



WHO / UNICEF

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

Coverage Estimates
Improved Sanitation

Updated in July 2008

Paraguay

DHS 1990		
SANITATION	Urban	Rural
WC con arrastre agua	49.8	5.3
Letrina	49.5	91.2
Otro	0.2	1.9
No hay servicios	0.4	0.4
Sin informacion/ no sabe	0	1.2
TOTAL	100	100
Comun letrina (based on CEN92)	42.0	84.4
estimate of improved latrines from WHS03	40.1	29.2
Access to improved sanitation	90%	34%

Open defecation 0% 0%

Source: DHS Paraguay, 1990

ENDSR95/96 1996			
Sanitation	Urban	Rural	Total
Bano moderno	23.1	1	12.4
Bano moderno con pozo ciego	45.7	10.6	28.8
Letrina municipal	7.5	9.7	8.6
Letrina comun	23.3	77.5	49.3
Otro/No responde	0.5	1.3	1
TOTAL	100	100	100
Ratio comun letrina	0.76	0.89	0.85
estimate of improved latrines from WHS03	25.0	27.9	
Access to improved sanitation	94%	39%	
Estimated house connections	15%	0%	

Open defecation

Source: Encuesta Nacional de Demografía y Salud Reproductiva (ENDSR-95/96), page 13

ENSMI-98 1998			
Sanitation	Urban	Rural	Total
Bano moderno conectado a red publica	17.9	0.4	10.1
Bano moderno con pozo ciego	62	12.7	40.1
Letrina municipal	1.9	2.2	2
Letrina comun	17.4	84.1	47
Otro/No responde	0.8	0.6	0.7
TOTAL	100	100	100
Ratio conectado a red publica	0.22	0.03	
Ratio comun letrina	0.90	0.97	0.96
estimate of improved latrines from WHS03	15.7	27.6	
Access to improved sanitation	96%	41%	
% House connections	18%	0%	

Open defecation

Source: Encuesta Nacional de Salud Materno Infantil: 1998 (ENSMI-98), November 1999, page 12.

Urban and Rural Sanitation - Paraguay

Survey																																																																																																																																															
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Census

Census	1992	
(Population in thousands)		
SANITATION	Urban	Rural
W.C. pozo ciego	918.054	143.794
W.C. red publica	297.121	0.062
Letrina municipal	121.693	128.287
Letrina comun	679.406	1'600.796
No tiene	32.796	161.188
No informado	12.466	16.328
Total population	2'061.536	2'050.455
Ratio comun letrina	0.85	0.93
estimate of improved latrines from WHS03	649.7	552.8
Access to improved sanitation	90%	34%
% House connections	14%	0%
Open defecation	2%	8%

