



Market Profile: Water Tariff Survey

The 2005 GWI Water Tariff Survey

Water and wastewater tariffs for 150 significant cities around the world.

The full listing of the 2005 GWI Water Tariff Survey is below. Commentary on the survey can be found on p9. The survey includes 150 cities with a population of over 700 million. The first column gives the water tariff. The benchmark for this is the volumetric price of water including sales tax for a domestic consumer using 15m³ per month supplied through a 5/8 inch pipe with any fixed charges added to the volumetric rate on a pro-rata basis.

Most water utilities have progressive tariff structures with lower rates for customers who use less water, and penal rates for those who use more water. The wastewater tariff is calculated on the same basis. In some cases, water and wastewater are not charged for

separately or are difficult to separate.

For these cities only the combined charge has been recorded. There are also some cities for which it has been difficult to obtain wastewater data, and it has therefore been omitted. The listing is in order of the highest to lowest water tariff. The final column shows the average expenditure on water per head as a percentage of GDP per head. It is calculated by taking the benchmark tariff and multiplying it by the average domestic consumption per head for the relevant country from Aquastat (*see www.fao.org/ag/agl/aglw/aquastat/main/*) to get a figure for the average expenditure on water per head per year, then to divide this by the GDP per head.

City	Country	Domestic drinking water tariff in US\$ per m ³	Domestic wastewater tariff in US\$ per m ³	Total domestic tariff in US\$ per m ³	Average annual expenditure on water as % of GDP per head
Curacao**	Netherland Antilles	6.11	–	6.11	–
Cayman Islands	Cayman Islands	4.89	5.00	9.89	–
US Virgin Islands**	US Virgin Islands	4.86	–	4.86	–
Tokyo	Japan	2.86	0.20	3.06	1.10%
Copenhagen	Denmark	2.84	2.39	5.22	0.48%
Zurich*	Switzerland	2.59	–	2.59	0.46%
Berlin	Germany	2.56	2.56	5.11	0.53%
Lyon	France	2.23	1.0	3.23	0.73%
Brussels	Belgium	2.20	0.37	2.57	0.26%
Nagoya	Japan	2.19	0.66	2.85	0.84%
Manchester	UK	2.00	2.05	4.05	0.20%
Birmingham	UK	1.96	1.25	3.21	0.20%
Amsterdam	Netherlands	1.85	1.63	3.48	0.95%
London	UK	1.80	1.05	2.86	0.18%
Luxembourg	Luxembourg	1.75	1.11	2.86	0.14%
San Diego	US	1.74	2.00	3.74	0.97%
Palma-de-Mallorca	Spain	1.72	1.28	3.00	0.79%
Rotterdam	Netherlands	1.65	1.63	3.28	0.85%
Marseille	France	1.61	1.50	3.11	0.53%
Munich	Germany	1.60	1.93	3.53	0.33%
Paris	France	1.53	1.37	2.90	0.50%
Vienna	Austria	1.59	2.88	4.47	0.41%
Glasgow	UK	1.45	1.63	3.07	0.15%
Oslo	Norway	1.42	1.74	3.16	0.29%
Chicago	US	1.36	0.76	2.12	0.75%
Seattle	US	1.35	2.32	3.67	0.75%
Los Angeles	US	1.29	0.94	2.23	0.72%
Helsinki	Finland	1.27	1.91	3.19	0.24%
Barcelona	Spain	1.24	0.74	1.98	0.57%
Montreal*	Canada	1.23	–	1.23	1.23%
Rome	Italy	1.23	0.00	1.23	0.59%
Doha*	Qatar	1.20	–	1.20	0.00%

(* = water and wastewater tariff combined, ** = water only)

