

**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

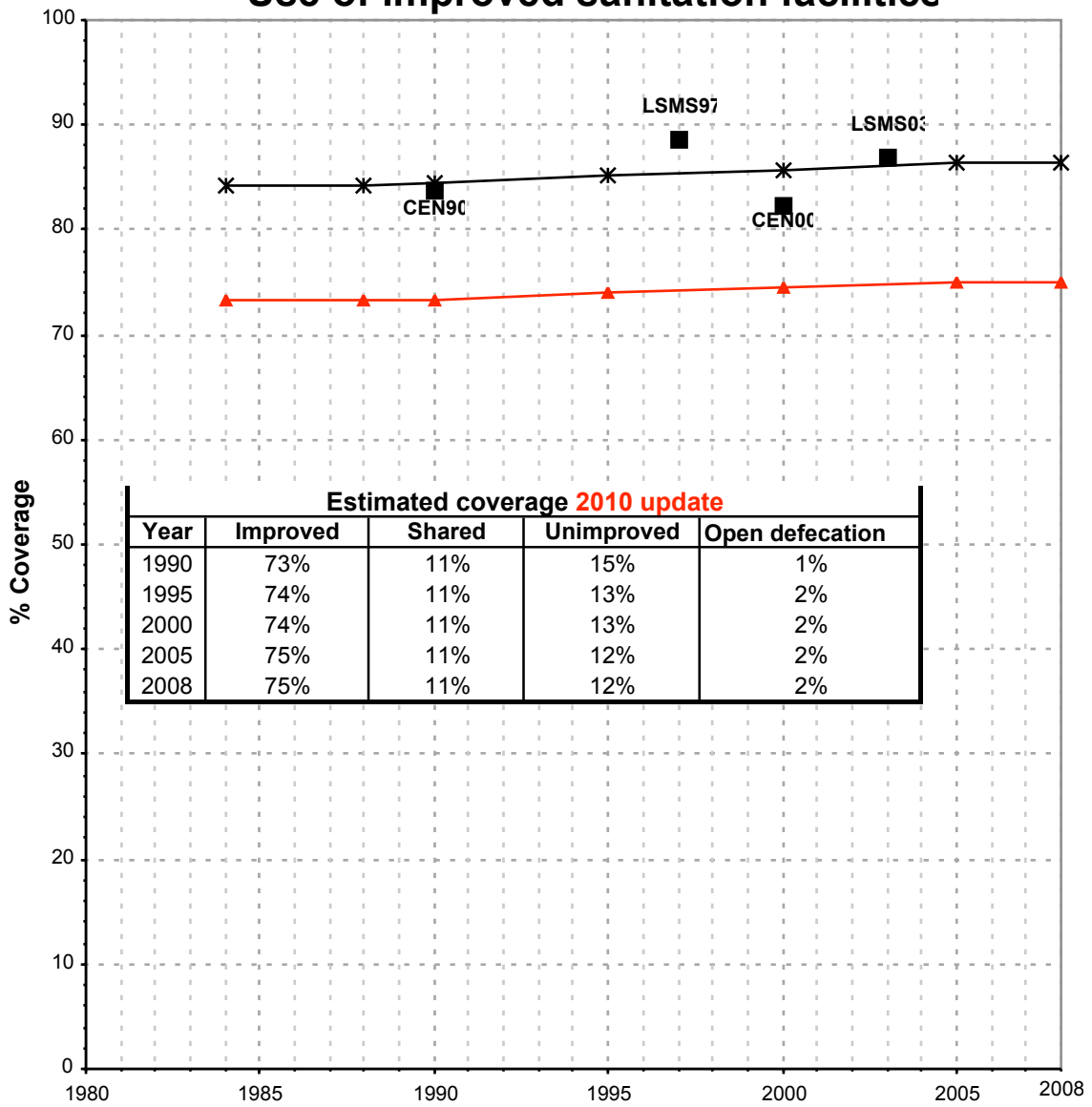
[childinfo.org](http://childinfo.org)





