



**WHO / UNICEF**

**Joint Monitoring Programme  
for Water Supply and Sanitation**

Coverage Estimates  
**Improved Sanitation**

Updated in July 2008

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**Kenya**

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## Urban and Rural Sanitation - Kenya

DHS	1989	
SANITATION	Urban	Rural
Flush Toilet*	46.7	1.3
Pit Latrine**	47.6	80.4
Bucket	1.9	1.1
No Facilities	3.4	0.4
Other	0.1	0.1
Missing	0.4	16.7
<b>TOTAL</b>	<b>100.0</b>	<b>100.0</b>
Pit latrines considered improved based on WHS 03	45.8	70.5
<b>Access to improved sanitation</b>	<b>93%</b>	<b>72%</b>
<b>Estimation of private House connections, based on WHS03</b>	<b>45%</b>	<b>1%</b>

Source: DHS Kenya, 1989

DHS	1993	
SANITATION	Urban	Rural
Own Flush Toilet	23.5	1.1
Shared Flush Toilet	21.4	0.5
VIP	6.9	5.9
Traditional Pit Toilet**	42.3	71.4
No Facilities/Bush	2.1	20.3
Other	3	0.3
Missing info	0.9	0.5
<b>TOTAL</b>	<b>100</b>	<b>100</b>
Traditional pit toilets considered improved based on WHS 03	40.8	62.6
<b>Access to improved sanitation</b>	<b>93%</b>	<b>70%</b>
<b>Estimation of private House connections, based on WHS03</b>	<b>43%</b>	<b>1%</b>

Source: DHS Kenya, 1993

## Survey

DHS	1998	
SANITATION	Urban	Rural
Own Flush Toilet	24.7	1.5
Shared Flush Toilet	18.3	0.6
Ventilated Improved Pit	10.7	5.7
Traditional Pit Toilet	42.3	73.3
No Facilities	2.6	18.6
Other	1	0.1
Missing info	0.3	0.3
<b>TOTAL</b>	<b>100</b>	<b>100</b>
Traditional pit toilets considered improved based on WHS 03	40.8	64.3
<b>Access to improved sanitation</b>	<b>94%</b>	<b>72%</b>
<b>Estimation of private House connections, based on WHS03</b>	<b>41%</b>	<b>2%</b>

Source: DHS Kenya, 1998

MICS	2000	
SANITATION	Urban	Rural
Flush to sewage/septic tank	38.1	6
Pour flush latrine	4.7	0.4
Improved pit latrine	6.9	6.4
Traditional pit latrine**	45.4	64
Open pit	2.6	6
Bucket	0.8	0.0
No facilities/ bush/ field	1.3	17.2
Other	0.3	0.1
<b>TOTAL</b>	<b>100</b>	<b>100</b>
ratio improved latrines/all latrines	0.20	0.10
Traditional pit toilets considered improved based on WHS 03	43.7	56.1
<b>Access to improved sanitation</b>	<b>93%</b>	<b>69%</b>
<b>Estimation of private House connections, based on WHS03</b>	<b>37%</b>	<b>5%</b>

Source: Kenya Multiple Indicator Cluster Survey 2000,

DHS	2003	
	Urban	Rural
<b>SANITATION</b>		
Flush toilet	39	1.7
VIP latrine	11.7	7.3
Traditional pit toilet	44.2	70.3
No facility,bush,field	3.7	20.4
Other	1.2	0.1
Missing	0.2	0.2
<b>TOTAL</b>	<b>100</b>	<b>100</b>
Traditional pit toilets considered improved based on WHS 03	42.6	61.7
<b>Access to improved sanitation</b>	<b>93%</b>	<b>71%</b>
<b>Estimation of private House connections, based on WHS03</b>	<b>38%</b>	<b>1%</b>

Source: Kenia Demographic and Health Survey 2003.

