

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

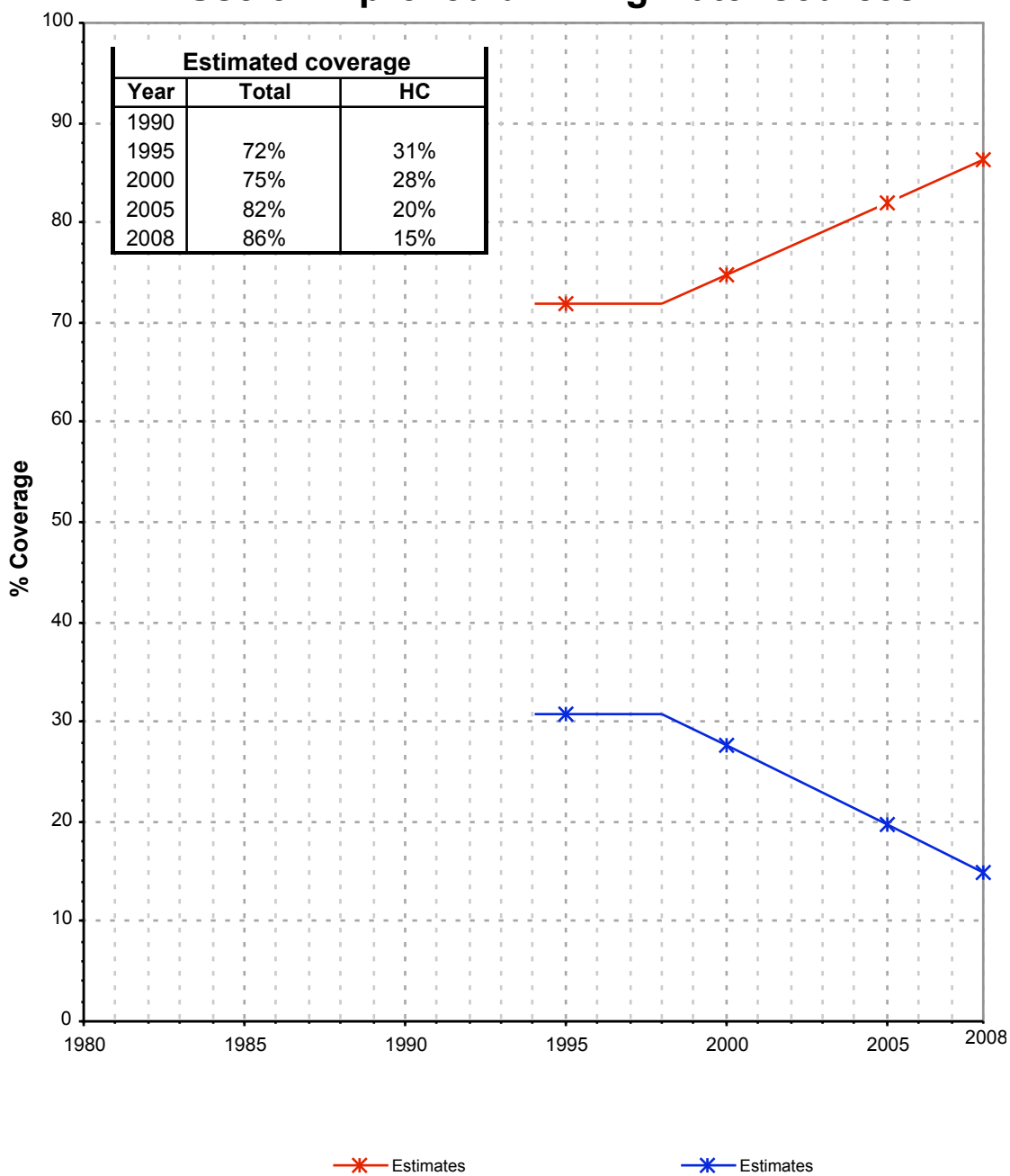
childinfo.org

Access to drinking water sources		MICS00			Sierra Leone			Access to drinking water sources		MICS06			Sierra Leone		
Multiple Indicator Cluster Survey Status of Women and Children in Sierra Leone, A Household Survey Report (MICS-2)					2000			Multiple Indicator Cluster Survey					2006		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	57.9	11.0			Tap water	48.6	7.7							
	House connections	29.7	1.2			House connections	20.3	1.0							
Piped into dwelling	Piped water into dwelling	7.1	0.1		Piped into dwelling	Piped water into dwelling	5.2	0.1							
Piped into yard or plot	Piped water to yard/plot	22.6	1.1		Piped into yard or plot	Piped water to yard/plot	15.1	0.9							
Public tap	Public tap, standpipe	28.2	9.8		Public tap/standpipe	Public tap, standpipe	26.3	6.7							
	Other					Other									
	Ground water	28.2	53.1			Ground water	43.6	41.3							
	Protected ground water	16.7	34.6			Protected ground water	34.9	24.0							
	Unprotected ground water	11.5	18.5			Unprotected ground water	8.7	17.3							
	Protected wells or springs	16.7	34.6	0.0		Protected wells or springs	34.9	24.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs	11.5	18.5	0.0		Unprotected wells or springs	8.7	17.3	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	24.5	46.0			All wells	40.7	32.2							
	Private					Private									
	Public					Public									
	Other					Other									
Tubewell/borehole with pump	Tubewell, borehole	2.6	17.2		Tubewell/borehole	Tubewell, borehole	2.6	7.5							
	Private					Private									
	Public					Public									
	Other					Other									
	Traditional wells	21.9	26.8			Traditional wells	38.1	24.7							
	Private					Private									
	Public					Public									
	Other					Other									
Protected dug well	Protected well	12.6	14.6		Protected well	Protected well	30.8	15.9							
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected dug well	Unprotected well	9.3	14.2		Unprotected well	Unprotected well	7.3	8.8							
	Private					Private									
	Public					Public									
	Other					Other									
	All springs	3.7	7.1			All springs	2.9	9.1							
	Private					Private									
	Public					Public									
	Other					Other									
Protected spring	Protected spring	1.5	2.8		Protected spring	Protected spring	1.5	0.6							
