



WHO / UNICEF

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

Coverage Estimates
Improved Sanitation

Updated in July 2008

India

Urban and Rural Sanitation - India

Demographic & Health Survey - 1992/93		
Sanitation	Urban	Rural
Flush Toilet ¹	60.1	6.9
Pit Latrine/Latrine ²	15.5	5.9
No Facility	24.1	87.1
Other	0.3	0.1
TOTAL	100.0	100.0
Estimated improved pit latrines based on NFHS 06	9.9	4.3
% Use of an improved sanitation facility	70%	11%
Open defecation	24%	87%

NOTE: The improved sanitation coverage is probably

National Sample Survey - 1993		
Sanitation	Urban	Rural
Flush System *	285	8
Septic tank *	296	55
Service Latrine	74	24
No Latrine	306	858
Others	38	52
N.R.	1	3
Total	1'000	1'000
% Use of an improved sanitation facility	58%	6%
Open defecation	31%	86%

NOTE: The improved sanitation coverage is probably

Survey

National Sample Survey -		1996	
Sanitation	Urban	Rural	
Flush System*	296	6	
Septic tank*	375	64	
Service Latrine	55	23	
No Latrine	230	844	
Others	44	62	
N.R.	0	0	
Total	1'000	999	
% Use of an improved sanitation facility	67%	7%	
Open defecation	23%	84%	

NFHS		1999	
Sanitation	Urban	Rural	Total
Own flush toilet	47.6	7.8	18.8
Shared flush toilet	7.7	0.6	2.6
Public flush toilet	8.6	0.4	2.6
Own pit toilet/ latrine	13.3	9.0	10.2
Shared pit toilet/ latrine	2.2	0.6	1.1
Public pit toilet/latrine	1.3	0.4	0.7
No facility/ bush/field	19.3	81.1	64.0
Other	0.0	0.1	0.1
Total	100.0	100.0	100.1
Estimated improved latrines based on NFHS 06	10.8	7.3	
% Use of an improved sanitation facility	66%	16%	
Open defecation	19%	81%	

NOTE: The improved sanitation coverage is

request) after: National Family Health Survey 1999.

Urban and Rural Sanitation - India (continued)

Estimate		
FORM-6/WHO	1999	
Sanitation	Urban	Rural
Population served with household connections to conventional public sewers	####	*
but served with adequate, private or shared on-site system	####	*
Total Population Served	####	*
Total Population Unserved	####	*
TOTAL	####	
% Use of an improved sanitation facility	49%	12%

MICS			
			2000
Sanitation	Urban	Rural	Total
Flush to sewage system or septic tank	40.2	7.2	16.4
Pour flush (water seal) type	17.1	2.6	6.7
Improved pit (e.g. VIP)	12.8	3.4	6.0
Simple pit	5.2	5.1	5.1
Service/bucket type	2.4	0.6	1.1
No toilet	22.0	81.1	64.6
Total	99.8	100.0	99.9
% Use of an improved sanitation facility	70%	13%	29%
Open defecation	22%	81%	

using the following hypothesis: 1) The proportion of

Source: MICS 2000 preliminary report

Although the MICS 2000 report states that "four-fifths" of the latrines are private. For consistency the ratio private shared of NFHS99 has been taken for estimating the private latrines in MICS2000

Census of India	2001
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Sanitation	Urban	Rural	Total
Water closet ¹	46.1%	7.1%	18.0%
Pit latrine ²	14.6%	10.3%	11.5%
Other latrine ²	13.0%	4.5%	6.9%
No latrine	26.3%	78.1%	63.6%
Total	100.0%	100.0%	100.0%
Estimated improved latrines based on NFHS 06	17.7%	10.8%	
% Use of an improved sanitation facility	64%	18%	
Open defecation	26%	78%	

