



WHO / UNICEF

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

Coverage Estimates
Improved Sanitation

Updated in July 2008

Viet Nam

DHS		1997		
Sanitation	Urban	Rural	Total	
Own flush toilet	64.5	5.6	16.8	
Shared flush toilet	2.9	0.4	0.9	
Vent. Imp. Pit toilet	7.3	9.4	9.0	
Traditional pit toilet*	16.9	58.4	50.5	
No facility, bush	8.3	26.2	22.8	
TOTAL	99.9	100.0	100.0	
Traditional pit latrines considered improved based on MICS00	7.7	22.0	19.4	
% Use of an improved sanitation facility	82%	37%		
% Sewerage connections	11%	0%		

MICS		2000		
SANITATION	Urban	Rural	Total	
Flush to sewage/septic tank	45.8	2.6	12.8	
Poor flush latrine (water seal type)	23.1	3.3	8.0	
Improved pit latrine	2.2	1.6	1.7	
Traditional pit latrine	10.7	24.9	21.6	
Open Pit	11.3	38.9	32.4	
Bucket	1.4	2.3	2.1	
Other	1.0	3.1	2.6	
No facilities	4.5	23.2	18.8	
TOTAL	100.0	99.9	100	
Ratio traditional pit of all dry latrines	0.46	0.38	0.39	
Sewerage connection estimates based on WHS03	1.9	0.1		
% Use of an improved sanitation facility	82%	32%		
% Sewerage connections	2%	0%		

DHS 2002		
SANITATION	Urban	Rural
Own flush toilet	78.8	11.6
Shared flush toilet	3.3	0.3
Vent. imp. pit toilet	4.0	12.8
Traditional pit toilet	9.9	53.6
Other/missing	0.0	1.1
No facility, bush	3.9	20.6
TOTAL	100	100
Traditional pit latrines considered improved based on MICS06	4.7	28.9
Sewerage connection estimates based on WHS03	3.4	0.5
% Use of an improved sanitation facility	91%	54%
% Sewerage connections	3%	0%

Source: Viet Nam Demographic and Health Survey 2002.

WHS 2003		
SANITATION	Urban	Rural
Private domestic connection to sewage system	2.6	0.8
Shared domestic connection to sewage system	0.5	0.3
Private flush to septic tank	51.2	17.8
Shared flush to septic tank	2.8	1.0
Private pour flush latrine	17.2	6.2
Shared pour flush latrine	1.6	0.2
Private covered dry latrine (with privacy)	11.8	32.8
Shared covered dry latrine (with privacy)	0.2	2.5
Uncovered dry latrine (without privacy)	2.4	10.1
Bucket latrine (where fresh excreta are manually removed)	1.3	4.6
No facilities (open defecation)	4.2	14.5
Other	4.2	9.3
TOTAL	100.0	100.0
Ratio improved latrines/all dry latrines	0.76	0.71
Ratio flush to sewerage	0.04	0.04
% Use of an improved sanitation facility	88%	62%
% Sewerage connections	3%	1%

Source: World Health Survey, WHO, 2003.

(*) See WHS.xls table for explanation of calculation

Urban and Rural Sanitation - Vietnam (co

AIS 2005				MICS 2006		
				Proportion shared improved facilities/all improved facilities		
				0.05		0.06
SANITATION	Urban	Rural	Total	SANITATION	Urban	Rural
Flush toilet	80.4	19.3	31.6	Flush/Pour flush to piped sewer system	2.7	0.9
Vent. imp. pit toilet	6.3	10.1	9.3	Flush/pour flush to septic tank	77.0	18.8
Traditional pit toilet/latrine	9.6	51.1	42.8	Flush/pour flush to pit latrine	3.6	4.1
				Ventilated improved Pit latrine (VIP)	0.1	0.3
No facility, bush	3.7	19.3	16.3	Pit latrine with slab	0.9	6.9
TOTAL	100	100	100	Composting toilet	5.1	24.8
				Flush to unknown place/not sure/DK	0.1	0.0
Traditional pit latrines considered improved based on MICS06	4.6	27.6	0.0	Flush/Pour flush to elsewhere	0.2	0.5
				Pit latrine without slab/open pit	1.9	10.9
				Bucket	0.2	1.7
				Hanging toilet/hanging latrine	4.6	14.7
				No facility, bush, field	3.4	15.3
				Other	0.0	1.2
				TOTAL	99.8	100.1
				Ratio flush to sewerage	0.03	0.05
Sewerage connection estimates based on MICS06	2.7	0.9		Ratio improved pit latrines	0.48	0.54
% Use of an improved sanitation facility	91%	57%		% Use of an improved sanitation facility	90%	56%
% Sewerage connections	3%	1%		% Sewerage connections	3%	1%

