

**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)

Use of sanitation facilities		JMP99			Laos			Use of sanitation facilities		MICS00			Laos		
Global Water Supply and Sanitation Assessment 2000.					Multiple Indicator Cluster Survey										
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1999					2000					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connections to conventional	<b>Flush and pour flush</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere	0.0	0.0			<b>Flush and pour flush</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere	56.5	10.0							
	<b>Flush/toilets</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere				Flush to sewerage system or septic tank	<b>Flush/toilets</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere	2.4	0.1							
	<b>Private flush/toilet</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere					<b>Private flush/toilet</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere									
	<b>Public/shared flush/toilet</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere					<b>Public/shared flush/toilet</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere									
	<b>Latrines</b>					<b>Latrines</b>	62.7	18.6							
	<b>Pour flush latrines</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere				Pour flush latrine (water seal type)	<b>Pour flush latrines</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere	54.1	9.9							
	<b>Private pour flush latrine</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere					<b>Private pour flush latrine</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere									
	<b>Public/shared pour flush latrine</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere					<b>Public/shared pour flush latrine</b> to piped sewer system to septic tank to pit to unknown place/ not sure/DK to elsewhere									
	<b>Dry latrines</b>					<b>Dry latrines</b>	8.6	8.7							
	<b>Improved latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine				Traditional pit latrine*	<b>Improved latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine Other	8.6	8.7							
	<b>Private Latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine					<b>Private Latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine Other									
	<b>Public/shared Latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine					<b>Public/shared Latrines</b> Ventilated Improved Pit latrine Pit latrine with slab/covered latrine Traditional latrine Pit latrine without slab/open pit Hanging toilet/hanging latrine Bucket latrine Other									
	<b>Composting toilets</b> Composting toilet (private) Composting toilet (shared)					<b>Composting toilets</b> Composting toilet (private) Composting toilet (shared)									
Population without household connections but served	<b>Other improved</b> Other	83.7	33.8			<b>Other improved</b> Other									
	<b>No facility, bush, field</b>				No facilities/bush/field	<b>No facility, bush, field</b>	32.7	78.9							
Total population unserved	<b>Other unimproved</b> Other DK/missing information	16.3	66.2		Other Missing	<b>Other unimproved</b> Other DK/missing information	0.0 0.0	0.1 0.1							
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.0	99.9							
<b>Calculations</b>						<b>Calculations</b>									
<b>Estimations</b>						<b>Estimations</b>									
						traditional pit latrines considered improved, based on MICS00	2.3	2.3							
						sewerage based on ratio WHS03	1.0	0.0							
<b>Access to improved plus shared sanitation:</b>		<b>84%</b>	<b>34%</b>		<b>Access to improved sanitation:</b>		<b>59%</b>	<b>12%</b>							
<b>Access to sewerage connections:</b>		<b>0%</b>	<b>0%</b>		<b>Access to sewerage connections:</b>		<b>1%</b>	<b>0%</b>							
Used for the estimates		No	No		Used for the estimates		Yes	Yes							
Used for the estimates		No	No		Used for the estimates		Yes	Yes							
<b>Ratios</b>	Shared improved facilities/all improved facilities				Shared improved facilities/all improved facilities										
	Improved latrine / All latrines				Improved latrine / All latrines	86%	53%								
	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	14%	47%								
	Improved + traditional latrines / All latrines				Improved + traditional latrines / All latrines	100%	100%								
					Sewerage connection among flush/pour 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:	807.8	3910		Total population:										
<b>Comments</b>					<b>Comments</b>										