Source: Census of India 2001

Survey

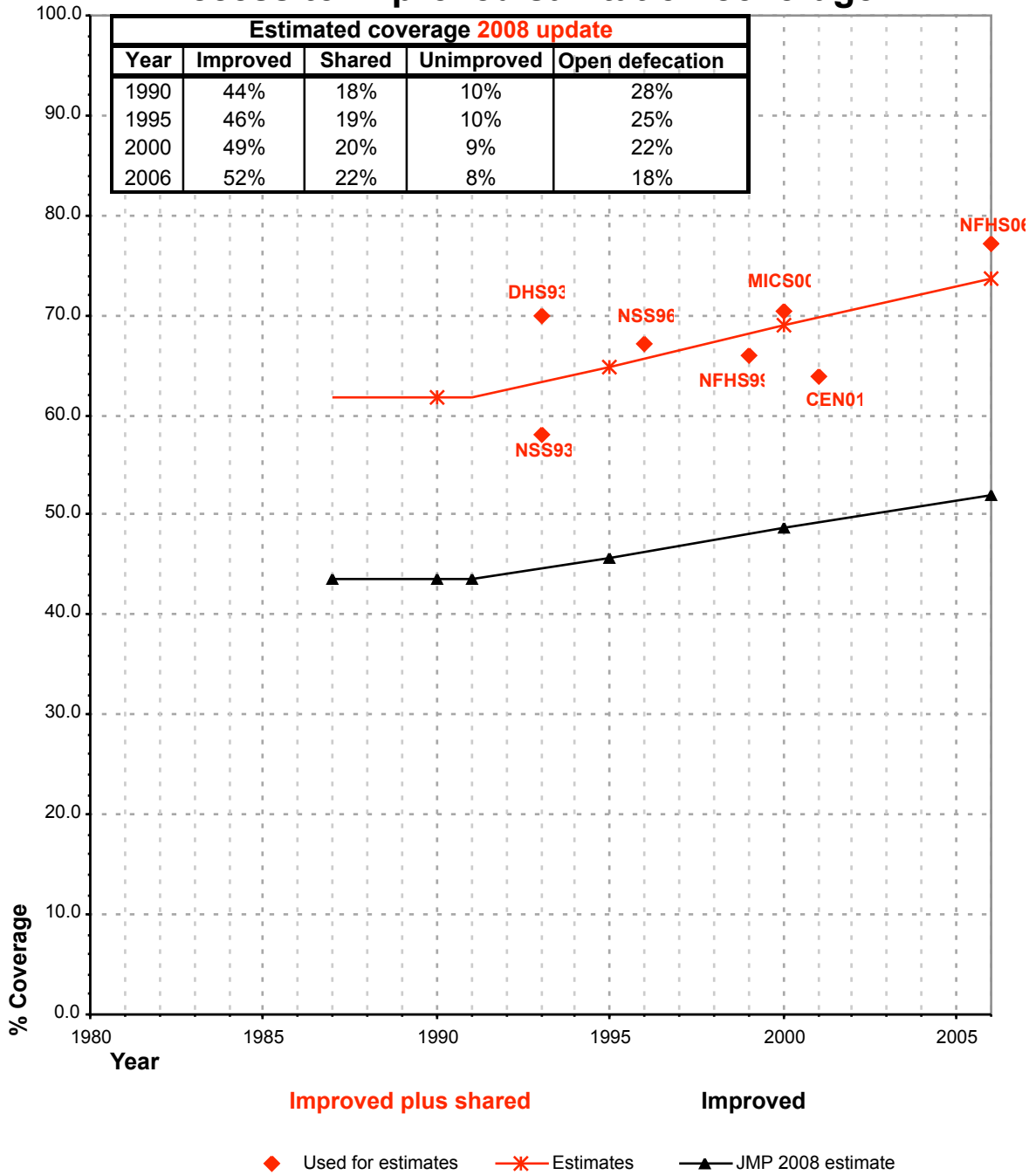
WHS		2003	
SANITATION	Urban	Rural	
Private domestic connection to sewage system	28.7	2.5	
Shared domestic connection to sewage system	5.6	0.1	
Private flush to septic tank	16.7	6.1	
Shared flush to septic tank	8.8	0.8	
Private pour flush latrine	15.0	4.3	
Shared pour flush latrine	6.7	1.2	
Private covered dry latrine (with privacy)	1.6	3.3	
Shared covered dry latrine (with privacy)	1.5	0.6	
Uncovered dry latrine (without privacy)	0.3	1.7	
Bucket latrine (where fresh excreta are manually removed)	1.5	0.9	
No facilities (open defecation)	13.6	78.4	
Other	0.0	0.1	
TOTAL	100.0	100.0	
% Use of an improved sanitation facility	85%	19%	
% Sewerage connections	34%	3%	
Open defecation	14%	78%	

