

WHO / UNICEF

Joint Monitoring Programme
for Water Supply and Sanitation

Estimates for the use of

**Improved Drinking-Water Sources
and Improved Sanitation Facilities**

Updated March 2010

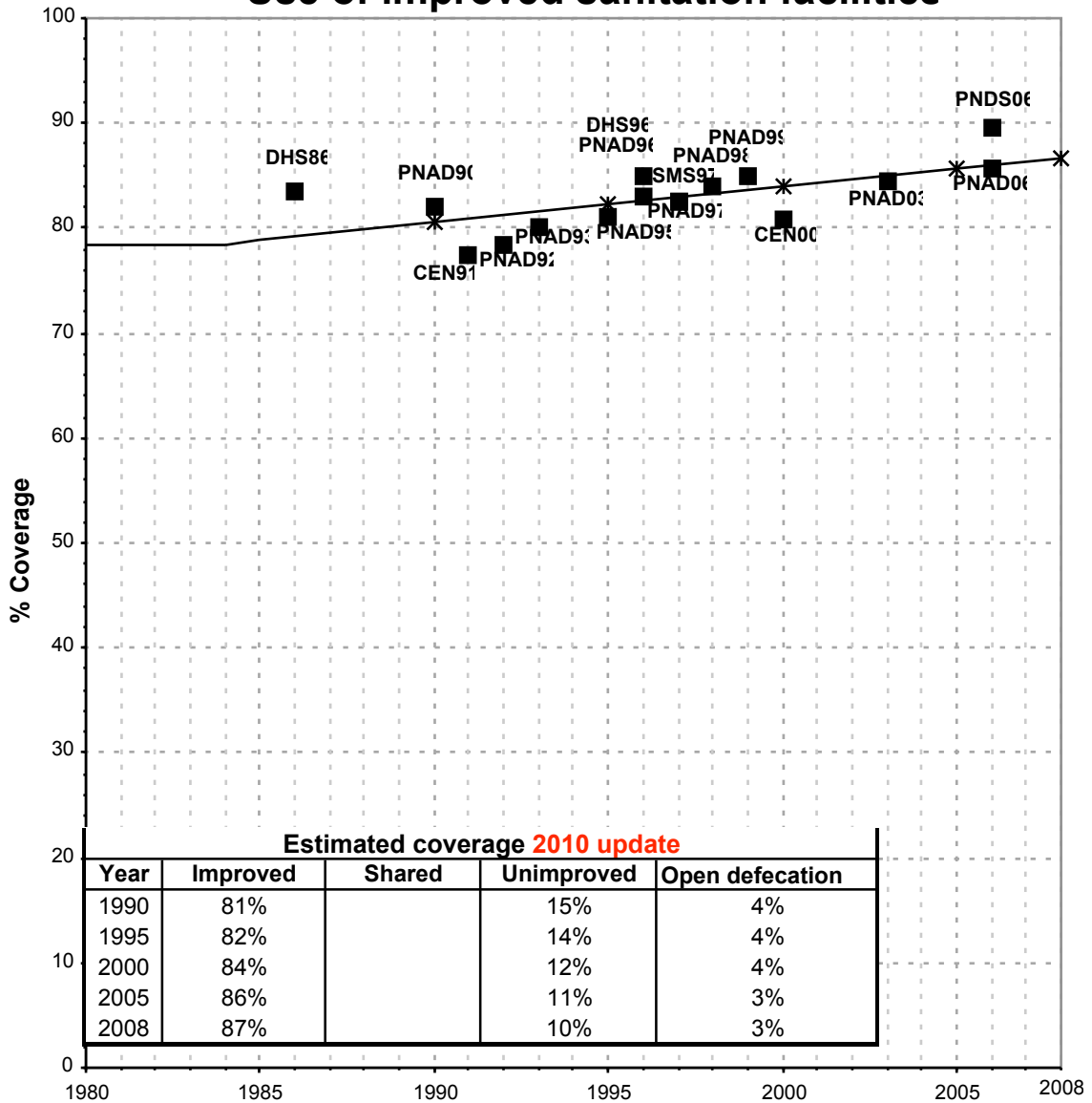
childinfo.org

Use of sanitation facilities		PNAD01			Brazil			Use of sanitation facilities		PNAD02			Brazil		
Pesquisa Nacional por Amostra de Domicílios					Pesquisa Nacional por Amostra de Domicílios										
IBGE					IBGE										
2001					2002										
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Flush and pour flush					Flush and pour flush									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Flush/toilets					Flush/toilets									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Private flush/toilet					Private flush/toilet									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Public/shared flush/toilet					Public/shared flush/toilet									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Latrines					Latrines									
	Pour flush latrines					Pour flush latrines									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Private pour flush latrine					Private pour flush latrine									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Public/shared pour flush latrine					Public/shared pour flush latrine									
	to piped sewer system					to piped sewer system									
	to septic tank					to septic tank									
	to pit					to pit									
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	Dry latrines					Dry latrines									
	Improved latrines					Improved latrines									
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine					Traditional latrine									
	Pit latrine without slab/open pit					Pit latrine without slab/open pit									
	Hanging toilet/hanging latrine					Hanging toilet/hanging latrine									
	Bucket latrine					Bucket latrine									
	Other					Other									
	Private Latrines					Private Latrines									
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine					Traditional latrine									
	Pit latrine without slab/open pit					Pit latrine without slab/open pit									
	Hanging toilet/hanging latrine					Hanging toilet/hanging latrine									
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	Other					Other									
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	Hanging toilet/hanging latrine					Hanging toilet/hanging latrine									
	Bucket latrine					Bucket latrine									
	Other					Other									
	Composting toilets					Composting toilets									
	Composting toilet (private)					Composting toilet (private)									
	Composting toilet (shared)					Composting toilet (shared)									
	Other improved					Other improved									
	Other					Other									
	Other					Other									
	No facility, bush, field					No facility, bush, field									
	Other unimproved					Other unimproved									
	Other					Other									
	Other					Other									