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City	Country	Domestic drinking water tariff in US\$ per m ³	Domestic wastewater tariff in US\$ per m ³	Total domestic tariff in US\$ per m ³	Average annual expenditure on water as % of GDP per head
Brisbane	Australia	1.13	1.50	2.62	0.67%
Sydney	Australia	1.08	2.31	3.39	0.65%
Ramallah	Palestine	1.04	0.27	1.31	0.00%
Boston	US	1.03	0.18	1.21	0.57%
Casablanca °	Morocco	1.03	–	1.03	2.36%
Belo Horizonte	Brazil	1.03	1.03	2.05	2.18%
Istanbul°	Turkey	1.00	–	1.00	0.00%
Philadelphia	US	0.97	1.57	2.54	0.54%
Prague	Czech Republic	0.96	0.84	1.80	0.94%
Tallinn	Estonia	0.92	0.75	1.67	0.76%
Phoenix	US	0.91	0.72	1.63	0.51%
San Francisco	US	0.91	2.25	3.16	0.51%
New York City	US	0.90	0.90	1.80	0.50%
Jerusalem	Israel	0.89	0.52	1.41	0.50%
Tel Aviv	Israel	0.89	0.52	1.41	0.50%
Denver	US	0.88	1.30	2.18	0.49%
Madrid	Spain	0.88	0.53	1.41	0.40%
Melbourne	Australia	0.87	1.33	2.20	0.52%
Cairo°	Egypt	0.87	–	0.87	7.24%
Washington DC	US	0.77	1.39	2.16	0.43%
Budapest	Hungary	0.77	0.95	1.72	0.53%
Vilnius	Lithuania	0.72	1.46	2.17	0.68%
Warsaw	Poland	0.66	0.66	1.32	0.58%
Lisbon	Portugal	0.64	0.57	1.21	0.45%
Detroit	US	0.63	1.17	1.80	0.35%
Cape Town	South Africa	0.61	0.72	1.33	0.75%
Fortaleza	Brazil	0.60	0.60	1.20	1.27%
Jakarta°	Indonesia	0.60	–	0.60	1.76%
Gothenburg	Sweden	0.59	0.67	1.25	0.19%
Zagreb	Croatia	0.55	0.63	1.18	0.00%
Milan	Italy	0.55	0.51	1.06	0.27%
Hong Kong	China	0.53	0.15	0.68	1.46%
Brasilia	Brazil	0.52	0.52	1.05	1.11%
Bamako°	Mali	0.51	–	0.51	8.94%
Santiago de Chile	Chile	0.50	0.44	0.94	0.77%
Río de Janeiro	Brazil	0.50	0.50	1.01	1.07%
Stockholm	Sweden	0.49	0.65	1.14	0.16%
Riga	Latvia	0.45	0.29	0.74	0.52%
Kathmandu	Nepal	0.44	0.22	0.65	2.36%
Montevideo	Uruguay	0.42	0.34	0.75	0.21%
Seoul	South Korea	0.40	0.11	0.51	0.99%
Bucharest	Romania	0.39	0.20	0.59	1.10%
Bratislava	Slovakia	0.37	0.24	0.61	0.20%
Lagos	Nigeria	0.37	1.27	1.64	0.96%
Lima°	Peru	0.36	–	0.36	0.90%
Sofia	Bulgaria	0.35	0.19	0.54	0.42%
Beijing	China	0.35	0.11	0.46	0.95%
Gaberone	Botswana	0.35	0.37	0.72	0.20%
Venice	Italy	0.34	0.56	0.90	0.16%
Kinshasa°	Congo	0.33	–	0.33	18.03%
Athens	Greece	0.32	0.49	0.81	0.19%
San José	Costa Rica	0.32	0.32	0.64	1.36%
Belgrade	Serbia	0.32	0.08	0.40	0.94%
Buenos Aires	Argentina	0.30	0.21	0.51	0.98%
Taipei	Taiwan	0.30	0.12	0.42	0.00%
Johannesburg°	South Africa	0.29	–	0.29	0.36%
Tianjin	China	0.28	0.07	0.36	0.78%
Quito°	Ecuador	0.27	–	0.27	1.95%