Source: Viet Nam Aids Indicator Survey 2005

Source: Viet Nam Multiple Indicator Cluster Survey, 2006

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Census					
Census 1989			Census 1998		
SANITATION	Urban	Rural	Sanitation	Urban	Rural
			Private septic tank and semi-septic	62.4	4.6
Modern Toilet	56.7	5.6	Latrine simple*	12.9	46.3
			Toilet directly over water	2.6	12.2
			Double vaulting composting latrine	7.7	9.9
			Other	14.3	27.1
Traditional	10.2	35.4	TOTAL	100	100
No	33.1	59.1			
TOTAL	100.0	100.0			
50% of traditional considered Improved	5.1	17.7	50% of latrines considered improved	5.9	17.4
% Use of an improved sanitation facility	62%	23%	% Use of an improved sanitation facility	76%	32%
% Sewerage connections			% House connections		

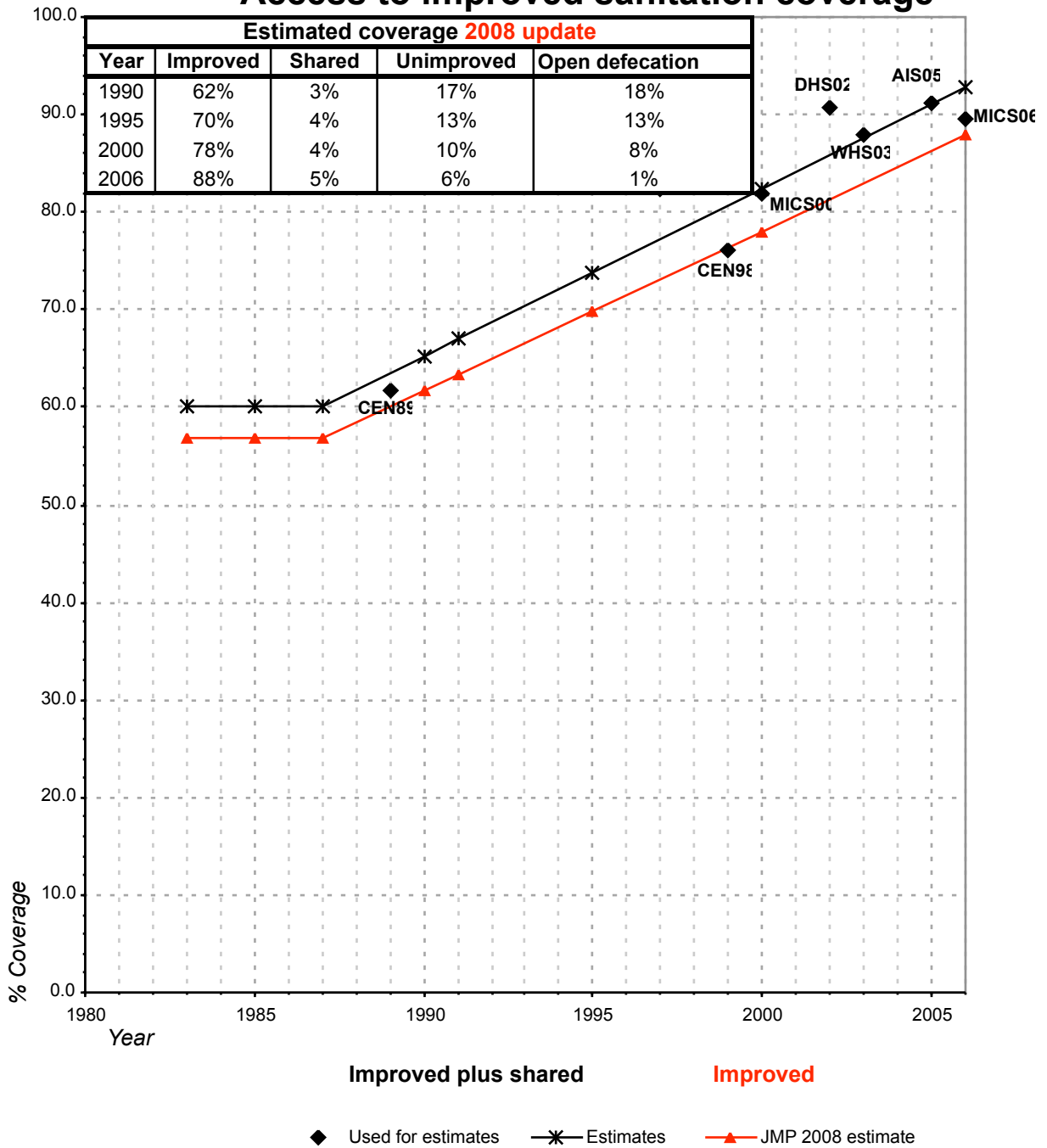
Source: Viet Nam census 1989 (10% micro dataset from IPUMS).

