

ENVIRONMENTAL INDICATORS and SELECTED TIME SERIES

Municipal waste collection in selected city

last update: June 2007

Country	City	latest year available	Total population of the city 1000 inh.	Municipal waste collected 1000 tonnes	Population served by municipal waste collection %	Municipal waste collected per capita served kg/person
Argentina	Buenos Aires	2001	2722.0	...	99.3	...
Armenia	Yerevan	2004	1102.9	206.7	...	...
Armenia	Vanadzor	2004	105.7	5.2	...	...
Armenia	Gyumri	2004	148.9	2.0	...	...
Bangladesh	Dhaka	2005	...	1284.0	45.0	...
Belarus	Minsk	2004	1753.6	827.0	100.0	471.6
Belize	Belize City	2000	54.1	29.8	100.0	550.8
Benin	Parakou	2002	148.5	3.2	10.0 ¹	...
Bolivia	La Paz	2005	834.8	157.5	90.0	209.7
Bolivia	Sucre	2001	215.8	30.9 ²	...	...
Bolivia	Cochabamba	2005	578.2	115.3	...	...
Bolivia	Santa Cruz	2005	1344.6	310.4	...	...
Bolivia	Oruro	2005	216.5	34.8	90.0	178.5
Bolivia	Potosi	2005	147.7	19.0	...	...
Bolivia	Tarija	2005	165.1	27.0	97.0	168.4
Bolivia	Trinidad	2005	84.8	17.6	...	...
Brazil	Porto Alegre	2000	1361.0	405.1	98.0	303.8
Brazil	Rio de Janeiro	2005	6094.0	2454.0	98.0 ¹	...
Brazil	São Paulo	2000	10434.0	7612.4	98.0	744.5
Burkina Faso	Ouagadougou	2002	876.2	127.7	50.5 ^{3,4}	...
China, Hong Kong SAR	Hong Kong	2005	6936.0	6013.0	100.0	866.9
China, Macao SAR	Macao	2005	488.1	185.1 ⁵	100.0	333.3
Croatia	Zagreb	2004	779.1	288.7	100.0	370.5
Croatia	Split	2003	188.7 ⁶	107.2	...	...
Croatia	Rijeka	2003	144.0 ⁶	40.5	...	...
Cuba	Havana	2005	2181.3	1877.0	100.0	860.5
Cuba	Camagüey (Province)	2005	786.0	252.7	100.0	321.5
Dominica	Roseau	2005	14.5 ⁶	23.0 ²	100.0	...
Dominican Republic	Distrito Nacional (Capital de la República)	2005	913.5 ²	532.3	90.0 ²	...
Dominican Republic	Santo Domingo Este	2005	787.1 ²	236.4	56.0 ^{2,7}	...
Egypt	Cairo	2003	7765.0	3869.0 ^{2,8}	...	...
Ethiopia	Addis Ababa	2005	2887.0	...	...	...
Gambia	Banjul	2002	40.7	6.0	...	...
Georgia	Tbilisi	...	...	0.0	0.0	...
Guatemala	Depto. Guatemala	2002	2541.6	463.8 ⁹	75.0	182.5
Guatemala	Quetzaltenango	2002	624.7	114.0 ⁹	75.0	182.5
Guatemala	Huehuetenango	2002	846.5	154.5 ⁹	75.0	182.5