	Private					Private									
	Public					Public									
	Other					Other									
Unprotected spring	Unprotected spring	2.2	4.3		Unprotected spring	Unprotected spring	1.4	8.5							
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater	0.2	0.0			Rainwater	0.0	0.1							
Rain water collection	Covered cistern/tank	0.2	0.0		Rainwater collection	Covered cistern/tank	0.0	0.1							
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water	0.0	0.2			Bottled water	0.3	0.1							
	with other improved				Bottled water + improved source	with other improved	0.0	0.0							
Bottled water	without other improved	0.0	0.2		Bottled water without improved source	without other improved	0.3	0.1							
Pond, river or stream	Surface water	9.8	34.1		Surface water	Surface water	6.5	50.7							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	3.0	0.4			Other non-improved	0.8	0.2							
	Cart with small tank/drum				Cart with small tank/drum	Cart with small tank/drum	0.1	0.1							
Tanker truck vendor	Tanker truck provided	0.9	0.0		Tanker-truck	Tanker truck provided	0.0	0.0							
Other	Other	2.1	0.4		Other	Other	0.7	0.1							
Missing/DK	DK/missing	1.0	1.2		DK/missing	DK/missing									
	Total	100.1	100.0			Total	99.8	100.1							
Calculations					Calculations										
Estimations					Estimations										
Access to improved drinking water sources :		75%	46%		Access to improved drinking water sources :		84%	32%							
Access to house connections :		30%	1%		Access to house connections :		20%	1%							
Used for the estimates:		Yes	Yes		Used for the estimates:		Yes	Yes							
Used for the estimates:		Yes	Yes		Used for the estimates:		Yes	Yes							
Ratios	HC / Tap water	51%	11%		Ratios	HC / Tap water	42%	13%							
	Public tap / Tap water	49%	89%			Public tap / Tap water	58%	87%							
	Tubewell + protected well / All wells	62%	69%			Tubewell + protected well / All wells	82%	73%							
	Protected wells / Traditional wells	58%	51%			Protected wells / Traditional wells	81%	64%							
	Tubewell / All wells	11%	37%			Tubewell / All wells	6%	23%							
	Protected springs / All springs	41%	39%			Protected springs / All springs	52%	7%							
	Protect. well & spring / well & spring	59%	65%			Protect. well & spring / well & spring	80%	58%							
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										