Estimate

FORM6/WHO		1999	
Sanitation	Urban	Rural	
Population served with household connections to conventional sewers	14'000	21'120	
Population without household connections but served with adequate, private or shared on-site system	1'000	9'600	
Total population served	15'000	30'720	
Total population unserved	1'000	33'280	
Total population	16'000	64'000	
% Use of an improved sanitation facility	94%	48%	
% Sewerage connections	88%	33%	

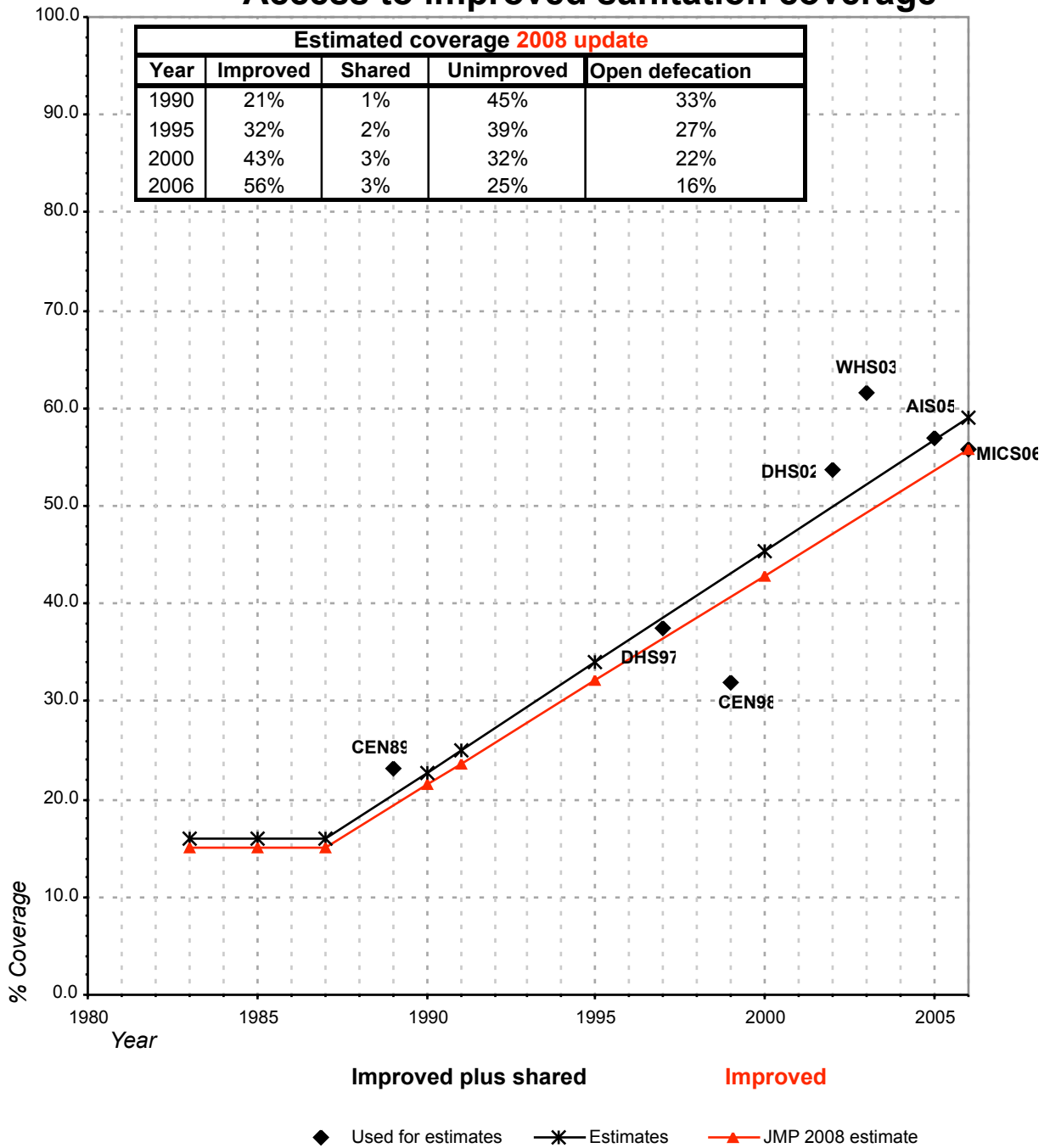
Viet Nam			SANITATION								OPEN DEFECCATION			
			URBAN				RURAL							
			HC	Total		HC	Total		Urban	Rural				
Source	Code	Year	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used for estimates	Not used for estimates	Used 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												
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983												
The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985). WHO 1987.	WHO85	1985												
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990.	WHO88	1988				48.0								
The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990). WHO1992.	WHO90	1990				23.0								
Water Supply and Sanitation Sector Monitoring Report 1993 (Sector Status as of 31 December 1991)	JMP93	1991				34.0								
Vietnam Living Standards Survey, 1992-1993	LSS93	1993				0.0							18.2	28.7
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 December 1994. WHO/UNICEF 1996.	JMP96	1994				43.0								
Analysis and Evaluation of Implementation of the Mid-Term Goals for Children, 1996-98, General Statistics Office and Vietnamese Committee for Protection and Care of Children,	GSO94	1994												
