



WHO / UNICEF

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

Coverage Estimates
Improved Sanitation

Updated in July 2008

Nicaragua

DHS		1992	
SANITATION	Urban	Rural	
Toilet	34.3	2.9	
Latrine	62.2	54.3	
No facility	3.5	42.8	
TOTAL	100.0	100.0	
50% of latrines considered improved	31.1	27.2	
% Use of an improved sanitation facility	65%	30%	
% Sewerage connections			

LSMS			1993	
Total	Urban	Rural		
Inodoro exclusivo, a la red publica	32.8	0.4		
Letrina exclusiva, a la red publica	3.3	0.3		
Inodoro exclusivo, a pozo septico	1.8	0.2		
Inodoro exclusivo, a pozo ciego	3.8	1.0		
Inodoro no exclusivo	3.9	0.2		
Inodoro sin connexion	3.0	1.2		
Letrina exclusiva, a pozo septico	1.3	0.5		
Letrina exclusiva, a pozo ciego	1.1	0.2		
Letrina no exclusiva	8.6	8.9		
Letrina exclusiva, sin connexion	36.9	46.0		
No tiene sanitario	3.4	40.7		
TOTAL	99.9	99.6		
50% of Letrinas considered Improved	22.8	27.5		
% Use of an improved sanitation facility	74%	31%		
% Sewerage connections	36%	1%		

DHS		1998	
SANITATION	Urban	Rural	
Descarga a aguas negras	37.2	0.9	
Descarga a foso septico	1.4	1.1	
Descarga en sumidero	2.8	0.5	
Fozo con ventilacion	2.5	3.7	
Fozo sin ventilacion	51.8	61.8	
No tiene	3.3	29.8	
Otro	0.6	2.0	
No info.	0.3	0.2	
TOTAL	99.9	100.0	
50% of Fozo sin ventilacion considered Improved	25.9	30.9	
% Use of an improved sanitation facility	70%	37%	
% Sewerage connections	37%	1%	

% Open defecation

4%

43%

Source: Domestic and Household Survey, Nicaragua, 1992.

% Open defecation

3%

41%

Source: LIVING STANDARDS MEASUREMENT STUDY SURVEY, 1993

% Open defecation

3%

30%

Source: Domestic and Household Survey, Nicaragua, 1998.

Urban and Rural Sanitation - Nicaragua

Survey

LSMS		1998	
Proportion shared improved facilities/all improved facilities		0.16	0.19
SANITATION		Urban	Rural
Private toilet connected to sewage pipe		19.3	0.2
Shared toilet connected to sewage pipe		3.5	0.0
Private toilet connected to septic well		8.1	0.9
Shared toilet connected to septic well		1.3	0.2
Private latrine		51.6	50.7
Shared latrine		10.4	11.8
To flow into a river		0.1	0.0
None		5.7	36.2
TOTAL		100.0	100.0
50% of Letrinas considered Improved		31.0	31.3
% Use of an improved sanitation facility		63%	33%
% Sewerage connections		19%	0%

DHS		2001	
SANITATION		Urban	Rural
Descarga a aguas negras		30.8	0.1
Descarga a pozo séptico		2.3	0.6
Descarga en sumidero		8.3	1.9
Foso con ventilacion		8.1	13.9
Foso sin ventilacion		46.3	52.2
Abonera		0.3	1.0
Da al cauce, rio o quebrada		0.7	0.1
Colgante		0.0	0.2
Sin servicio		3.1	30.0
TOTAL		99.9	100.0
50% of Fozo sin ventilacion considered Improved		23.2	26.1
% Use of an improved sanitation facility		73%	44%
% Sewerage connections		31%	0%

% Open defecation

6%

36%

Source: LIVING STANDARDS MEASUREMENT STUDY SURVEY, 1998

% Open defecation

4%

30%

Source: Nicaragua Demographic and Health Survey 2001.

Estimate

LSMS		2001	
Proportion shared improved facilities/all improved facilities		0.14	0.13
SANITATION		Urban	Rural
Inodoro, conectado a tuberías de aguas negras de uso exclusivo del hogar		20.9	0.2
Inodoro, conectado a sumidero o pozo séptico de uso exclusivo del hogar		8.5	1.0
Inodoro, conectado a tuberías de aguas negras, non es de uso exclusivo del hogar		2.6	0.0
Inodoro, conectado a sumidero o pozo séptico, non es de uso exclusivo del hogar		0.8	0.2
Excusado o letrina, de uso exclusivo del hogar		50.0	59.3
Excusado o letrina, non es de uso exclusivo del hogar		11.6	8.9
Inodoro, que descarga en río o quebrada		0.1	0.0
No tiene		5.4	30.5
TOTAL		100.0	100.2
50% of Letrinas considered Improved		30.8	34.1
% Use of an improved sanitation facility		64%	36%
% Sewerage connections		21%	0%

FORM6/WHO		1999	
(Population in thousands)			
SANITATION		Urban	Rural
Population served with household connections to conventional sewers		812.9	0.0
connections but served with adequate, private or shared on-site system		1'525.4	1'218.1
Total population served		2'338.3	1'218.1
Total population unserved		176.0	957.1
Total population		2'514.3	2'175.2
% Use of an improved sanitation facility		93%	56%
% Sewerage connections		32%	0%

