



WHO / UNICEF

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

Coverage Estimates
Improved Sanitation

Updated in July 2008

Peru

Urban and Rural Sanitation - Peru

ESN 1986			
SANITATION	Urban*	Rural	Total
Servicio publico	70.7	6.1	40.8
Tanque septico	2.3	0.9	1.7
Pozo septico	8.8	6.3	7.6
No tiene	18.2	86.6	49.9
TOTAL	100.0	100.0	100.0
% Use of an improved sanitation facility	82%	13%	

Open defecation **18%** **87%**

Source: Encuesta sobre niveles de vida y sector informal en el Peru, Primeros Resultados, 1986 Peru

DHS 1986		
SANITATION	Urban	Rural
Domestic connection to system	59.1	2.1
Water closet (Excusado)	4.5	1.0
Pour-flush (Botadero)	4.0	0.8
Blind well (soakaway)	2.5	2.8
"Turkish chair" (Silla turca)	0.6	0.0
No facility	27.5	92.9
Missing Information	0.4	0.0
Other	1.5	0.4
TOTAL	100.0	100.0
Proportion connected to sewerage based on LSMS94	60.2	3.0
% Use of an improved sanitation facility	71%	7%
% Sewerage connections	60%	3%

Open defecation **27%** **93%**

Source: DHS I, Peru, 1986

DHS 1992		
SANITATION	Urban	Rural
Private toilet	58.5	3.1
Shared toilet	5	0.2
Pour-flush (private)	4.1	1.1
Pour-flush (shared)	2.1	0.8
Simple pit (private)	10.5	19.6
Simple pit (shared)	1.9	2.5
No facility	9.1	63.4
Other	8.6	9.3
TOTAL	99.8	100.0
50% of simple pit considered improved	6.2	11.1
Proportion connected to sewerage based on LSMS94	60.2	3.2
% Use of an improved sanitation facility	76%	16%
% Sewerage connections	60%	3%

Open defecation **9%** **63%**

Source: DHS 1991-92, Peru

Survey

LSMS 1994		
SANITATION	Urban	Rural
PUBLIC NETWORK CONNECTION INSIDE HOUSE	68.0	2.8
PUBLIC NETWORK CONNECTION OUTSIDE HOUSE	3.7	0.1
SEPTIC TANK	7.8	12.4
PIT LATRINE	10.2	26.5
NO SANITATION FACILITIES	8.1	53.2
SEWER OR CANAL	2.2	4.9
TOTAL	100.0	99.9
50% of pit latrine considered improved	5.1	13.3
Proportion sewerage connection of sewerage and septic tank	0.95	0.97
% Use of an improved sanitation facility	85%	29%
% Sewerage connections	72%	3%
Open defecation	10%	58%

Source: LIVING STANDARDS MEASUREMENT STUDY SURVEY, Peru, 1994

DHS 1996		
SANITATION	Urban	Rural
Private toilet indoors	58.5	2.9
Shared toilet indoors	8.1	0.5
Private toilet outdoors	0.6	0.3
Shared toilet outdoors	2.2	0.4
Simple pit (private)	17.2	29.6
Simple pit (shared)	2.7	3.7
River, irrigation ditch, canal	0.6	0.8
Bush	8.6	61.2
Other	1.9	1
TOTAL	100.4	99.9
50% of simple pit considered improved	10.0	16.7
Proportion connected to sewerage based on ENNIV97	64.0	3.2
% Use of an improved sanitation facility	79%	21%
% Sewerage connections	64%	3%
Open defecation	9%	62%

Source: DHS 1996, Peru

ENNIV 1997		
SANITATION	Urban	Rural
Red publica dentro de la vivienda ¹	73.7	9.2
Red publica fuera de la vivienda ²	3.0	0.5
Pozo septico ³	4.5	7.6
Pozo ciego o negro ³	10.6	35.1
No tiene	7.3	44.6
Sobre acequia o canal	0.7	2.1
Otro	0.3	0.9
TOTAL	100.1	100.0
50% of pozo ciego o negro considered improved	5.3	17.6
Proportion sewerage connection of sewerage and septic tank	0.96	0.95
% Use of an improved sanitation facility	87%	35%
% Sewerage connections	77%	10%
Open defecation	8%	47%

Source: Desigualdades en el acceso, uso y gasto con el agua potable en America Latina y el Caribe, Peru, PAHO, Feb 2001, based on ENNIV 1997