Figure officially submitted to UNICEF by the Centre for Rural Water Supply and Sanitation of the Ministry of Agriculture and Rural Development after consultation with the GSO.	GSO95	1995												
Analysis and Evaluation of Implementation of the Mid-Term Goals for Children, 1996-98, General Statistics Office and Vietnamese Committee for Protection and Care of Children,	NWS95	1995				50.0								
Analysis and Evaluation of Implementation of the Mid-Term Goals for Children, 1996-98, General Statistics Office and Vietnamese Committee for Protection and Care of Children,	MICS96	1996		3.3		61.9		0.0						
Viet Nam Demographic and Health Survey 1997. National Committee for Population and Family Planning. The Population and Family Health Project. Ha Noi 3 - 1999.	DHS97	1997		11.1	82.4			0.0		37.4			8.3	26.2
Form 4. Census 1998	CEN99	1999			76.0					31.9				
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1999		87.5		94.0		33.0		48.0				
Analysis of results of Multiple Indicator Cluster Survey II, General Statistical Office, Hanoi, 9/2000	MICS00	2000	1.9		81.8			0.1		32.4			4.5	23.2
Viet Nam Demographic and Health Survey 2002.	DHS02	2002	3.4		90.8			0.5		53.6			3.9	20.6
World Health Survey, WHO, 2003.	WHS03	2003	2.6		87.9			0.8		61.5			4.2	14.5
	DHS05	2005	2.7		91.3			0.9		57.0			3.7	19.3
	MICS06	2006	2.7		89.5			0.9		55.8			3.4	15.3
	Census	1989			61.8					23.3				

Viet Nam - urban - Access to improved sanitation coverage



Shared facilities :
 The proportion of the population using a shared improved sanitation facility is based on the MICS06

Viet Nam - rural - Access to improved sanitation coverage



Shared facilities :
 The proportion of the population using a shared improved sanitation facility is based on the MICS06