

**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)

Access to drinking water sources		DHS87		Ecuador		Access to drinking water sources		CEN90		Ecuador	
Demographic and Health Survey				1987		National Census as recorded in the Global Water Supply and Sanitation Assessment 2000. Water Supply and Sanitation Sector Questionnaire - 1999.				1990	
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total		
	<b>Tap water</b>					<b>Tap water</b>	77.5	39.0			
	House connections					House connections	77.5	39.0			
	Piped water into dwelling				Household Connection	Piped water into dwelling	72.9	30.9			
	Piped water to yard/plot				Shared Water Point	Piped water to yard/plot	4.6	8.1			
	Public tap, standpipe					Public tap, standpipe					
	Other					Other					
	<b>Ground water</b>					<b>Ground water</b>	4.6	25.4			
	Protected ground water					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					
	<b>All wells</b>			Well		<b>All wells</b>	4.6	25.4			
	Private					Private					
	Public					Public					
	Other					Other					
	Tubewell, borehole					Tubewell, borehole					
	Private					Private					
	Public					Public					
	Other					Other					
	<b>Traditional wells</b>					<b>Traditional wells</b>					
	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					
	<b>All springs</b>					<b>All springs</b>					
	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					
	<b>Rainwater</b>					<b>Rainwater</b>					
	Covered cistern/tank					Covered cistern/tank					
	Uncovered cistern/tank					Uncovered cistern/tank					
	<b>Bottled water</b>					<b>Bottled water</b>					
	with other improved					with other improved					
	without other improved					without other improved					
	<b>Surface water</b>					<b>Surface water</b>					
	River					River					
	Lake					Lake					
	Dam					Dam					
	Pond					Pond					
	Stream					Stream					
	Irrigation channel					Irrigation channel					
	Other					Other					
	<b>Other improved sources</b>					<b>Other improved sources</b>					
	Other					Other					
	Other					Other					
	<b>Other non-improved</b>					<b>Other non-improved</b>	17.9	35.6			
	Cart with small tank/drum				Distributing vehicle	Cart with small tank/drum	16.5	7.3			
	Tanker truck provided				Other	Tanker truck provided	1.4	28.3			
	Other					Other					
	Other					Other					
	<b>DK/missing</b>					<b>DK/missing</b>					
	<b>Total</b>					<b>Total</b>	100.0	100.0			
<b>Calculations</b>					<b>Calculations</b>						
<b>Estimations</b>					<b>Estimations</b>	protected wells based on WHS03	3.9	21.1			
						Standpipe, based on ECV98	-2.3	-1.2			
<b>Access to improved drinking water sources :</b>							<b>81%</b>	<b>60%</b>			
<b>Access to house connections :</b>							<b>75%</b>	<b>38%</b>			
Used for the estimates:							No	No			
Used for the estimates:							No	No			
<b>Ratios</b>	HC / Tap water				<b>Ratios</b>	HC / Tap water	100%	100%			
	Public tap / Tap water					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					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 census:					
	Number of households covered by the survey:					Number of households covered by the census:					
	Total population:					Total population:	5346	4302			
<b>Comments</b>					<b>Comments</b>						

