1	67.1	49.2				
	Protected ground water				7.1	15.2			Protected ground water				9.3	33.9	24.3				
	Unprotected ground water				7.4	37.8			Unprotected ground water				11.8	33.2	24.9				
	Protected wells or springs				7.1	15.2			Protected wells or springs				9.3	33.9					
	Private								Private										
	Public								Public										
	Other								Other										
	Unprotected wells or springs				7.4	37.8			Unprotected wells or springs				11.8	33.2					
	Private								Private										
	Public								Public										
	Other								Other										
	<b>All wells</b>				14.5	53.0			<b>All wells</b>				21.1	67.1	49.2				
	Private								Private										
	Public								Public										
	Other								Other										
	Tubewell, borehole								Borehole				6.3	22.8	16.4				
	Private								Private										
	Public								Public										
	Other								Other										
	<b>Traditional wells</b>				14.5	53.0			<b>Traditional wells</b>				14.8	44.3	32.8				
	Private								Private										
	Public								Public										
	Other								Other										
PROTECTED WELL	Protected well				7.1	15.2		PROTECTED WELL	Protected well				3.0	11.1	7.9				
	Private								Private										
	Public								Public										
	Other								Other										
UNPROTECTED WELL	Unprotected well				7.4	37.8		UNPROTECTED WELL	Unprotected well				11.8	33.2	24.9				
	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										
RIVER, LAKE	<b>Surface water</b>				2.3	38.5		RIVER, LAKE	<b>Surface water</b>				2.4	28.0	18.1				
	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										
	<b>Other non-improved</b>				0.6	4.3			<b>Other non-improved</b>				0.4	0.4	0.4				
	Cart with small tank/drum								Cart with small tank/drum										
	Tanker truck provided								Tanker truck provided										
OTHER	Other				0.6	4.3		OTHER	Other				0.4	0.4	0.4				
	Other								Other										
NR	<b>DK/missing</b>				0.0	0.1			<b>DK/missing</b>										
	<b>Total</b>				100.1	100.1			<b>Total</b>				100.1	100.3	100.1				
<b>Calculations</b>								<b>Calculations</b>											
<b>Estimations</b>								<b>Estimations</b>											
	HC corrected for neighbour's tap, based on LCMS06				46.6	0.6													
<b>Access to improved drinking water sources :</b>					<b>90%</b>	<b>19%</b>		<b>Access to improved drinking water sources :</b>					<b>86%</b>	<b>39%</b>	<b>57%</b>				
<b>Access to house connections :</b>					<b>47%</b>	<b>1%</b>		<b>Access to house connections :</b>					<b>37%</b>	<b>1%</b>	<b>15%</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				52%	17%		<b>Ratios</b>	HC / Tap water				48%	23%					