% Open defecation

6%

31%

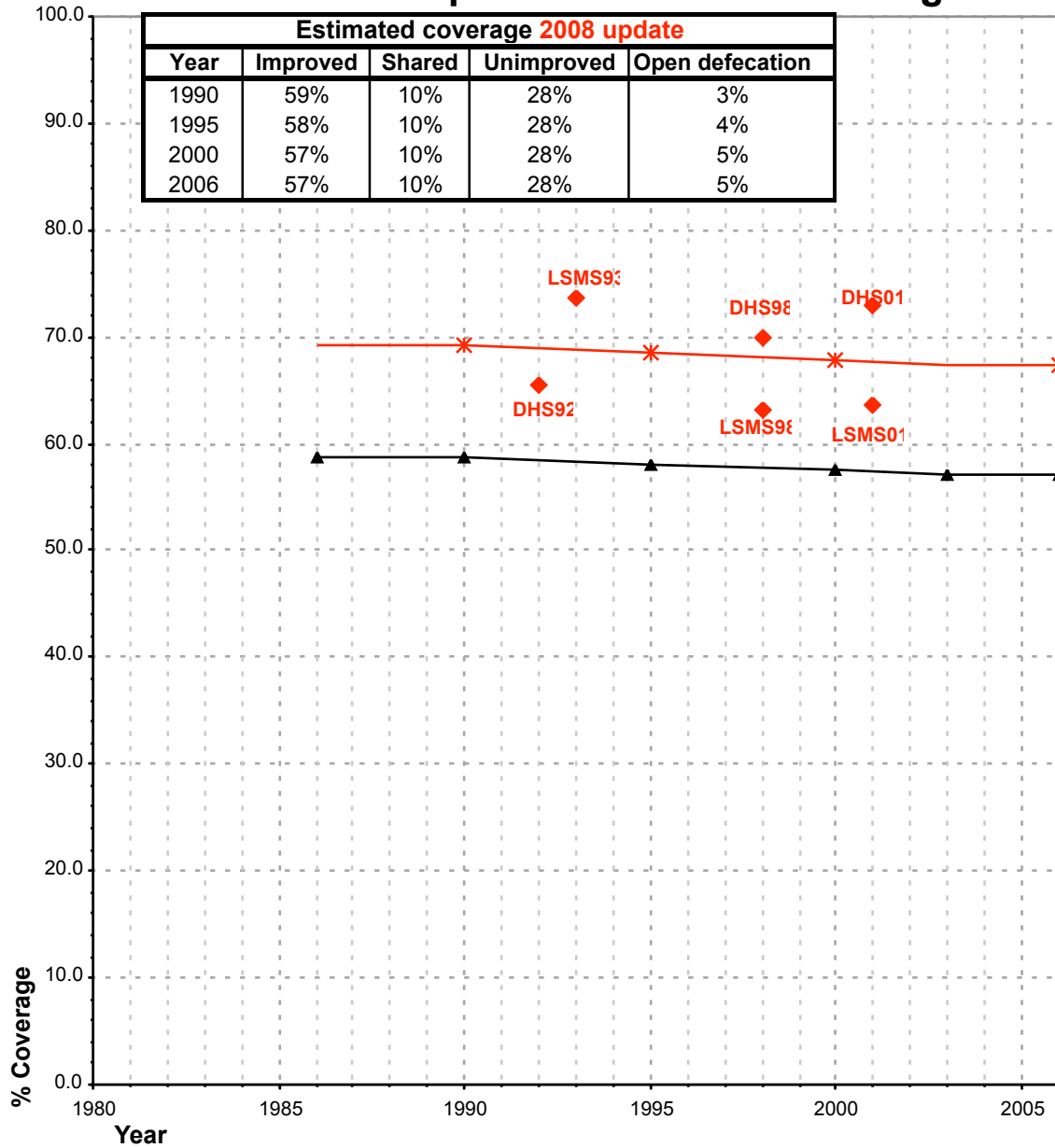
Source: LIVING STANDARDS MEASUREMENT STUDY SURVEY, 2001