Access to drinking water sources		END94			Ecuador			Access to drinking water sources		ECV98			Ecuador		
ENDEMAIN								Desigualdades en el acceso, uso y gasto con el agua potable en América Latina y el Caribe.							
CEPAR/USAID/CDC/UNFPA		1994			PAHO, Feb 2001, based on ECV 1998			1998							
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Tap water</b>	<b>85.8</b>	<b>52.8</b>	<b>71.7</b>		<b>Tap water</b>	<b>84.6</b>	<b>52.2</b>							
	House connections	85.8	52.8	71.7		House connections	73.0	26.7							
Red publica dentro de la vivienda	Piped water into dwelling	62.6	24.9	46.5	Red publica dentro de la vivienda	Piped water into dwelling	52.2	9.7							
Red publica fuera de la vivienda	Piped water to yard/plot	23.2	27.9	25.2	Red publica fuera de la vivienda pero en el lote o loteo	Piped water to yard/plot	20.8	17.0							
	Public tap, standpipe				Pila o llave publica	Public tap, standpipe	2.5	1.7							
	Other				Otra fuente por tuberia	Other	9.1	23.8							
	<b>Ground water</b>	<b>3.4</b>	<b>25.4</b>	<b>12.8</b>		<b>Ground water</b>	<b>3.0</b>	<b>12.0</b>							
	Protected ground water					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									
Agua de pozo	<b>All wells</b>	3.4	25.4	12.8	Pozo	<b>All wells</b>	3.0	12.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>					<b>Traditional wells</b>									
	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									
	<b>All springs</b>					<b>All springs</b>									
	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									
	<b>Rainwater</b>					<b>Rainwater</b>	2.5	11.3							
	Covered cistern/tank				Agua de lluvia	Covered cistern/tank	2.5	11.3							
	Uncovered cistern/tank					Uncovered cistern/tank									
	<b>Bottled water</b>					<b>Bottled water</b>									
	with other improved					with other improved									
	without other improved					without other improved									
Rio/vertiente/acequia/canal	<b>Surface water</b>	0.3	15.5	6.8	Rio, vertiente o acquia	<b>Surface water</b>	0.6	18.6							
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	<b>Other improved sources</b>					<b>Other improved sources</b>									
	Other					Other									
	Other					Other									
	<b>Other non-improved</b>	10.5	6.3	8.7		<b>Other non-improved</b>	9.3	5.8							
	Cart with small tank/drum				Carro repartidor, triciclo	Cart with small tank/drum	6.5	2.7							
Camion tanquero	Tanker truck provided	9.1	2.3	6.2		Tanker truck provided									
Otro	Other	1.4	4.0	2.5	Red publica y carro repartidor	Other	2.2	1.5							
	Other				Otro	Other	0.6	1.8							
	<b>DK/missing</b>					<b>DK/missing</b>									
	<b>Total</b>	100.0	100.0	100.0		<b>Total</b>	100.0	100.0							
<b>Calculations</b>					<b>Calculations</b>										
<b>Estimations</b>					<b>Estimations</b>										
	protected wells based on WHS03	2.9	21.1			protected wells based on WHS03	1.5	6.0							
	Standpipe, based on CEN90	-5.6	-10.8												
<b>Access to improved drinking water sources :</b>		<b>89%</b>	<b>74%</b>		<b>Access to improved drinking water sources :</b>		<b>89%</b>	<b>70%</b>							
<b>Access to house connections :</b>		<b>80%</b>	<b>42%</b>		<b>Access to house connections :</b>		<b>82%</b>	<b>50%</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>	HC / Tap water	100%	100%		<b>Ratios</b>	HC / Tap water	86%	51%							
	Public tap / Tap water					Public tap / Tap water	3%	3%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells									
	Protected wells / Traditional wells					Protected wells / Traditional wells									
	Tubewell / All wells					Tubewell / All wells									
	Protected springs / All springs					Protected springs / All springs									
	Protect. well & spring / well & spring					Protect. well & spring / well & spring									
						"en el lote" / "fuera"	64%	40%							
						Standpipe among tap water	3%	3%							
						Rainwater among surface water	81%	38%							
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>										