Guatemala	Alta Verapaz	2002	776.2	141.7 ⁹	75.0	182.5
Guinea	Conakry	2005	2400.0 ^{10,11}	175.0	75.0 ¹²	97.2
India	Ahmadabad	2000	2876.7	...	...	...
India	Bangalore	2000	4130.3	...	...	...
Indonesia	Jakarta	2005	8699.0	2397.0	83.2 ^{13,14}	...
Israel	Tel-aviv	2002	359.0	375.6	...	...
Jamaica	Kingston	2001	579.0	...	...	...
Jamaica	Montego Bay		...	...	70.0	...
Madagascar	Antananarivo	2004	903.5 ⁶	255.5	...	...
Madagascar	Fianarantsoa	2004	154.1 ¹⁵	8.0	...	...
Madagascar	Mahajanga	2004	235.0 ¹⁵	27.4	...	...
Madagascar	Toamasina	2004	207.3 ¹⁵	18.3	...	...
Monaco	Monaco	2002	32.0	40.2	100.0	1256.8
Morocco	Rabat	2003	695.0	...	100.0	319.4
Niger	Niamey	2005	652401.0	...	60.0	427.9
Nigeria	Abuja		...	22335.6	...	...
Panama	Panama	2005	813.1	172.5	...	...
Paraguay	Asunción	2002	512.1	...	86.9	...
Paraguay	Ciudad del Este	2002	219.4	...	49.7	...
Paraguay	Capiatá	2002	151.9	...	39.4	...
Paraguay	San Lorenzo	2002	201.7	...	64.4	...
Paraguay	Luque	2002	167.8	...	60.2	...
Peru	La provincia de Lima	1999	6613.9	...	...	...
St. Vincent and the Grenadines	Kingstown	2002	26.9	...	100.0	...
Syrian Arab Republic	Damascus	2002	3000.0	438.0	...	...
Trinidad and Tobago	Port of Spain	2000	38.0	...	...	...
Tunisia	Tunis	2004	2247.8 ¹⁶	628.0 ^{6,17}	...	...
Yemen	Sana'a	2005	1844.6	...	100.0	...
Yemen	Aden	2005	612.8	...	100.0	...
Zambia	Lusaka	2005	1300.0 ¹⁸	77.0 ¹⁹	18.0	329.1
Zimbabwe	Gweru		...	64.1	99.0	...
Zimbabwe	Harare	2005	1963.8	75.0	...	...

Sources:

UNSD/UNEP 2001, 2004 and 2006 questionnaires on Environment statistics, Waste section

Footnotes:

- 1 2000 data.
- 2 2002 data.
- 3 The value of 50.5 % was obtained by deducting 49.5 % of households in the city of Ouagadougou that utilize uncontrolled landfills for waste disposal.
- 4 1995 data.
- 5 Data only refer to waste collected from households and sea by a licensed company.
- 6 2001 data.
- 7 Estimated numbers.
- 8 Converted by UNSD from 10600 tons per day to 1000t per year [(10600 tons per day x 365 days per year) / 1000].
- 9 According to the OPS, in average, it generates 0.5Kg/habitant/day.
- 10 The number 2,000,000 is used in order to have a round figure and not by a real estimation.
- 11 Refers to an estimated value of the population of Conakry based on the recent census.
- 12 In reality the value corresponds to the percentage of the districts served and not to the population served.
- 13 Data refer to urban population only.

14 2004 data.

15 Projection of the population of the city in 2004.

16 The statistics in this table originate from the population of 4 governorates (Tunis, Ariana, Benarous and Manouba) of Greater Tunis.

17 It refers to the waste of Greater Tunis (which includes the 4 governorates Tunis, Ariana, Benarous and Manouba). The quantities are only related to those discharged in the controlled landfill of Jabal Chekir.

18 Estimate based on the annual growth rate of 3.6%.

19 75% of waste collected is from households; ECZ long term average estimates.

Definitions & Technical notes:

Municipal waste includes household waste and similar waste. The definition also includes bulky waste (e.g. white goods, old furniture, mattresses) and yard waste, leaves, grass clippings, street sweepings, the content of litter containers, and market cleansing waste, if managed as waste. It includes waste originating from: households, commerce and trade, small businesses, office buildings and institutions (schools, hospitals, government buildings). It also includes waste from selected municipal services, e.g. waste from park and garden maintenance, waste from street cleaning services (street sweepings, the content of litter containers, market cleansing waste), if managed as waste. The definition excludes waste from municipal sewage network and treatment, municipal construction and demolition waste.

Municipal waste collected refers to waste collected by or on behalf of municipalities, as well as municipal waste collected by the private sector. It includes mixed household waste, and fractions collected separately for recovery operations (through door-to-door collection and/or through voluntary deposits). In the absence of data for municipal waste collected, data for municipal waste generated is given, if available.

Municipal waste collected per capita served is calculated by dividing the Municipal waste collected by the number of people served by the waste collection system.

Percentage of total population served by municipal waste collection refers to the percentage proportion of the total population covered by regular municipal waste removal service in relation to the total population of the country.