% Open defecation

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

Nicaragua			SANITATION											
			URBAN				RURAL				OPEN DEFECTION			
			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		35.0		35.0								
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1983). WHO 1986.	WHO83	1983		35.0										
The International Drinking Water Supply and Sanitation Decade. Review of Mid-Decade Progress (as at December 1985). WHO 1987.	WHO85	1985		35.0										
The International Drinking Water Supply and Sanitation Decade. Review of National Progress (as at December 1988). WHO 1990.	WHO88	1987		32.0										
The International Drinking Water Supply and Sanitation Decade. End of Decade Review (as at December 1990). WHO1992.	WHO90	1990		30.0										
Water Supply and Sanitation Sector Monitoring Report 1993 (Sector Status as of 31 December 1991)	JMP93	1991				78.0				78.0				
Domestic and Household Survey, Nicaragua, 1992.	DHS92	1992	0.0		65.4		0.0		30.1		3.5		42.8	
Water Supply and Sanitation Sector Monitoring Report - 1996. Sector Status as of 31 December 1994. WHO/UNICEF 1996.	JMP96	1993				34.0				27.0				
Living Standard Measurement Survey, 1993	LSMS93	1993	36.1		73.8		0.7		31.5		3.4		40.7	
Domestic and Household Survey, Nicaragua, 1998.	DHS98	1998	37.2		69.9		0.9		37.1		3.3		29.8	
Living Standard Measurement Survey, 1998	LSMS98	1998	19.3		63.2		0.2		32.6		5.8		36.2	
Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999. (Form 6 sent to WHO)	JMP99	1998		32.3		93.0		0.0		56.0				
Nicaragua Demographic and Health Survey 2001.	DHS01	2001	30.8		73.0		0.1		43.6		3.8		30.1	
Living Standard Measurement Survey, 2001	LSMS01	2001	20.9		63.6		0.2		35.5		5.5		30.5	

Nicaragua - urban - Access to improved sanitation coverage



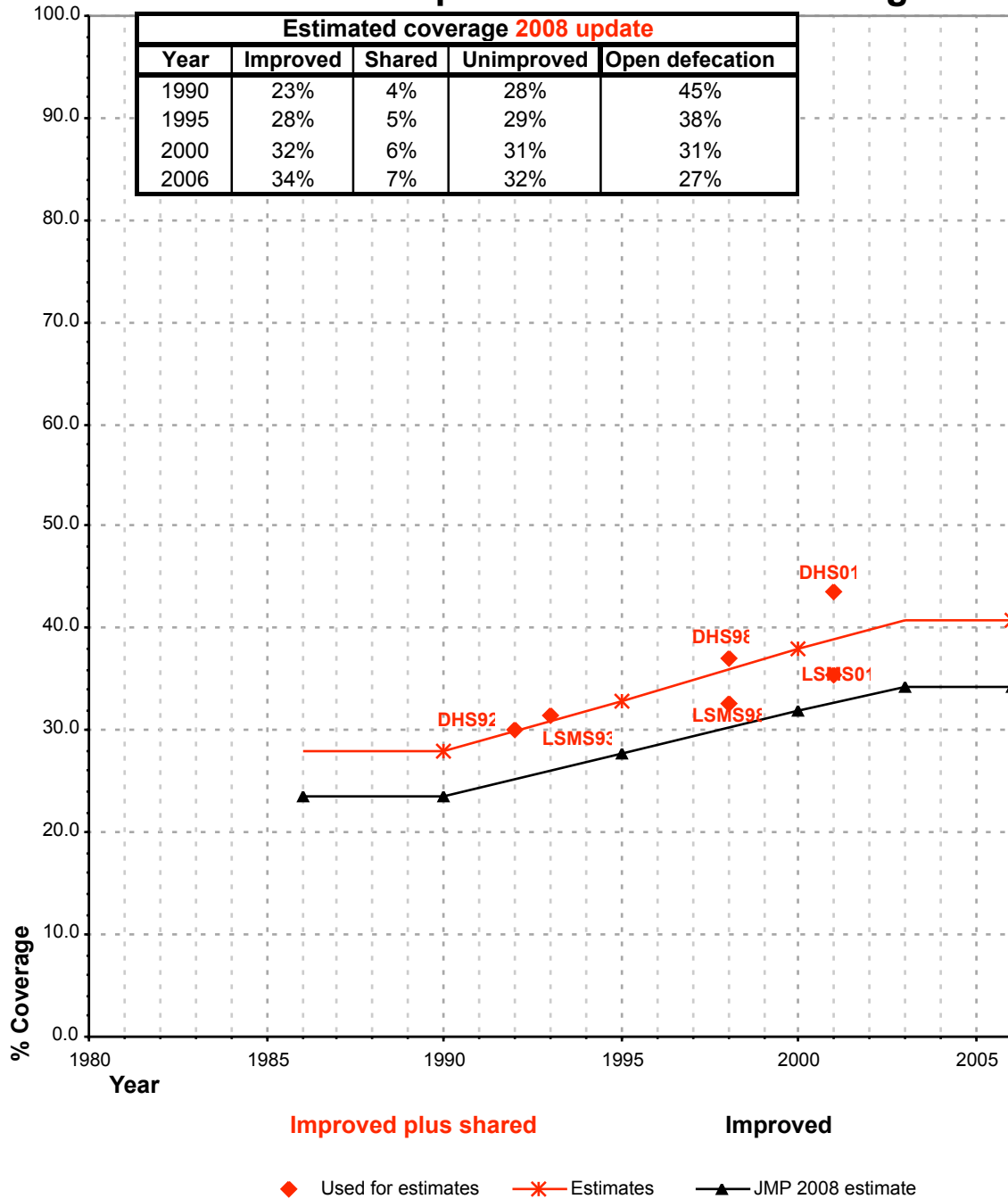
Improved plus shared

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 of the LSMS98 and LSMS01

Nicaragua - rural - Access to improved sanitation coverage



Shared facilities :
The proportion of the population using a shared improved sanitation facility is based on the average of the LSMS98 and LSMS01