	DK/missing information					DK/missing information									
	Total					Total									
Calculations					Calculations										
Estimations					Estimations										
Access to improved sanitation :					Access to improved sanitation :										
Access to sewerage connections :					Access to sewerage connections :										
Used for the estimates:					Used for the estimates:										
No No					No No										
Used for the estimates:					Used for the estimates:										
No No					No No										
Ratios	Shared improved facilities/all improved facilities				Ratios	Shared improved facilities/all improved facilities									
	Improved latrine / All latrines					Improved latrine / All latrines									
	Covered dry latrines / All dry latrines					Covered dry latrines / All dry latrines									
	VIP / All latrines					VIP / All latrines									
	Traditional latrines / All latrines					Traditional latrines / All latrines									
	Improved + traditional latrines / All latrines					Improved + traditional latrines / All latrines									
	Sewerage connection among flush/pour flush					Sewerage connection among flush/pour flush									
	Sewerage connection among flush					Sewerage connection among flush									
	Number of people covered by the survey:					Number of people covered by the survey:									
	Number of households covered by the survey:					Number of households covered by the survey:									
	Total population:					Total population:									
Comments					Comments										

Use of sanitation facilities		PNAD03			Brazil			Use of sanitation facilities		PNAD04			Brazil						
Pesquisa Nacional por Amostra de Domicílios										Pesquisa Nacional por Amostra de Domicílios									
IBGE					2003					IBGE					2004				
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total				
	Flush and pour flush								Flush and pour flush										
		to piped sewer system								to piped sewer system									
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Access to improved sanitation :								Access to improved sanitation :											
Access to sewerage connections :								Access to sewerage connections :											
	Used for the estimates:				No	No			Used for the estimates:				No	No					
	Used for the estimates:				No	No			Used for the estimates:				No	No					
Ratios		Shared improved facilities/all improved facilities								Shared improved facilities/all improved facilities									
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		Sewerage connection among flush/pour flush								Sewerage connection among flush/pour flush									
	Sewerage connection among flush								Sewerage connection among flush										
	Number of people covered by the survey:								Number of people covered by the survey:										
	Number of households covered by the survey:								Number of households covered by the survey:										
	Total population:								Total population:										
Comments								Comments											

