



International
Water Association

Specialist Group
Statistics and
Economics

International Statistics for Water Services

Marrakech 2004

This brochure on International Statistics for Water Services has been prepared by the IWA Specialist Group on Statistics and Economics.

The International Water Association (IWA) is the global network of water professionals, with the aim of exchanging the scientific and professional experiences of academics and water industry managers, covering all aspects of the water cycle. In pursuit of this aim IWA, supported by technical and scientific committees and specialist groups, organises world and regional conferences.

The Statistics and Economics Specialist Group provides a forum to discuss and compare the ways in which utilities are financed, the variety of water tariff structures in use and the means by which performance can be measured. As part of this service, the group provides statistics to the water industries of various countries, including figures for abstraction, consumption and tariffs. This also includes information on sewerage and wastewater treatment.

This brochure on International Statistics for Water Services is part of a series of documents circulated at previous IWA World Water Congresses (available to download from the IWA website).

The prices compared in the report are presented from the point of view of the domestic customer, whose main interest is the amount of the water bill. Such a comparison allows the actual charges to be compared in relation to the GDP of each country.

The prices do not, however, necessarily provide a true comparison of the full costs of providing water services, because some costs

may be recovered from sources other than the customer. In some cases there may be political motivation to ensure that water is supplied at a socially acceptable price. There are many other factors which affect relative price levels; and these have not been considered in this survey.

As in the previous studies, the prices are based on a family of four (two adults and two children) living in a house with a garden, rather than an apartment. Where water meters are used, the price is based on an annual consumption of 200 m³ per year. Where the supply in a particular country is normally unmeasured, the average price of that country has been used.

The prices refer to 2003 figures and are quoted in US\$ as at 31 October 2003. The other quantitative information refers to 2002 figures.

A list on the inside back page of the leaflet identifies the people or the water organisations from which the data in the survey have been obtained. The Specialist Group has not been able to undertake any further verification.

When information from previously produced leaflets is compared, it may be possible to observe trends. Further useful statistics and information may be found by browsing the IWA website.



Specialist Group
Statistics and
Economics

COMPARISON OF ANNUAL WATER CYCLE CHARGES 2003 FOR A FAMILY LIVING IN A HOUSE CONSUMING 200 M³ (US\$)

COUNTRY	GDP PER CAPITA IN US\$	TOWN/CITY	FIXED CHARGE	VARIABLE CHARGE	OTHER CHARGES DRINKING WATER	TOTAL CHARGE DRINKING WATER	SEWERAGE	WASTE WATER TREATMENT	OTHER CHARGES	VAT & OTHER TAXES	TOTAL ANNUAL CHARGES
ARGENTINA	817	Buenos Aires	17.49			17.49	17.49			9.33	44.31
		Córdoba	48.65			48.65				11.68	60.33
		Corrientes	41.65			41.65				10.00	51.65
		Tucumán	44.35			44.35				10.64	54.99
AUSTRALIA	20,504	Brisbane	55.30	90.70		146.00	174.21				320.21
		Darwin	57.02	75.21		132.23	178.11				310.34
		Melbourne	29.38	85.04		114.42	122.47				236.89
		Perth	79.75	51.16		130.91	234.97				365.88
		Sydney	41.48	103.97		145.45	181.60				327.05
BELGIUM	29,119	Antwerp	53.15	167.31		220.46		131.49			351.95
		Brussels	20.49	282.35		302.84	39.37				342.21
		Liege	29.28	298.45		327.73		107.34			435.07
CANADA	29,381			90.59	90.59		57.91			148.50	
CHINESE HONG KONG	23,791			115.38	115.38	25.26				140.64	
CHINESE TAIWAN	14,164	Taipei	1.69	28.69		30.38	0.14				30.52
CYPRUS	25,629	Larnaca	72.41	139.74		212.15	88.07				300.22
		Lefkosia	44.04	249.24		293.28	46.97		176.14		516.39
		Lemesos	52.84	77.45		130.29	88.07		182.01		400.37
		Pafos	70.46	69.29		139.75	88.07		146.78		374.60
DENMARK	33,663	Aalborg	119.17	119.17		238.34	364.14			185.38	787.86
		Aarhus	46.08	166.05		212.13	369.70			181.21	763.04
		Copenhagen	30.32	194.91		225.23	283.36			162.90	671.49
		Esbjerg	124.34	133.74		258.08	248.67			162.64	669.39
		Odense	56.94	153.60		210.54	350.90			174.13	735.57
FINLAND	26,439	Espoo	47.24	204.71		251.95	238.18			107.83	597.96
		Helsinki	78.34	68.89		147.23	234.24			84.35	465.82
		Tampere	33.31	133.85		167.16	200.78			80.94	448.88
		Turku	28.24	211.36		239.60	216.20			100.24	556.04
		Vantaa	29.53	188.77		218.30	235.56			99.85	553.71
FRANCE**	25,180*	Bordeaux	51.63	179.60		231.23		229.97	72.58	29.36	563.14
		Ile de France	21.18	252.52		273.70		193.02	110.40	31.74	608.86
		Lille	26.59	180.13		206.72		224.40	107.07	29.60	567.80
		Lyon	51.97	234.83		286.80		131.88	78.54	27.35	524.57
		Paris	16.53	167.12		183.65		143.69	107.94	23.94	459.22
GERMANY	23,450	Düsseldorf	73.82	313.96		387.78				21.98	409.75
		Hamburg	51.73	269.67		321.40	507.85			18.88	848.13
		Gelsenkirchen	144.91	251.96		396.87				27.77	424.64
		München	44.76	240.15		284.91				16.81	301.72
GREECE	12,774	Iraklio	41.34	78.74	97.60	217.67	120.07			31.22	368.96
		Rethymno	48.15	122.04	138.34	308.52	76.58			27.40	412.51
HUNGARY	6,916	Budapest	94.00			94.00	100.00			23.28	217.28
		Miskolc		116.00		116.00	78.00			23.28	217.28
		Pecs		186.00		186.00	114.00			36.00	336.00
INDIA	470*	Chennai		5.00		5.00					5.00
		Delhi		6.00		6.00					6.00
		Kolkata		2.00		2.00					2.00
		Mumbai		12.00		12.00					12.00
ITALY	20,209	Bologna	7.57	153.85		161.42	20.69	58.66		24.08	264.85
		Rome	8.23	52.96		61.19	18.88	54.43		13.45	147.95
		Milan	2.75	22.47		25.22	16.91	50.83		9.29	102.25
		Naples	8.23	112.09		120.32	18.60	53.04		19.20	211.16
		Turin	12.01	59.60		71.61	18.73	52.46		14.28	157.08
JAPAN	31,373*	Nagoya	68.81	122.01		190.82	142.51			16.67	350.00
		Osaka	92.73	78.90		171.63	103.30			13.75	288.68
		Sapporo	128.84	162.68		291.52	113.06			20.23	424.81
		Tokyo	89.80	105.74		195.54	162.03			17.88	375.45
		Yokohama	77.11	135.51		212.62	160.73			18.67	392.02
MACAU	14,786		3.87	105.25		109.12				109.12	