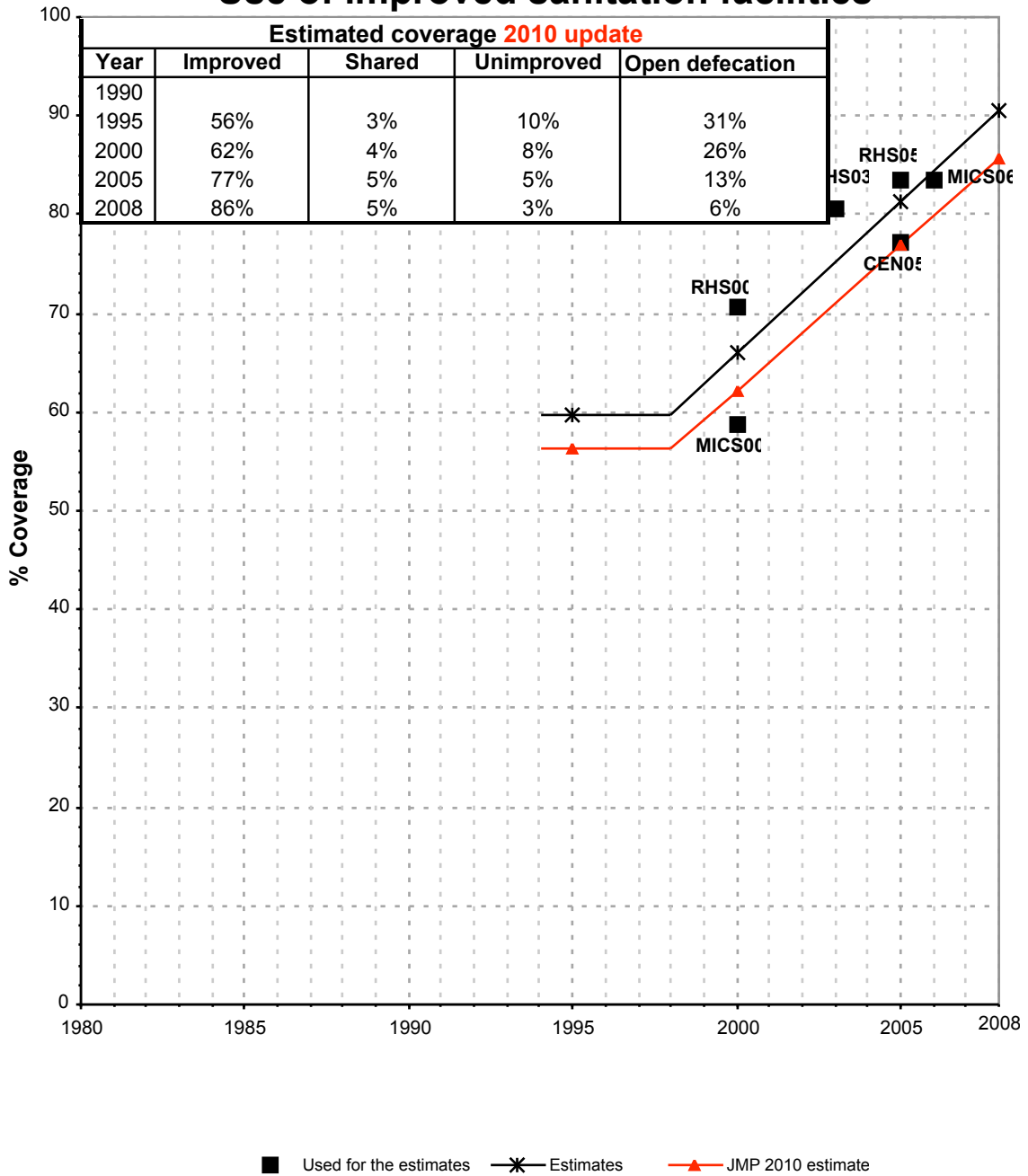
Use of sanitation facilities		WHS03			Laos		Use of sanitation facilities		MICS06			Laos	
World Health Survey					2003		Multiple Indicator Cluster Survey					2006	
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total				
	<b>Flush and pour flush</b>	78.3	28.1			<b>Flush and pour flush</b>	83.7	31.6					
	to piped sewer system	3.9	0.2			to piped sewer system	6.8	0.4					
	to septic tank	5.5	0.3			to septic tank	38.4	7.3					
	to pit					to pit	37.9	23.6					
	to unknown place/ not sure/DK to elsewhere					to unknown place/ not sure/DK to elsewhere	0.1	0.0					
	<b>Flush/toilets</b>	9.4	0.5			<b>Flush/toilets</b>	83.7	31.6					
	to piped sewer system	3.9	0.2		Flush to piped sewer system	to piped sewer system	6.8	0.4					
	to septic tank	5.5	0.3		Flush to septic tank	to septic tank	38.4	7.3					
	to pit				Flush to pit (latrine)	to pit	37.9	23.6					
	to unknown place/ not sure/DK to elsewhere				Flush to unknown place/not sure/DK where to elsewhere	to unknown place/ not sure/DK to elsewhere	0.1	0.0					
	<b>Private flush/toilet</b>	9.3	0.5		Flush to somewhere else	<b>Private flush/toilet</b>	0.5	0.3					
Private domestic connection to sewage system	to piped sewer system	3.8	0.2			to piped sewer system							
Private flush to septic tank	to septic tank	5.5	0.3			to septic tank							
	to pit					to pit							
	to unknown place/ not sure/DK to elsewhere					to unknown place/ not sure/DK to elsewhere							
	<b>Public/shared flush/toilet</b>	0.1	0.0			<b>Public/shared flush/toilet</b>							
Shared domestic connection to sewage system	to piped sewer system	0.1	0.0			to piped sewer system							
Shared flush to septic tank	to septic tank	0.0	0.0			to septic tank							
	to pit					to pit							
	to unknown place/ not sure/DK to elsewhere					to unknown place/ not sure/DK to elsewhere							
	<b>Latrines</b>	77.8	37.3			<b>Latrines</b>	2.7	6.7					
	<b>Pour flush latrines</b>	68.9	27.7			<b>Pour flush latrines</b>							
	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 elsewhere					to unknown place/ not sure/DK to elsewhere							
Private pour flush latrine	<b>Private pour flush latrine</b>	64.4	25.4			<b>Private pour flush latrine</b>							
	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 elsewhere					to unknown place/ not sure/DK to elsewhere							
Shared pour flush latrine	<b>Public/shared pour flush latrine</b>	4.5	2.3			<b>Public/shared pour flush latrine</b>							
	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 elsewhere					to unknown place/ not sure/DK to elsewhere							
	<b>Dry latrines</b>	9.0	9.6			<b>Dry latrines</b>	2.7	6.7					
	<b>Improved latrines</b>	2.4	2.6			<b>Improved latrines</b>	0.4	1.1					
	Ventilated Improved Pit latrine				Ventilated Improved Pit latrine (VIP)	Ventilated Improved Pit latrine	0.0	0.0					
	Pit latrine with slab/covered latrine	2.4	2.6		Pit latrine with slab	Pit latrine with slab/covered latrine	0.4	1.1					
	Traditional latrine					Traditional latrine							
