

**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

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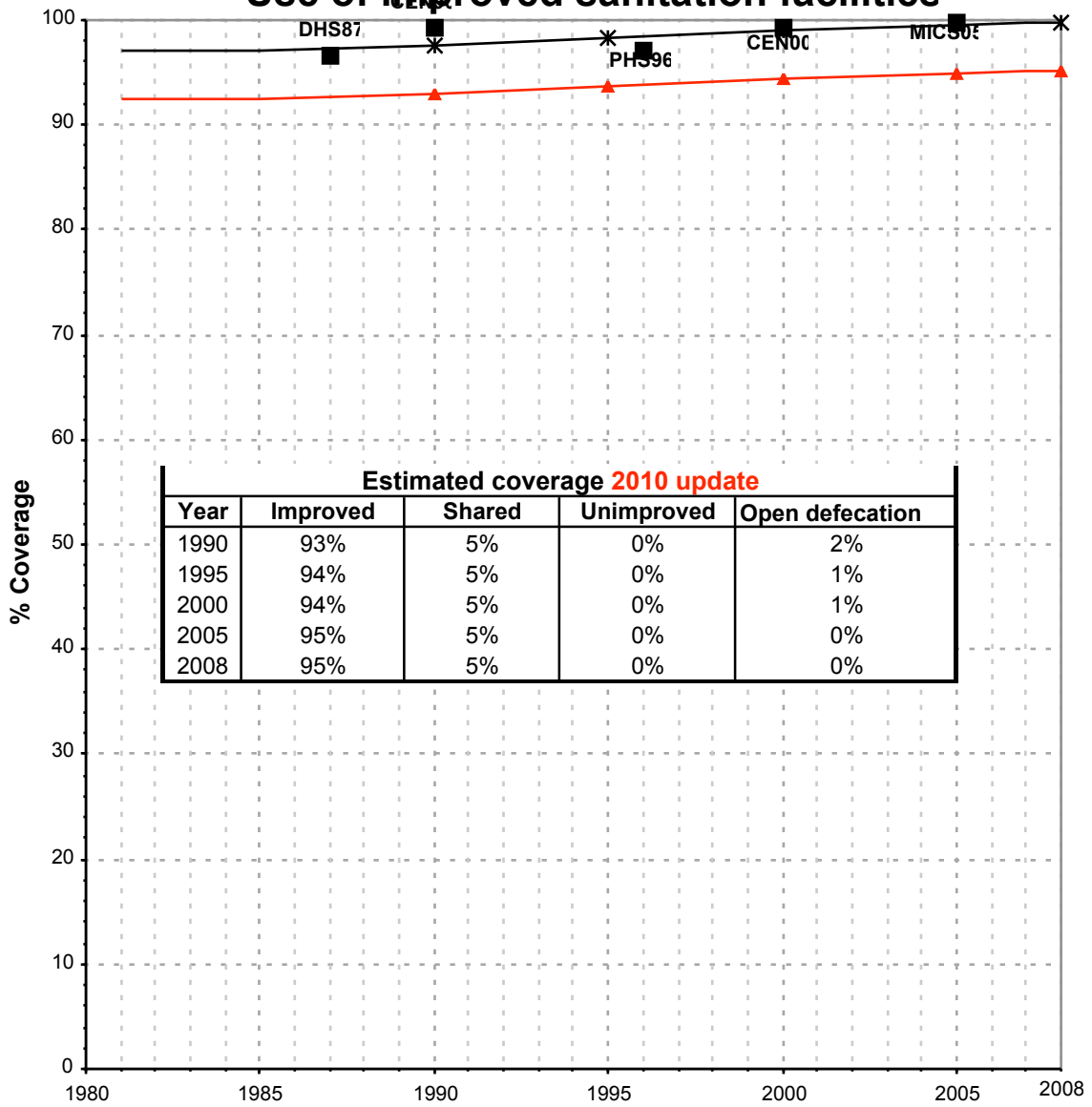
Use of sanitation facilities		DHS87			Thailand			Use of sanitation facilities		CEN90			Thailand		
Demographic and Health Survey					1987			National Census					1990		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Flush and pour flush</b>	95.9	57.6	64.5		<b>Flush and pour flush</b>	91.9	78.5							
	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 & Septic tank	<b>Flush/toilets</b>	95.9	57.6	64.5		<b>Flush/toilets</b>	91.9	78.5							
	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									
	<b>Private flush/toilet</b>				Private septic tank/other household latrine	<b>Private flush/toilet</b>	91.9	78.5							
	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									
	<b>Public/shared flush/toilet</b>					<b>Public/shared flush/toilet</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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Latrines</b>	0.6	3.4	2.9		<b>Latrines</b>	7.5	6.5							
	<b>Pour flush latrines</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Private pour flush latrine</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Public/shared pour flush latrine</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Dry latrines</b>	0.6	3.4	2.9		<b>Dry latrines</b>	7.5	6.5							
	<b>Improved latrines</b>					<b>Improved latrines</b>									
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine	0.6	3.4	2.9		Traditional latrine	7.5	6.5							
	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>Private Latrines</b>				Pit Latrine	<b>Private Latrines</b>	0.4	2.5							
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine					Traditional latrine	0.4	2.5							
	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>				Shared Latrine	<b>Public/shared Latrines</b>	7.1	4.0							
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine					Traditional latrine	7.1	4.0							
	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 facility	<b>No facility, bush, field</b>	3.3	38.9	32.4	No Latrine	<b>No facility, bush, field</b>	0.7	15.0							
	<b>Other unimproved</b>	0.1	0.1	0.1		<b>Other unimproved</b>									
	Other	0.1	0.1	0.1		Other									
	Other					Other									
Missing	<b>DK/missing information</b>	0.1	0.0	0.0		<b>DK/missing information</b>									
	<b>Total</b>	100.0	100.0	100.0		<b>Total</b>	100.0	100.0							
<b>Calculations</b>					<b>Calculations</b>										
	Traditional latrines considered improved, based on MICS05	0.6	3.4			Traditional latrines considered improved, based on MICS05	7.5	6.5							
<b>Estimations</b>					<b>Estimations</b>										
	SC, based on MICS05	9.0	3.4			SC, based on MICS05	8.7	4.7							
<b>Access to improved sanitation : 97% 61%</b>					<b>Access to improved sanitation : 99% 85%</b>										
<b>Access to sewerage connections : 9% 3%</b>					<b>Access to sewerage connections : 9% 5%</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				<b>Ratios</b>	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	100%	100%	100%		Traditional latrines / All latrines	100%	100%	100%						
	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		10215		44333						
<b>Comments</b>					<b>Comments</b>										