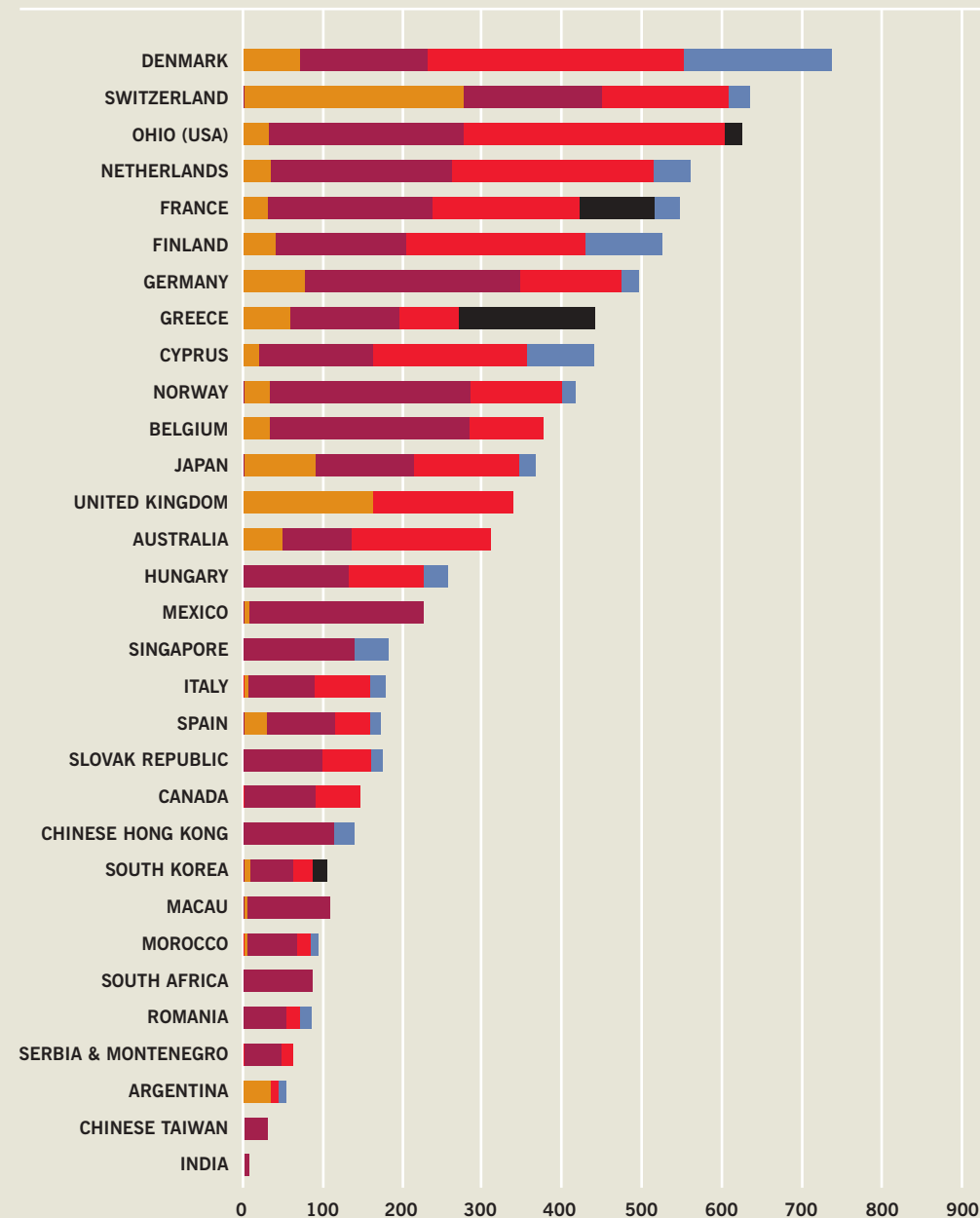
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COUNTRY	GDP PER CAPITA IN US\$	TOWN/CITY	FIXED CHARGE	VARIABLE CHARGE	OTHER CHARGES DRINKING WATER	TOTAL CHARGE DRINKING WATER	SEWERAGE	WASTE WATER TREATMENT	OTHER CHARGES	VAT/OTHE R TAXES	TOTAL ANNUAL CHARGES
MEXICO	5,821	Cancun	4.55			4.55					4.55
		La Paz, Baja	4.55	167.65		172.20					172.20
		Mexico City	4.55	48.04		52.59					52.59
		Monterrey		441.18		441.18					441.18
		Villahermosa	17.65			17.65					17.65
MOROCCO	1,251	Casablanca	6.79	59.00		65.79	18.40			5.89	90.08
		Fès	2.80	56.41		59.21	14.96			5.19	79.36
		Marrakech	2.80	61.16		63.96	17.24			5.68	86.88
		Rabat	6.29	77.18		83.47	17.65			7.08	108.20
		Tanger	3.32	67.49		70.81	20.30			6.38	97.49
NETHERLANDS	26,672	Amsterdam	38.27	255.89		294.16	103.72	155.54		46.86	600.28
		Eindhoven	37.79	167.51		205.30	130.61	130.23		41.53	507.67
		Rotterdam	61.89	194.08		255.97	102.90	144.91		44.56	548.34
		The Hague	57.28	253.92		311.20	60.12	167.24		47.88	586.44
		Utrecht	23.27	190.94		214.21	128.90	154.13		42.06	539.30
NORWAY	44,719	Bergen		147.95		147.95	191.67			81.51	421.13
		Oslo		116.10		116.10	174.28			74.12	382.92
		Trondheim		25.09	153.46		178.55	217.25			94.88
ROMANIA	2,560*	Bargau		54.00		54.00	17.00			14.00	85.00
		Bistrita		54.00		54.00	17.00			14.00	85.00
		Rocha		54.00		54.00	17.00			14.00	85.00
SERBIA & MONTENEGRO	1,689	Belgradé		43.93		43.93	10.98				54.91
		Niš		65.89		65.89	10.54				76.43
		Novi Sad		32.94		32.94	21.96				54.90
SINGAPORE	22,571			140.00		140.00	1.97		42.00	183.97	
SLOVAK REPUBLIC	4,370*	Bratislava		98.00		98.00	62.00			13.72	173.72
		Košice		98.00		98.00	62.00			13.72	173.72
		Presov		98.00		98.00	62.00			13.72	173.72
		Tmava		98.00		98.00	62.00			13.72	173.72
		Zilina		98.00		98.00	62.00			13.72	173.72
SOUTH AFRICA	2,321*	Johannesburg		86.09		86.09					86.09
SOUTH KOREA	9,910*	Seoul	10.39	51.29	19.23	80.91	19.23				100.14
		Daegu	9.33	50.00	16.03	75.36	25.64				101.00
		Daejeon	7.89	42.95	19.23	70.07	25.00				95.07
		Inchon	8.08	56.09	19.23	83.40	23.05				106.45
		Pusan	11.54	65.39	17.63	94.56	31.41				125.97
SPAIN	19,202	Barcelona	44.76	130.39		175.15	28.54	73.78		17.68	295.15
		Bilbao	15.59	66.81	2.63	85.03	80.02			6.19	171.24
		Madrid	32.34	86.92		119.26	52.81			8.35	180.42
		Seville	25.64	93.98		119.62	39.68	57.20		15.16	231.66
		Valencia	33.54	50.00	15.52	99.06	44.20	57.62		10.03	210.91
SWITZERLAND	38,716	Geneva	279.18	169.32		448.50	161.26			23.02	632.78
UNITED KINGDOM	26,322	Bristol	163.54			163.54	176.00				339.54
		Cardiff	191.57			191.57	228.95				420.52
		London	154.19			154.19	147.96				302.15
		Manchester	166.65			166.65	157.31				323.96
		Newcastle	137.06			137.06	174.44				311.50
U.S.A.	17,596	Ohio (Akron)	33.24	242.40		275.64	328.56		18.72		622.92

