



**WHO / UNICEF**

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

Coverage Estimates  
**Improved Sanitation**

Updated in July 2008

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**South Africa**

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## Urbar

### Census

Census 1996		
INSUFFICIENT INFORMATION		
SANITATION	Urban	Rural
TOTAL	0	0
Access to improved sanitation	0%	0%

### Estimate

FORM6/WHO 1999		
DATA NOT SENT		
SANITATION	Urban	Rural
Population served with household connections to conventional sewers		
Total population served		
Total population unserved		
Total population		
Access to improved sanitation		

Source: South African national census: census in brief, 1996.

## Urban and Rural Sanitation - South Africa

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OHS	1994		
	Urban	Non-urban	Total
Flush toilet	84.7	11.7	53.1
Chemical toilet	2.1	1.5	1.8
VIP			
Other Pit Latrine	5.9	66.1	32.0
Bucket Latrine	6.4	1.6	4.3
No facility	1.0	19.2	8.9
<b>TOTAL</b>	<b>100.1</b>	<b>100.1</b>	<b>100.1</b>
Pit latrine estimated improved based on WHS03	4.9	58.2	
<b>Access to improved sanitation</b>	<b>92%</b>	<b>71%</b>	
<b>Estimation of House connections</b>	<b>85%</b>	<b>12%</b>	

Source: October Household Surveys 1994

## Surveys

OHS	1995			1996			1997			1998		
	Urban	Non-urban	Total	Urban	Non-urban	Total	Urban	Non-urban	Total	Urban	Non-urban	Total
Flush toilet	65.5	11.0	44	62.2	7.4	40.2	62.3	22.0	46.5	56.6	6.4	36.4
Flush toilet	19.8	4.6	14	18.5	2.7	12.2	20.7	3.1	13.8	23.1	4.6	15.6
Chemical toilet	0.5	1.3	0.8	1.2	1.8	1.5	0.6	0.5	0.6		0.5	0.2
VIP												
Other Pit Latrine	4.6	54.2	24	7.2	53.9	25.9	6.2	44.1	21.1	9.5	57.4	28.1
Bucket Latrine	6.4	1.4	4.4	5.6	1.1	3.8	4.6	0.7	3.1	5.4	0.6	3.5
Other											0.5	0.3
Flush toilet	1.1	0.6	0.9	1.2	0.4	0.9	1.5	0.3	1.0	2.1	0.4	1.4
Chemical toilet	0.3	0.3	0.3	0.2		0.2	0.2		0.2		0.3	0.2
VIP	0.1	2.2	0.9									
Other Pit Latrine	0.4	5.5	2.4	1.2	7.8	3.8	1.4	9.4	4.6	0.8	3.9	2.0
Bucket Latrine	0.7	0.2	0.5	0.7		0.5	0.8	0.3	0.6			
Other	0	0.3	0.1									
	0.6	18.5	7.7	2.0	24.5	11.0	1.6	19.4	8.5	2.1	27.8	12.1
<b>TOTAL</b>	<b>100</b>	<b>100.1</b>	<b>100</b>	<b>100.0</b>	<b>99.6</b>	<b>100.0</b>	<b>99.9</b>	<b>99.8</b>	<b>100.0</b>	<b>99.6</b>	<b>102.4</b>	<b>99.8</b>
Pit latrine estimated improved based on WHS03	3.8	47.7		6.0	47.4		5.1	38.8		7.9	50.5	
<i>ratio on site VIP/VIP+pit latrines</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>									
<b>% Private improved sanitation</b>	<b>90%</b>	<b>65%</b>		<b>88%</b>	<b>59%</b>		<b>89%</b>	<b>64%</b>		<b>88%</b>	<b>62%</b>	
<b>Estimation of private House connections</b>	<b>72%</b>	<b>14%</b>		<b>68%</b>	<b>9%</b>		<b>70%</b>	<b>22%</b>		<b>68%</b>	<b>10%</b>	

Source: October Household Surveys 1995, 1996, 1997, 1998

DHS		1998		
	Urban	Non-urban	Total	
Own flush toilet	73.1	6.9	46.0	
Shared Flush toilet	6.5	0.7	4.1	
VIP	8.0	3.1	6.0	
traditional latrine	9.5	62.5	31.2	
Other	0.4	0.4	0.4	
Missing	0.6	0.7	0.7	
No Facility	2.0	25.6	11.6	
<b>Total</b>	<b>100.1</b>	<b>99.9</b>	<b>100.0</b>	
improved based on WHS03	7.9	55.0		
<b>Access to private improved sanitation</b>	<b>96%</b>	<b>66%</b>		
<b>% sewerage connec</b>	<b>80%</b>	<b>8%</b>		