	Public tap / Tap water				48%	83%			Public tap / Tap water				38%	63%					
	Tubewell + protected well / All wells				49%	29%			Tubewell + protected well / All wells				44%	51%					
	Protected wells / Traditional wells				49%	29%			Protected wells / Traditional wells				20%	25%					
	Tubewell / All wells				49%	29%			Tubewell / All wells				30%	34%					
	Protected springs / All springs				49%	29%			Protected springs / All springs				44%	51%					
	Protect. well & spring / well & spring				49%	29%			Protect. well & spring / well & spring				44%	51%					
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>											

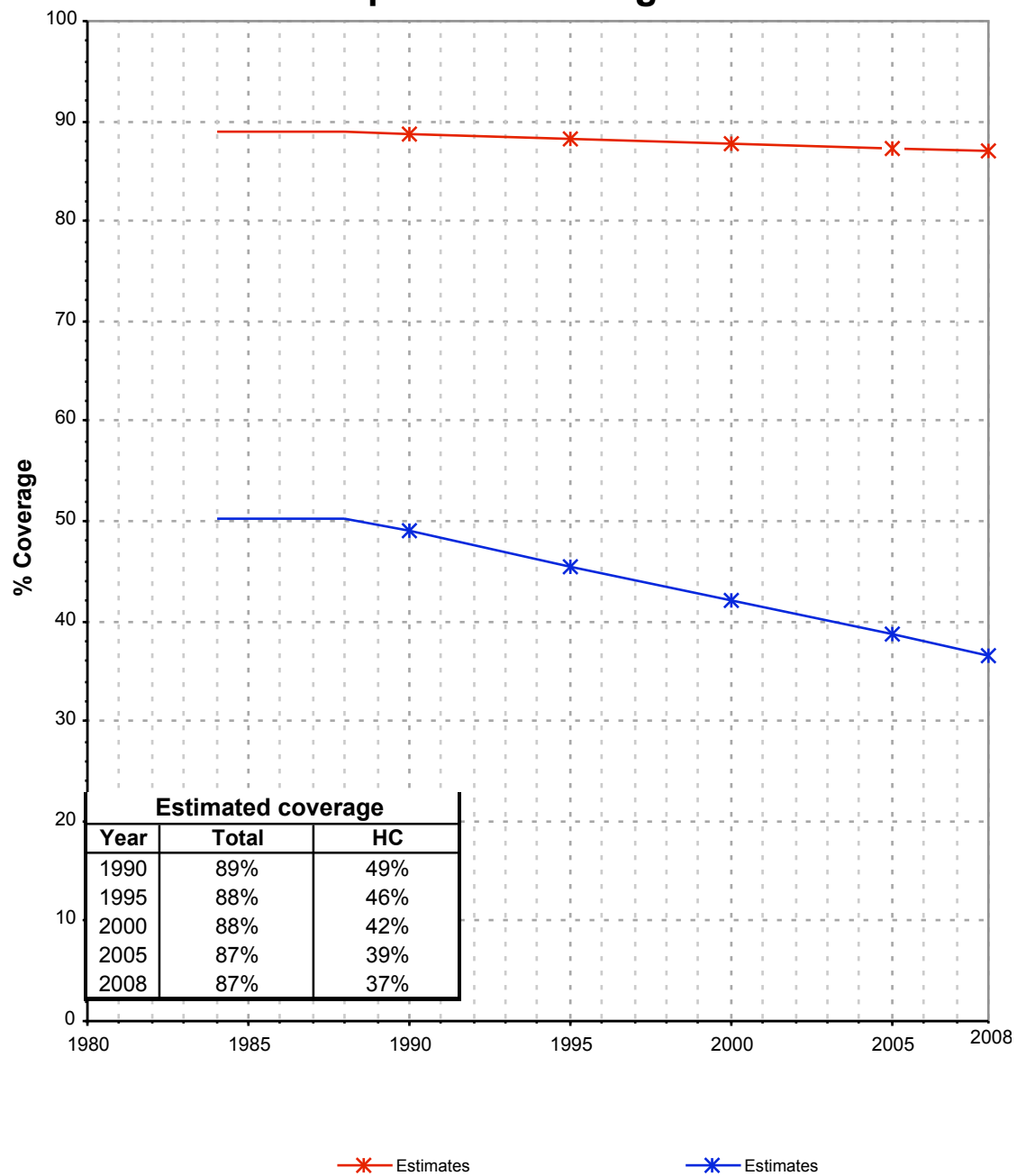
Access to drinking water sources		SDA93			Zambia			Access to drinking water sources		LCMS06			Zambia						
The Social Dimensions of Adjustment Survey					Living Conditions and Monitoring Survey														
Central Statistical Office					1993					Central Statistical Office					2006				
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total				
OWN TAP	<b>Tap water</b>				84.9	3.9		OWN TAP	<b>Tap water</b>				78.9	4.2	30.2				
	House connections				45.4	0.9			House connections				39.3	1.2	14.5				
	Piped water into dwelling								Piped water into dwelling										
	Piped water to yard/plot								Piped water to yard/plot										
PUBLIC TAP	Public tap, standpipe				39.5	3.0		PUBLIC TAP	Public tap, standpipe				29.1	2.6	11.8				
	Other								Other tap				10.5	0.4	3.9				
	<b>Ground water</b>				11.6	57.4			<b>Ground water</b>				18.3	70.2	52.1				
	Protected ground water				3.2	14.7			Protected ground water				9.3	37.7	27.8				
	Unprotected ground water				8.4	42.7			Unprotected ground water				9.0	32.5	24.3				
	Protected wells or springs				3.2	14.7			Protected wells or springs				9.3	37.7					
	Private								Private										
	Public								Public										
	Other								Other										
	Unprotected wells or springs				8.4	42.7			Unprotected wells or springs				9.0	32.5					
	Private								Private										
	Public								Public										
	Other								Other										
	<b>All wells</b>				11.6	57.4			<b>All wells</b>				18.3	70.2	52.1				
	Private								Private										
	Public								Public										
	Other								Other										
	Tubewell, borehole							Borehole	Tubewell, borehole				5.5	28.4	20.4				
	Private								Private										
	Public								Public										
	Other								Other										
	<b>Traditional wells</b>				11.6	57.4			<b>Traditional wells</b>				12.8	41.8	31.7				
	Private								Private										