US\$ as per 31 October 2003

* source: www.evd.nl

** For wastewater services, the price is calculated on the municipalities of the same area as the area of the water services. The local authorities in charge of sanitation are not always the ones in charge of drinking water services. And the operator(s) managing the sanitation services is (are) different than the ones in charge of drinking water services. There is only one bill for the water service and the sanitation service.



■ Fixed charge ■ Variable charge ■ Sewerage and w.w.t. ■ Other charges ■ VAT

*Average volume of considered main cities in the Country

ABSTRACTION FOR WATER SUPPLY ACCORDING TO SOURCE IN M³ / YEAR

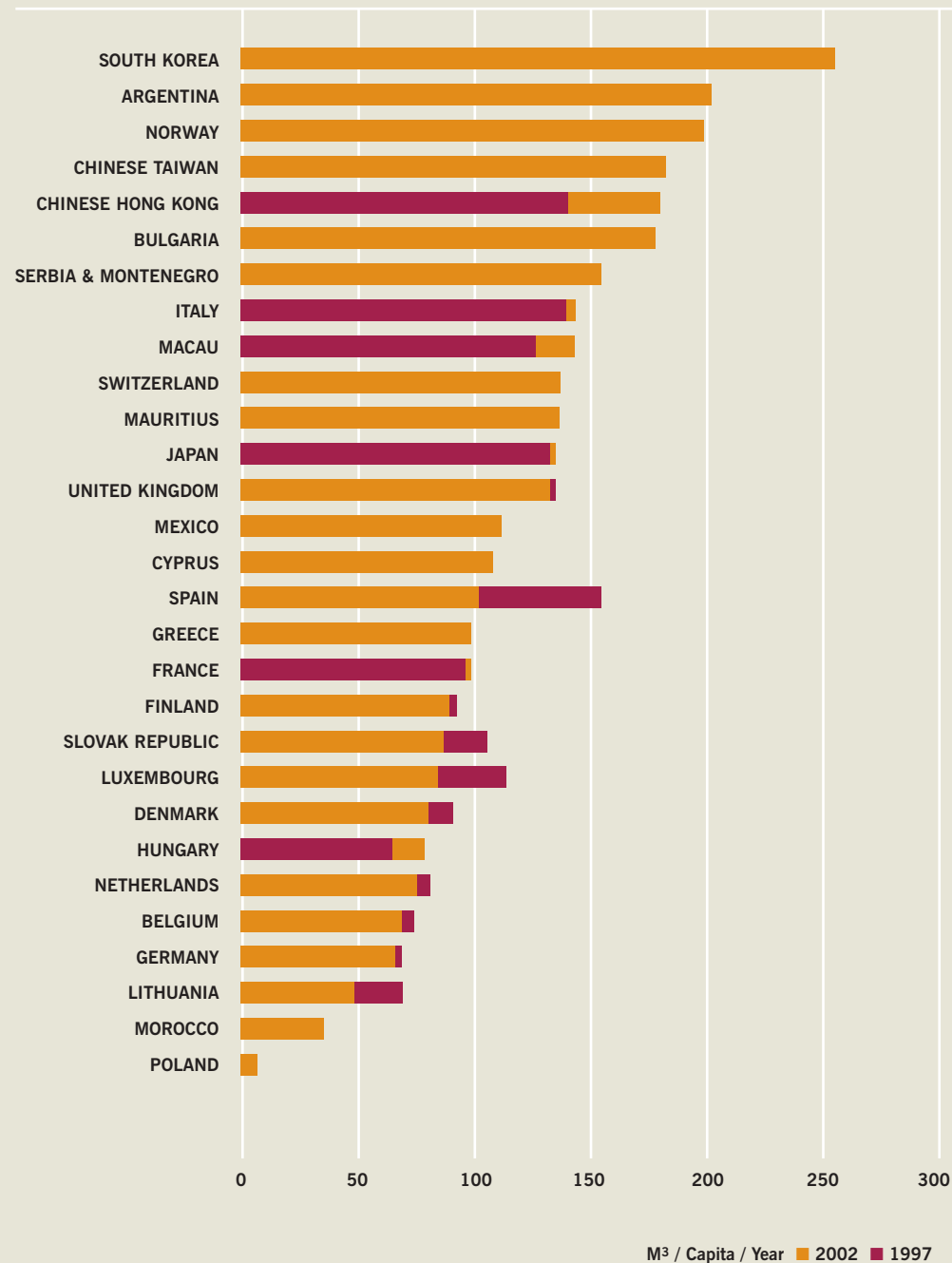
COUNTRY	TRUE GROUND WATER		SPRING WATER		SURFACE WATER		OTHER SOURCES		TOTAL WATER ABSTRACTION	
	1997	2002	1997	2002	1997	2002	1997	2002	1997	2002
ARGENTINA		839				4,905				5,744
AUSTRALIA		7,099				24,000		3,042		34,141
BELGIUM	468	466	0		270	254			738	720
BULGARIA		538		130		692		24		1,384
CHINESE HONG KONG	0		0	236	913	252		744	913	1,232
CHINESE TAIWAN		515				2,514		2		3,032
CYPRUS		33				14		30		76
DENMARK	455	413	0		2	3			457	416
FINLAND	240	249	0		176	175			416	424
FRANCE	3,360	3,659	0		2,290	2,212			5,650	5,871
GERMANY	3,648	3,575	408	495	1,568	1,430			5,624	5,500
GREECE										1,091
HUNGARY	342	405	290		26	43		294	658	742
ITALY	3,975	3,573	2,385	3,176	1,590	1,191			7,950	7,941
JAPAN	4,357	4,148	178	485	11,820	12,049			16,355	16,682
LITHUANIA	240	124	0		0	1			240	125
LUXEMBOURG	2	7	29	17	16	13			47	37
MACAU	0		0		53	54			53	54
MAURITIUS		93				61				153
MEXICO										9,633
MOROCCO		331				492		3		826
NETHERLANDS	794	755			475	447		32	1,269	1,234
NORWAY		73				735				808
OHIO (USA)						93				93
POLAND		143				74				217
ROMANIA	1,058	0	0	632	1,588	14,718			2,646	15,350
SERBIA & MONTENEGRO		556		70		368				994
SLOVAK REPUBLIC	383	332	0		69	63			452	395
SOUTH AFRICA ¹	270		5		4,447	2			4,722	2
SOUTH KOREA		899				10,118				11,017
SPAIN	1,000	793	124	144	4,848	3,069		153	5,972	4,159
SWEDEN ²	221		0		702	141			923	141
SWITZERLAND		379		486		150				1,015
UNITED KINGDOM									7,895	7,895*