Source: DHS, 1998

OHS			1999	
Facility	Urban	Non-urban	Total	
<i>Sanitation in Dwelling</i>				
Flush toilet	53.8	6.7	35.1	
<i>Sanitation on site</i>				
Flush toilet	26.7	6.8	18.8	
Chemical toilet	0.2	0.5	0.3	
VIP	2	6.2	3.7	
Other Pit Latrine	6.5	42.3	20.7	
Bucket Latrine	3.7	0.4	2.4	
<i>Sanitation off site</i>				
Flush toilet	1.2	1.0	1.1	
Chemical toilet	0.1	0.3	0.2	
VIP	0.2	1.0	0.5	
Other Pit Latrine	1.8	10.9	5.4	
Bucket Latrine	1.2	0.2	0.8	
Other	0.8	3.0	1.6	
<i>No facility</i>	1.9	20.8	9.4	
<b>TOTAL</b>	<b>100.1</b>	<b>100.1</b>	<b>100</b>	
Pit latrine estimated improved based on WHS03	5.4	37.2		
<b>Access to private improved sanitation</b>	<b>88%</b>	<b>57%</b>		
<b>% sewerage connections</b>	<b>68%</b>	<b>13%</b>		

Source: October Household Survey 1999

WHS		2003	
Proportion shared improved facilities/all improved facilities		28.1%	28.2%
SANITATION	Urban	Rural	
Private domestic connection to sewage system	67.0	22.7	
Shared domestic connection to sewage system	25.9	7.9	
Private flush to septic tank	0.5	0.4	
Shared flush to septic tank	0.1	0.1	
Private pour flush latrine	0.1	0.9	
Shared pour flush latrine	0.1	0.2	
Private covered dry latrine (with privacy)	3.0	29.2	
Shared covered dry latrine (with privacy)	1.4	12.7	
Uncovered dry latrine (without privacy)	0.9	6.0	
Bucket latrine (where fresh excreta are manually removed)	0.4	0.3	
No facilities (open defecation)	0.3	13.0	
Other	0.2	6.6	
TOTAL	100.0	100.0	
<b>Ratio improved latrines/all latrines</b>	<b>0.83</b>	<b>0.88</b>	
<b>% Improved sanitation</b>	<b>98%</b>	<b>74%</b>	
<b>% sewerage connections</b>	<b>67%</b>	<b>23%</b>	
<i>Source: World Health Survey, WHO, 2003.</i>			

Census		2001	
SANITATION	Urban	Rural	
Flush toilet (connected to sewerage system)	75.4	6.7	
Flush toilet (with septic tank)	2.4	2.8	
Chemical toilet	1.2	3.4	
Pit latrine with ventilation (VIP)	2.6	11.1	
Pit latrine without ventilation	8.5	47.0	
Bucket latrine	5.7	1.3	
None	4.2	27.7	
TOTAL	100.0	100.0	
50% of Pit considered Improved	4.3	23.5	
<b>Access to improved sanitation</b>	<b>86%</b>	<b>48%</b>	
<b>% House connections</b>	<b>75%</b>	<b>7%</b>	