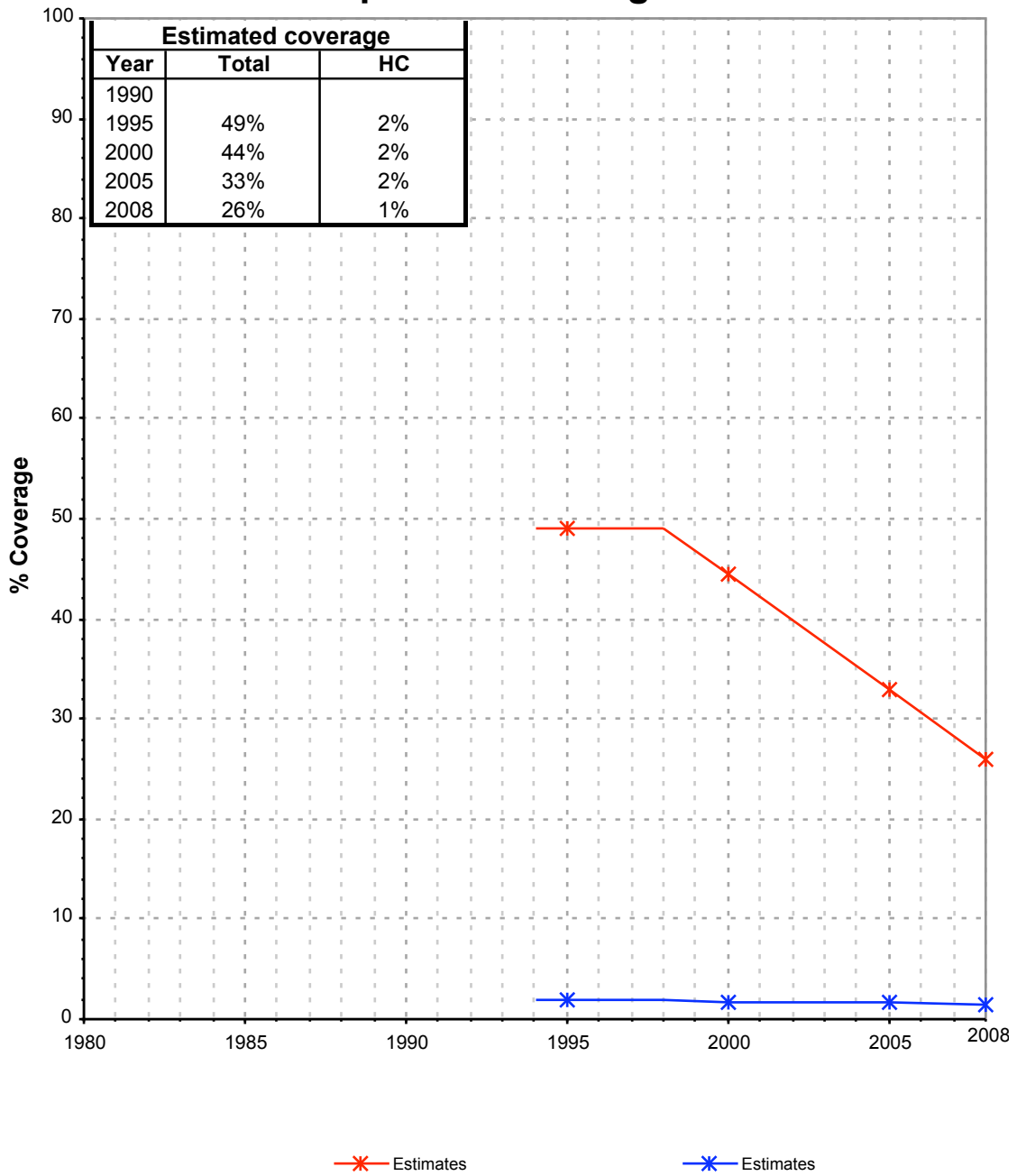
Access to drinking water sources		IHS03			Sierra Leone			Access to drinking water sources		DHS08			Sierra Leone		
INTEGRATED HOUSEHOLD SURVEY					2003			Demographic and Health Survey					2008		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	Tap water	45.8	10.7			Tap water									
	House connections	18.5	2.8			House connections									
Indoor plumbing/standpipe	Piped water into dwelling	14.5	2.0			Piped water into dwelling									
Private outside standpipe	Piped water to yard/plot	4.0	0.8			Piped water to yard/plot									
Public Standpipe	Public tap, standpipe	20.6	7.4			Public tap, standpipe									
Neighboring Household	Other	6.8	0.5			Other									
	Ground water	45.5	33.0			Ground water									
	Protected ground water	16.1	18.6	0.0		Protected ground water									
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs					Protected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs									
	Private					Private									
	Public					Public									
	Other					Other									
	All wells	45.5	33.0			All wells									
	Private					Private									
	Public					Public									
	Other					Other									
Well with pump	Tubewell, borehole	16.1	18.6			Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
Well without pump	Traditional wells	29.4	14.4			Traditional wells									
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well					Protected well									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well					Unprotected well									
	Private					Private									
	Public					Public									
	Other					Other									
	All springs					All springs									
	Private					Private									
	Public					Public									
	Other					Other									
	Protected spring					Protected spring									
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected spring					Unprotected spring									
	Private					Private									
	Public					Public									
	Other					Other									
	Rainwater		0.4			Rainwater									
Rainwater	Covered cistern/tank		0.4			Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	Bottled water					Bottled water									
	with other improved					with other improved									
	without other improved					without other improved									
River, Lake, Stream	Surface water	8.0	55.5			Surface water									
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	Other improved sources					Other improved sources									
	Other					Other									
	Other					Other									
	Other non-improved	0.7	0.5			Other non-improved									
Water vendor	Cart with small tank/drum	0.2				Cart with small tank/drum									
Water Tanker	Tanker truck provided	0.3				Tanker truck provided									
Other	Other	0.1	0.5			Other									
	Other					Other									
	DK/missing					DK/missing									
	Total	100.0	100.0			Total									
Calculations					Calculations										
Estimations	Protected wells (including tubewells and wells with pump) based on MICS06	37.3	24.0		Estimations										
Access to improved drinking water sources :		83%	35%		Access to improved drinking water sources :										
Access to house connections :		19%	3%		Access to house connections :										
Used for the estimates		Yes	Yes		Used for the estimates		No	No							
Used for the estimates		Yes	Yes		Used for the estimates		No	No							
Ratios	HC / Tap water	40%	26%		Ratios	HC / Tap water									
	Public tap / Tap water	45%	69%			Public tap / Tap water									
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells	35%	56%			Tubewell / All wells									
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring					Protect. well & spring / well & spring									
	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										

