

ENVIRONMENTAL INDICATORS and SELECTED TIME SERIES

Percentage of population connected to urban wastewater treatment

last update: June 2007

	1990	1995	2000	2001	2002	2003	2004	2005
	%	%	%	%	%	%	%	%
Algeria	7.2	...	...	...	...	...	...	...
Andorra	...	...	3.6	3.5	17.1	19.6	31.1	47.7
Argentina	...	...	...	42.5	...	...	...	...
Austria	72.0	74.9	85.4	86.0	86.0	...	...	...
Azerbaijan	...	...	...	...	...	30.0	30.0	30.0
Belgium	...	28.9	...	...	45.9	...	...	...
Belize	...	...	15.1	...	...	...	...	...
Bermuda	...	...	...	...	...	...	...	5.0
British Virgin Islands	...	...	...	24.5	...	...	...	...
Bulgaria	...	35.4	36.5	38.1	...	...	...	...
Canada	62.4 ¹	...	71.5 ^{2,3}	...	...	...	...	...
Chile	...	14.0 ⁴	20.9 ⁴	39.4 ⁴	42.2 ⁴	65.7 ⁴	71.5 ⁴	73.3 ⁴
China	...	...	...	20.8	24.3	27.5	32.5	...
China, Hong Kong SAR	...	...	92.7	94.8	94.2	94.6	92.3	92.9
Costa Rica	...	...	2.4	...	...	...	...	...
Cyprus	...	...	34.5	...	...	...	...	...
Czech Republic	50.3	56.0	64.0	65.1	...	...	71.1	...
Denmark	85.4	87.0	...	...	87.9	...	...	...
Dominica	...	...	...	...	...	...	...	13.0
Dominican Republic	...	...	...	...	...	...	...	12.0 ⁵
Estonia	68.0	72.0	69.0	...	...	...	...	...
Finland	76.0	77.0	80.0	81.0	81.0	...	...	...
France	69.0	77.0	...	79.4	...	...	...	...
French Guiana	...	...	...	27.4	...	...	...	...
Germany	...	88.3	...	...	...	...	93.5	...
Greece	...	54.6	56.2 ⁶	...	...	...	...	...
Guadeloupe	...	...	...	40.5	...	...	...	...
Hungary	20.4	20.5	32.2	...	57.4	...	...	...
Iceland	2.0	4.0	33.0	33.0	...	50.0	...	...
Indonesia	...	...	...	...	...	...	2.5 ⁷	2.8 ⁷
Ireland	44.0	57.6	73.0	70.0 ⁸	...	...	...	...
Italy	60.7	63.0	68.6 ²	...	...	...	...	...
Japan	44.0	54.0	...	64.0	...	67.0	...	...
Korea, Republic of	...	...	69.9	...	...	78.8 ⁹	...	...
Luxembourg	90.4	87.5	...	...	...	94.8	...	...
Madagascar	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰	0.0 ¹⁰
Malta	13.0	13.0	13.0	13.0	...	...	...	...
Martinique	...	...	...	44.2	...	...	...	...
Mauritius	10.0	10.0	20.0	20.0	20.0	22.0	23.0	23.0
Mexico	...	...	25.1	...	...	...	...	35.0 ^{11,12}
Monaco	100.0	100.0	100.0	100.0	100.0	...	...	...
Netherlands	94.0	96.6	98.1	...	...	...	98.6	...
New Zealand	...	...	80.0 ²	...	...	...	...	...
Norway	57.0	67.0	73.0	...	...	...	75.9	...

Panama	...	...	30.0	31.0	33.0	34.0	36.0	37.0
Poland	...	41.5	53.1	54.7	...	...	59.0 ¹³	...
Portugal	20.9	...	...	...	...	60.0 ¹⁴	...	...
Republic of Moldova	...	...	54.0	57.0	59.0	57.0	60.0	...
Réunion	...	...	...	33.3	...	...	...	...
Singapore	97.5	99.0	99.0	99.0	99.0	99.9	99.9	99.9
Slovakia	...	...	...	...	...	52.3	...	...
Slovenia	...	...	30.0 ²	...	...	...	...	...
Spain	48.0	48.3	...	...	55.0 ¹⁵	...	...	...
Sweden	94.0	93.0	86.0	...	85.0	...	...	...
Switzerland	90.0	94.0	96.0	...	...	...	96.7	...
The Former Yugoslav Rep. of Macedonia	5.0	5.0	5.0	...	...	...	...	...
Trinidad and Tobago	...	...	...	20.0	20.0	20.0	30.0	20.0
Tunisia	9.1	20.0	36.7	38.7	41.9	44.9	46.8	...
Turkey	...	8.9	...	...	...	...	35.0 ¹⁶	...
United Kingdom	...	...	...	...	97.5 ¹⁷	...	...	...

Sources:

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

OECD/Eurostat 2004 questionnaire on Environment statistics, Water section

OECD Environmental Data, Compendium 2006, Inland Waters section

Footnotes:

1 1991 data.

2 1999 data.

3 OECD secretariat estimates based on MUD Municipal Waste Water Database.

4 Information provided by the sanitary industry that operates in urban sectors to the Supervision of Sanitation Services respect to the percentage of connected residential buildings to the sewage system whose collected water receive treatment.

5 It corresponds to the city of Santo Domingo and represents 350,063 inhabitants.

6 1997 data.

7 Data for Jakarta City only.

8 Data refers to agglomerations greater than or equal to 500 population equivalent.

9 Population connected may include population not connected by pipe.

10 No urban wastewater treatment plant.

11 Percentages based on population living in individual housing.

12 Estimates based on treated waste water.

13 Include population not connected by pipe (whose waste water are collected in septic tanks and delivered to urban waste water treatment plants by truck).

14 Public treatment: includes septic tanks (5% in 1998).

15 OECD secretariat estimates.

16 Data based on a sample survey covering 1911 municipalities.

17 Data refer to England and Wales and to the financial year (April to March).

Definitions & Technical notes:

Waste water refers to water that is discharged as being of no further immediate value for the purpose for which it was used.

Public waste water treatment plants refer to municipal treatment plants operated by official authorities or by private companies whose main activity is waste water treatment on behalf of local authorities. The treatment applied can be :

- mechanical, i.e. separates sludge through processes such as sedimentation, flotation, etc.

- biological, i.e. employs aerobic or anaerobic micro-organisms to separate sludges containing microbial mass together with pollutants.

- advanced, i.e. all treatments that are not considered mechanical or biological, particularly chemical treatments.

Population connected to waste water treatment is the percentage of the resident population whose waste water is treated at public waste water treatment plants.