¹ Rand Water

² Stockholm Water Organisation

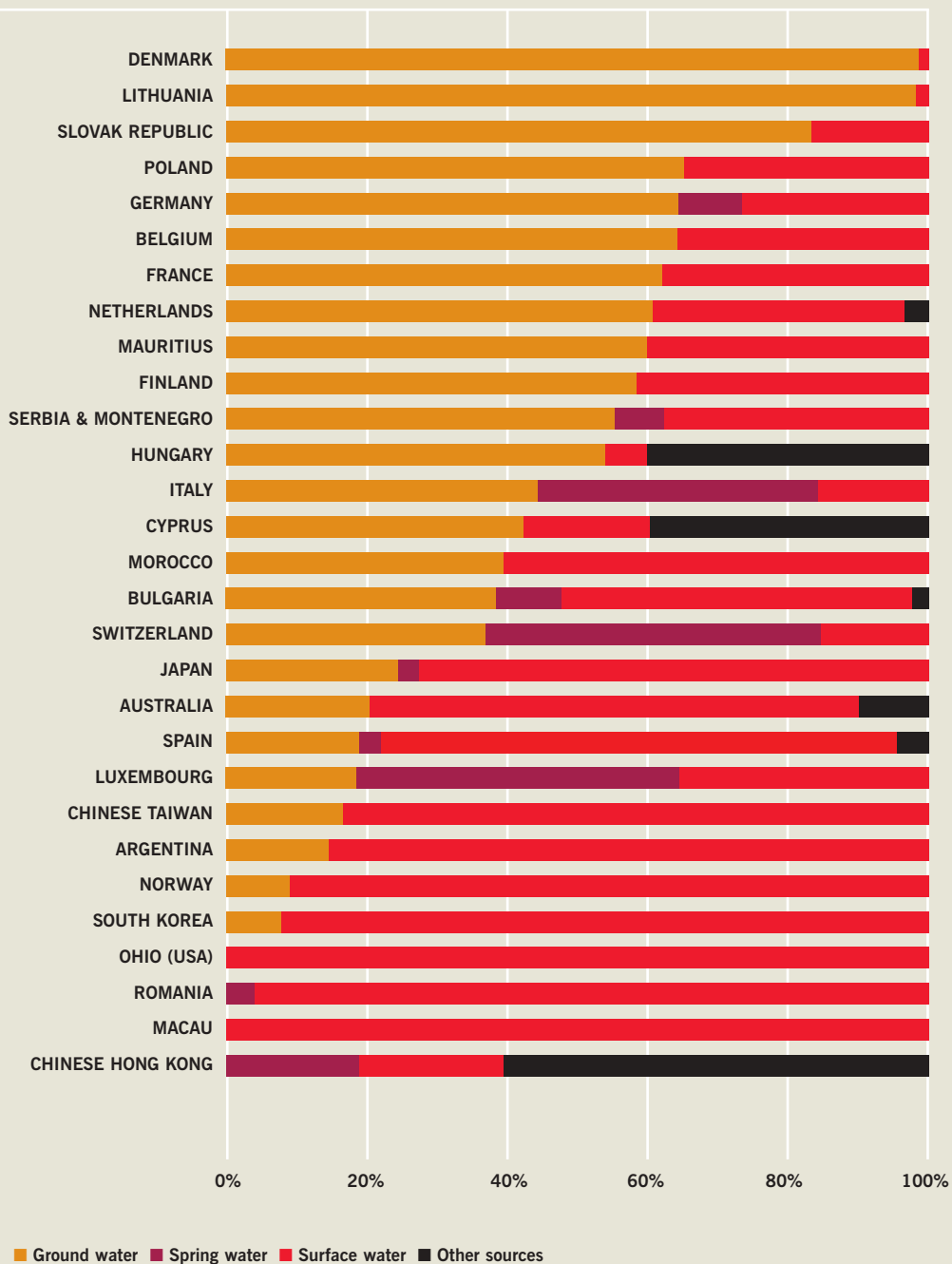
* 1997 related

TOTAL ABSTRACTION FOR WATER SUPPLY IN M³ / CAPITA / YEAR TOTAL ABSTRACTION / (POPULATION X SUPPLY RATE)