Sierra Leone			DRINKING WATER							
			URBAN				RURAL			
			House connection		Total		House connection		Total	
Source	Code	Year	Used	Not used	Used	Not used	Used	Not used	Used	Not used
Multiple Indicator Cluster Survey	MICS00	2000	29.7		74.8		1.2		45.6	
Multiple Indicator Cluster Survey	MICS06	2006	20.3		83.5		1.0		31.8	
INTEGRATED HOUSEHOLD SURVEY	IHS03	2003	18.5				2.8		35.1	
Demographic and Health Survey	DHS08	2008								

Sierra Leone - urban - Use of improved drinking water sources



Sierra Leone - rural - Use of improved drinking water sources



Drinking Water

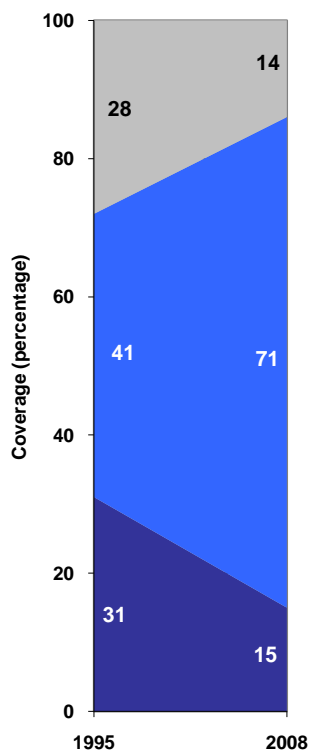
Sierra Leone	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1995	2008	1995	2008	1995	2008
Piped into premises	31	15	2	1	12	6
Other improved source	41	71	47	25	45	43
Unimproved source	28	14	51	74	43	51

Source: WHO/UNICEF JMP, 2010

Sierra Leone	Urban		Rural		Total	
	1995	2008	1995	2008	1995	2008
Population (x1000)	1,364	2,097	2,624	3,463	3,989	5,560

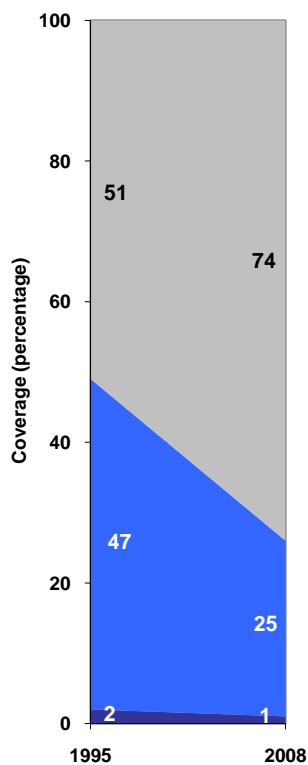
Source: UN / Population Division, 2008

Urban drinking water trends



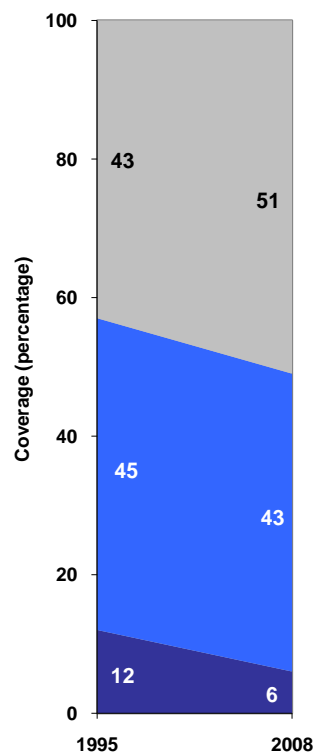
■ Unimproved sources
■ Other improved sources
■ Piped onto premises

Rural drinking water trends



■ Piped onto premises
■ Other improved sources
■ Unimproved sources

Total drinking water trends



■ Unimproved sources
■ Other improved sources
■ Piped onto premises