



**WHO / UNICEF**

**Joint Monitoring Programme  
for Water Supply and Sanitation**

Estimates for the use of

**Improved  
Drinking-Water Sources**

Updated March 2010

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**Bolivia**

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Access to drinking water sources		DHS89			Bolivia			Access to drinking water sources		CEN92			Bolivia		
Demographic and Health Survey					1989			National Census					1992		
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
	<b>Tap water</b>	87.9	36.9			<b>Tap water</b>	81.4	19.1							
	House connections	76.8	26.3			House connections	81.4	19.1							
Domestic connection	Piped water into dwelling	67.7	21.3		Por caneria dentro de la vivienda	Piped water into dwelling	41.0	4.3							
Yard tap	Piped water to yard/plot	9.1	5.1		De caneria fuera d ela vivienda	Piped water to yard/plot	40.3	14.9							
Public tap	Public tap, standpipe	11.1	10.6			Public tap, standpipe									
	Other					Other									
	<b>Ground water</b>	6.5	29.4			<b>Ground water</b>	9.7	35.2							
	Protected ground water					Protected ground water	1.9	1.8							
	Unprotected ground water					Unprotected ground water									
	Protected wells or springs					Protected wells or springs	1.9	1.8							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.0	0.0							
	Private					Private									
	Public					Public									
	Other					Other									
Well or cistem	<b>All wells</b>	6.5	29.4			<b>All wells</b>	9.7	35.2							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole				De pozo o noria por caneria	Tubewell, borehole	1.9	1.8							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>				De pozo o noria sin caneria	<b>Traditional wells</b>	7.8	33.4							
	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>	0.5	0.8			<b>Rainwater</b>									
Rainwater	Covered cistem/tank	0.5	0.8			Covered cistem/tank									
	Uncovered cistem/tank					Uncovered cistem/tank									
	<b>Bottled water</b>					<b>Bottled water</b>									
	with other improved					with other improved									
	without other improved					without other improved									
River, irrigated channel	<b>Surface water</b>	0.7	30.2		De rio o vertiente	<b>Surface water</b>	2.1	42.3							
	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>	4.4	2.7			<b>Other non-improved</b>	6.9	3.4							
	Cart with small tank/drum					Cart with small tank/drum									
Truckborne	Tanker truck provided	1.5	0.2		De carro cisterna	Tanker truck provided	4.6	1.1							
Other source	Other	2.9	2.5		Otro	Other	2.2	2.3							
	Other					Other									
Missing	<b>DK/missing</b>	0.0	0.1			<b>DK/missing</b>									
	<b>Total</b>	100.0	100.0			<b>Total</b>	100.0	100.0							
<b>Calculations</b>					<b>Calculations</b>										
<b>Estimations</b>					<b>Estimations</b>										
	wells estimated at % of MICS2000	4.7	18.1		"Pozo o noria sin caneria" estimated improved, based on MICS00	5.1	14.4								
	Protected springs, based on MICS00	0.2	1.4		Protected springs, based on MICS00	0.7	2.0								
					HC corrected for public standpipe, based on CEN92 (PUMS)	72.0	14.3								
<b>Access to improved drinking water sources :</b>		<b>93%</b>	<b>57%</b>		<b>Access to improved drinking water sources :</b>		<b>89%</b>	<b>37%</b>							
<b>Access to house connections :</b>		<b>77%</b>	<b>26%</b>		<b>Access to house connections :</b>		<b>72%</b>	<b>14%</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>	HC / Tap water	87%	71%		<b>Ratios</b>	HC / Tap water	100%	100%							
	Public tap / Tap water	13%	29%			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	100%	100%							
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:		3615	2679							
<b>Comments</b>					<b>Comments</b>										