M³ / Capita / Year 2002 1997

ABSTRACTION SOURCE FOR DRINKING WATER SUPPLY



Ground water Spring water Surface water Other sources

WATER DELIVERED - POPULATION SEWER CONNECTION - WASTE WATER CONNECTION

IN M³ / YEAR

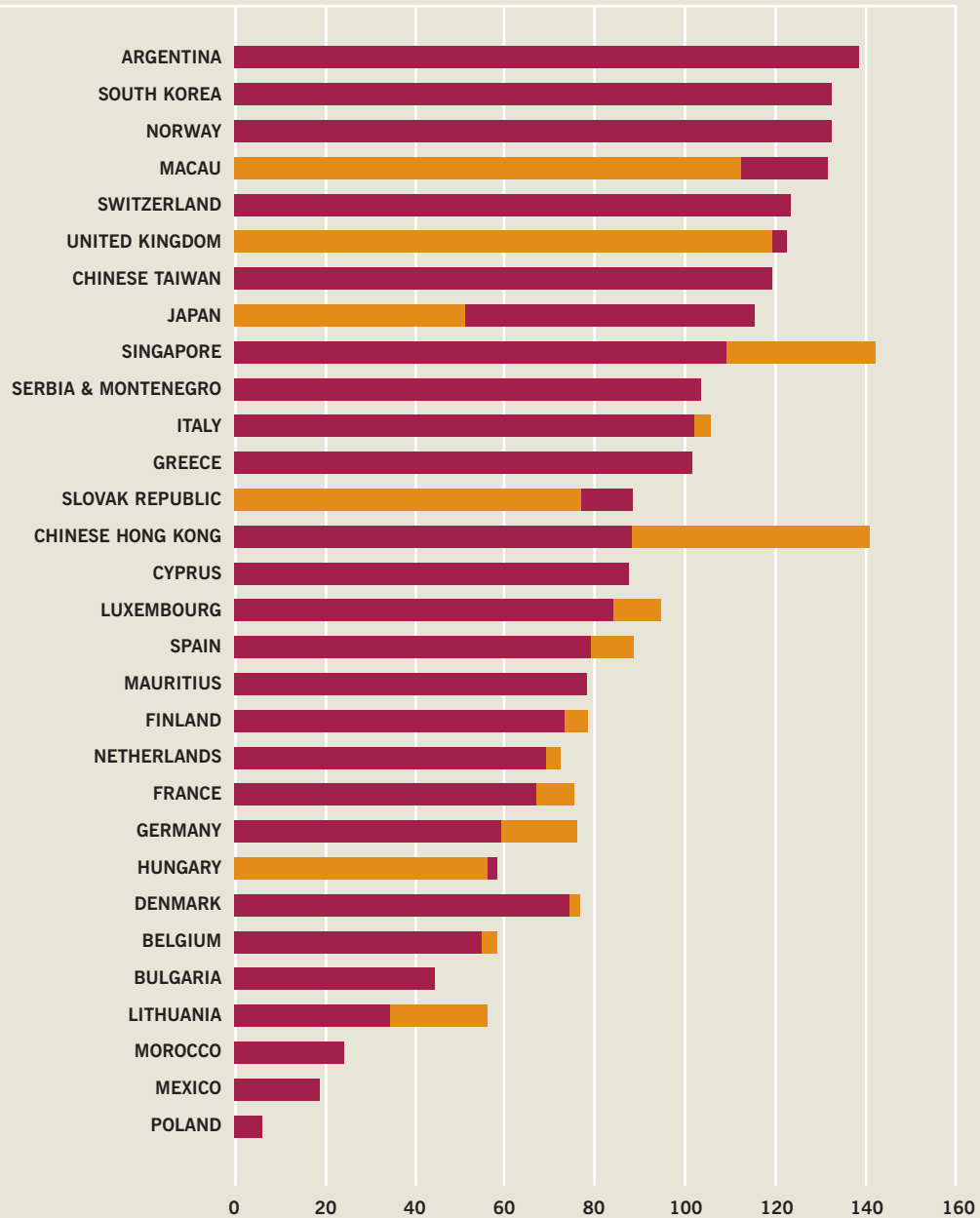
COUNTRY	HOUSEHOLD AND SMALL BUSINESSES		INDUSTRY AND OTHERS		TOTAL DELIVERY		POPULATION M INHABITANTS		SUPPLY RATE IN %	SEWER CONN. RATE %	WASTE WATER CONN. RATE %
	1997	2002	1997	2002	1997	2002	1997	2002	2002	2002	2002
ARGENTINA						3,923		36.26	78.4	48.0	
AUSTRALIA		25,606		8,535		34,141		19.88	70.2		70.0
BELGIUM	428	387	151	172	579	560	10.17	10.36	99.0		
BULGARIA		255		82		337		7.85	98.8	68.4	38.7
CHINESE HONG KONG	688	304	225	297	913	601	6.5	6.82	99.9	97.0	97.0
CHINESE TAIWAN		1,421		543		1,964		18.60	89.0		
CYPRUS		58		3		61		0.70	100.0	42.0	42.0
DENMARK	250	247	129	134	379	381	5.28	5.37	96.0	91.5	99.5
FINLAND	258	289	96	51	354	340	5.15	5.21	89.4	80.7	80.7
FRANCE	3,210		1,140		4,350	4,000	58.6	60.00	100.0	95.0	76.0
GERMANY	3,946	3,790	1,015	995	4,961	4,785	82.05	82.54	98.0		93.0
GREECE		784		307		1,091		10.96	99.0		65.0
HUNGARY	380	381	180	165	560	546	10.14	10.14	93.0	56.1	
INDIA								1,045.80	87.3	21.0	21.0
ITALY	4,700	4,881	1,200	729	5,900	5,610	57.56	57.32	96.0	84.0	73.0
JAPAN	4,369	12,671	1,778	1,460	6,147	14,132	125.82	127.18	96.7	65.2	
LITHUANIA	161	56	34	31	195	87	3.7	3.50	72.0	59.0	54.0
LUXEMBOURG	27	29	13	8	40	37	0.42	0.44	99.9	99.0	94.0
MACAU	22		25		47	49	0.42	0.44	< 90		
MAURITIUS		70		18		88		1.13	99.6		
MEXICO		960		690		1,650		97.48	87.8	76.2	21.0
MOROCCO		422		126		548		29.63	78.3	70.0	5.0
NETHERLANDS	948	934	188	181	1,136	1,115	15.7	16.11	100.0	99.0	99.0
NORWAY		307		226		533		4.55	89.0	82.0	73.0
POLAND		163		15		177		38.63	83.4	57.6	56.0
ROMANIA	1,291	4,791	734	3,454	2,025	8,245	23	21.70	70.0	93.0	94.0
SERBIA & MONTENEGRO		556		106		662		7.50	85.4	60.0	10.0
SINGAPORE	232	253	209	207	441	460	3.13	4.20	100.0	100.0	100.0
SLOVAK REPUBLIC	206	185	122	210	328	395	5.35	5.38	83.7	55.2	52.4
SOUTH AFRICA ¹	2,350	1	1,920		4,270	1	41.56	45.00			
SOUTH KOREA		5,478		214		5,692		48.57	88.7	75.8	70.0
SPAIN	2,037	2,237	1,335	982	3,372	3,220	39.67	40.85	100.0	89.0	60.0
SWEDEN ²	526	66	194	18	720	85	8.85	8.94	100.0	100.0	100.0
SWITZERLAND		627		279		907		7.35	100.0		96.0
UNITED KINGDOM		3,300		3,900	0	7,200	59.01	59.23	99.6	94.0	92.8
OHIO (USA)		34		18		53		11.37			71.0