*Source: South Africa census 2000 (10% micro dataset from IPUMS).*

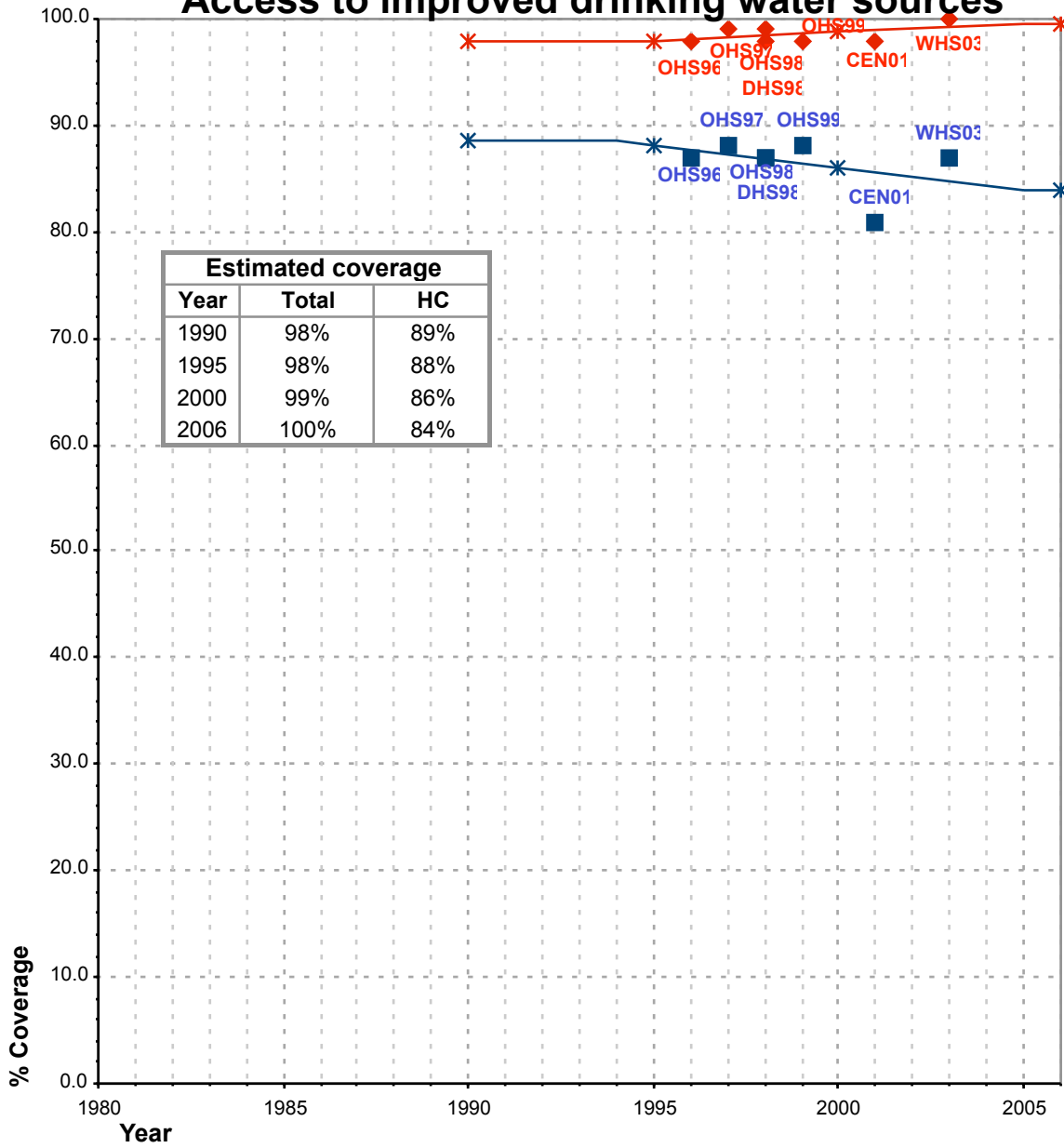
**Census**

<b>Census</b>		<b>2001</b>		
<b>SANITATION</b>	<b>% Urban</b>	<b>% Rural</b>	<b>Urban</b>	<b>Rural</b>
Flush toilet (connected to sewerage system)	74.4%	7.1%	5'201'412	298'600
Flush toilet (with septic tank)	2.5%	3.4%	171'623	141'363
Chemical toilet	1.2%	3.2%	84'107	134'279
Pit latrine with ventilation (VIP)	2.5%	11.0%	173'122	462'836
Pit latrine without ventilation	8.7%	46.3%	605'561	1'951'915
Bucket latrine	5.7%	1.4%	398'142	59'234
None	5.1%	27.7%	355'143	1'168'369
<b>TOTAL</b>	<b>100.0%</b>	<b>100.0%</b>	<b>6'989'110</b>	<b>4'216'595</b>
Pit latrine estimated improved based on WHS03	7.2%	40.7%		
<b>Access to improved sanitation</b>	<b>88%</b>	<b>65%</b>		
<b>% House connections</b>	<b>74%</b>	<b>7%</b>		

Source: South African national census, 2001

South Africa			DRINKING WATER							
			URBAN				RURAL			
			HC		Total		HC		Total	
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
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 December 1994. WHO/UNICEF 1996.	JMP96	1993								
October Household Survey - 1994	OHS94	1994		92.3		99.3		32.5		72.1
October Household Survey - 1995	OHS95	1995		93.9		98.9		37.6		73.4
South African national census: census in brief, 1996. BREAKDOWN NOT AVAILABLE	CEN96	1996				99.0				70.0
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999								
October Household Surveys 1996	OHS96	1996	87.0		98.0		25.0		71.0	
October Household Surveys 1997	OHS97	1997	88.0		99.0		27.0		70.0	
October Household Surveys 1998	OHS98	1998	87.0		99.0		29.0		71.0	
South African Demographic and Health Survey 1998.	DHS98	1998	87.0		98.0		27.0		66.0	
October Household Survey 1999	OHS99	1999	88.0		98.0		31.0		73.0	
South Africa National Census 2001	CEN01	2001	81.0		98.0		29.0		72.0	
World Health Survey, WHO, 2003.	WHS03	2003	87.0		100.0		47		87.0	
South Africa census 2000 (10% micro dataset from IPUMS)	CEN00	2001		83.0		98.0		27.0		71.0