	Public								Public										
	Other								Other										
PROTECTED WELL	Protected well				3.2	14.7		PROTECTED WELL	Protected well				3.8	9.3	7.4				
	Private								Private										
	Public								Public										
	Other								Other										
UNPROTECTED WELL	Unprotected well				8.4	42.7		UNPROTECTED WELL	Unprotected well				9.0	32.5	24.3				
	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				0.2	0.0	0.1				
	with other improved							Mineral/bottled water	without other improved				0.2	0.0	0.1				
	without other improved																		
RIVER, LAKE	<b>Surface water</b>				1.4	34.3		<b>Surface water</b>	River				2.2	25.0	17.0				
	River							Directly from the river	Lake				1.6	23.6	15.9				
	Lake								Dam										
	Dam								Pond										
	Pond								Stream										
	Stream								Irrigation channel										
	Irrigation channel								Other				0.6	1.4	1.1				
	Other							Pumped (piped) from the river											
	<b>Other improved sources</b>								<b>Other improved sources</b>										
	Other								Other										
	Other								Other										
	<b>Other non-improved</b>				1.9	4.4		<b>Other non-improved</b>	Cart with small tank/drum				0.5	0.5	0.5				
	Cart with small tank/drum							Bought from vendor	Tanker truck provided				0.2	0.2	0.2				
	Tanker truck provided								Other				0.3	0.3	0.3				
OTHER	Other				1.9	4.4		OTHER	Other										
	Other								Other										
N/R	<b>DK/missing</b>				0.1	0.0		N/R	<b>DK/missing</b>										
	<b>Total</b>				99.9	100.0			<b>Total</b>				100.1	99.9	99.9				
Calculations								Calculations											
Estimations								Estimations											
	HC corrected for neighbour's tap, based on LCMS06				47.8	0.6													
<b>Access to improved drinking water sources :</b>					<b>88%</b>	<b>19%</b>		<b>Access to improved drinking water sources :</b>					<b>88%</b>	<b>42%</b>	<b>58%</b>				
<b>Access to house connections :</b>					<b>48%</b>	<b>1%</b>		<b>Access to house connections :</b>					<b>39%</b>	<b>1%</b>	<b>15%</b>				
Used for the estimates :					Yes	Yes		Used for the estimates :					Yes	Yes					
Ratios	Used for the estimates :				Yes	Yes		Used for the estimates :				Yes	Yes						
	HC / Tap water				53%	23%		HC / Tap water				50%	29%						
	Public tap / Tap water				47%	77%		Public tap / Tap water				37%	62%						
	Tubewell + protected well / All wells							Tubewell + protected well / All wells				51%	54%						
	Protected wells / Traditional wells				28%	26%		Protected wells / Traditional wells				30%	22%						