Use of sanitation facilities		PHS96			Thailand			Use of sanitation facilities		JMP99			Thailand						
Provincial Health Survey 2					1996					Global Water Supply and Sanitation Assessment 2000.					1999				
										Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.									
Original denomination	Classification				Urban	Rural	Total	Original denomination	Classification				Urban	Rural	Total				
	<b>Flush and pour flush</b>								<b>Flush and pour flush</b>				0.0	0.0					
	to piped sewer system							Population served with household connections to conventional	to piped sewer system				0.0	0.0					
	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										
	<b>Flush/toilets</b>								<b>Flush/toilets</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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Private flush/toilet</b>								<b>Private flush/toilet</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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Public/shared flush/toilet</b>								<b>Public/shared flush/toilet</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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Latrines</b>								<b>Latrines</b>										
	<b>Pour flush latrines</b>								<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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Private pour flush latrine</b>								<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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Public/shared pour flush latrine</b>								<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 unknown place/ not sure/DK										
	to elsewhere								to elsewhere										
	<b>Dry latrines</b>								<b>Dry latrines</b>										
	<b>Improved latrines</b>								<b>Improved latrines</b>										
	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										
	<b>Private Latrines</b>								<b>Private Latrines</b>										
	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										
	<b>Public/shared Latrines</b>								<b>Public/shared Latrines</b>										
	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										
	<b>Composting toilets</b>								<b>Composting toilets</b>										
	Composting toilet (private)								Composting toilet (private)										
	Composting toilet (shared)								Composting toilet (shared)										
	<b>Other improved</b>							Population without household connections but served	<b>Other improved</b>				98.0	95.7					
	Other								Other										
	Other								Other										
	<b>No facility, bush, field</b>								<b>No facility, bush, field</b>										
	<b>Other unimproved</b>							Total population unserved	<b>Other unimproved</b>				2.0	4.3					
	Other								Other										
	Other								Other										
	<b>DK/missing information</b>								<b>DK/missing information</b>										
	<b>Total</b>								<b>Total</b>				100.0	100.0					
<b>Calculations</b>								<b>Calculations</b>											
<b>Estimations</b>								<b>Estimations</b>											
<b>Access to improved sanitation :</b>					<b>97%</b>	<b>94%</b>	<b>96%</b>	<b>Access to improved plus shared sanitation:</b>					<b>98%</b>	<b>96%</b>					
<b>Access to sewerage connections :</b>								<b>Access to sewerage connections :</b>					<b>0%</b>	<b>0%</b>					
Used for the estimates					Yes	Yes		Used for the estimates					No	No					
Used for the estimates					Yes	Yes		Used for the estimates					No	No					
<b>Ratios</b>	Shared improved facilities/all improved facilities							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:					19528	42224					
<b>Comments</b>								<b>Comments</b>											

