

WATER AND SANITATION IN LATIN AMERICAN CITIES

	Number of cities	Census year	Average level of piped water access	Lowest level of piped water access	Highest piped water access	Average level of access to water source inside the house	Lowest level of access to water inside house	Highest level of access to water inside house	Average proportion of people with connection to water network	Lowest proportion of people with connection to water network	Highest proportion of people with connection to water network	Average level of access to a sewage system	Lowest level of access to a sewage system	Highest access to a sewage system	Average level of access to a sewage network	Lowest level of access to a sewage network	Highest level of access to a sewage network
		2005-															
All cities	371	2018	95%	25%	100%	87%	33%	100%	90%	15%	100%	84%	17%	100%	63%	1%	99%
Argentina	33	2010	99%	94%	100%	92%	77%	98%	94%	78%	99%	85%	66%	96%	67%	34%	93%
Brazil	152	2010	97%	73%	100%	95%	65%	100%	88%	38%	99%	77%	17%	100%	62%	1%	99%
Chile	21	2017	ND	ND	ND	ND	ND	ND	95%	80%	100%	ND	ND	ND	ND	ND	ND
Colombia	35	2018	91%	25%	99%	ND	ND	ND	92%	15%	99%	95%	52%	100%	85%	16%	98%
Costa Rica	1	2011	99%	n/a	n/a	99%	n/a	n/a	99%	n/a	n/a	98%	n/a	n/a	35%	n/a	n/a
Guatemala	3	2018	85%	74%	91%	79%	66%	86%	83%	71%	90%	87%	84%	89%	81%	79%	84%
Mexico	92	2010	94%	59%	100%	78%	33%	96%	94%	59%	100%	93%	76%	99%	77%	8%	98%
Nicaragua	5	2005	82%	66%	95%	59%	46%	71%	81%	64%	95%	41%	25%	63%	35%	21%	52%
Panama	3	2010	96%	94%	98%	82%	78%	85%	96%	94%	98%	79%	78%	80%	31%	10%	55%
Peru	23	2017	88%	62%	97%	76%	51%	85%	84%	59%	94%	81%	53%	95%	78%	43%	93%
El Salvador	3	2007	84%	76%	92%	74%	66%	84%	84%	76%	92%	65%	57%	80%	60%	50%	77%

Source: Data compiled and harmonized by the SALURBAL project.

More information on SALURBAL: <https://drexel.edu/lac/salurbal/overview/>

More information on SALURBAL data: <https://drexel.edu/lac/data-evidence/data/>

More information on data sources: <https://drexel.edu/lac/data-evidence/data-acknowledgements/>

More information on the data harmonization process: <https://pubmed.ncbi.nlm.nih.gov/30465261/>