	Tubewell / All wells							Tubewell / All wells				30%	40%						
	Protected springs / All springs							Protected springs / All springs											
Protect. well & spring / well & spring				28%	26%		Protect. well & spring / well & spring				51%	54%							
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		LCMS96			Zambia			Access to drinking water sources		LCMS98			Zambia		
Living Conditions Monitoring Survey 1					Living Conditions Monitoring Survey					Central Statistical Office					
Central Statistical Office					1996			Central Statistical Office					1998		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
OWN TAP	<b>Tap water</b>	83.6	10.3		OWN TAP	<b>Tap water</b>	81.7	5.2							
	House connections	47.1	1.5			House connections	42.2	1.4							
	Piped water into dwelling					Piped water into dwelling									
	Piped water to yard/plot					Piped water to yard/plot									
	PUBLIC TAP	29.4	4.3			PUBLIC TAP	27.3	2.8							
	OTHER TAP	7.1	4.5			OTHER TAP (E.G. FROM NEAR-BY BUILDING)	12.2	1.0							
	<b>Ground water</b>	15.6	61.6			<b>Ground water</b>	16.5	70.0							
	Protected ground water	6.0	21.7			Protected ground water	7.7	31.0							
	Unprotected ground water	9.6	39.9			Unprotected ground water	8.8	39.0							
	Protected wells or springs	6.0	21.7	0.0		Protected wells or springs	7.7	31.0	0.0						
	Private				Private										
	Public				Public										
	Other				Other										
	Unprotected wells or springs	9.6	39.9	0.0		Unprotected wells or springs	8.8	39.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	<b>All wells</b>	15.6	61.6			<b>All wells</b>	16.5	70.0							
	Private					Private									
	Public					Public									
	Other					Other									
BOREHOLE	Tubewell, borehole	4.2	10.7		BOREHOLE	Tubewell, borehole	4.1	15.2							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>	11.4	50.9			<b>Traditional wells</b>	12.4	54.8							
	Private					Private									
	Public					Public									
	Other					Other									
	PROTECTED WELL	Protected well	1.8	11.0			PROTECTED WELL	Protected well	3.6	15.8					
		Private						Private							
	Public					Public									
	Other					Other									
UNPROTECTED WELL	Unprotected well	9.6	39.9		UNPROTECTED WELL	Unprotected well	8.8	39.0							
	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											
RIVER, LAKE	<b>Surface water</b>	1.0	28.3		RIVER, LAKE	<b>Surface water</b>	1.2	23.2							
	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											
<b>Other non-improved</b>				<b>Other non-improved</b>	0.8	1.7									
Cart with small tank/drum				Cart with small tank/drum											