¹ Rand Water

² Stockholm Water Organisation

TOTAL WATER DELIVERED IN M³ / CAPITA / YEAR

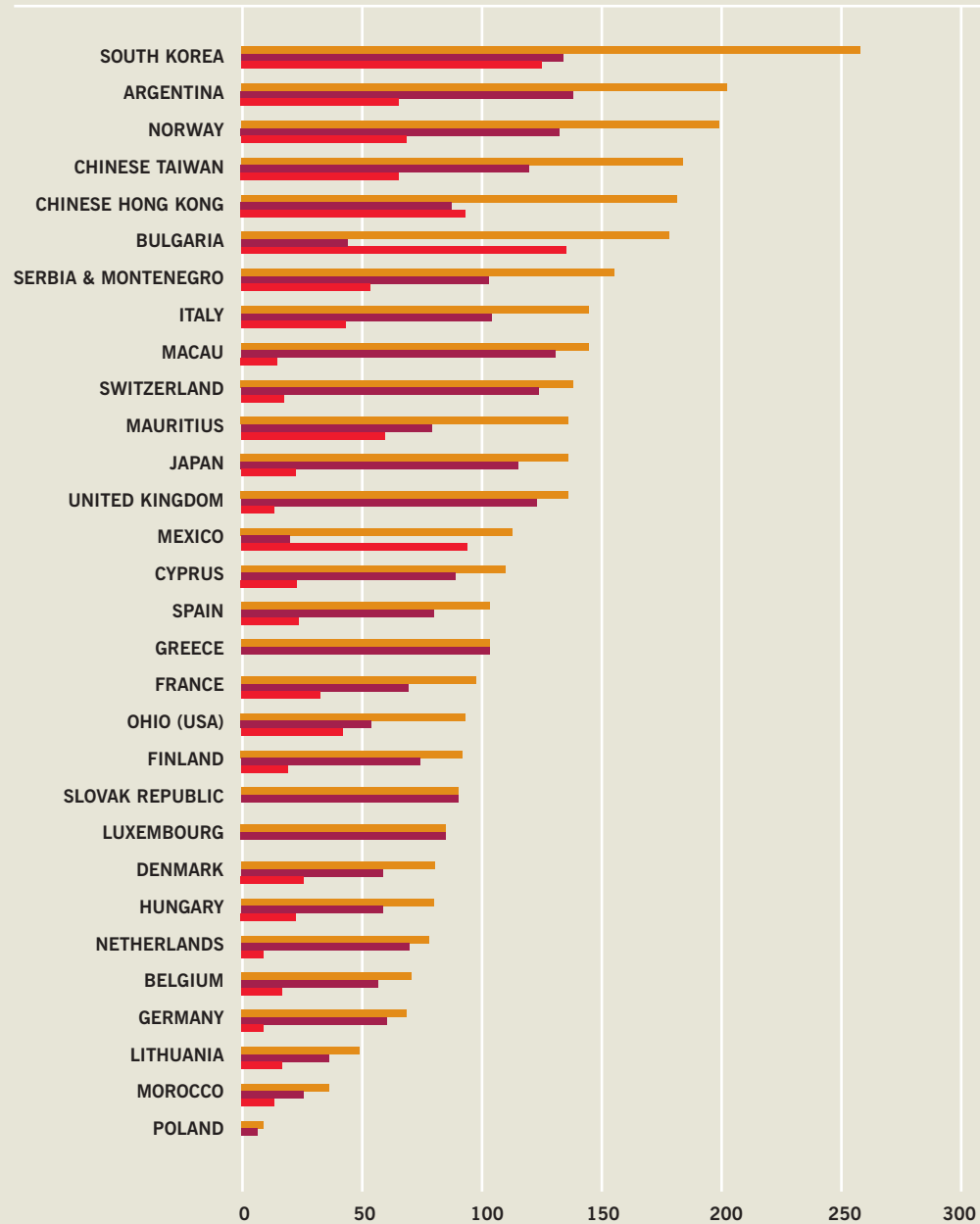
TOTAL DELIVERY / (POPULATION X SUPPLY RATE)



