

TABLE 4 (from report 'Irrigation water requirement and water withdrawal by country', November 2012)
Water requirement ratio and comparison with water resources by country (165 countries and 2 territories in this review) *

Country	Total actual renewable freshwater resources (km ³ /yr) [†]	Year	Irrigation water requirement (km ³ /yr)	Water requirement ratio (%)	Irrigation water withdrawal (km ³ /yr)	Pressure on freshwater resources due to irrigation (%)
Afghanistan	65.000	2002	10.901	55	20.000	30.77
Albania	41.700	2000	0.322	62	0.518	1.24
Algeria	11.670	2001	2.511	72	3.502	30.01
Angola	148.000	2005	0.040	27	0.147	0.10
Antigua and Barbuda	0.052	1997	0.000	25	0.001	2.52
Argentina	814.000	2011	12.229	44	27.930	3.43
Armenia	7.769	2006	0.624	34	1.859	23.93
Australia	492.000	2006	3.892	59	6.596	1.34
Austria	77.700	2007	0.060	60	0.100	0.13
Azerbaijan	34.680	2003	3.620	39	9.330	26.90
Bahrain	0.116	2001	0.040	25	0.159	137.24
Bangladesh	1 227.000	2008	24.562	78	31.500	2.57
Barbados	0.080	1989	0.014	25	0.055	68.44
Belarus	58.000	2003	0.043	38	0.114	0.20
Belgium	18.300	2007	0.022	60	0.037	0.20
Belize	18.550	1997	0.024	23	0.102	0.55
Benin	26.390	2008	0.011	24	0.045	0.17
Bhutan	78.000	2007	0.104	33	0.318	0.41
Bolivia (Plurinational State of)	622.500	1999	0.688	39	1.777	0.29
Botswana	12.240	2002	0.010	34	0.029	0.24
Brazil	8 233.000	2006	15.296	48	31.700	0.39
Brunei Darussalam	8.500	1995	0.003	51	0.005	0.06
Bulgaria	21.300	2007	0.217	31	0.710	3.33
Burkina Faso	12.500	2001	0.129	31	0.421	3.37
Burundi	12.540	2000	0.028	44	0.065	0.52
Cambodia	476.100	2006	0.919	48	1.928	0.40
Cameroon	285.500	2000	0.201	27	0.737	0.26
Canada	2 902.000	2010	2.544	54	4.749	0.16
Cape Verde	0.300	1997	0.008	31	0.025	8.32
Central African Republic	144.400	1987	0.000	27	0.000	0.00
Chad	43.000	2002	0.206	31	0.672	1.56
Chile	922.000	2007	5.038	22	22.886	2.48
China	2 840.000	2006	256.872	72	358.000	12.61
Colombia	2 132.000	2011	2.273	39	5.867	0.28
Congo	832.000	1993	0.001	27	0.004	0.00
Costa Rica	112.400	1997	0.579	18	3.200	2.85
Côte d'Ivoire	81.140	1994	0.143	24	0.595	0.73
Cuba	38.120	1997	0.685	28	2.476	6.50
Cyprus	0.780	2007	0.092	62	0.148	18.97
Czech Republic	13.150	2007	0.003	32	0.009	0.07
Democratic People's Republic of Korea	77.150	1995	3.016	70	4.308	5.58
Democratic Republic of the Congo	1 283.000	1995	0.020	27	0.072	0.01
Denmark	6.000	2007	0.051	60	0.085	1.42
Djibouti	0.300	1999	0.001	31	0.003	0.83
Dominican Republic	21.000	2009	1.136	29	3.949	18.80
Ecuador	424.400	2000	3.129	39	8.077	1.90
Egypt	57.300	2002	45.111	76	59.000	102.97
El Salvador	25.230	1997	0.274	23	1.176	4.66
Eritrea	6.300	1993	0.043	41	0.104	1.66
Estonia	12.810	2010	0.000	70	0.000	0.00
Ethiopia	122.000	2001	1.475	28	5.204	4.27
Finland	110.000	2010	0.028	70	0.040	0.04
France	211.000	2007	2.351	60	3.923	1.86
Gabon	164.000	1987	0.011	27	0.040	0.02
Gambia	8.000	1999	0.012	31	0.039	0.49