Source: World Health Survey, WHO, 2003.

NFHS (=DHS)		2006	
facilities	0.29	0.21	
SANITATION	Urban	Rural	
Flush - to piped sewer system	28.3	0.8	
Flush - to septic tank	39.1	13.5	
Pit latrine - ventilated improved pit (VIP)	0.6	0.2	
Pit latrine - with slab	2.1	2.9	
Composting toilet	0.1	0.0	
Flush - to pit latrine	6.9	5.4	
Flush - don't know where	0.1	0.0	
Flush - to somewhere else	4.0	0.2	
Dry toilet	0.7	0.7	
Pit latrine - without slab/open pit	0.7	2.3	
No facility/uses bush/field	17.0	73.9	
OTHER	0.4	0.1	
TOTAL	100.0	100.0	
Estimated improved latrines/all latrines	0.64	0.73	
% Use of an improved sanitation facility	77%	23%	
% Sewerage connections	28%	1%	
Open defecation	17%	74%	

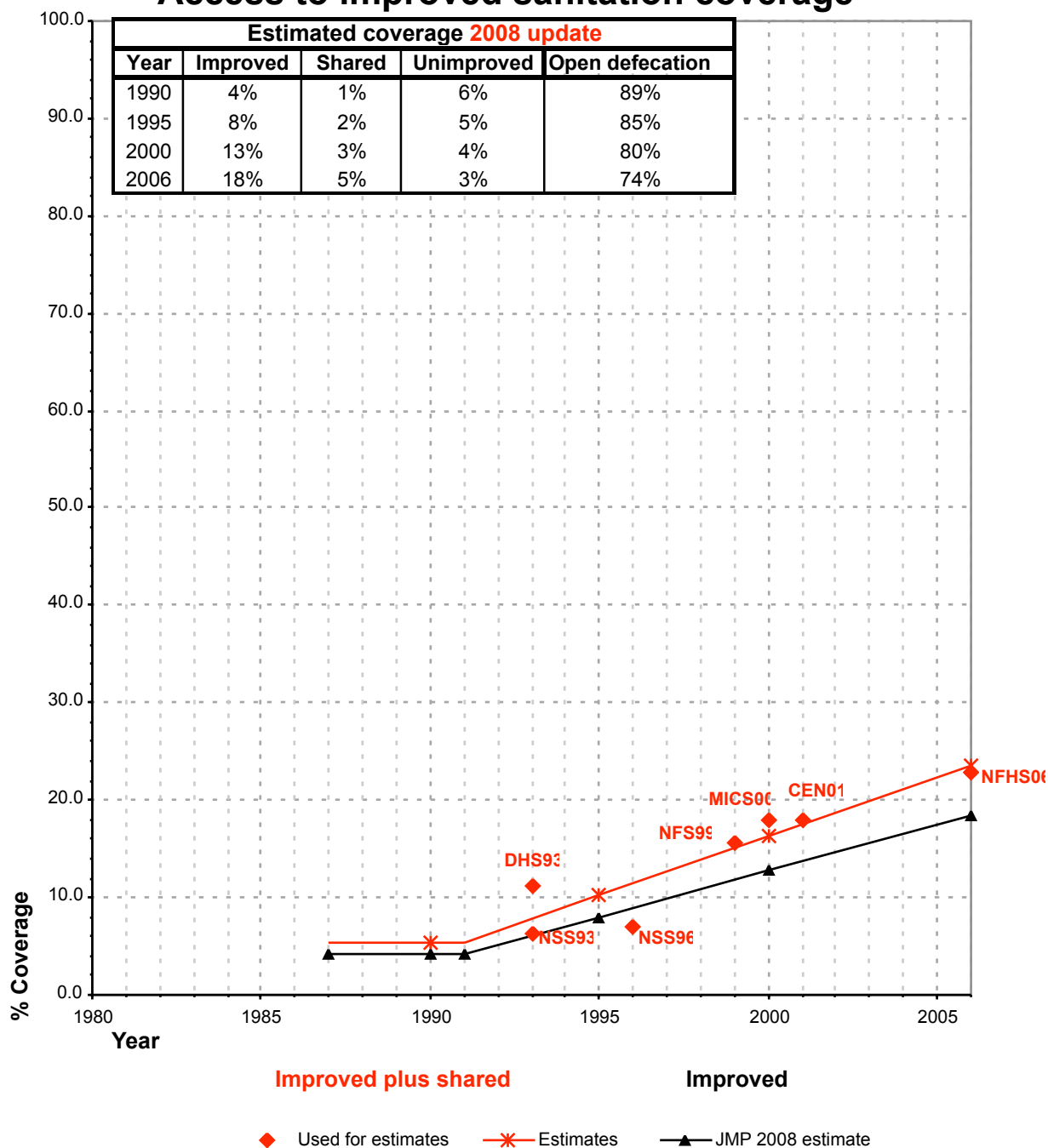
India			SANITATION										OPEN DEFECACTION			
			URBAN				RURAL									
			HC		Total		HC		Total		Urban		Rural			
Source	Code	Year	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	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 (No breakdown available)	WHO80	1980				27.0				1.0						
	CEN81	1981				58.0										
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983				30.0				1.0						
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990.	WHO88	1988				38.0				4.0						
National Sample Survey 1989 (No breakdown available)	NSS89	1989				69.0				11.0						
The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990). WHO1992.	WHO90	1990		31.0		44.0				3.0						