Tanker truck provided				Tanker truck provided											
Other				OTHER (SPECIFY)	0.8	1.7									
Other				Other											
<b>DK/missing</b>				<b>DK/missing</b>											
<b>Total</b>		100.2	100.2		<b>Total</b>	100.2	100.1								
Calculations					Calculations										
Estimations					Estimations										
<b>Access to improved drinking water sources :</b>		<b>90%</b>	<b>32%</b>		<b>Access to improved drinking water sources :</b>		<b>89%</b>	<b>36%</b>							
<b>Access to house connections :</b>		<b>47%</b>	<b>2%</b>		<b>Access to house connections :</b>		<b>42%</b>	<b>1%</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							
Ratios	HC / Tap water	56%	15%		Ratios	HC / Tap water	52%	27%							
	Public tap / Tap water	35%	42%			Public tap / Tap water	33%	54%							
	Tubewell + protected well / All wells	38%	35%			Tubewell + protected well / All wells	47%	44%							
	Protected wells / Traditional wells	16%	22%			Protected wells / Traditional wells	29%	29%							
	Tubewell / All wells	27%	17%			Tubewell / All wells	25%	22%							
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring	38%	35%			Protect. well & spring / well & spring	47%	44%							
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										

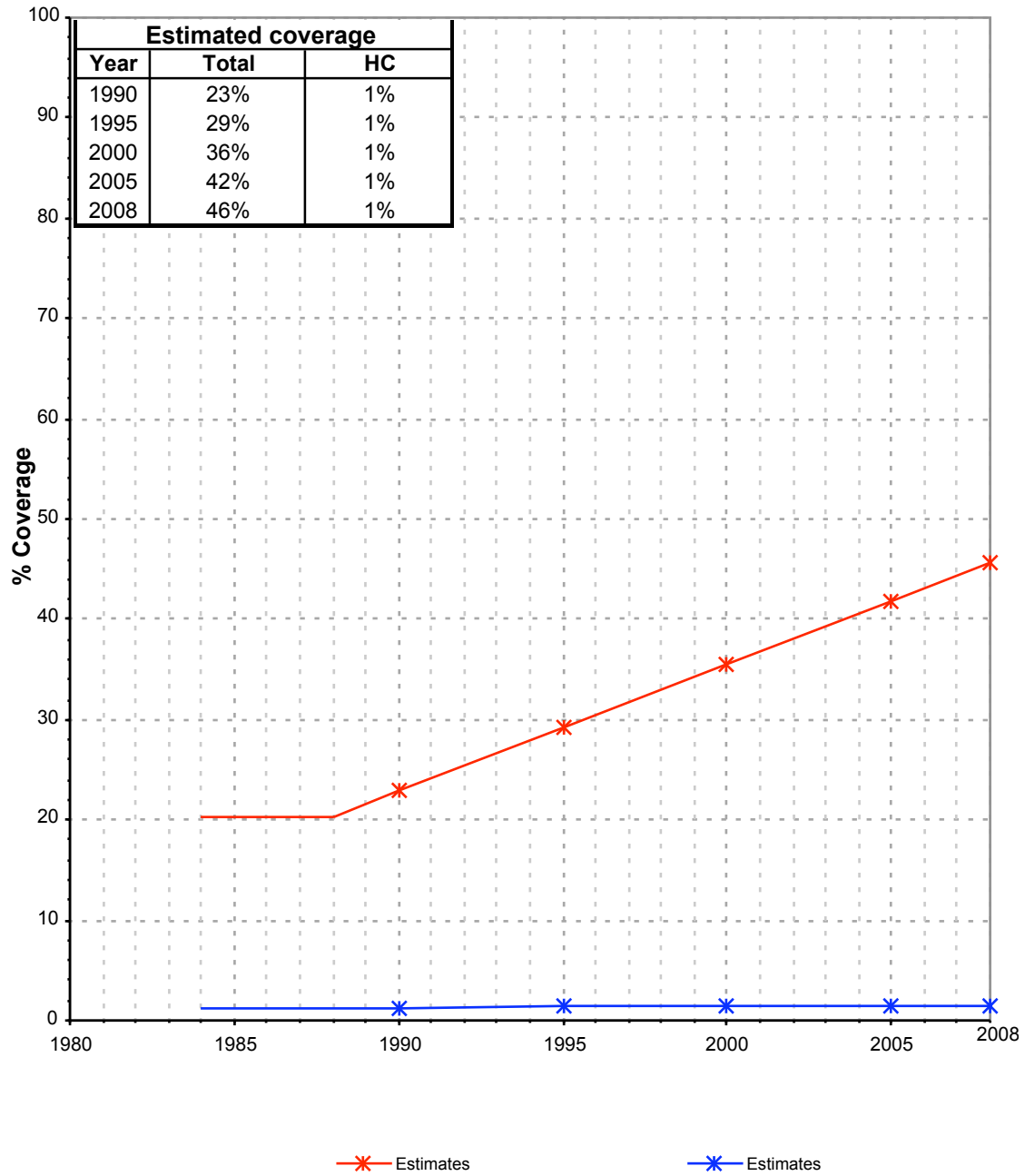
Access to drinking water sources		DHS07		
Demographic and Health Survey		Zambia		
		2007		
Original denomination	Classification	Urban	Rural	Total
	<b>Tap water</b>	76.3	3.2	29.2
	House connections	42.5	1.4	16.0
Piped into dwelling	Piped water into dwelling	19.3	0.5	7.2
Piped to yard/plot	Piped water to yard/plot	23.2	0.9	8.8
Public tap/standpipe	Public tap, standpipe	33.8	1.8	13.2
	Other			
	<b>Ground water</b>	18.8	63.3	47.5
	Protected ground water	5.7	16.4	12.6
	Unprotected ground water	13.1	46.9	34.9
	Protected wells or springs			
	Private			
	Public			
	Other			
	Unprotected wells or springs			
	Private			
	Public			
	Other			
	<b>All wells</b>	5.7	16.4	12.6
	Private			
	Public			
	Other			
	Tubewell, borehole			
	Private			
	Public			
	Other			
	<b>Traditional wells</b>	18.8	63.3	12.6
	Private			
	Public			
	Other			
Protected well	Protected well	5.7	16.4	12.6
	Private			
	Public			
	Other			
Unprotected well	Unprotected well	13.1	46.9	34.9
	Private			
	Public			
	Other			
	<b>All springs</b>			
	Private			
	Public			
	Other			
	Protected spring			
	Private			
	Public			
	Other			
	Unprotected spring			
	Private			
	Public			
	Other			
	<b>Rainwater</b>			
	Covered cistern/tank			
	Uncovered cistern/tank			
	<b>Bottled water</b>	0.2	0.0	0.1