Use of sanitation facilities		CEN00			Thailand			Use of sanitation facilities		MICS05			Thailand		
National Census					2000			Multiple Indicator Cluster Survey					2005		
Department of Health, Ministry of Public Health															
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Sanitary latrine	<b>Flush and pour flush</b>	98.0	98.2			<b>Flush and pour flush</b>	99.8	99.1							
	to piped sewer system					to piped sewer system	9.4	5.9							
	to septic tank					to septic tank	89.5	91.6							
	to pit					to pit	0.8	1.5							
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere					to elsewhere	0.1	0.1							
	<b>Flush/toilets</b>					<b>Flush/toilets</b>	99.8	99.1							
	to piped sewer system				Flush to piped sewer system	to piped sewer system	9.4	5.9							
	to septic tank				Flush to septic tank	to septic tank	89.5	91.6							
	to pit				Flush to pit latrine	to pit	0.8	1.5							
	to unknown place/ not sure/DK					to unknown place/ not sure/DK									
	to elsewhere				Flush to somewhere else	to elsewhere	0.1	0.1							
	<b>Private flush/toilet</b>					<b>Private flush/toilet</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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Public/shared flush/toilet</b>					<b>Public/shared flush/toilet</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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Latrines</b>	1.3	1.0			<b>Latrines</b>	0.1	0.1							
	<b>Pour flush latrines</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Private pour flush latrine</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Public/shared pour flush latrine</b>					<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 unknown place/ not sure/DK									
	to elsewhere					to elsewhere									
	<b>Dry latrines</b>	1.3	1.0			<b>Dry latrines</b>	0.1	0.1							
	<b>Improved latrines</b>					<b>Improved latrines</b>	0.1	0.1							
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine				Pit latrine with slab	Pit latrine with slab/covered latrine	0.1	0.1							
	Traditional latrine	1.3	1.0			Traditional latrine									
	Pit latrine without slab/open pit				Pit latrine without slab/open pit	Pit latrine without slab/open pit	0.0	0.0							
	Hanging toilet/hanging latrine					Hanging toilet/hanging latrine									
	Bucket latrine					Bucket latrine									
	Other					Other									
	<b>Private Latrines</b>					<b>Private Latrines</b>									
	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									
	<b>Public/shared Latrines</b>	1.3	1.0			<b>Public/shared Latrines</b>									
	Ventilated Improved Pit latrine					Ventilated Improved Pit latrine									
	Pit latrine with slab/covered latrine					Pit latrine with slab/covered latrine									
	Traditional latrine	1.3	1.0			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									
Shared latrine	Traditional latrine	1.3	1.0			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 latrine	<b>No facility, bush, field</b>	0.7	0.8		No facility or bush or field	<b>No facility, bush, field</b>	0.1	0.9							
	<b>Other unimproved</b>					<b>Other unimproved</b>	0.1	0.0							
	Other				Other	Other	0.1	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	100.1							
<b>Calculations</b>					<b>Calculations</b>										
<b>Estimations</b>	Traditional latrines considered improved, based on MICS05	1.3	1.0		<b>Estimations</b>										
	SC, based on MICS05	9.2	5.8												
<b>Access to improved sanitation :</b>		<b>99%</b>	<b>99%</b>		<b>Access to improved sanitation :</b>		<b>100%</b>	<b>99%</b>							
<b>Access to sewerage connections :</b>		<b>9%</b>	<b>6%</b>		<b>Access to sewerage connections :</b>		<b>9%</b>	<b>6%</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				<b>Ratios</b>	Shared improved facilities/all improved facilities	4.7%	3.7%							
	Improved latrine / All latrines					Improved latrine / All latrines	100%	100%							
	Covered dry latrines / All dry latrines					Covered dry latrines / All dry latrines	100%	100%							
	VIP / All latrines					VIP / All latrines									
	Traditional latrines / All latrines	100%	100%			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	9.4	6.0							
	Sewerage connection among flush					Sewerage connection among flush	9.4	6.0							
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>										