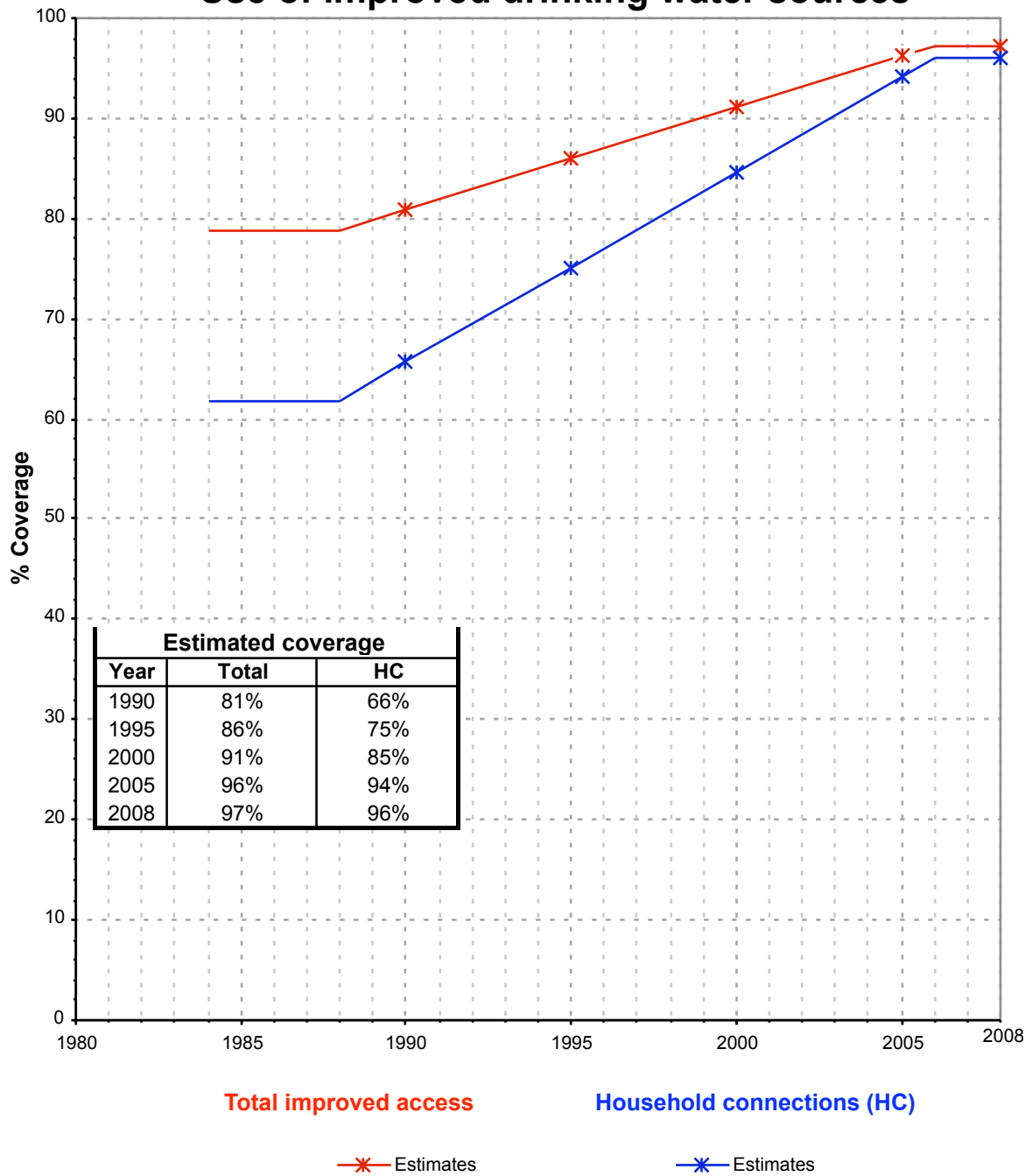
Access to drinking water sources		END99			Ecuador			Access to drinking water sources		JMP99			Ecuador		
ENDEMAIN					Global Water Supply and Sanitation Assessment 2000.										
CEPAR/USAID/CDC/UNFPA					Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1998					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Tap water</b>	86.1	61.5	76.0		<b>Tap water</b>	76.9	42.0							
	House connections	86.1	61.5	76.0	Population served with household connection	House connections	76.9	42.0							
Tuberia al interior	Piped water into dwelling	62.0	17.9	44.1		Piped water into dwelling									
Tuberia fuera	Piped water to yard/plot	24.1	43.6	31.9		Piped water to yard/plot									
	Public tap, standpipe					Public tap, standpipe									
	Other					Other									
	<b>Ground water</b>	4.3	16.3	9.2		<b>Ground water</b>	4.6	9.4							
	Protected ground water				Population without household connection but with reasonable access to a public	Protected ground water	4.6	9.4							
	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									
Pozo abierto	<b>All wells</b>	4.3	16.3	9.2		<b>All wells</b>									
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole									
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>					<b>Traditional wells</b>									
	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									
	<b>All springs</b>					<b>All springs</b>									
	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									
	<b>Rainwater</b>					<b>Rainwater</b>									
	Covered cistern/tank					Covered cistern/tank									
	Uncovered cistern/tank					Uncovered cistern/tank									
	<b>Bottled water</b>					<b>Bottled water</b>									
	with other improved					with other improved									