Access to drinking water sources		JMP99			Bolivia			Access to drinking water sources		MICS00			Bolivia		
Global Water Supply and Sanitation Assessment 2000.					Multiple Indicator Cluster Survey					Encuesta de múltiples indicadores por conglomerados Informe preliminar, febrero 2001					
Water Supply and Sanitation Sector Questionnaire - 1999. Form 6 sent to WHO.					1998					2000					
Original denomination	Classification	Urban	Rural	Total	Original denomination	Classification	Urban	Rural	Total						
Population served with household connection	<b>Tap water</b>	87.4	30.4			<b>Tap water</b>	91.6	59.5							
	House connections					House connections	90.2	53.2							
	Piped water into dwelling					Piped water into dwelling	43.7	11.3							
	Piped water to yard/plot					Piped water to yard/plot	46.5	41.9							
	Public tap, standpipe					Public tap, standpipe	1.4	6.3							
	Other					Other									
Population without household connection but with reasonable access to a public	<b>Ground water</b>	5.7	13.6			<b>Ground water</b>	3.1	22.8							
	Protected ground water	5.7	13.6			Protected ground water	2.2	11.8							
	Unprotected ground water					Unprotected ground water	0.9	11.0							
	Protected wells or springs					Protected wells or springs	2.2	11.8	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected wells or springs					Unprotected wells or springs	0.9	11.0	0.0						
	Private					Private									
	Public					Public									
	Other					Other									
	<b>All wells</b>					<b>All wells</b>	2.9	18.0							
	Private					Private									
	Public					Public									
	Other					Other									
	Tubewell, borehole					Tubewell, borehole	0.6	5.9							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>Traditional wells</b>					<b>Traditional wells</b>	2.3	12.1							
	Private					Private									
	Public					Public									
	Other					Other									
	Protected well					Protected well	1.5	5.2							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected well					Unprotected well	0.8	6.9							
	Private					Private									
	Public					Public									
	Other					Other									
	<b>All springs</b>					<b>All springs</b>	0.2	4.8							
	Private					Private									
	Public					Public									
	Other					Other									
	Protected spring					Protected spring	0.1	0.7							
	Private					Private									
	Public					Public									
	Other					Other									
	Unprotected spring					Unprotected spring	0.1	4.1							
	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>	0.1	9.9							
	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									
Total population unserved	<b>Other non-improved</b>	6.9	56.0			<b>Other non-improved</b>	5.2	7.7							
	Cart with small tank/drum					Cart with small tank/drum									
	Tanker truck provided					Tanker truck provided	2.0	0.1							
	Other					Other	3.2	7.6							
	Other					Other									
	<b>DK/missing</b>					<b>DK/missing</b>									
	<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>										
<b>Access to improved drinking water sources :</b>		93%	44%		<b>Access to improved drinking water sources :</b>		94%	71%							
<b>Access to house connections :</b>		87%	30%		<b>Access to house connections :</b>		90%	53%							
Used for the estimates:		No	No		Used for the estimates:		Yes	No							
Used for the estimates:		No	No		Used for the estimates:		Yes	No							
<b>Ratios</b>	HC / Tap water	100%	100%		<b>Ratios</b>	HC / Tap water	98%	89%							
	Public tap / Tap water					Public tap / Tap water	2%	11%							
	Tubewell + protected well / All wells					Tubewell + protected well / All wells	72%	62%							
	Protected wells / Traditional wells					Protected wells / Traditional wells	65%	43%							
	Tubewell / All wells					Tubewell / All wells	21%	33%							
	Protected springs / All springs					Protected springs / All springs	50%	15%							
	Protect. well & spring / well & spring					Protect. well & spring / well & spring	71%	52%							
					Protected springs among surface water	33%	5%								
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:		4770	3180		Total population:										
<b>Comments</b>					<b>Comments</b>										