Uncovered dry latrine (without privacy)	Pit latrine without slab/open pit	6.6	6.8		Pit latrine without slab/open pit	Pit latrine without slab/open pit	1.3	4.7					
	Hanging toilet/hanging latrine				Hanging toilet/hanging latrine	Hanging toilet/hanging latrine	1.0	0.9					
Bucket latrine (where fresh excreta are manually removed)	Bucket latrine	0.0	0.2			Bucket latrine							
	Other					Other							
	<b>Private Latrines</b>	2.2	2.3			<b>Private Latrines</b>							
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine							
Private covered dry latrine (with privacy)	Pit latrine with slab/covered latrine	2.2	2.3			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							
	<b>Public/shared Latrines</b>	0.2	0.3			<b>Public/shared Latrines</b>							
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine							
Shared covered dry latrine (with privacy)	Pit latrine with slab/covered latrine	0.2	0.3			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							
	<b>Composting toilets</b>					<b>Composting toilets</b>							
	Composting toilet (private)					Composting toilet (private)							
	Composting toilet (shared)					Composting toilet (shared)							
	<b>Other improved</b>					<b>Other improved</b>							
	Other					Other							
	Other					Other							
No facilities (open defecation)	<b>No facility, bush, field</b>	12.7	62.1		No facilities or bush or field	<b>No facility, bush, field</b>	13.7	61.7					
	<b>Other unimproved</b>	0.1	0.1			<b>Other unimproved</b>	0.0	0.0					
Other	Other	0.1	0.1		Other	Other	0.0	0.0					
	Other					Other							
	<b>DK/missing information</b>					<b>DK/missing information</b>							
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.1	100.0					
<b>Calculations</b>					<b>Calculations</b>								
<b>Estimations</b>					<b>Estimations</b>								
<b>Access to improved sanitation :</b>		<b>81%</b>	<b>31%</b>		<b>Access to improved sanitation :</b>		<b>84%</b>	<b>32%</b>					
<b>Access to sewerage connections :</b>		<b>4%</b>	<b>0%</b>		<b>Access to sewerage connections :</b>		<b>7%</b>	<b>0%</b>					
Used for the estimates		Yes	Yes		Used for the estimates		Yes	Yes					
Used for the estimates		Yes	Yes		Used for the estimates		Yes	Yes					
<b>Ratios</b>	Shared improved facilities/all improved facilities	5.9%	8.4%		<b>Ratios</b>	Shared improved facilities/all improved facilities	5.3%	2.2%					
	Improved latrine / All latrines	32%	81%			Improved latrine / All latrines	15%	16%					
	Covered dry latrines / All dry latrines	27%	27%			Covered dry latrines / All dry latrines	15%	16%					
	VIP / All latrines					VIP / All latrines	0%	0%					
	Traditional latrines / All latrines					Traditional latrines / All latrines							
	Improved + traditional latrines / All latrines					Improved + traditional latrines / All latrines							
Sewerage connection among flush/pour flush	5.0	0.5		Sewerage connection among flush/pour flush	8.1	1.3							
Sewerage connection among flush	41.8	31.9		Sewerage connection among flush	8.1	1.3							
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								
<b>Comments</b>					<b>Comments</b>								