	without other improved					without other improved									
Rio, acequia o canal	<b>Surface water</b>	0.9	14.1	6.2		<b>Surface water</b>									
	River					River									
	Lake					Lake									
	Dam					Dam									
	Pond					Pond									
	Stream					Stream									
	Irrigation channel					Irrigation channel									
	Other					Other									
	<b>Other improved sources</b>					<b>Other improved sources</b>									
	Other					Other									
	Other					Other									
	<b>Other non-improved</b>	8.7	8.1	8.6	Total population unserved	<b>Other non-improved</b>	18.5	48.6							
	Cart with small tank/drum					Cart with small tank/drum									
Tanquero	Tanker truck provided	7.0	2.5	5.2		Tanker truck provided									
Otro	Other	1.7	5.6	3.4		Other									
	Other					Other									
	<b>DK/missing</b>					<b>DK/missing</b>									
	<b>Total</b>	100.0	100.0	100.0		<b>Total</b>	100.0	100.0							
<b>Calculations</b>					<b>Calculations</b>										
<b>Estimations</b>	protected wells based on WHS03	3.7	13.6		<b>Estimations</b>										
	Standpipe, based on ECV98	-2.5	-2.0												
<b>Access to improved drinking water sources :</b>		<b>90%</b>	<b>75%</b>		<b>Access to improved drinking water sources :</b>		<b>81%</b>	<b>51%</b>							
<b>Access to house connections :</b>		<b>84%</b>	<b>60%</b>		<b>Access to house connections :</b>		<b>77%</b>	<b>42%</b>							
Used for the estimates:		Yes	Yes		Used for the estimates:		No	No							
		Yes	Yes				No	No							
<b>Ratios</b>	HC / Tap water	100%	100%		<b>Ratios</b>	HC / Tap water	100%	100%							
	Public tap / Tap water					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					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:	7635	4540							
<b>Comments</b>					<b>Comments</b>										