Bottled water	with other improved	0.2	0.0	0.1
	without other improved			
River/dam/lake/ponds/stream/canal/irrigation	<b>Surface water</b>	1.0	30.7	20.1
	River			
	Lake			
	Dam			
	Pond			
	Stream			
	Irrigation channel			
	Other			
	<b>Other improved sources</b>			
	Other			
	Other			
	<b>Other non-improved</b>	3.8	2.8	3.1
	Cart with small tank/drum			
Tanker truck	Tanker truck provided	0.0	0.0	0.0
Other	Other	3.8	2.8	3.1
	Other			
	<b>DK/missing</b>			
	<b>Total</b>	100.1	100.0	100.0
<b>Calculations</b>				
<b>Estimations</b>				
	HC corrected for neighbour's tap, based on LCMSOE	38.0	0.9	
<b>Access to improved drinking water sources :</b>		<b>82%</b>	<b>20%</b>	
<b>Access to house connections :</b>		<b>38%</b>	<b>1%</b>	
Used for the estimates :		Yes	No	
Used for the estimates :		Yes	Yes	
<b>Ratios</b>	HC / Tap water	56%	44%	
	Public tap / Tap water	44%	56%	
	Tubewell + protected well / All wells			
	Protected wells / Traditional wells	30%	26%	
	Tubewell / All wells			
	Protected springs / All springs			
	Protect. well & spring / well & spring			
Number of people covered by the survey:				
Number of households covered by the survey:				
Total population:				
<b>Comments</b>				

Zambia			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	CEN90	1990	47.0		82.0		2.0		27.7	
Demographi	DHS92	1992	50.2		91.5		1.5		25.4	
Demographi	DHS96	1996	45.4		88.0		1.0		35.2	
Multiple Indicator	MICS99	1999	43.0		88.9		1.7		38.3	
Global Water	JMP99	1999		47.0		82.0		2.0		28.0
Demographi	DHS02	2002	42.1		89.7		2.3		32.4	
Living Conditions	LCMS02	2002	38.0		87.0		1.0		36.0	
World Health	WHS03	2003	40.5		90.4		2.4		44.5	
The Social Dimensions	SDA91	1991	46.6		89.8		0.6		19.4	
The Social Dimensions	LCMS04	2004	36.7		85.5		1.1		38.7	
The Social Dimensions	SDA93	1993	47.8		88.1		0.6		18.6	
Living Conditions	LCMS06	2006	39.3		88.4		1.2		41.9	
Living Condi	LCMS96	1996	47.1		89.6		1.5		32.0	
Living Condi	LCMS98	1998	42.2		89.4		1.4		36.2	
Population a	CEN00	2000								
Demographi	DHS07	2007	38.0		82.2		0.9			19.6

## Zambia - urban - Use of improved drinking water sources



## Zambia - rural - Use of improved drinking water sources



# Drinking Water

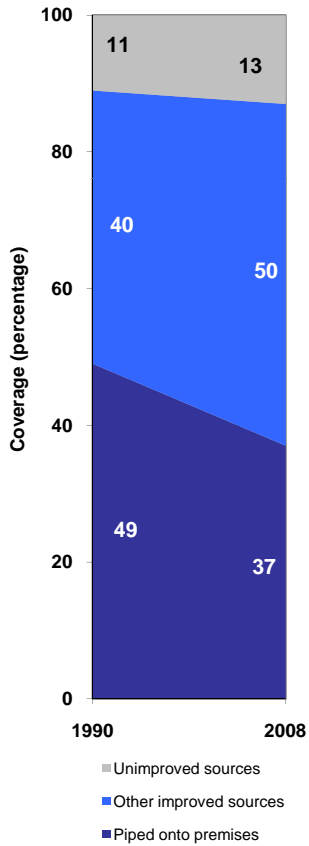
Zambia	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	49	37	1	1	20	14
Other improved source	40	50	22	45	29	46
Unimproved source	11	13	77	54	51	40

Source: WHO/UNICEF JMP, 2010

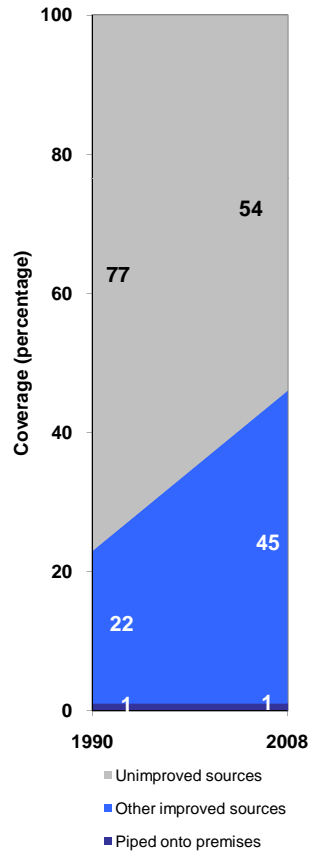
Zambia	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	3 117	4 461	4793	8159	7910	12620

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