WHS	2004	
	Urban	Rural
<b>Proportion shared</b>	<b>0.80</b>	<b>0.36</b>
<b>SANITATION</b>		
Private domestic connection to sewage system	9.9	0.9
Shared domestic connection to sewage system	26.4	0.4
Private flush to septic tank	1.4	0.8
Shared flush to septic tank	2.6	0.6
Private pour flush latrine	1.1	0.2
Shared pour flush latrine	5.6	0.1
Private covered dry latrine (with privacy)	7.0	49.3
Shared covered dry latrine (with privacy)	42.8	27.2
Uncovered dry latrine (without privacy)	2.1	10.7
Bucket latrine (where fresh excreta are manually removed)	0.0	0.0
No facilities (open defecation)	1.0	9.1
Other	0.0	0.9
<b>TOTAL</b>	<b>100.0</b>	<b>100.0</b>
<b>ratio improved latrines/all latrines</b>	<b>0.96</b>	<b>0.88</b>
<b>Ratio flush to Sewerage/flush to sewerage and septic tank</b>	<b>0.90</b>	<b>0.50</b>
<b>% Private improved sanitation</b>	<b>97%</b>	<b>79%</b>
<b>% Private sewerage connections</b>	<b>36%</b>	<b>1%</b>

Source: World Health Survey, WHO, 2004.

**\* DHS have a new question about shared facilities with other households**

## Census

CENSUS	1989	
(Population in thousands)		
SANITATION	Urban	Rural
Main Sewer*	1'109	70
Pit Latrine**	2'202	12'626
Bush	139	4'361
Other	414	528
<b>Total Population</b>	<b>3'864</b>	<b>17'585</b>
Pit latrines considered improved based on WHS 03	2121.6	11077
<b>Access to improved sanitation</b>	<b>84%</b>	<b>63%</b>
<b>Estimation of private House connections</b>	<b>#REF!</b>	<b>#REF!</b>

Source: 1989 census as recorded in the Global Water

Census	1999	
SANITATION	Urban	Rural
Main sewer	23.0	0.9
Septic-tank	6.4	0.5
Cess-pool	1.1	0.1
Pit-latrine	63.1	75.0
Bucket-latrine	0.7	0.3
Bush	4.3	22.6
Other	0.7	0.4
Unknown	0.7	0.2
TOTAL	100.0	100.0
Improved latrines based on MICS00	12.8	7.2
50% of remainder pit latrines considered improved	48.4	59.5
<b>Access to improved sanitation</b>	<b>91%</b>	<b>68%</b>
<b>% House connections</b>	<b>23%</b>	<b>1%</b>

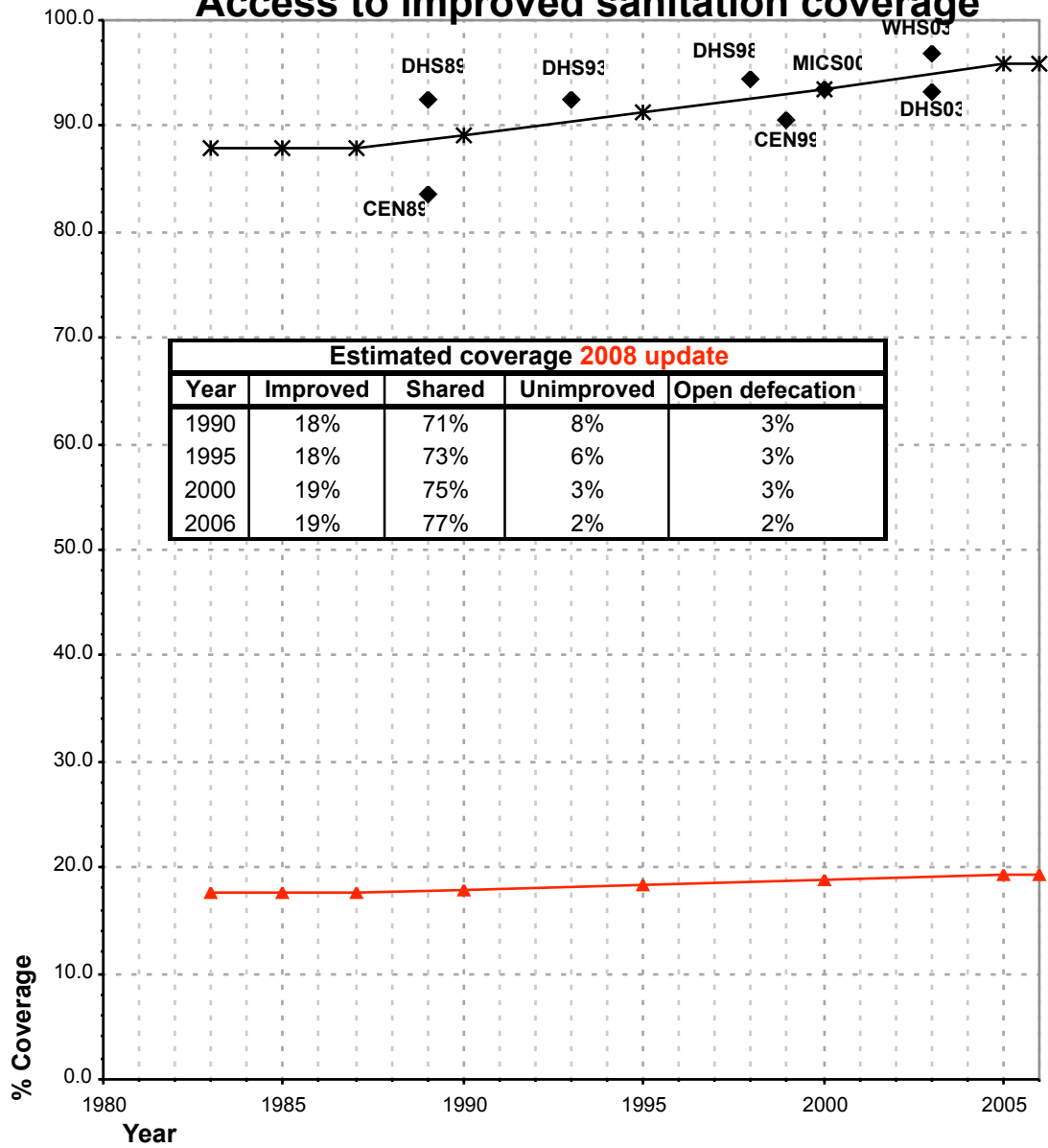
Source: Kenya census 1999 (10% micro dataset from IPUMS).