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Georgia	63.330	2007	0.248	29	0.867	1.37
Germany	154.000	2006	0.048	60	0.080	0.05
Ghana	53.200	2000	0.162	25	0.652	1.23
Greece	74.250	2007	5.441	64	8.458	11.39
Grenada	-	1997	0.001	25	0.002	-
Guatemala	111.300	2003	0.439	23	1.886	1.69
Guinea	226.000	2001	0.070	24	0.293	0.13
Guinea-Bissau	31.000	1996	0.026	18	0.144	0.46
Guyana	241.000	1991	0.528	39	1.362	0.57
Haiti	14.030	1991	0.348	29	1.209	8.62
Honduras	95.930	2007	0.298	23	1.280	1.33
Hungary	104.000	2007	0.025	63	0.040	0.04
India	1 911.000	2006	370.843	54	688.000	36.00
Indonesia	2 019.000	2005	47.417	51	92.760	4.59
Iran (Islamic Republic of)	137.500	2006	49.185	57	86.000	62.55
Iraq	75.610	1990	15.023	29	52.000	68.77
Ireland	52.000	1998	0.002	60	0.003	0.01
Israel	1.780	2004	0.556	49	1.129	63.43
Italy	191.300	2007	8.022	62	12.895	6.74
Jamaica	9.404	2009	0.129	29	0.448	4.77
Japan	430.000	2006	38.321	70	54.731	12.73
Jordan	0.937	2004	0.301	49	0.611	65.23
Kazakhstan	109.600	2010	6.448	46	14.002	12.78
Kenya	30.700	2003	0.486	22	2.165	7.05
Kuwait	0.020	2006	0.119	24	0.492	2459.50
Kyrgyzstan	48.950	2005	2.918	39	7.447	15.21
Lao People's Democratic Republic	333.500	2005	1.521	48	3.193	0.96
Latvia	35.450	2007	0.036	70	0.051	0.14
Lebanon	4.503	1998	0.529	68	0.780	17.32
Lesotho	5.230	1999	0.001	27	0.004	0.07
Liberia	232.000	1987	0.003	24	0.012	0.01
Libya	0.700	2000	1.833	51	3.584	512.00
Lithuania	24.900	2007	0.001	70	0.002	0.01
Madagascar	337.000	2000	4.398	27	16.120	4.78
Malawi	17.280	2002	0.310	27	1.164	6.74
Malaysia	580.000	1994	1.271	51	2.505	0.43
Mali	100.000	2000	1.469	25	5.900	5.90
Malta	0.051	2007	0.012	63	0.019	37.62
Mauritania	11.400	2004	0.375	31	1.223	10.73
Mauritius	2.751	2002	0.132	27	0.491	17.85
Mexico	457.200	2009	26.034	44	58.782	12.86
Mongolia	34.800	1994	0.108	48	0.227	0.65
Montenegro	-	2010	0.001	32	0.002	-
Morocco	29.000	2004	5.823	53	11.010	37.97
Mozambique	217.100	2001	0.183	27	0.689	0.32
Myanmar	1 168.000	2004	12.381	42	29.570	2.53
Namibia	17.720	2002	0.032	22	0.144	0.81
Nepal	210.200	2002	5.428	58	9.320	4.43
Netherlands	91.000	2007	0.043	60	0.071	0.08
New Zealand	327.000	2007	1.492	59	2.529	0.77
Nicaragua	196.600	2001	0.512	34	1.489	0.76
Niger	33.650	2005	0.201	31	0.657	1.95
Nigeria	286.200	2004	1.695	24	7.047	2.46
Norway	382.000	2007	0.068	60	0.113	0.03
Occupied Palestinian Territory	0.837	2003	0.093	49	0.189	22.58
Oman	1.400	2004	0.721	62	1.168	83.43
Pakistan	246.800	2008	126.891	74	172.400	69.85
Panama	148.000	1997	0.160	23	0.687	0.46
Paraguay	336.000	2012	0.959	51	1.897	0.56