Urban and Rural Sanitation - Peru

DHS 2000		
	Urban	Rural
SANITATION		
Inodoro exclusivo (dentro de la vivienda)	67.6	6.1
Inodoro comun (dentro de la vivienda)	4.5	0.4
Inodoro exclusivo (fuera de la vivienda)	0.7	0.7
Inodoro comun (fuera de la vivienda)	3.2	0.8
Letrina exclusiva (fuera de la vivienda)	14.3	37.1
Letrina comun (fuera de la vivienda)	1.3	3.5
No hay servicio	6.9	49.7
Rio/acequia/canal	1.3	1.7
Otra	0.1	0.1
TOTAL	99.9	100.1
50% of letrine exclusiva considered improved	7.8	20.3
Proportion connected to sewerage based on ENNIV97	73.0	7.6
% Use of an improved sanitation facility	84%	28%
% Sewerage connections	73%	8%
Open defecation	8%	51%

Source: Peru Demographic and Health Survey 2000.

DHS 2004		
Proportion shared improved facilities/all improved facilities		
	0.06	0.02
	Urban	Rural
SANITATION		
Inodoro exclusivo (dentro de la vivienda)	79.1	11.4
Inodoro comun (dentro de la vivienda)	5.2	0.6
Letrina exclusiva (fuera de la vivienda)	11.8	45.2
Letrina comun (fuera de la vivienda)	0.3	0.3
No hay servicio	2.7	41.4
Otra	0.9	1.1
TOTAL	100.0	100.0
50% of letrine exclusiva considered improved	6.1	22.8
Proportion connected to sewerage based on ENNIV97	81.0	11.4
% Use of an improved sanitation facility	90%	35%
% Sewerage connections	81%	11%
Open defecation	3%	41%

Source: Peru Demographic and Health Survey 2004.

DHS 2005		
Proportion shared improved facilities/all improved facilities		
	0.06	0.02
	Urban	Rural
SANITATION		
Inodoro exclusivo (dentro de la vivienda)	78.9	8.3
Inodoro comun (dentro de la vivienda)	5.7	0.5
Letrina exclusiva (fuera de la vivienda)	11.4	44.1
Letrina comun (fuera de la vivienda)	0.2	0.5
No hay servicio	2.6	43.8
Otra	1.2	2.8
TOTAL	100.0	100.0
50% of letrine exclusiva considered improved	5.8	22.3
Proportion connected to sewerage based on ENNIV97	81.3	8.3
% Use of an improved sanitation facility	90%	31%
% Sewerage connections	81%	8%
Open defecation	3%	44%

Source: Peru Demographic and Health Survey 2004-2005.

Census		
CENSUS		1993
(Population in thousands)		
SANITATION	Urban	Rural
Household connection (inside)	8'330.4	131.6
Household connection (outside)	789.4	31.2
Blind Well (Soakaway)	2'715.7	1'849.1
No Facility	2'281.3	5'286.7
River, irrigation ditch, canal*	221.8	164.4
TOTAL	14'338.6	7'463.0
50% of Blind well considered improved	1'357.9	924.6
Proportion connected to sewerage based on LSMS94	7'900.5	127.1
% Use of an improved sanitation facility	73%	15%
% Sewerage connections	55%	2%
Open defecation	17%	73%