WATER AND SANITATION IN *SUB-CITIES* OF LATIN AMERICA

	Number of sub-cities	Census year	Average level of piped water access			Lowest level of piped water access			Highest piped water access			Average level of access to water source inside the house			Lowest level of access to water inside house			Highest level of access to water inside house			Average proportion of people with connection to water network			Lowest proportion of people with connection to water network			Highest proportion of people with connection to water network			Average level of access to a sewage system			Lowest level of access to a sewage system			Highest access to a sewage system			Average level of access to a sewage network			Lowest level of access to a sewage network			Highest level of access to a sewage network		
			Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest	Average	Lowest	Highest												
All cities	1,436	2005-2018	93%	7%	100%	81%	3%	100%	88%	1%	100%	82%	1%	100%	63%	0%	100%	93%	7%	100%	81%	3%	100%	88%	1%	100%	82%	1%	100%	63%	0%	100%															
Argentina	110	2010	98%	92%	100%	90%	66%	100%	84%	11%	100%	81%	47%	100%	56%	0%	100%	98%	92%	100%	90%	66%	100%	84%	11%	100%	81%	47%	100%	56%	0%	100%															
Brazil	422	2010	97%	58%	100%	94%	56%	100%	85%	1%	100%	73%	1%	100%	55%	0%	100%	97%	58%	100%	94%	56%	100%	85%	1%	100%	73%	1%	100%	55%	0%	100%															
Chile	81	2017	ND	ND	ND	ND	ND	ND	97%	67%	100%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97%	67%	100%	ND	ND	ND	ND	ND	ND															
Colombia	84	2018	92%	12%	100%	ND	ND	ND	93%	15%	100%	96%	52%	100%	82%	1%	99%	92%	12%	100%	ND	ND	ND	93%	15%	100%	96%	52%	100%	82%	1%	99%															
Costa Rica	29	2011	99%	98%	100%	99%	98%	100%	98%	94%	100%	98%	96%	99%	23%	0%	82%	99%	98%	100%	99%	98%	100%	98%	94%	100%	98%	96%	99%	23%	0%	82%															
El Salvador	22	2007	83%	52%	99%	71%	35%	94%	83%	52%	99%	60%	10%	95%	56%	2%	93%	83%	52%	99%	71%	35%	94%	83%	52%	99%	60%	10%	95%	56%	2%	93%															
Guatemala	20	2018	87%	63%	98%	80%	55%	95%	85%	59%	98%	79%	34%	97%	70%	33%	94%	87%	63%	98%	80%	55%	95%	85%	59%	98%	79%	34%	97%	70%	33%	94%															
Mexico	406	2010	91%	14%	100%	68%	4%	99%	91%	14%	100%	92%	44%	100%	75%	0%	100%	91%	14%	100%	68%	4%	99%	91%	14%	100%	92%	44%	100%	75%	0%	100%															
Nicaragua	11	2005	83%	43%	97%	49%	30%	74%	81%	42%	97%	33%	10%	70%	18%	0%	62%	83%	43%	97%	49%	30%	74%	81%	42%	97%	33%	10%	70%	18%	0%	62%															
Panama	82	2010	94%	50%	100%	78%	39%	99%	94%	50%	100%	71%	32%	100%	33%	0%	100%	94%	50%	100%	78%	39%	99%	94%	50%	100%	71%	32%	100%	33%	0%	100%															
Peru	169	2017	87%	7%	100%	74%	3%	93%	83%	5%	100%	80%	7%	100%	76%	4%	100%	87%	7%	100%	74%	3%	93%	83%	5%	100%	80%	7%	100%	76%	4%	100%															

Source: Data compiled and harmonized by the SALURBAL project.

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More information on the included variables:

1. **Access to piped water from any source.** The proportion of households at the entire-city or sub-city level with access to piped water. Piped water may include water inside of the house, on the same property as the house, or outside the house and property as long as the water is piped. The water connection may also be exclusive or shared between households.
2. **Access to any water source inside of their house.** The proportion of households at the entire-city or sub-city level with access to any water source inside of the house or dwelling. This could be piped water, water from another type of aqueduct of any kind, or from a well located inside of their house.
3. **Access to water from a municipal public or private water network.** The proportion of households at the entire-city or sub-city level with access to water from a municipal or private water network. This would exclude water sourced from wells, rivers, or other bodies of naturally occurring water, or water delivery trucks.
4. **Connection to a sewage system.** The proportion of households at the entire-city or sub-city level with connection to a sewage system. A sewage system could be a municipal sewage system, a privately operated sewage system, or a septic tank located on or near the household's property. Pit latrines and disposal of waste in natural bodies of water or by some other method are not considered to be connections to a sewage system.
5. **Connection to a sewage network.** The proportion of households at the entire-city or sub-city level with a connection to a sewage network. This includes only households that are connected to a municipal sewage system or a privately operated sewage system and doesn't include households that are connected to a septic tank.

More information on the census data:

- Argentina census: Conducted in 2010 by the Instituto Nacional de Estadística y Censos (INDEC)
- Brazil census: Conducted in 2010 by the Instituto Brasileiro de Estatística y Geografía (IBGE)
- Chile census: Conducted in 2017 by the Instituto Nacional de Estadística (INE)
- Colombia census: Conducted in 2018 by the Departamento Administrativo Nacional de Estadística (DANE)
- Costa Rica census: Conducted in 2011 by the Instituto Nacional de Estadística y Censos (INEC)
- El Salvador census: Conducted in 2007 by the Dirección General de Estadística y Censos (DIGESTYC)
- Guatemala census: Conducted in 2018 by the Instituto Nacional de Estadística (INE)
- Mexico census: Conducted in 2010 by the Instituto Nacional de Estadística y Geografía (INEGI)
- Nicaragua census: Conducted in 2005 by the Instituto Nacional de Estadística y Censos (INIDE)
- Panama census: Conducted in 2010 by the Instituto Nacional de Estadística y Censo (INEC)
- Peru census: Conducted in 2017 by the Instituto Nacional de Estadística e Informática (INEI)

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