



**WHO/UNICEF Joint Monitoring Programme for  
Water Supply and Sanitation  
Coverage Estimates 1980-2000**

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# **Access to Improved Drinking Water Sources**

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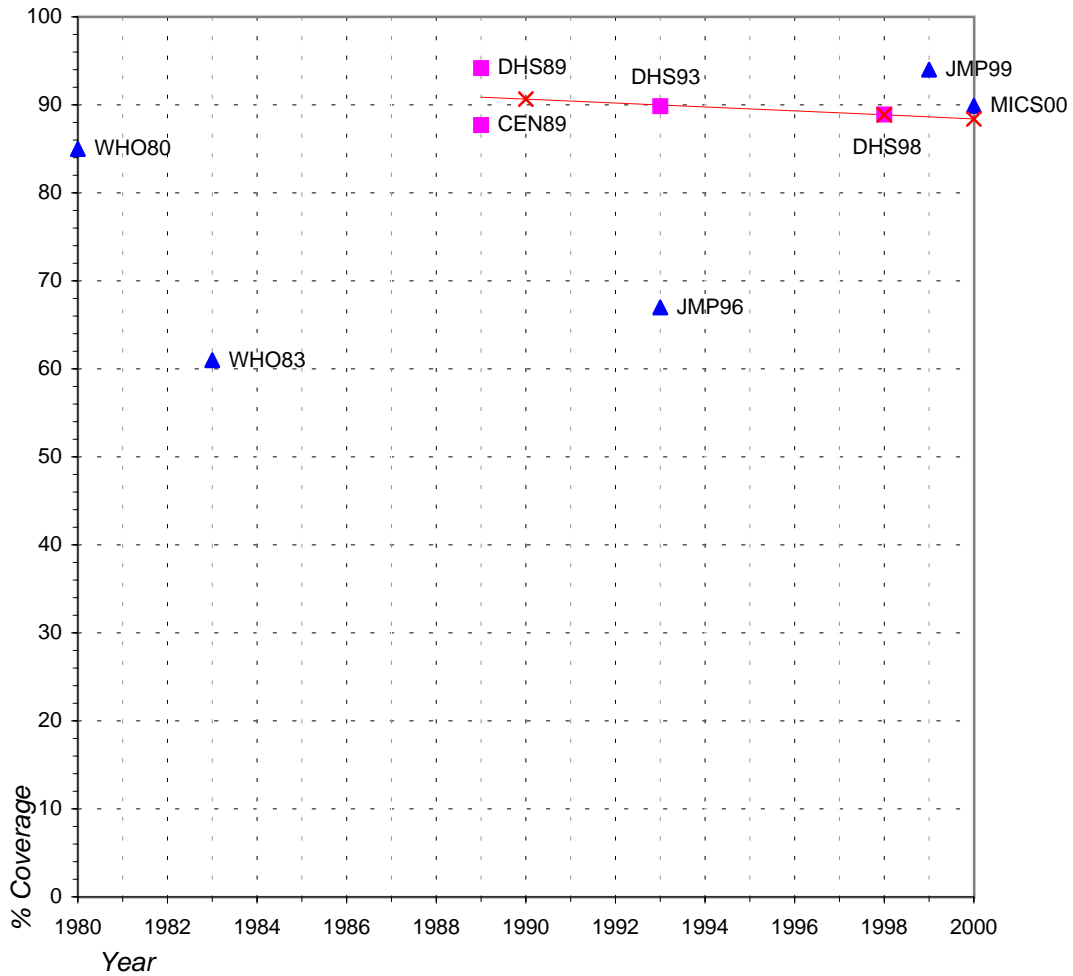
***Kenya***

**September, 2001**

ACCESS TO IMPROVED DRINKING WATER SOURCES  
AND IMPROVED SANITATION  
KENYA

Source	Code	Year	DRINKING WATER				SANITATION			
			URBAN		RURAL		URBAN		RURAL	
			data used for estimates	other data	data used for estimates	other data	data used for estimates	other data	data used for estimates	other data
The International Drinking Water Supply and Sanitation Decade. Review of National Baseline Data (as at December 1980). WHO 1984	WHO80	1980		85		15		89		19
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983		61		21		75		39
Kenyan Demographic and Health Survey 1989.	DHS89	1989	94		31		94		82	
Kenyan National Census, 1989.	CEN89	1989	88		22		86		72	
Kenyan Demographic and Health Survey 1993.	DHS93	1993	90		40		94		79	
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 December 1994. WHO/UNICEF 1996.	JMP96	1993		67		49		69		81
Kenyan Demographic and Health Survey 1998	DHS98	1998	89		37		96		81	
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999		94		40		97		81
Kenya Multiple Indicator Cluster Survey 2000, Preliminary Report, December 2000	MICS00	2000		90		47		95		77
Estimates based on linear regression of the above data points		1989	91		29		90		77	
		1990	91		30		91		77	
		1998	89		40		96		81	
		2000	88		42		96		82	