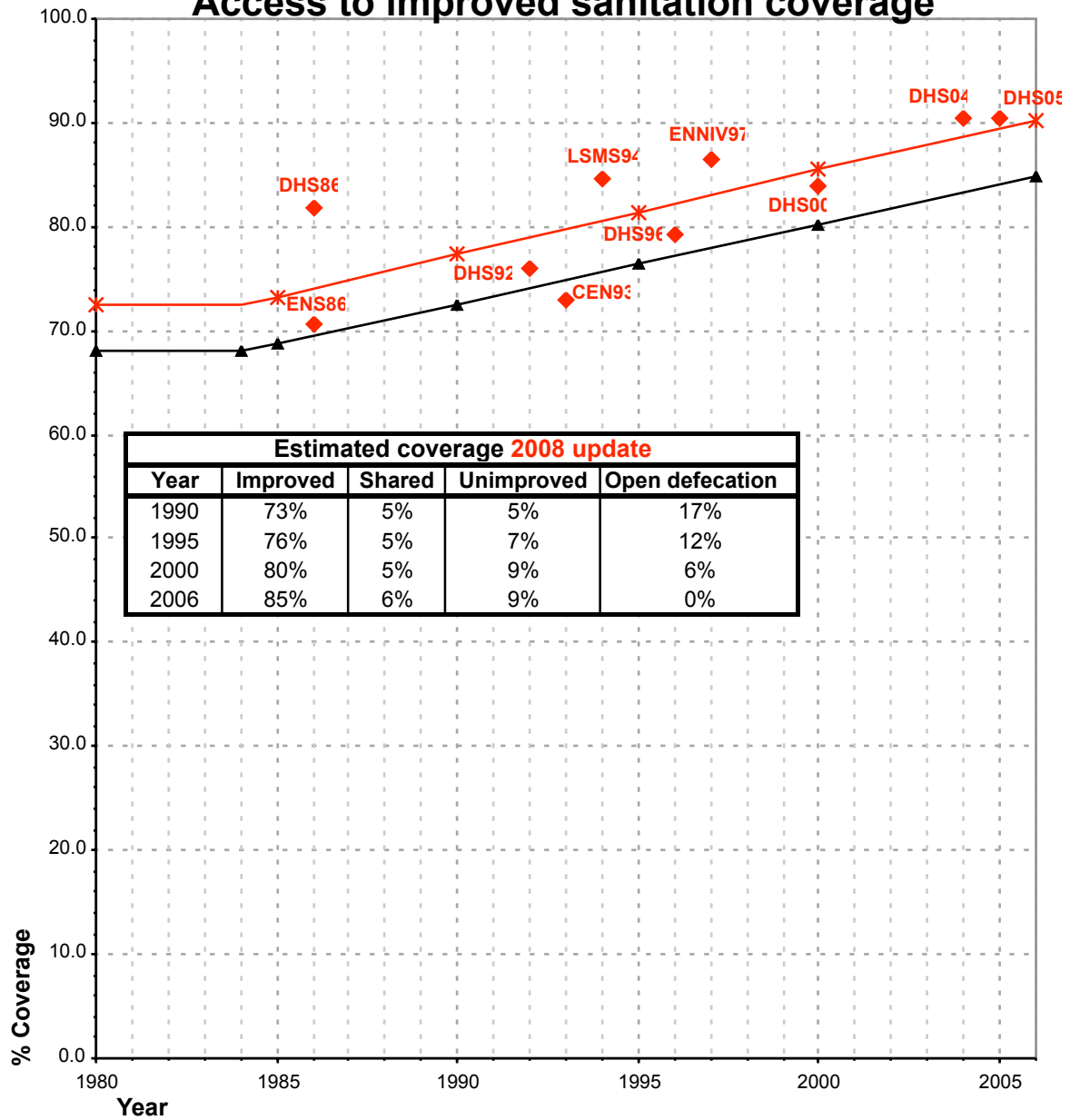
Source: 1993 census as recorded in the Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999

Estimate		
FORM6/WHO		1999
(Population in thousands)		
SANITATION	Urban	Rural
Population served with household connections to conventional sewers	11'369.6	1'708.1
Population without household connections but served with adequate, private or shared on-site system	3'818.2	1'388.0
Total population served	15'187.8	3'096.1
Total population unserved	1'781.8	4'735.0
Total population	16'969.6	7'831.1
% Use of an improved sanitation facility	90%	40%
% Sewerage connections	67%	22%
Open defecation		

Source: Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999 (Form 6 - sent to WHO)

Peru			SANITATION											
			URBAN				RURAL				OPEN DEFECACTION			
			HC	Total		HC	Total		Urban	Rural				
Source	Code	Year	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.	WHO80	1980			57.0				0.0					
The International Drinking Water Supply and Sanitation Decade.	WHO83	1983			57.0				1.0					
The International Drinking Water Supply and Sanitation Decade.	WHO85	1985			67.0				12.0					
Source: Encuesta sobre niveles de vida y sector informal en el Peru,	ESN86	1986		81.8			13.4			18.2		86.6		
Demographic & Health Survey, Peru 1986.	DHS86	1986		70.6		3.0		6.7		27.5		92.9		
The International Drinking Water Supply and Sanitation Decade.	WHO88	1988			71.0				17.0					
Supply and Sanitation Decade. End of Decade Review (as at	WHO90	1990			76.0				20.0					
Demographic & Health Survey, Peru 1991.	DHS92	1992	60.2	75.9		3.2		16.3		9.1		63.4		
Water Supply and Sanitation Sector Monitoring Report 1993	JMP93	1991			76.0				20.0					
1993 census as recorded in the Global Water Supply and	CEN93	1993	55.1	73.1		1.7		14.6		17.5		73.0		
Water Supply and Sanitation Sector Monitoring Report - 1996.	JMP96	1994			62.0				10.0					
Demographic & Health Survey, Peru 1996.	DHS96	1996	64.0	79.4		3.2		20.8		9.2		62.0		
gasto con el agua potable en America Latina y el Caribe, Peru,	ENNIV97	1997	76.7	86.5		9.7		34.9		8.0		46.7		
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998			90.0		21.8		40.0					
Peru Demographic and Health Sur	DHS00	2000	73.0	83.8		7.6		28.3		8.2		51.4		
LIVING STANDARDS MEASUREMENT	LSMS94	1994	71.7	84.6		2.9		28.6		10.3		58.1		
Peru Demographic and Health Sur	DHS04	2004	81.0	90.4		11.4		34.8		2.7		41.4		
Peru Demographic and Health Sur	DHS05	2005	81.3	90.4		8.3		31.1		2.6		43.8		