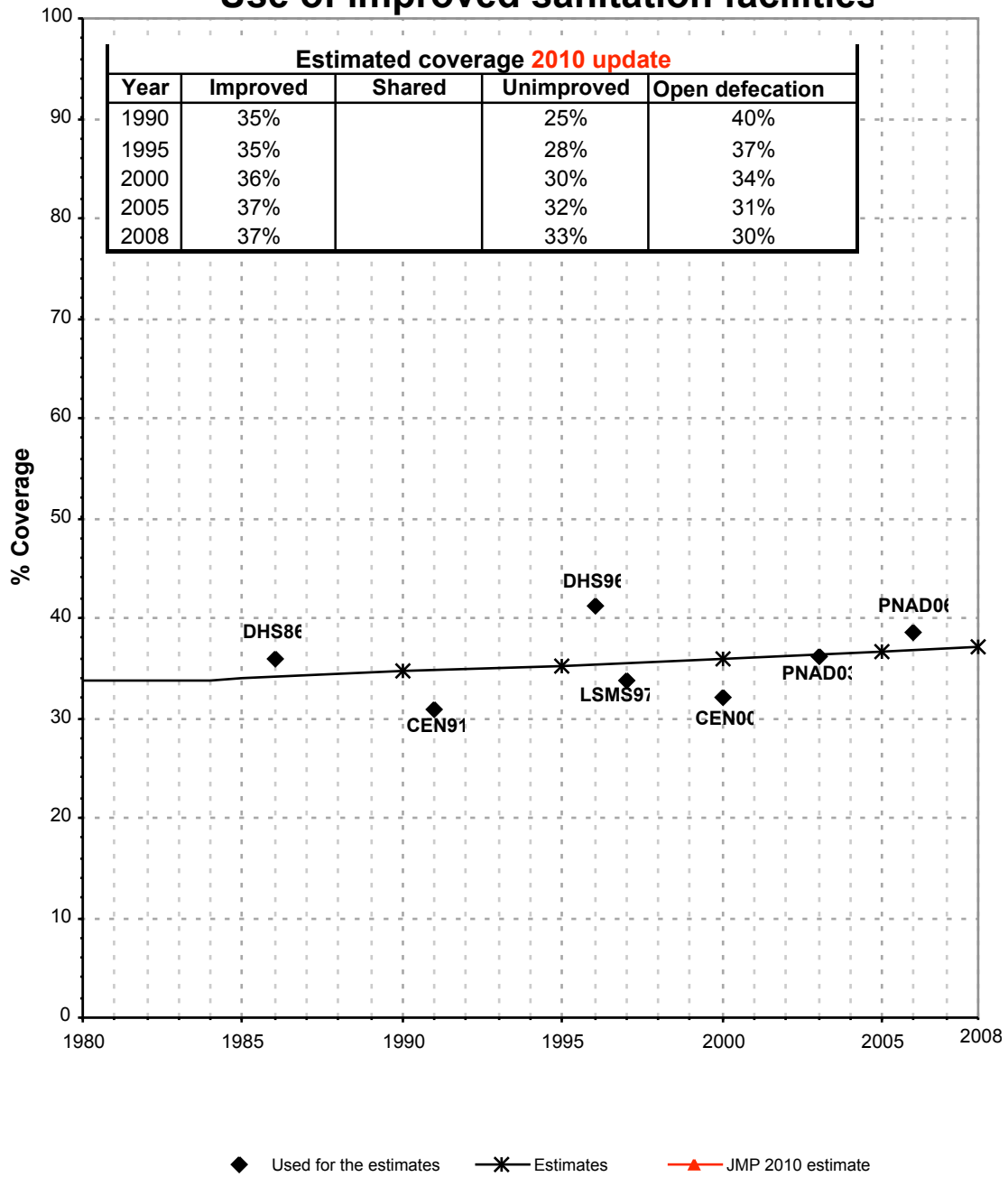
Brazil			SANITATION															
			URBAN								RURAL							
			Sewer connection		Total		Open defecation		Shared		Sewer connection		Total		Open defecation		Shared	
Source	Code	Year	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used
Demographic and Health Survey	DHS86	1986	51.0		83.5		2.0				3.0		36.0		33.0			
Pescuisa Nacional por Amostra de Domicilios	PNAD90	1990	53.0		82.0													
National Census	CEN91	1991	45.2		77.5		5.6				5.5		31.0		46.7			
Pescuisa Nacional por Amostra de Domicilios	PNAD92	1992	48.0		78.5													
Pescuisa Nacional por Amostra de Domicilios	PNAD93	1993	48.0		80.0													
Pescuisa Nacional por Amostra de Domicilios	PNAD95	1995	48.0		81.0													
Pescuisa Nacional por Amostra de Domicilios	PNAD96	1996	49.0		83.0													
Demographic and Health Survey	DHS96	1996	50.3		85.0		5.4				6.3		41.2		40.9			
Pescuisa Nacional por Amostra de Domicilios	PNAD97	1997	49.0		82.5													
Living Standarts Measurement Survey	LSMS97	1997	61.7		82.6		4.0				7.4		33.8		34.6			
Pescuisa Nacional por Amostra de Domicilios	PNAD98	1998	51.0		84.0						6.0							
Pescuisa Nacional por Amostra de Domicilios	PNAD99	1999	53.0		85.0													
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		47.6		71.7						3.5		14.5				
Censo Demográfico	CEN00	2000	53.8		80.8		5.5				3.1		32.1		41.3			
Pescuisa Nacional por Amostra de Domicilios	PNAD03	2003	53.4		84.4		2.4				3.7		36.3		29.6			
World Health Survey	WHS03	2003		73.5		97.1		0.9		2.0		13.5		72.9		16.2		3.3
Pescuisa Nacional por Amostra de Domicilios	PNAD01	2001																
Pescuisa Nacional por Amostra de Domicilios	PNAD02	2002																
Pescuisa Nacional por Amostra de Domicilios	PNAD03	2003																
Pescuisa Nacional por Amostra de Domicilios	PNAD04	2004																
Pescuisa Nacional por Amostra de Domicilios	PNAD05	2005																
Pescuisa Nacional por Amostra de Domicilios	PNAD06	2006	54.4		85.6		1.7				4.2		38.6		24.9			
Pescuisa Nacional por Amostra de Domicilios	PNAD07	2007																
Pescuisa Nacional	PNDS06	2006	57.1		89.5							12.6		61.8				