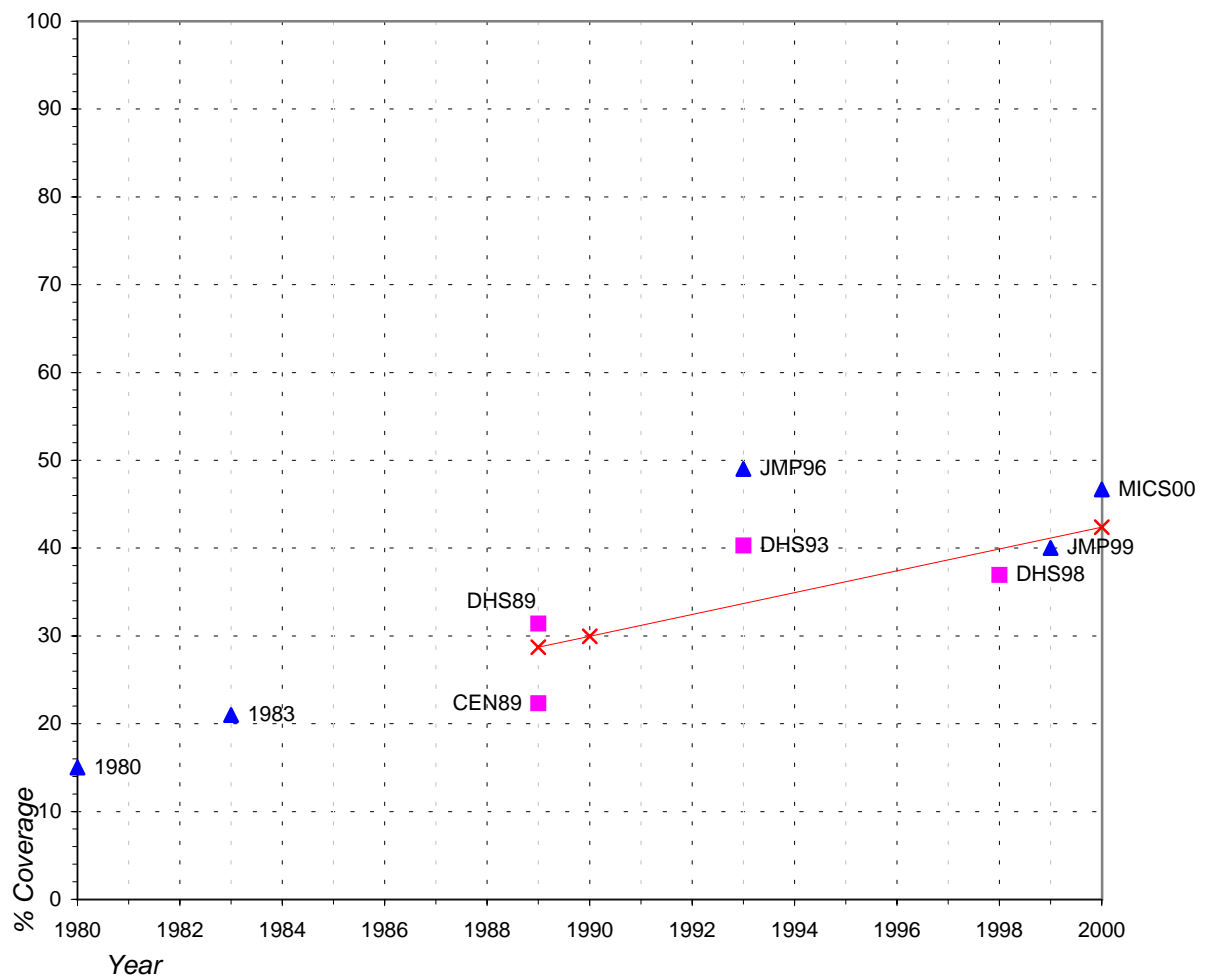
# Kenya - urban - Access to improved drinking water sources



■ data used for estimates     
 ▲ other data     
 -x- estimates

**Explanation for the determination of the estimates for 1990 and 2000:**  
 The estimates have been determined by fitting a linear trend line (using the method of least squares) through these data points that are based on well documented and specified surveys.  
 MICS 2000 not used, because only preliminary data was available.