M³ / Capita / Year 1997 2002

WATER ABSTRACTION - WATER DELIVERED

IN M³ / CAPITA / YEAR



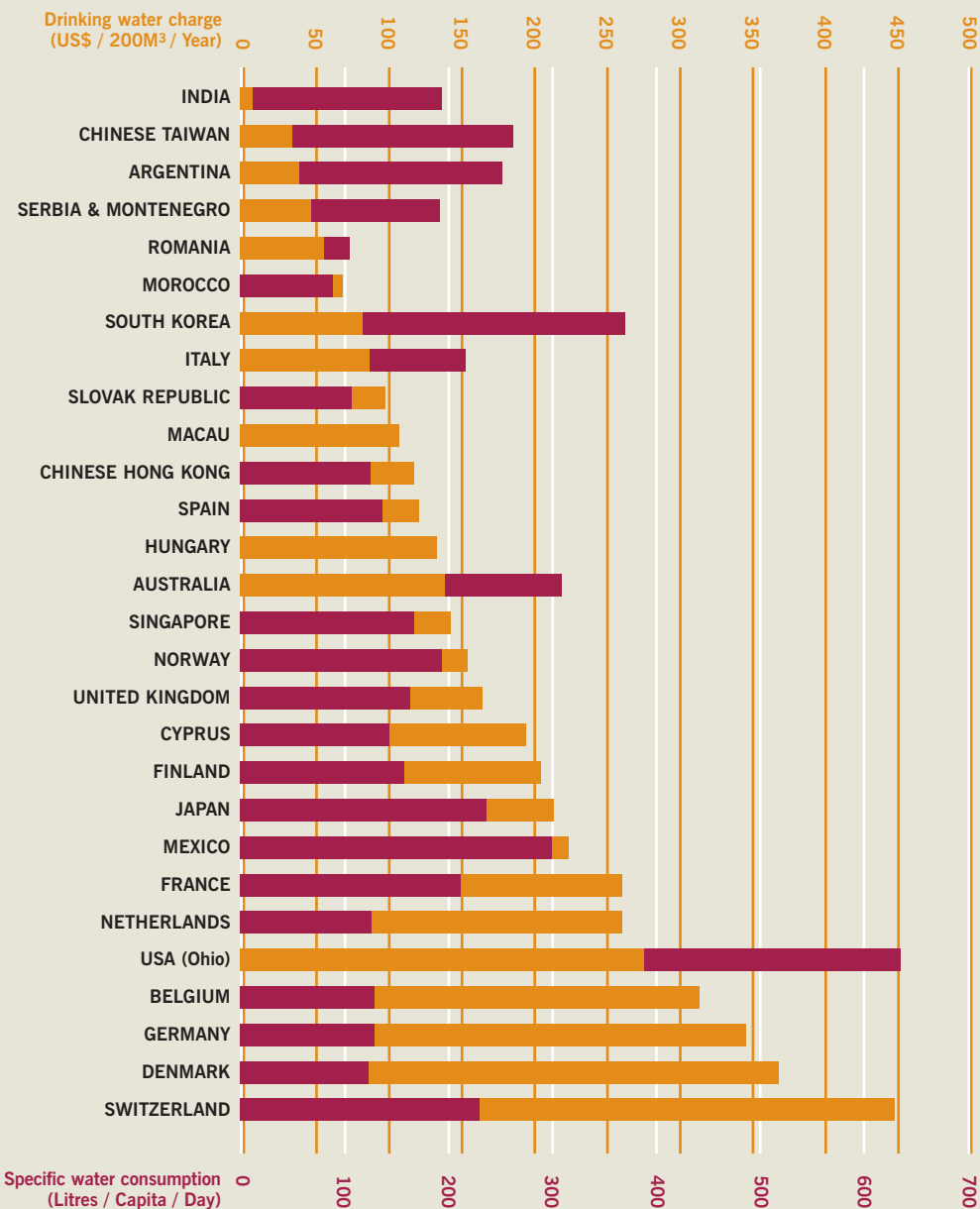
M³ / Capita / Year Water abstraction Water delivered Difference

SPECIFIC WATER CONSUMPTION IN LITRES / CAPITA / DAY

COUNTRY	CITY	HOUSEHOLD AND SMALL BUSINESS	INDUSTRY AND OTHERS	TOTAL
ARGENTINA	Buenos Aires	261	100	361
	Córdoba	224	30	254
	Corrientes	137	11	148
	Santa Fé	n/a	n/a	316
	Tucumán	385	n/a	385
AUSTRALIA	Brisbane	291	210	501
	Darwin	465	493	958
	Melbourne	231	206	437
	Perth	300	115	415
	Sydney	253	161	414
BELGIUM		127	n/a	127
BULGARIA	Bratislava	107	133	240
CANADA		343	n/a	343
CHINESE HONG KONG		122	120	242
CHINESE TAIWAN	Taipei	262	80	342
CYPRUS	Larnaca	161	2	163
	Lefkosia	121	9	130
	Lemesos	154	36	190
	Pafos	130	10	140
DENMARK	Aalborg	124	75	199
	Aarhus	121	57	178
	Copenhagen	126	51	177
	Esbjerg	119	113	232
	Odense	113	63	176
FINLAND	Espoo	n/a	n/a	238
	Helsinki	167	47	214
	Tampere	169	38	207
	Turku	146	71	217
	Vantaa	150	38	188
FRANCE	Bordeaux	262	n/a	60
	Ile de France	182	n/a	268
	Lille	127	n/a	55
	Lyon	221	n/a	85
	Paris	276	n/a	146
GERMANY	Düsseldorf	128	n/a	128
GREECE		142	n/a	142
HUNGARY	Budapest	174	81	255
	Miskolc	107	67	174
	Pecs	92	43	135
INDIA	Delhi	209	n/a	209
	Kolkata	202	n/a	202
	Mumbai	178	n/a	178
ITALY	Bologna	168	81	249
	Milan	330	82	412
	Naples	145	147	292
	Rome	176	113	289
	Turin	266	90	356
JAPAN	Nagoya	223	150	373
	Osaka	256	262	518
	Sapporo	202	91	293
	Tokyo	246	140	386
	Yokohama	244	106	350