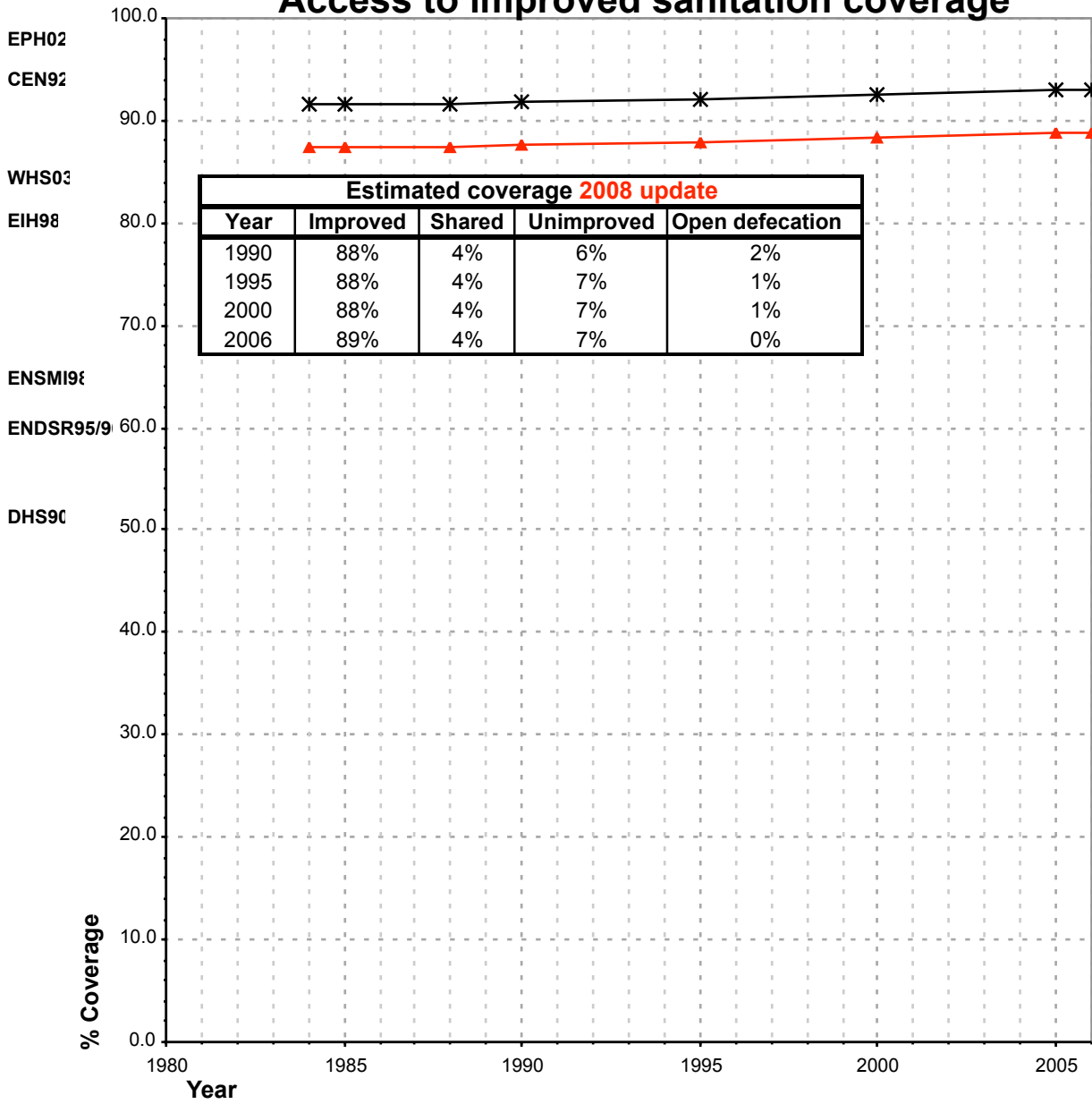
Estimate

FORM6/WHO	1999	
(Population in thousands)		
SANITATION	Urban	Rural
Population served with household connections to conventional sewers	384.461	0.000
Population without household connections but served with adequate, private or shared on-site system	2'493.335	2'500.347
Total population served	2'877.795	2'476.520
Total population unserved	27.331	23.827
Total population	2'905.126	2'500.347
Access to improved sanitation	99%	99%
% House connections	13%	0%
Open defecation		

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

Paraguay	SANITATION											
	URBAN				RURAL				OPEN DEFECACTION			
	HC		Total		HC		Total		Urban		Rural	
	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
Source												
The International Drinking Water Supply and Sanitation. Review of National Baseline Data (as at December 1980). WHO 1984.		30.0		95.0				89.0				
The International Drinking Water Supply and Sanitation. Review of National Progress (as at December 1983). WHO 1986.		28.0		92.0				84.0				
The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985). WHO 1987.		29.0		66.0				40.0				
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990.		25.0		55.0				60.0				
The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990). WHO 1992.				31.0				60.0				
Domestic and Household Survey, Paraguay, 1990.			89.9				34.5					
Census 1992		14.4	90.5			0.0	34.0		1.6		7.9	
Global Water Supply and Sanitation Sector Monitoring Report 1993. Sector Status as of 31 December 1991. WHO/UNICEF 1993.				56.0								
Encuesta Nacional de Demografia y Salud Reproductiva (ENDSR-95/96), page 13		15.4	93.8			0.4	39.5					
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Encuesta Nacional de Salud Materno Infantil: 1998 (ENSMI-98), November 1999, page 12.		17.9	95.6			0.4	40.7		1.0			
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.		13.2		99.0		0.0	99.0					
World Health Survey, WHO, 2003.		19.0	86.7			0.2	34.0		0.3		0.9	
Encuesta Permanente de Hogares, 2002		15.9	95.4			0.3	48.5		0.7		1.2	