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Guayaquil	Ecuador	0.27	0.21	0.48	1.94%
Asunción	Paraguay	0.26	0.13	0.40	0.42%
São Paulo	Brazil	0.26	0.26	0.51	0.54%
Chongqing	China	0.25	0.07	0.33	0.70%
Beirut	Lebanon	0.25	–	0.25	0.00%
Nairobi	Kenya	0.24	0.26	0.50	0.81%
Saratov	Russia	0.23	0.10	0.33	0.57%
Manila	Philippines	0.22	0.11	0.33	1.44%
Addis Ababa°	Ethiopia	0.22	–	0.22	5.31%
Moscow	Russia	0.22	0.19	0.41	0.54%
Yekaterinbourg	Russia	0.22	0.10	0.32	0.54%
Karachi	Pakistan	0.22	0.07	0.29	0.87%
Algiers°	Algeria	0.21	–	0.21	0.36%
Ulan Bator	Outer Mongolia	0.21	0.12	0.34	1.39%
Caracas°	Venezuela	0.21	–	0.21	0.76%
Rabat°	Morocco	0.21	–	0.21	0.48%
St Petersburg	Russia	0.21	0.21	0.42	0.52%
Chisinau°	Moldova	0.21	–	0.21	1.74%
Bogota	Colombia	0.21	0.11	0.32	1.15%
Yerevan	Armenia	0.20	0.08	0.28	4.90%
Kharkiv	Ukraine	0.19	0.05	0.25	1.26%
Volgograd	Russia	0.19	0.02	0.21	0.47%
Rostov-on-Don	Russia	0.18	1.03	1.21	0.44%
Hanoi°	Vietnam	0.16	–	0.16	2.12%
Salvador	Brazil	0.15	0.44	0.59	0.32%
Antananarivo°	Madagascar	0.15	–	0.15	27.84%
Krasnoyarsk	Russia	0.14	0.13	0.28	0.36%
Hangzhou	China	0.14	0.07	0.22	0.39%
Amman	Jordan	0.14	0.04	0.18	0.00%
Mumbai	India	0.13	0.19	0.32	1.03%
Odessa	Ukraine	0.13	0.10	0.23	0.86%
Shanghai	China	0.13	0.11	0.24	0.35%
Novosibirsk	Russia	0.12	0.08	0.20	0.30%
Manila Water Company	Philippines	0.12	0.06	0.18	0.77%
Guangzhou	China	0.11	0.09	0.20	0.31%
Ufa	Russia	0.11	0.05	0.16	0.27%
Ho Chi Minh City°	Vietnam	0.11	–	0.11	1.44%
Kiev	Ukraine	0.10	0.06	0.16	0.68%
Astana	Kazakhstan	0.10	–	0.10	0.17%
Córdoba	Argentina	0.10	0.10	0.19	0.32%
Tbilisi	Georgia	0.09	0.05	0.14	1.16%
Almaty	Kazakhstan	0.09	0.07	0.16	0.14%
Santa Fe	Argentina	0.08	0.08	0.16	0.27%
Baku	Azerbaijan	0.08	1.05	1.13	0.78%
Manama°	Bahrain	0.07	–	0.07	0.00%
Kolkata°	India	0.07	–	0.07	0.55%
Damascus	Syria	0.07	0.01	0.08	0.20%
Minsk	Ukraine	0.06	0.05	0.11	0.40%
Tehran°	Iran	0.05	–	0.05	0.16%
Tegucigalpa	Honduras	0.05	0.01	0.06	0.05%
Omsk	Russia	0.03	0.03	0.06	0.07%
Riyadh°	Saudi Arabia	0.03	–	0.03	0.04%
Colombo°	Sri Lanka	0.02	–	0.02	0.03%
Tashkent	Uzbekistan	0.02	0.01	0.04	0.59%
New Delhi	India	0.02	0.01	0.03	0.16%
Havana°	Cuba	0.01	–	0.01	–
Baghdad°	Iraq	0.01	–	0.01	0.17%
Dublin	Ireland	–	–	–	0.00%
Ashgabat	Turkmenistan	–	–	–	0.00%