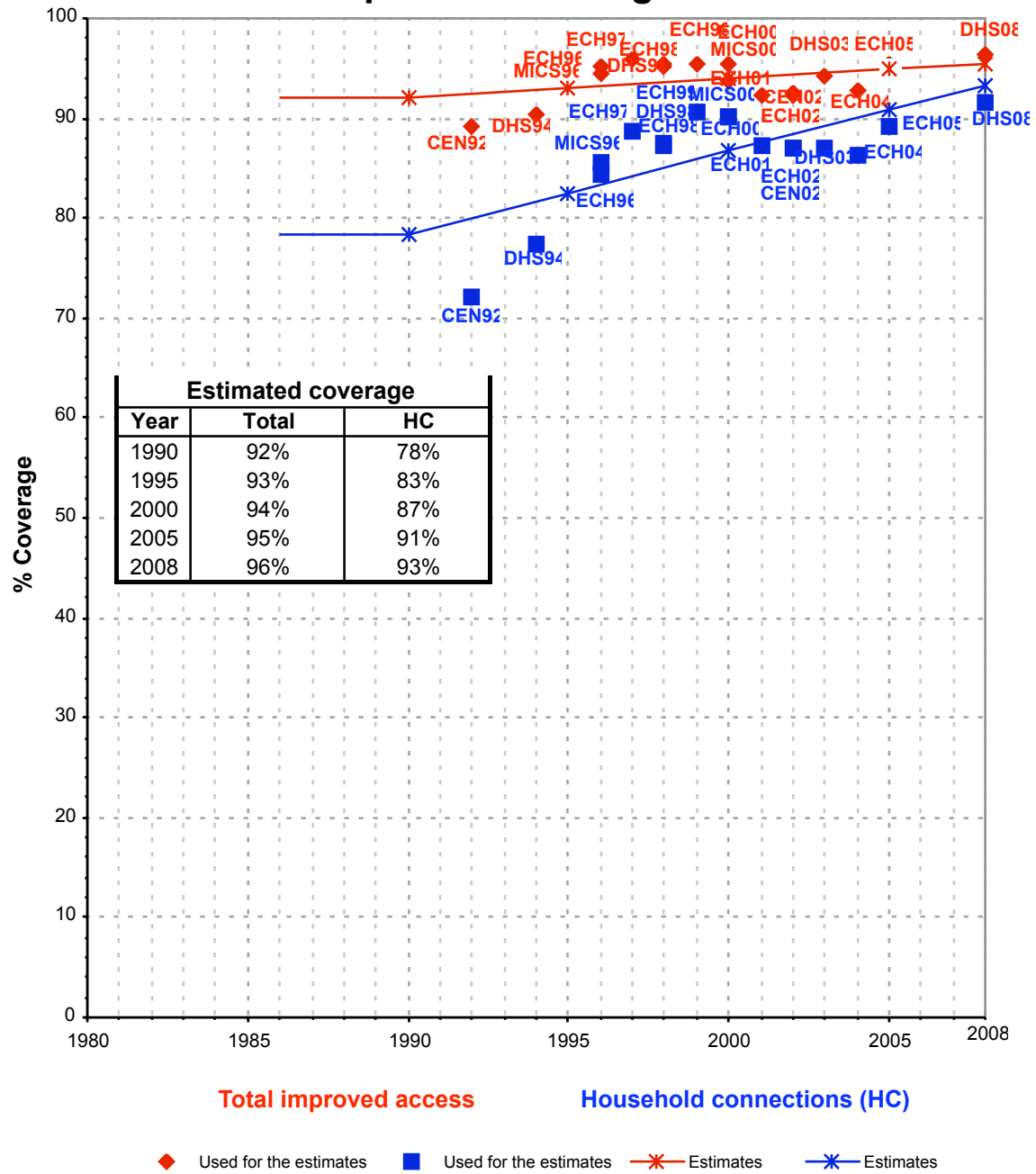




Access to drinking water sources		DHS08		Bolivia		
Demographic and Health Survey				2008		
Original denomination	Classification	Urban	Rural	Total		
<b>Tap water</b>		94.1	66.4	82.3		
	House connections	91.5	57.4	77.0		
Tubería dentro de la vivienda/patio	Piped water into dwelling	91.5	57.4	77.0		
	Piped water to yard/plot					
Tubería pública fuera de la vivienda	Public tap, standpipe	2.6	9.0	5.3		
	Other					
<b>Ground water</b>		3.1	18.2	9.5		
	Protected ground water	0.5	4.5	2.2		
	Unprotected ground water					
	Protected wells or springs	0.5	4.5	2.2		
	Private					
	Public					
	Other					
	Unprotected wells or springs					
	Private					
	Public					
	Other					
	<b>All wells</b>	3.1	18.2	9.5		
	Private					
	Public					
	Other					
Pozo or noria con bomba	Tubewell, borehole	0.5	4.5	2.2		
	Private					
	Public					
	Other					
Pozo or noria sin bomba	<b>Traditional wells</b>	2.6	13.7	7.3		
	Private					
	Public					
	Other					
	Protected well					
	Private					
	Public					
	Other					
	Unprotected well					
	Private					
	Public					
	Other					
	<b>All springs</b>					
	Private					
	Public					
	Other					
	Protected spring					
	Private					
	Public					
	Other					
	Unprotected spring					
	Private					
	Public					
	Other					
<b>Rainwater</b>						
	Covered cistern/tank					
	Uncovered cistern/tank					
<b>Bottled water</b>						
	with other improved					
	without other improved					
<b>Surface water</b>		0.3	13.6	6.0		
Río/vertiente/acequia	River	0.3	12.4	5.4		
Lago/laguna/caniche	Lake	0.0	1.2	0.6		
	Dam					
	Pond					
	Stream					
	Irrigation channel					
	Other					
<b>Other improved sources</b>						
	Other					
	Other					
<b>Other non-improved</b>		2.5	1.6	2.1		
	Cart with small tank/drum					
Carro repartidor (aguatero)	Tanker truck provided	2.0	0.4	1.3		
Otro	Other	0.5	1.2	0.6		
	Other					
Sin información	<b>DK/missing</b>	0.0	0.2	0.1		
	<b>Total</b>	100.0	100.0	100.0		
<b>Calculations</b>						
<b>Estimations</b>						
	Traditional wells considered improved, based on MICS00	1.7	5.9	2.1		