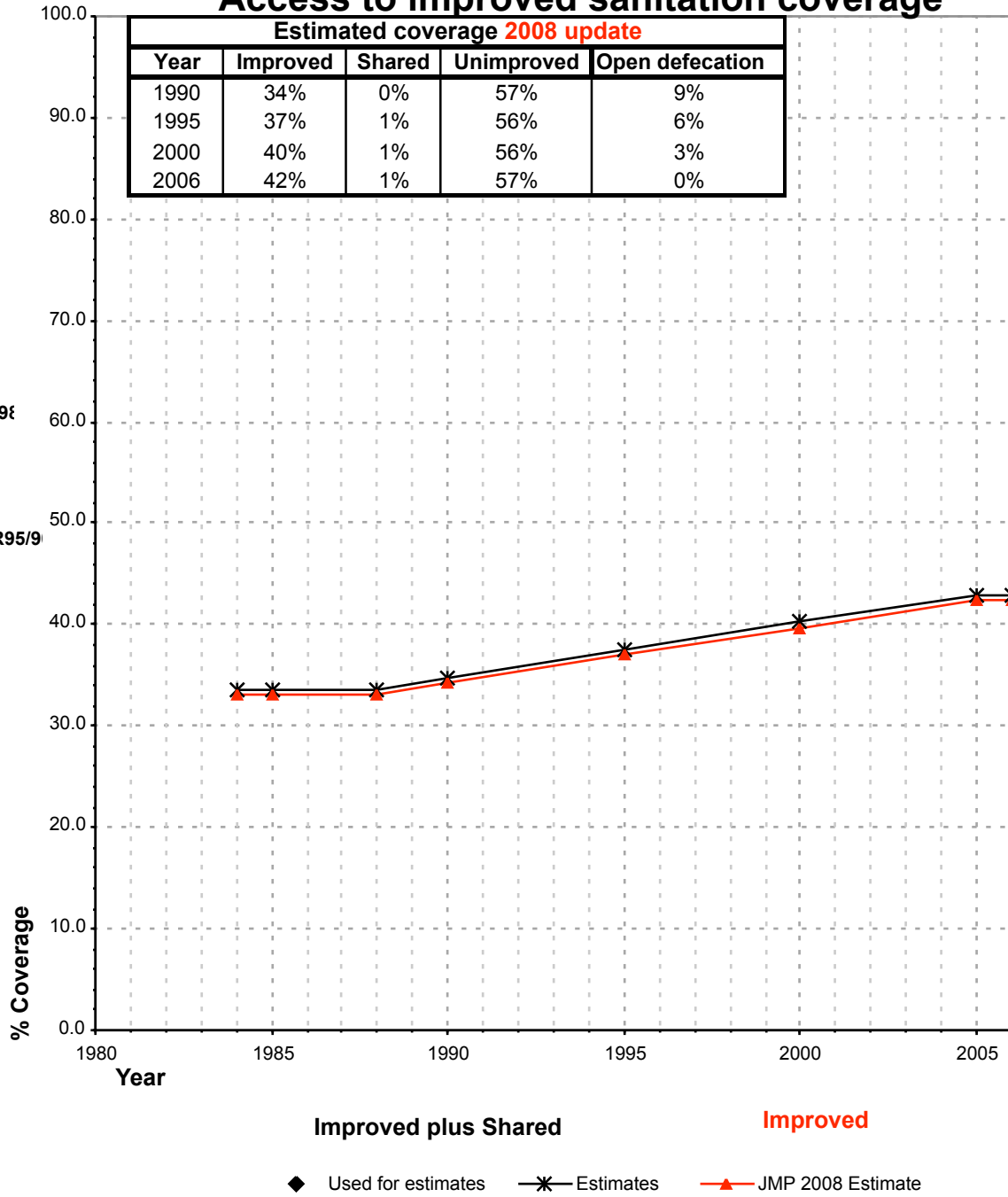
Paraguay - urban - Access to improved sanitation coverage



◆ Used for estimates
 ✱ Estimates
 ▲ JMP 2008 Estimate

Total access :

Paraguay - rural - Access to improved sanitation coverage



Total access :
Sewerage connections :