COUNTRY	CITY	HOUSEHOLD AND SMALL BUSINESS	INDUSTRY AND OTHERS	TOTAL
LITHUANIA	Kaunas	80	n/a	80
	Klaipeda	80	n/a	80
	Panevezys	67	n/a	67
	Siauliai	56	n/a	56
	Vilnius	89	n/a	89
MACAU		n/a	n/a	303
MEXICO		300		300
MOROCCO	Casablanca	72	23	95
	Fés	85	23	108
	Marrakech	95	7	102
	Rabat	100	38	138
	Tanger	95	11	106
NETHERLANDS	Amsterdam	158	65	223
	Eindhoven	118	75	193
	Rotterdam	151	99	250
	The Hague	102	61	163
	Utrecht	103	66	169
NORWAY	Bergen	200	323	523
	Oslo	200	282	482
	Trondheim	175	193	368
POLAND	Gdańsk	105	26	131
	Łódź	128	58	186
	Plock	97	38	135
	Sopot	144	14	158
	Szczecin	124	37	161
ROMANIA	Bargau	77	108	185
	Bistrita	128	87	215
	Rodna	107	16	123
SERBIA & MONTENEGRO	Belgrade	242	90	332
	Niš	153	85	238
	Novi Sad	179	66	245
SINGAPORE		165	137	302
SLOVAK REPUBLIC	Bratislava	107	133	240
SOUTH AFRICA ¹		160	n/a	160
SOUTH KOREA	Daegu	370	60	430
	Daejeon	367	24	391
	Inchon	418	0	418
	Pusan	318	14	332
	Seoul	368	2	370
SPAIN	Barcelona	127	60	187
	Bilbao	101	68	169
	Madrid	159	71	230
	Seville	144	57	201
	Valencia	143	40	183
SWITZERLAND	Geneva	228	164	392
UNITED KINGDOM	Bristol	157	n/a	157
	Cardiff	156	n/a	156
	London	183	n/a	183
	Manchester	148	n/a	148
	Newcastle	164	n/a	164
U.S.A.	Ohio (Akron)	633	n/a	633

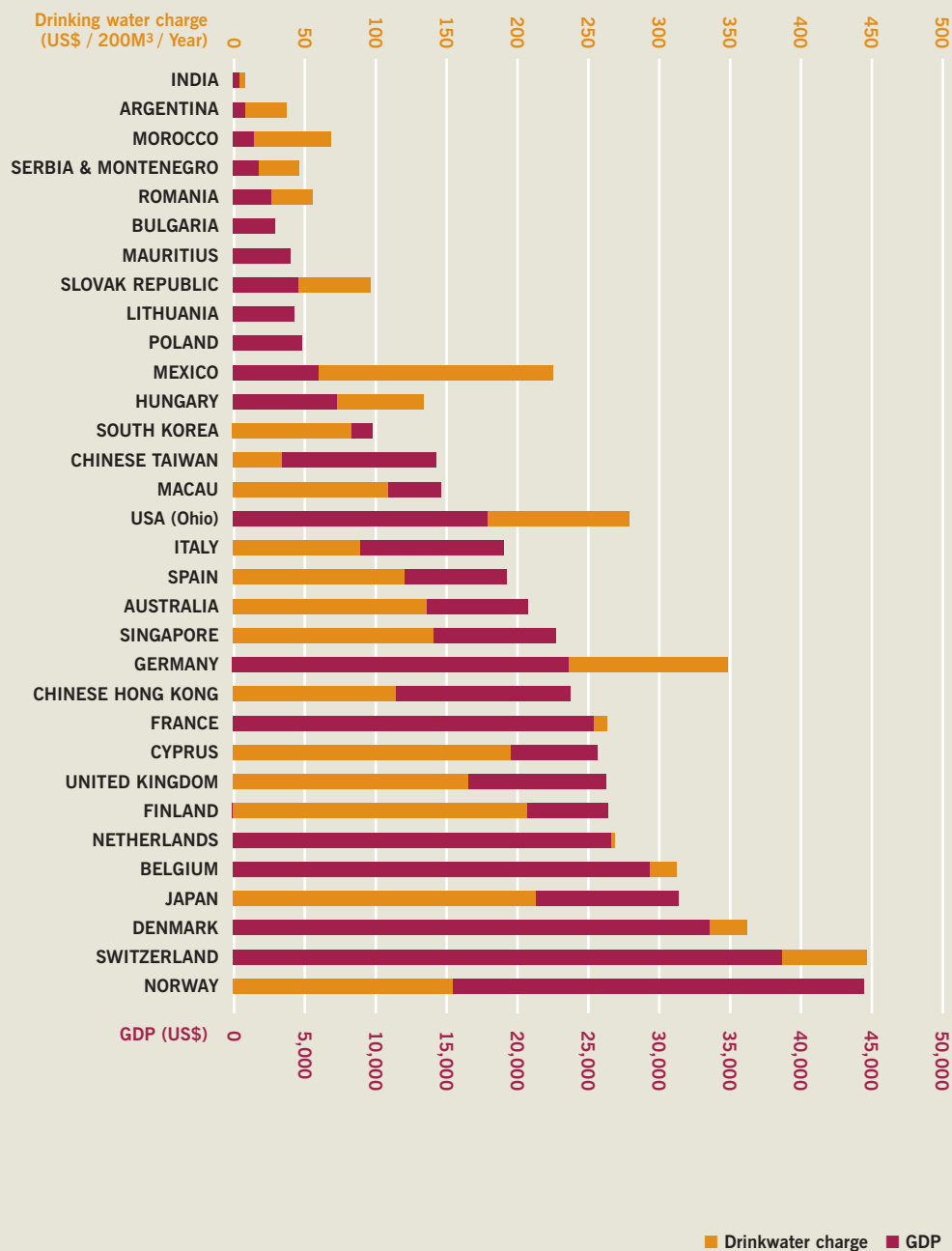
DRINKING WATER CHARGE - SPECIFIC WATER CONSUMPTION*



¹ Rand water

■ Drinkwater charge ■ Specific consumption
Average specific water consumption of considered main Cities in the Country*

GDP - DRINKING WATER CHARGE



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