Brazil - urban - Use of improved sanitation facilities



■ Used for the estimates * Estimates ▲ JMP 2010 estimate

Brazil - rural - Use of improved sanitation facilities



Sanitation

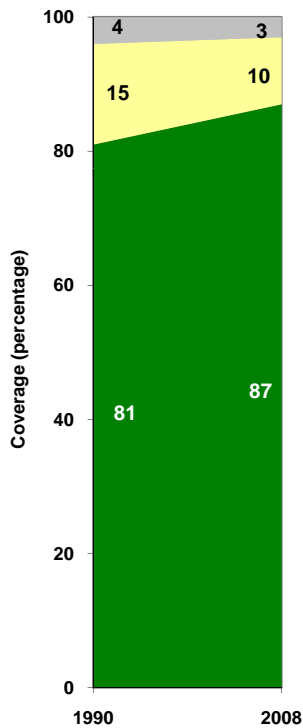
Brazil	Sanitation coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Improved facilities	81	87	35	37	69	80
Shared facilities						
Unimproved facilities	15	10	25	33	18	13
Open defecation	4	3	40	30	13	7

Source: WHO/UNICEF JMP, 2010

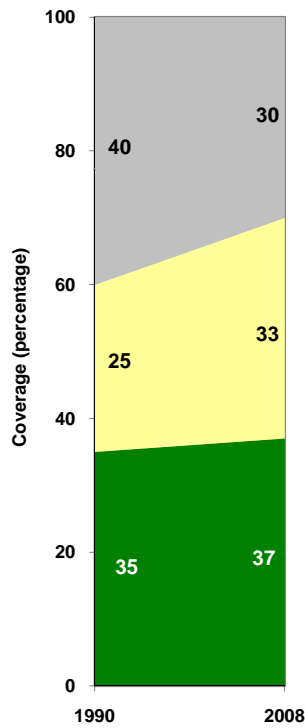
Brazil	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	111,888	164,497	37,683	27,475	149,570	191,972

Source: UN / Population Division, 2008

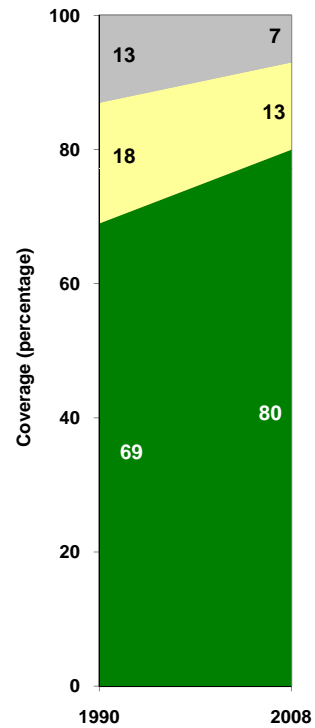
Urban sanitation trends



Rural sanitation trends



Total sanitation trends



■ Open defecation
■ Unimproved facilities
■ Shared facilities
■ Improved facilities

■ Open defecation
■ Unimproved facilities
■ Shared facilities
■ Improved facilities

■ Open defecation
■ Unimproved facilities
■ Shared facilities
■ Improved facilities