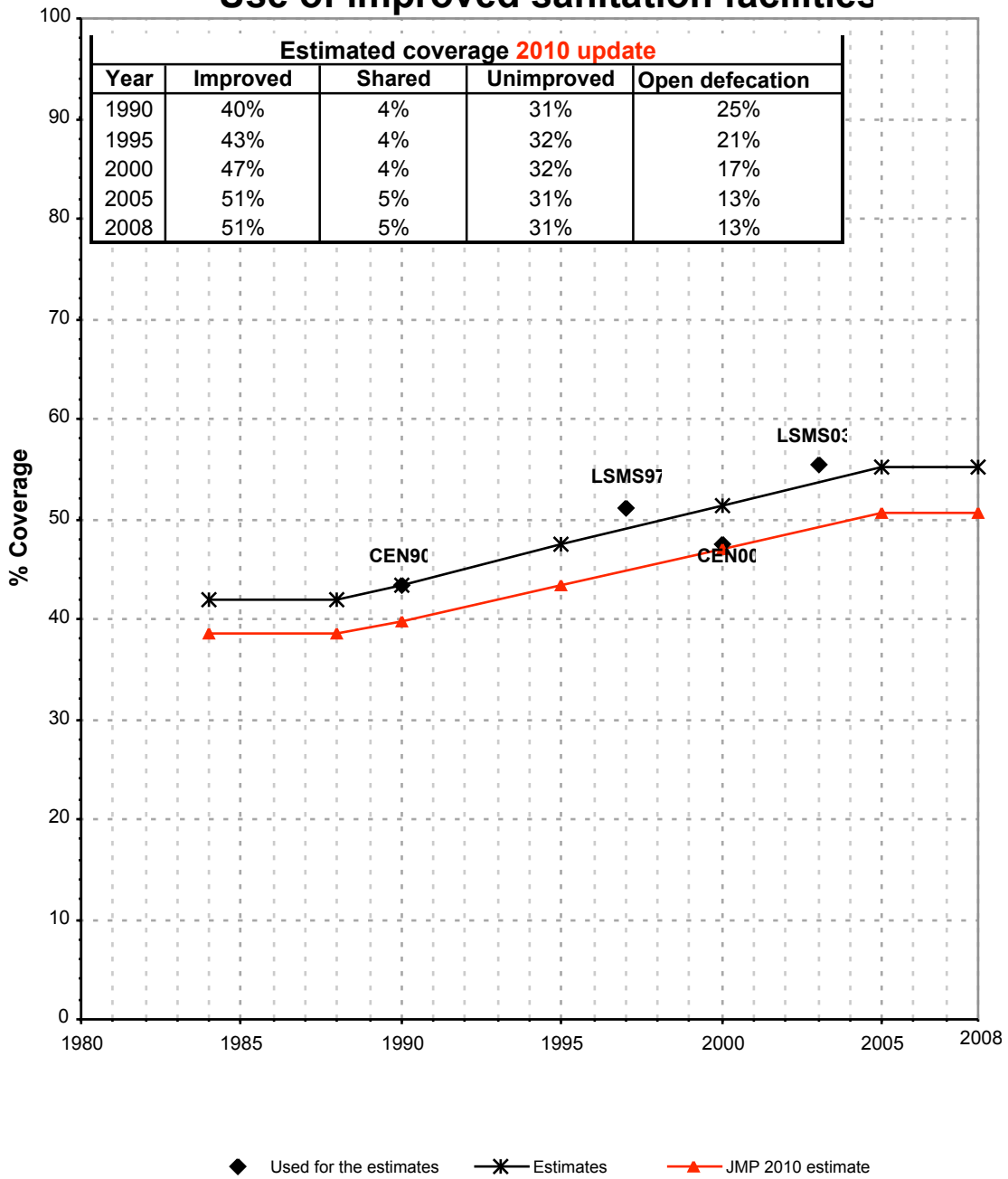
Panama			SANITATION															
			URBAN								RURAL							
			Sewer connection		Total		Open defecation		Shared		Sewer connection		Total		Open defecation		Shared	
Source	Code	Year	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used
Living Standarts Measurement Survey	LSMS97	1997	58.0		88.7		1.3				1.5		51.1		16.6			
Living Standarts Measurement Survey	LSMS03	2003	46.8		86.9		2.5		13.2		4.2		55.4		13.6		8.2	
Population census	CEN90	1990	52.0		83.8		1.6				0.1		43.3		25.2			
Population census	CEN00	2000	43.0		82.4		1.2				0.6		47.4		19.6			

# Panama - urban - Use of improved sanitation facilities



Used for the estimates  
  \* Estimates  
  JMP 2010 estimate

# Panama - rural - Use of improved sanitation facilities



# Sanitation

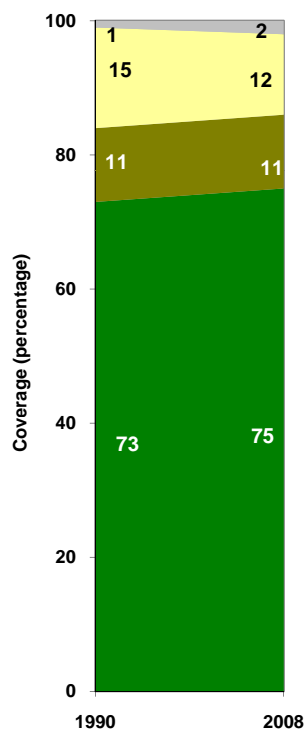
Panama	Sanitation coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Improved facilities	73	75	40	51	58	69
Shared facilities	11	11	4	5	8	9
Unimproved facilities	15	12	31	31	22	17
Open defecation	1	2	25	13	12	5

Source: WHO/UNICEF JMP, 2010

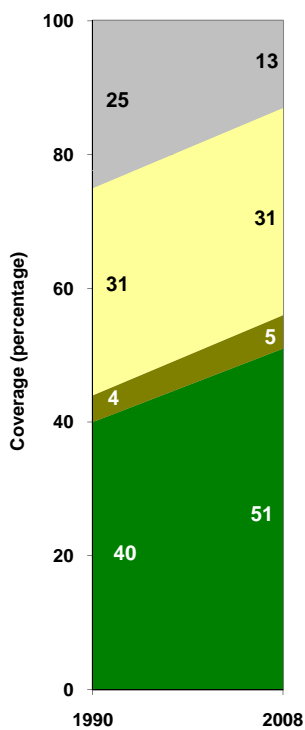
Panama	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	1,300	2,492	1,113	907	2,413	3,399

Source: UN / Population Division, 2008

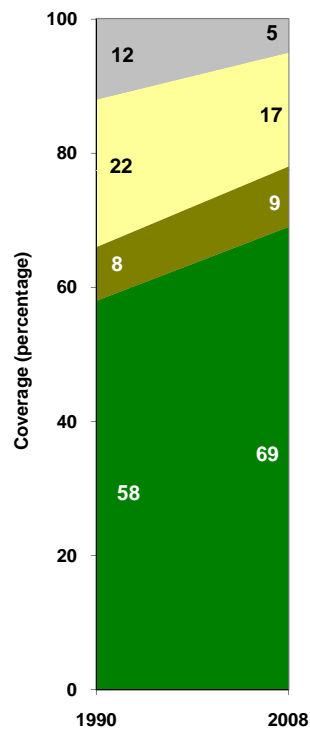
Urban sanitation trends



Rural sanitation trends



Total sanitation trends



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

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

■ Open defecation  
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