Country	Total actual renewable freshwater resources (km ³ /yr) [†] °	Year	Irrigation water requirement (km ³ /yr)	Water requirement ratio (%)	Irrigation water withdrawal (km ³ /yr)	Pressure on freshwater resources due to irrigation (%)
Peru	1 913.000	1998	5.663	35	16.350	0.85
Philippines	479.000	2006	33.280	51	65.590	13.69
Poland	61.600	2007	0.031	32	0.098	0.16
Portugal	68.700	2007	2.016	31	6.567	9.56
Puerto Rico	7.100	2005	0.048	65	0.074	1.04
Qatar	0.058	2001	0.076	29	0.262	451.72
Republic of Korea	69.700	2002	3.932	27	14.487	20.78
Republic of Moldova	11.650	2007	0.025	70	0.036	0.31
Romania	211.900	2007	0.379	53	0.718	0.34
Russian Federation	4 508.000	2008	9.227	70	13.200	0.29
Rwanda	9.500	2000	0.026	25	0.102	1.07
Saint Kitts and Nevis	0.024	1997	0.000	25	0.000	0.76
Saint Lucia	-	2007	0.008	25	0.030	-
Saint Vincent and the Grenadines	-	1990	0.003	25	0.010	-
Saudi Arabia	2.400	2000	11.599	56	20.830	867.92
Senegal	38.800	2002	0.949	46	2.065	5.32
Serbia	162.200	2011	0.021	32	0.066	0.04
Seychelles	-	2003	0.000	27	0.001	-
Sierra Leone	160.000	1992	0.011	24	0.046	0.03
Slovakia	50.100	2007	0.003	32	0.009	0.02
Slovenia	31.870	2010	0.001	32	0.002	0.01
Somalia	14.700	2003	0.263	32	0.820	5.58
South Africa	50.000	2000	2.138	27	7.836	15.67
Spain	111.500	2009	14.058	72	19.560	17.54
Sri Lanka	52.800	2006	3.819	34	11.310	21.42
Sudan and South Sudan	64.500	2000	8.015	31	26.153	40.55
Suriname	122.000	1998	0.167	39	0.431	0.35
Swaziland	4.510	2000	0.313	32	0.993	22.02
Sweden	174.000	2007	0.041	60	0.069	0.04
Switzerland	53.500	2007	0.041	60	0.068	0.13
Syrian Arab Republic	16.800	2004	7.123	49	14.670	87.32
Tajikistan	15.980	2009	4.281	41	10.441	65.34
Thailand	438.600	2007	34.191	66	51.790	11.81
The former Yugoslav Republic of Macedonia	6.400	2004	0.078	62	0.126	1.97
Timor-Leste	8.215	2002	0.192	18	1.071	13.04
Togo	14.700	1996	0.007	46	0.014	0.10
Trinidad and Tobago	3.840	1997	0.009	25	0.036	0.94
Tunisia	4.595	2001	1.552	72	2.165	47.12
Turkey	213.600	2006	25.139	85	29.600	13.86
Turkmenistan	24.720	2006	13.558	51	26.364	106.65
Uganda	66.000	2010	0.063	52	0.120	0.18
Ukraine	139.600	2010	0.826	70	1.186	0.85
United Arab Emirates	0.150	2003	1.815	55	3.312	2208.00
United Kingdom	147.000	2007	0.035	60	0.059	0.04
United Republic of Tanzania	96.270	2002	0.973	22	4.425	4.60
United States of America	3 069.000	2007	108.528	61	177.403	5.78
Uruguay	139.000	1998	1.077	34	3.170	2.28
Uzbekistan	50.410	2005	22.515	45	50.400	99.98
Venezuela (Bolivarian Republic of)	1 233.000	2008	6.472	39	16.707	1.35
Viet Nam	884.100	2005	29.238	38	77.750	8.79
Yemen	2.100	2004	1.773	55	3.235	154.05
Zambia	105.200	2002	0.306	27	1.150	1.09
Zimbabwe	20.000	1999	0.836	25	3.318	16.59
TOTAL (165 countries and 2 territories)	52 579.472	-	1 500.464	56	2 672.640	5.07

* Not included: Andorra, Bahamas, Bosnia and Herzegovina, Comoros, Cook Islands, Croatia, Dominica, Equatorial Guinea, Faroe Islands, Fiji, Holy See, Iceland, Kiribati, Liechtenstein, Luxembourg, Maldives, Marshall Islands, Micronesia (Federated States of), Monaco, Nauru, Niue, Palau, Papua New Guinea, Samoa, San Marino, Sao Tome and Principe, Singapore, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu

† km³ = 10⁹ m³

° Total long-term average annual actual renewable freshwater resources