Access to drinking water sources		EDSM04			Ecuador			Access to drinking water sources		CEN90			Ecuador						
ENCUESTA DEMOGRAFICA Y DE SALUD MATERNO INFANTIL					National Census														
					2004					IPUMS					1990				
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total					
	<b>Tap water</b>	88.6	59.5			<b>Tap water</b>	64.0	21.9			<b>Tap water</b>	59.8	17.4						
	House connections	88.6	59.5			House connections	59.8	17.4			House connections	45.7	6.9						
Tubería dentro la vivienda	Piped water into dwelling	66.5	19.8		Pipe inside dwelling	Piped water into dwelling	45.7	6.9		Pipe inside dwelling	Piped water to yard/plot	14.1	10.5						
Tubería fuera la vivienda, dentro del lote	Piped water to yard/plot	22.1	39.7		Pipe outside dwelling	Piped water to yard/plot	14.1	10.5		Pipe outside dwelling	Public tap, standpipe	4.2	4.5						
	Public tap, standpipe				Pipe outside building	Other				Other									
	Other																		
	<b>Ground water</b>	4.1	20.3			<b>Ground water</b>	9.5	27.5			<b>Ground water</b>								
	Protected ground water					Protected ground water					Protected ground water								
	Unprotected ground water					Unprotected ground water					Unprotected ground water								
	Protected wells or springs					Protected wells or springs					Protected wells or springs								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Unprotected wells or springs					Unprotected wells or springs					Unprotected wells or springs								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
Grifo o pozo	<b>All wells</b>	4.1	20.3		Well	<b>All wells</b>	9.5	27.5			<b>All wells</b>								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Tubewell, borehole					Tubewell, borehole					Tubewell, borehole								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	<b>Traditional wells</b>					<b>Traditional wells</b>					<b>Traditional wells</b>								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Protected well					Protected well					Protected well								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Unprotected well					Unprotected well					Unprotected well								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	<b>All springs</b>					<b>All springs</b>					<b>All springs</b>								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Protected spring					Protected spring					Protected spring								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	Unprotected spring					Unprotected spring					Unprotected spring								
	Private					Private					Private								
	Public					Public					Public								
	Other					Other					Other								
	<b>Rainwater</b>					<b>Rainwater</b>					<b>Rainwater</b>								
	Covered cistern/tank					Covered cistern/tank					Covered cistern/tank								
	Uncovered cistern/tank					Uncovered cistern/tank					Uncovered cistern/tank								
	<b>Bottled water</b>					<b>Bottled water</b>					<b>Bottled water</b>								
	with other improved					with other improved					with other improved								
	without other improved					without other improved					without other improved								
Río, acequia, manantial, ojo de agua	<b>Surface water</b>	0.2	12.6		River, spring, etc.	<b>Surface water</b>	7.4	40.7			<b>Surface water</b>								
	River					River					River								
	Lake					Lake					Lake								
	Dam					Dam					Dam								
	Pond					Pond					Pond								
	Stream					Stream					Stream								
	Irrigation channel					Irrigation channel					Irrigation channel								
	Other					Other					Other								
	<b>Other improved sources</b>					<b>Other improved sources</b>					<b>Other improved sources</b>								
	Other					Other					Other								
	Other					Other					Other								
	<b>Other non-improved</b>	7.1	7.6			<b>Other non-improved</b>	18.2	9.0			<b>Other non-improved</b>								
	Cart with small tank/drum					Cart with small tank/drum					Cart with small tank/drum								
	Tanker truck provided				Delivery truck	Tanker truck provided	15.0	4.4			Tanker truck provided	3.2	4.6						
Otro	Other	7.1	7.6		Other	Other	3.2	4.6			Other								
	Other					Other					Other								
	<b>DK/missing</b>				NIU	<b>DK/missing</b>	1.0	0.7			<b>DK/missing</b>								
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.1	99.8			<b>Total</b>								
<b>Calculations</b>					<b>Calculations</b>					<b>Calculations</b>									
<b>Estimations</b>	protected wells based on WHS03	3.5	16.9			protected wells based on WHS03	8.1	22.9			protected wells based on WHS03								
	Rainwater, based on ECV98	0.2	4.8			Rainwater, based on ECV98	6.0	15.4			Rainwater, based on ECV98								
	Standpipe, based on WHS03	-1.1	-1.8																
<b>Access to improved drinking water sources :</b>		<b>92%</b>	<b>81%</b>		<b>Access to improved drinking water sources :</b>		<b>78%</b>	<b>60%</b>		<b>Access to improved drinking water sources :</b>		<b>78%</b>	<b>60%</b>						
<b>Access to house connections :</b>		<b>88%</b>	<b>58%</b>		<b>Access to house connections :</b>		<b>60%</b>	<b>17%</b>		<b>Access to house connections :</b>		<b>60%</b>	<b>17%</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		Used for the estimates		Yes	Yes		Used for the estimates		Yes	Yes						
<b>Ratios</b>	HC / Tap water	100%	100%		<b>Ratios</b>	HC / Tap water	93%	79%		<b>Ratios</b>	HC / Tap water	93%	79%						
	Public tap / Tap water					Public tap / Tap water	7%	21%			Public tap / Tap water								
	Tubewell + protected well / All wells					Tubewell + protected well / All wells					Tubewell + protected well / All wells								
	Protected wells / Traditional wells					Protected wells / Traditional wells					Protected wells / Traditional wells								
	Tubewell / All wells					Tubewell / All wells					Tubewell / All wells								
	Protected springs / All springs					Protected springs / All springs					Protected springs / All springs								
	Protect. well & spring / well & spring					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 people covered by the survey:								
	Number of households covered by the survey:					Number of households covered by the survey:					Number of households covered by the survey:								
	Total population:					Total population:					Total population:								
<b>Comments</b>					<b>Comments</b>					<b>Comments</b>									