Peru - urban - Access to improved sanitation coverage



Improved plus shared

Improved

◆ Used for estimates

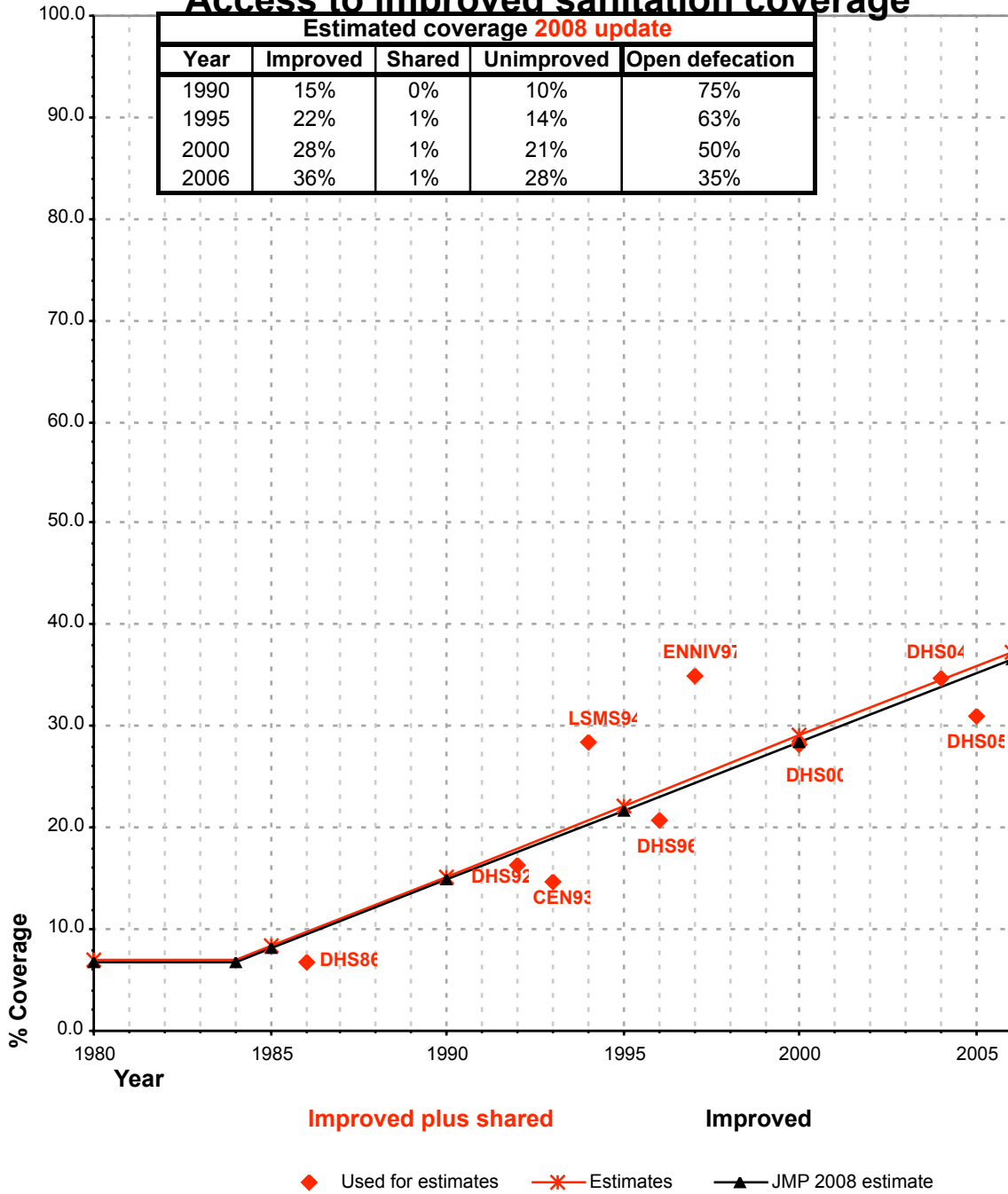
* Estimates

▲ JMP 2008 estimate

Shared facilities :

The proportion of the population using a shared improved sanitation facility is based on the average the DHS04 and DHS05

Peru - rural - Access to improved sanitation coverage



Shared facilities :
 The proportion of the population using a shared improved sanitation facility is based on the average the DHS04 and DHS05