**Estimate**

FORM6/WHO	1999	
SANITATION	Urban	Rural
Population served with household connections to conventional sewers	1'716	94
connections but served with adequate, private or shared on-site system	4'253	19'131
<b>Total population served</b>	<b>5'969</b>	<b>19'225</b>
Total population unserved	159	4'393
Total population	6'128	23'618
<b>Access to improved sanitation</b>	<b>97%</b>	<b>81%</b>
<b>Estimation of private House connections</b>	<b>#REF!</b>	<b>#REF!</b>

Kenya			SANITATION								OPEN DEFECACTION			
			URBAN				RURAL							
			HC		Total		HC		Total		Urban		Rural	
Source	Code	Year	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates
The International Drinking Water Supply and Sanitation Decade. Review of National Baseline Data (as at December 1980). WHO 1984	WHO80	1980		49.0		89.0				19.0				
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983		49.0		75.0				39.0				
Kenyan Demographic and Health Survey 1989.	DHS89	1989	45.0		92.5		1.1		71.9			3.4		0.4
Kenyan National Census, 1989.	CEN89	1989			83.6				63.4		3.6		24.8	
Kenyan Demographic and Health Survey 1993.	DHS93	1993	43.3		92.6		1.4		70.1		2.1		20.3	
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 December 1994. WHO/UNICEF 1996.	JMP96	1993				69.0				81.0				
Kenyan Demographic and Health Survey 1998	DHS98	1998	41.4		94.5		1.8		72.1		2.6		18.6	
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999		14.7		97.0		0.3		81.0				
Kenya Multiple Indicator Cluster Survey 2000, Preliminary Report, December 2000	MICS00	2000	36.7		93.4		5.3		68.9		1.3		17.2	
Kenia Demographic and Health Survey 2003.	DHS03	2003	37.6		93.3		1.5		70.7		3.7		20.4	
World Health Survey, WHO, 2003.	WHS03	2003	36.3		96.8		1.3		79.4		1.0		9.1	
Census 1999, from IPUMS	CEN99	1999	23.0		90.6		0.9		68.1		4.3		22.6	