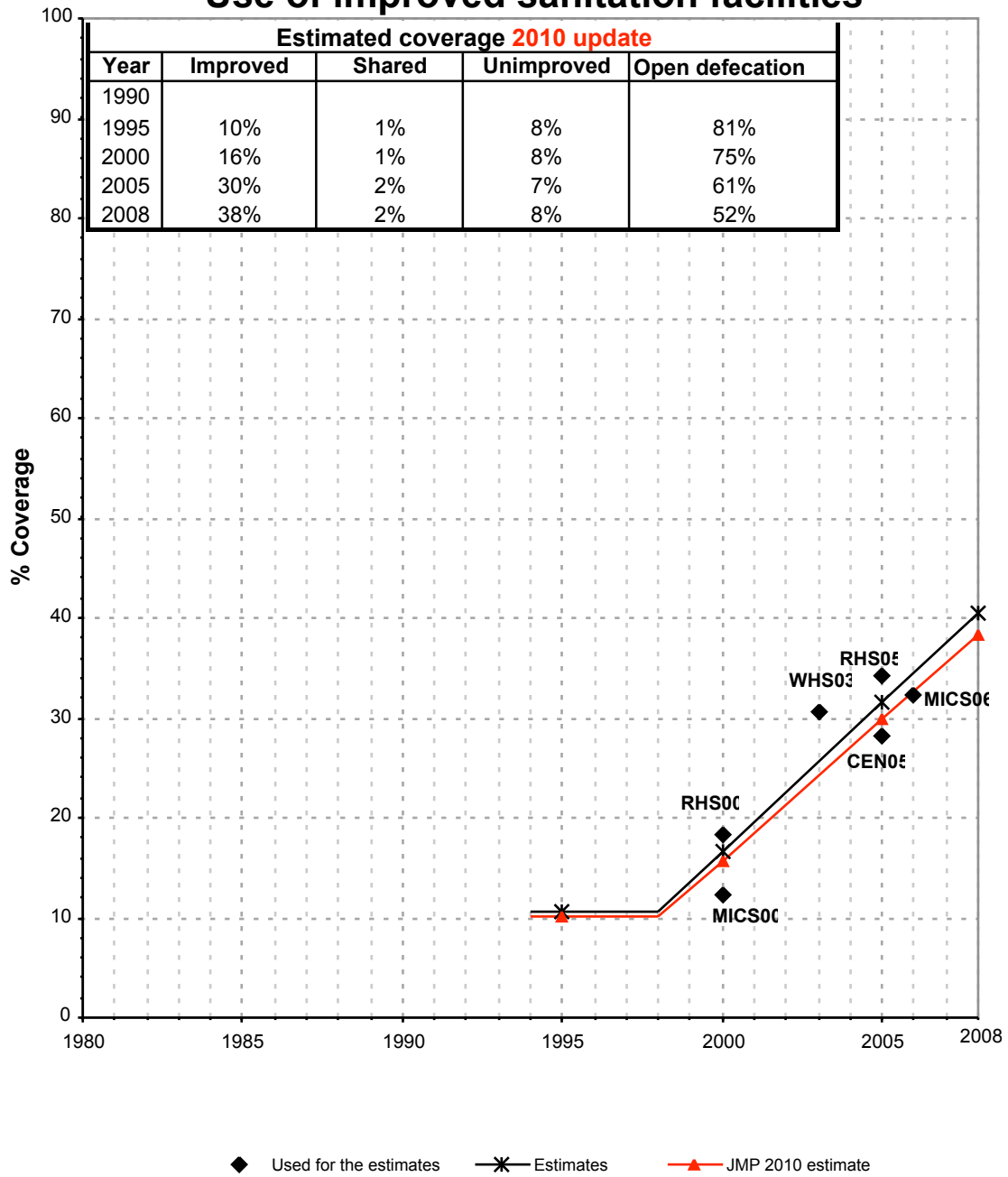


Lao People's Dem Republic			SANITATION															
			URBAN								RURAL							
			Sewer connection		Total		Open defecation		Shared		Sewer connection		Total		Open defecation		Shared	
Source	Code	Year	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		0.0		83.7						0.0		33.8				
Multiple Indicator Cluster Surve	MICS00	2000	1.0		58.8		32.7				0.0		12.3		78.9			
World Health Survey	WHS03	2003	3.9		80.7		12.7		5.9		0.2		30.7		62.1		8.4	
Multiple Indicator Cluster Survey	MICS06	2006	6.8		83.6		13.7		5.3		0.4		32.4		61.7		2.2	
Reproductive Health Survey 2000	RHS00	2000			70.7		22.3						18.3		74.5			
	CEN05	2005			77.1		15.5						28.2		62.1			
Reproductive Health Survey 2005	RHS05	2005			83.4		11.0						34.3		56.7			

# Lao People's Dem Republic - urban - Use of improved sanitation facilities



# Lao People's Dem Republic - rural - Use of improved sanitation facilities



# Sanitation

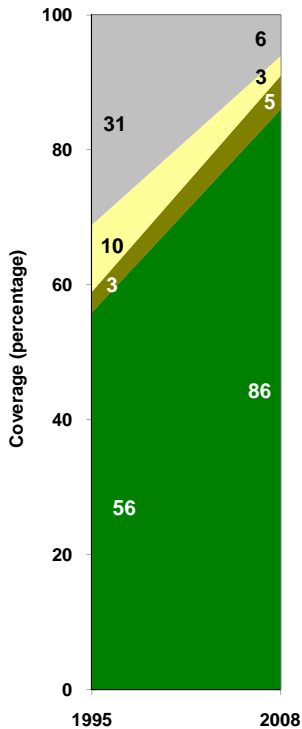
