

## ENVIRONMENTAL INDICATORS and SELECTED TIME SERIES

**Freshwater abstractions by source: Year 1990**

*last update:*

June 2007

	<b>Total abstractions (1) = (2) + (3)</b>	<b>Surface water (2)</b>	<b>Groundwater (3)</b>
	<i>mio m<sup>3</sup></i>	<i>mio m<sup>3</sup></i>	<i>mio m<sup>3</sup></i>
Armenia	3 942	2 690	1 252
Austria	3 807 <sup>1</sup>	2 561 <sup>2</sup>	1 246
Azerbaijan	15 463	13 757	1 706
Bahamas	5	0	5
Barbados	61	0	61
Belarus	3 035	1 825	1 210
Bulgaria	10 218	8 497	1 720
Canada	45 096 <sup>3</sup>	44 059 <sup>3</sup>	1 037 <sup>3</sup>
China, Hong Kong SAR	221	221	0
China, Macao SAR	3	...	...
Cote d'Ivoire	1 262 <sup>3</sup>	1 100 <sup>3</sup>	162 <sup>3</sup>
Cuba	6 962	4 114	2 848
Czech Republic	3 623	2 787	836
Denmark	1 261	...	1 261
Dominica	...	...	0
Egypt	...	54 733 <sup>4</sup>	...
Estonia	3 215	2 720	495
Ethiopia	50 <sup>5</sup>	50	...
Finland	2 347 <sup>1</sup>	2 107	240
France	37 687	31 486	6 201
Georgia	3 858	2 819	1 039
Germany	47 873 <sup>3</sup>	...	...
Greece	7 835 <sup>6</sup>	5 827 <sup>6</sup>	2 009 <sup>6</sup>
Hungary	6 293	5 266	1 026
Iceland	167 <sup>7</sup>	7 <sup>8</sup>	160 <sup>8</sup>
Israel	1 765	654	1 111
Japan	88 889	76 624	12 265
Jordan	865 <sup>9</sup>	355 <sup>9</sup>	510 <sup>9</sup>
Kazakhstan	...	32 173	...
Korea, Republic of	20 570	19 100	1 470
Kyrgyzstan	11 122	10 032	1 090
Lithuania	4 311	3 813	498
Luxembourg	59 <sup>10</sup>	32 <sup>10</sup>	27 <sup>10</sup>
Malta	21	0	21
Mauritius	621	523	98

Mexico	...	...	24 453
Montenegro	3 351 <sup>11</sup>	2 969 <sup>11</sup>	382 <sup>11</sup>
Monaco	1	0	1
Netherlands	7 984 <sup>3</sup>	6 804 <sup>3</sup>	1 180 <sup>3</sup>
Oman	940	41	899
Panama	315	139	177
Peru	545 <sup>12</sup>	330 <sup>12</sup>	215 <sup>12,13</sup>
Philippines	123 327	122 061	1 266
Poland	15 164 <sup>14</sup>	11 928	3 237
Portugal	7 288 <sup>15</sup>	4 223 <sup>15</sup>	3 065 <sup>15</sup>
Republic of Moldova	3 918	3 607	311
Romania	17 510	14 670	2 840
Serbia	3 351 <sup>11</sup>	2 969 <sup>11</sup>	382 <sup>11</sup>
Slovakia	2 116	1 388	728
Slovenia	444	279	165
Spain	36 900 <sup>3</sup>	31 400 <sup>3</sup>	5 500 <sup>3</sup>
St. Vincent and the Grenadines	7 <sup>5</sup>	7	...
Sweden	2 968	2 360	608
Switzerland	2 665 <sup>16</sup>	1 724	941
The Former Yugoslav Rep. of Macedonia	302	208	94
Tunisia	1 198	186	1 012
Turkey	28 073	24 303	3 770
Ukraine	34 494	29 294	5 200
United Kingdom	12 052 <sup>17</sup>	9 344 <sup>17</sup>	2 709 <sup>17</sup>
United States	468 620	358 790	109 830

*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 Partial total.
- 2 Excludes agriculture.
- 3 1991 data.
- 4 Data refer to withdrawal from Aswan Dam.
- 5 Data refer to Fresh surface water.
- 6 Partial totals: Agriculture (only irrigation) + production of electricity.
- 7 Totals include the domestic use of geothermal water.
- 8 1992 data.
- 9 Data refer to Abstraction by Public supply, Agriculture, Mining and quarrying.
- 10 1989 data.
- 11 Data refer to Serbia and Montenegro.
- 12 The information corresponds to the province of Lima and the Constitutional province of Callao.
- 13 It does not include private wells.

14 Totals include mining and construction water discharged without use.

15 Estimate, equals year - 1.

16 Partial totals excluding all agricultural uses.

17 England and Wales only.

### **Definitions & Technical notes:**

**Total freshwater abstractions** is water removed from any source, either permanently or temporarily. Includes abstraction by the water supply industry (ISIC 41) and direct abstraction by other activities, and water abstracted but returned without use, such as mine water and drainage water.

**Fresh surface water** refers to freshwater which flows over, or rests on, the surface of a land mass; natural watercourses such as rivers, streams, brooks, lakes, etc., as well as artificial watercourses such as irrigation, industrial and navigation canals, drainage systems and artificial reservoirs. Sea-water, and transitional waters, such as brackish swamps, lagoons and estuarine areas are not considered fresh surface water.

**Fresh groundwater** refers to freshwater which is being held in, and can usually be recovered from, or via, an underground formation. All permanent and temporary deposits of water, both artificially charged and naturally, in the subsoil, of sufficient quality for at least seasonal use. This category includes phreatic water-bearing strata, as well as deep strata under pressure or not, contained in porous or fracture soils.