Water Supply and Sanitation Sector Monitoring Report 1993 (Sector Status as of 31 December 1991) (No breakdown available)	JMP93	1991				53.0				2.0						
	CEN91	1991				64.0				10.0						
India - Demographic & Health Survey - 1992/93	DHS93	1993	0.0		70.0		0.0		11.2		24.1		87.1			
India - National Sample Survey - 1993	NSS93	1993	0.0		58.1		0.0		6.3		30.6		85.8			
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 Decemb	JMP96	1994				70.0				14.0						
India - National Sample Survey - 1996	NSS96	1996	0.0		67.1		0.0		7.0		23.0		84.5			
	IIMC97	1997								17.0						
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999		28.2		49.0		6.4								
India, National Family Health Survey, 1998-1999, Special tabulation	NFHS99	1999	0.0		66.1		0.0		15.7		19.3		81.1			
Multi-Indicator Cluster Survey	MICS00	2000	0.0		70.3		0.0		17.9		22.0		81.1			
Census of India 2001	CEN01	2001	0.0		63.8		0.0		17.9		26.3		78.1			
World Health Survey, Primary data from WHS India, 2002	WHS03	2003		34.3		60		2.6		18.0						
India, National Family Health Survey, 2006 (= DHS 2006)	NFHS06	2006	28.3		77.2		0.8		22.9		17.0		73.9			

India - urban - Access to improved sanitation coverage



Shared facilities :
 The proportion of the population using a shared improved sanitation facility is based on the NFHS06

India - rural - Access to improved sanitation coverage



Shared facilities :
 The proportion of the population using a shared improved sanitation facility is based on the NFHS06