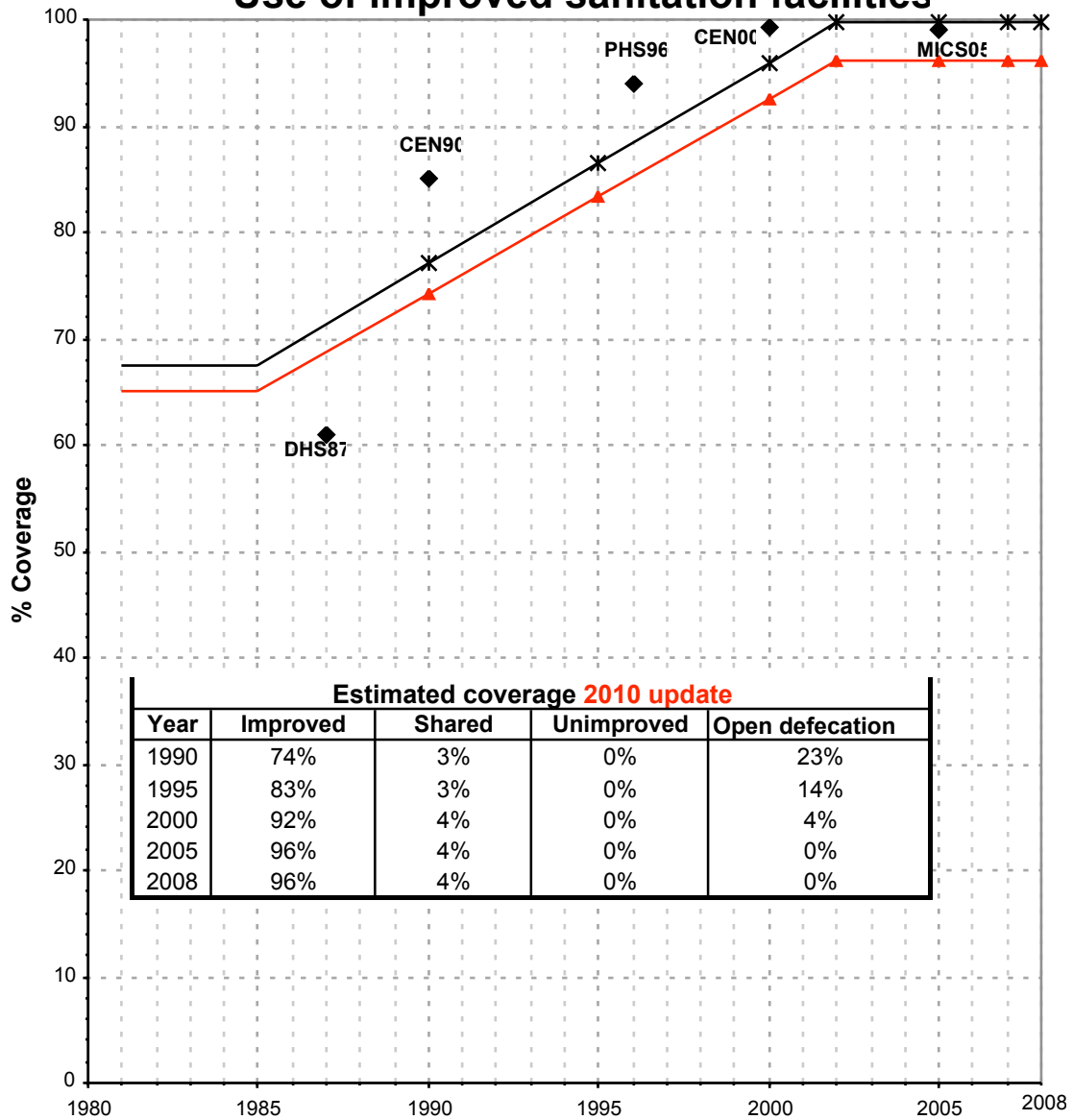
Thailand			SANITATION															
			URBAN								RURAL							
			Sewer connection		Total		Open defecation		Shared		Sewer connection		Total		Open defecation		Shared	
Source	Code	Year	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used	Used	Not used
Demographic and Health Survey	DHS87	1987	9.0		96.5		3.3				3.4		61.0		38.9			
National Census	CEN90	1990	8.7		99.3		0.7				4.7		85.0		15.0			
Provincial Health Survey 2	PHS96	1996			97.0								94.0					
Global Water Supply and Sanitation Assessment 2000.	JMP99	1999		0.0		98.0						0.0		95.7				
National Census	CEN00	2000	9.2		99.3		0.7				5.8		99.2		0.8			
Multiple Indicator Cluster Survey	MICS05	2005	9.4		99.8		0.1		4.7		5.9		99.1		0.9		3.7	
SOCIO-ECONOMIC SURVEY	SES02	2002																

# Thailand - urban - Use of improved sanitation facilities



■ Used for the estimates    \* Estimates    ▲ JMP 2010 estimate

# Thailand - rural - Use of improved sanitation facilities



◆ Used for the estimates    \* Estimates    ▲ JMP 2010 estimate

# Sanitation

Thailand	Sanitation coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Improved facilities	93	95	74	96	80	96
Shared facilities	5	5	3	4	4	4
Unimproved facilities	0	0	0	0	0	0
Open defecation	2	0	23	0	16	0

Source: WHO/UNICEF JMP, 2010

Thailand	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	16,675	22,397	39,998	44,989	56,673	67,386

Source: UN / Population Division, 2008