Ecuador			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
Demographic and Health Survey	DHS87	1987								
National Census	CEN90	1990		75.2		81.4		37.8		60.2
ENDEMAIN	END94	1994	80.2		88.7		42.0		73.9	
Desigualdades en el acceso, uso y gasto con el agua potable en America Latina y el Caribe	ECV98	1998	82.1		88.6		50.5		69.5	
ENDEMAIN	END99	1999	83.6		89.8		59.5		75.1	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		76.9		81.5		42.0		51.4
World Health Survey	WHS03	2003	92.1		96.4		68.3		89.7	
ENCUESTA DEMOGRAFICA Y DE SALUD MATERNO INFANTIL	EDSM89	1989		79.7		87.6		31.1		61.2
ENCUESTA DEMOGRAFICA Y DE SALUD MATERNO INFANTIL	EDSM04	2004	87.5		92.3		57.7		81.2	
National Census	CEN90	1990	59.8		78.1		17.4		60.2	

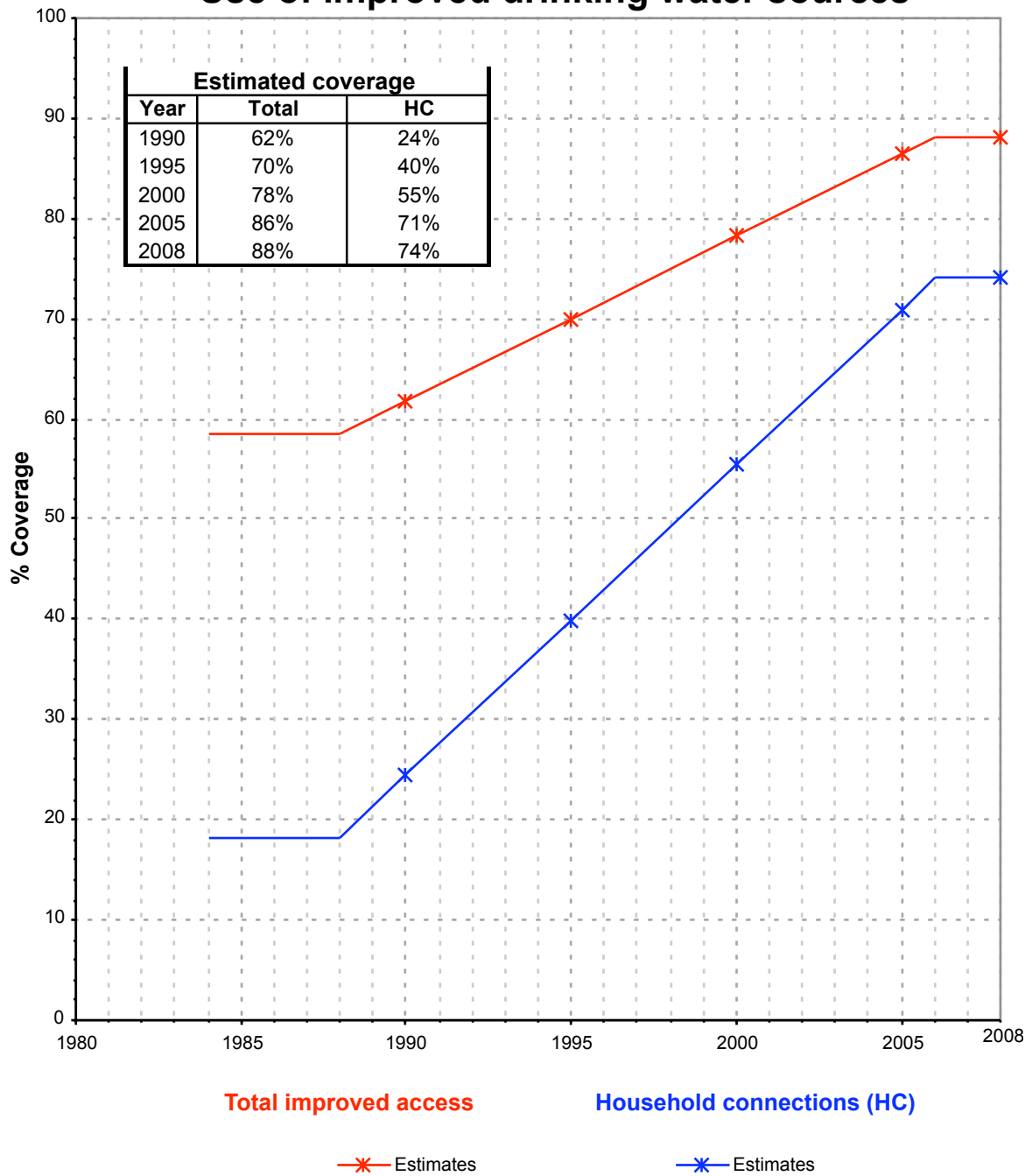
## Ecuador - urban - Use of improved drinking water sources