# Kenya - urban - Access to improved sanitation coverage



Improved plus shared

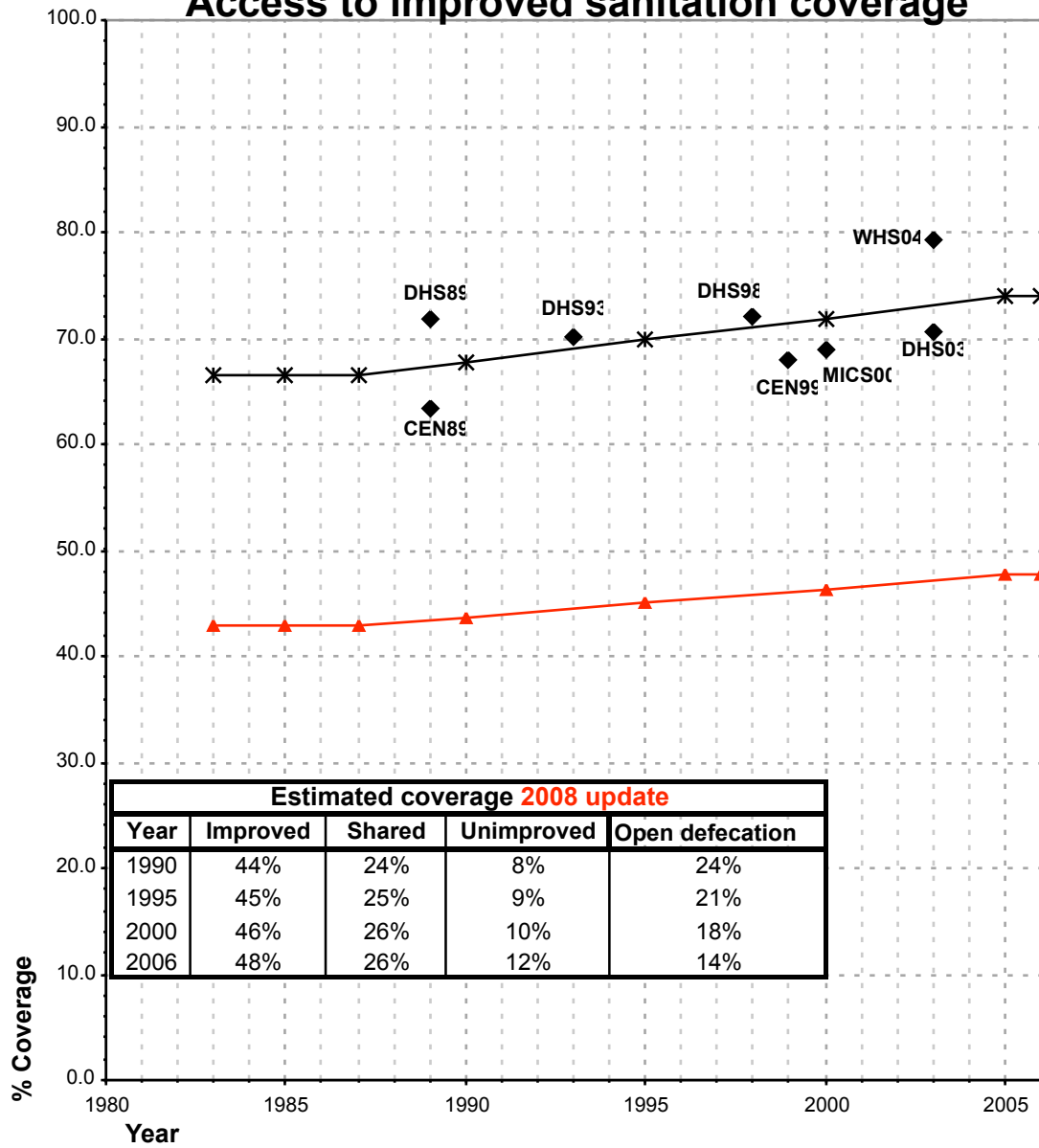
Improved

◆ Used for estimates    \*— Estimates    ▲— JMP 2008 estimate

**Shared facilities :**

The proportion of the population using a shared improved sanitation facility is based on the WHS03

# Kenya - rural - Access to improved sanitation coverage



Improved plus shared

Improved

◆ Used for estimates

✱ Estimates

▲ JMP 2008 estimate

### Shared facilities :

The proportion of the population using a shared improved sanitation facility is based on the WHS03