<b>Access to improved drinking water sources</b>		96%	77%	85%		
<b>Access to house connections</b>		92%	57%	77%		
Used for the estimates		Yes	Yes			
<b>Ratios</b>						
	HC / Tap water	97%	86%			
	Public tap / Tap water	3%	14%			
	Tubewell + protected well / All wells					
	Protected wells / Traditional wells					
	Tubewell / All wells	16%	25%			
	Protected springs / All springs					
	Protect. well & spring / well & spring					
Number of people covered by the survey:						
Number of households covered by the survey:						
Total population:						
<b>Comments</b>						

Bolivia			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	DHS89	1989		76.8		93.3		26.3		57.2
National Census	CEN92	1992	72.0		89.1		14.3		37.3	
National Census	CEN92	1992		67.9		85.2		9.3		30.2
Demographic and Health Survey	DHS94	1994	77.5		90.4		23.4		53.9	
Multiple Indicator Cluster Survey	MICS96	1996	85.6		94.6		33.9		58.7	
Encuesta Continua de Hogares	ECH96	1996	84.5		95.1		26.0		49.9	
Encuesta Continua de Hogares	ECH97	1997	88.8		96.0		29.1		52.0	
Demographic and Health Survey	DHS98	1998	87.4		95.4		30.4		59.9	
Encuesta Continua de Hogares	ECH98	1998	87.3		95.1		30.3		58.4	
Encuesta Continua de Hogares	ECH99	1999	90.5		95.4		23.0		46.5	
Global Water Supply and Sanitation Assessment 2000.	JMP99	1998		87.4		93.1		30.4		44.0
Multiple Indicator Cluster Survey	MICS00	2000	90.2		93.8			53.2		71.3
Encuesta Continua de Hogares	ECH00	2000	90.1		95.4		35.6		54.5	
Encuesta Continua de Hogares	ECH01	2001	87.2		92.3		35.6		60.7	
National Census	CEN02	2002	86.9		92.6		27.3		53.5	
National Census	CEN02	2002		80.6		90.6		29.8		56.8
Encuesta Continua de Hogares	ECH02	2002	86.9		92.4		27.3		51.9	
Demographic and Health Survey	DHS03	2003	87.1		94.1		46.3		69.4	
Encuesta Continua de Hogares	ECH04	2004	86.3		92.7		33.6		56.0	
Encuesta Continua de Hogares	ECH05	2005	89.3		95.4		38.8		55.3	
Demographic and Health Survey	DHS08	2008	91.5		96.3		57.4		76.8	

# Bolivia - urban - Use of improved drinking water sources



# Bolivia - rural - Use of improved drinking water sources