Estimated coverage		
Year	Total	HC
1990	81%	66%
1995	86%	75%
2000	91%	85%
2005	96%	94%
2008	97%	96%

Total access :  
Household connections :

## Ecuador - rural - Use of improved drinking water sources



<b>Total access :</b>  <b>Household connections :</b>
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# Drinking Water

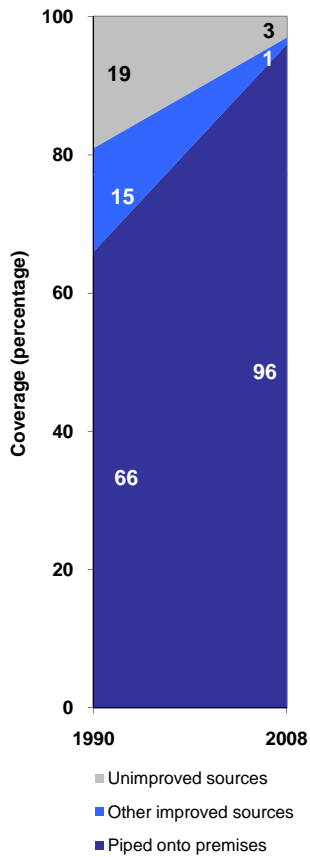
Ecuador	Drinking water coverage estimates					
	Urban (%)		Rural (%)		Total (%)	
	1990	2008	1990	2008	1990	2008
Piped into premises	66	96	24	74	47	88
Other improved source	15	1	38	14	25	6
Unimproved source	19	3	38	12	28	6

Source: WHO/UNICEF JMP, 2010

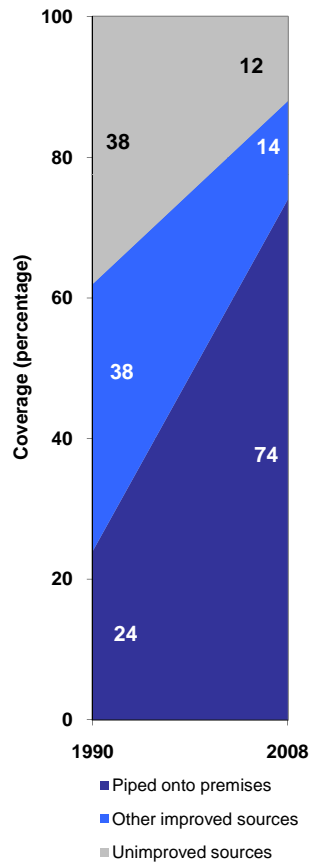
Ecuador	Urban		Rural		Total	
	1990	2008	1990	2008	1990	2008
Population (x1000)	5,662	8,851	4,616	4,630	10,278	13,481

Source: UN / Population Division, 2008

Urban drinking water trends



Rural drinking water trends



Total drinking water trends