# South Africa - urban - Access to improved drinking water sources



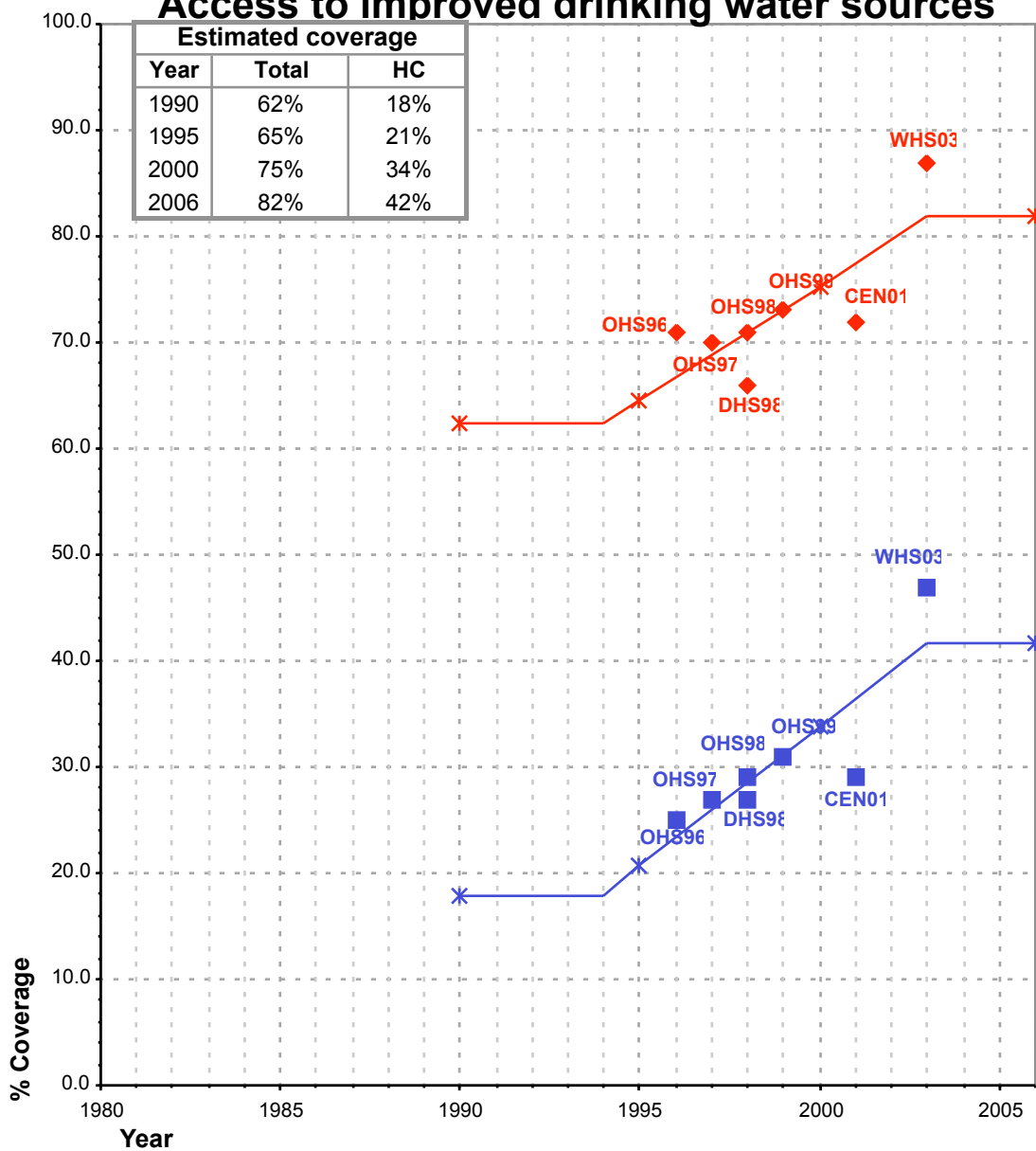
Estimated coverage		
Year	Total	HC
1990	98%	89%
1995	98%	88%
2000	99%	86%
2006	100%	84%

**Total improved access**      **Household connections (HC)**

◆ Used for estimates    ■ Used for estimates    \* Estimates    \* Estimate

**Total access :**  
**Household connections :**

# South Africa - rural - Access to improved drinking water sources



Total improved access

Household connections (HC)

◆ Used for estimates

■ Used for estimates

\* Estimates

\* Estimates

**Total access :** WHS has not been used for rural areas because the coverage of the categories do not match the other surveys.

**Household connections :**