# Kenya - rural - Access to improved drinking water sources



■ data used for estimates    
 ▲ other data    
 -x- estimates

**Explanation for the determination of the estimates for 1990 and 2000:**  
 The estimates have been determined by fitting a linear trend line (using the method of least squares) through these data points that are based on well documented and specified surveys.  
 MICS 2000 not used, because only preliminary data was available.

## Urban and Rural Water - Kenya

DHS 1989		
WATER	Urban	Rural
Piped into House	58.75	11.03
Public Tap	31.42	6.54
Well with Handpump	2.38	5.61
Rainwater	0.1	1.72
Well without Handpump	2.88	13.04
Lake	0.19	2.02
River	3.13	43.96
Pond	0.89	7.67
Other	0.18	8.31
<b>TOTAL</b>	<b>99.92</b>	<b>99.9</b>
50% of wells without handpump estimated protected	1.44	6.52
<b>Access to improved drinking water sources (incl % wells)</b>	<b>94%</b>	<b>31%</b>

Source: DHS Kenya, 1989

DHS 1993		
Water	Urban	Rural
Piped into Residence	55.8	10.7
Public Tap	31.4	8.9
Well with Handpump	0.9	10.8
Rainwater	0.6	2.6
Well without Handpump	2.1	14.6
Lake/Pond	0.1	8.7
River/Stream	1.6	41.2
Other	6.6	1.9
Missing	0.8	0.5
<b>TOTAL</b>	<b>99.9</b>	<b>99.9</b>
50% of wells without handpump estimated protected	1.05	7.3
<b>Access to improved drinking water sources (incl % wells)</b>	<b>90%</b>	<b>40%</b>

Source: DHS Kenya, 1993

DHS 1998		
Water	Urban	Rural
Piped into Residence	58.2	12.3
Public Tap	25.9	6.3
Rainwater	0.4	1.6
Well in residence	3.3	8.6
Public well	3.5	14.9
River/Stream	3.5	5.5
Pond/ lake	0.1	49.3
Other	4.9	1.2
<b>TOTAL</b>	<b>99.8</b>	<b>99.7</b>
% of wells with handpumps from DHS93	2.04	9.99
50% of estimated wells without handpump estimated protected	2.38	6.75
<b>Access to improved drinking water sources (incl % wells)</b>	<b>89%</b>	<b>37%</b>

MICS 2000		
Water	Urban	Rural
Piped into dwelling	29.8	6.0
Piped into yard or plot	26.4	5.8
Public tap	31.1	6.4
Tubewell/ borehole with pump	0.6	8.7
Protected dug well	1.0	8.1
Protected spring	0.5	10.0
Rainwater collection	0.5	1.7
Bottled water	0.0	0.1
Unprotected dug well/ Unprotected spring	0.8	15.0
Pond, river, stream	1.4	36.5
Tanker or truck vendor	6.4	0.8
Other	1.5	1.1
<b>TOTAL</b>	<b>100.0</b>	<b>100.2</b>
<b>Access to improved drinking water sources</b>	<b>90%</b>	<b>47%</b>

Source: WHO/UNICEF, 2001

<b>CENSUS 1989</b>		
(Population in thousands)		
<b>WATER</b>	<b>Urban</b>	<b>Rural</b>
Piped Water	3276	2919
Well	155	2884
Stream/River	209	8740
Other	224	3042
<b>Total Population Served</b>	<b>3431</b>	<b>5803</b>
<b>Total Population</b>	<b>3864</b>	<b>17585</b>
Total wells	155	2884
% of wells with handpumps from DHS89	70.13	867.52
50% of estimated wells without handpump estimated protected	42.43	1008.24
<b>Access to improved drinking water sources (incl % wells)</b>	<b>88%</b>	<b>22%</b>

<b>FORM-6/WHO 1999</b>		
<b>Water</b>	<b>Urban</b>	<b>Rural</b>
Population served with household connection	3566	2905
Population without household connection but with reasonable access to a public water point	2188	6613
<b>Total population served</b>	<b>5754</b>	<b>9518</b>
Total population unserved	374	14100
Total population	6128	23618
<b>Access to improved drinking water sources</b>	<b>94%</b>	<b>40%</b>