Lao People's Dem Republic	Sanitation coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1995	2008	1995	2008	1995	2008
Improved facilities	56	86	10	38	18	53
Shared facilities	3	5	1	2	1	3
Unimproved facilities	10	3	8	8	9	6
Open defecation	31	6	81	52	72	38

Source: WHO/UNICEF JMP, 2010

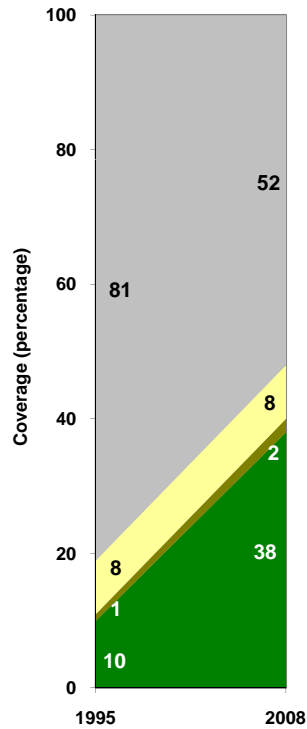
Lao People's Dem Republic	Urban		Rural		Total	
	1995	2008	1995	2008	1995	2008
Population (x1000)	836	1,915	3,973	4,290	4,809	6,205

Source: UN / Population Division, 2008

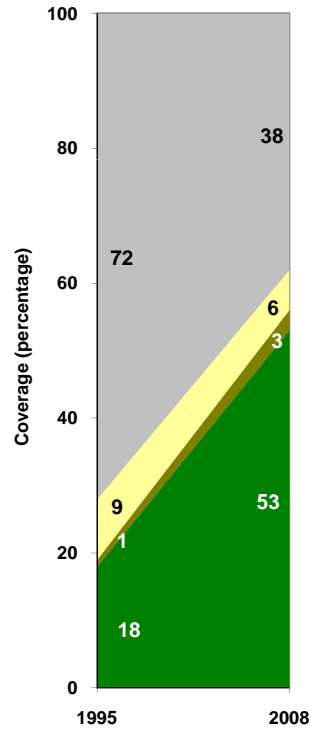
Urban sanitation trends



Rural sanitation trends



Total sanitation trends



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

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

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