

**Kassel, 16.6.99**

### **Update of**

**Döll, P., Siebert, S.(1999): A digital global map of irrigated areas. Report A9901, Center for Environmental Systems Research, University of Kassel.**

In the most recent version of the digital global map of irrigated areas of June 1999, the country values of irrigated areas have been changed compared to the April 99 version. This is the case for 16 countries (Russia, Pakistan, Jordan, Benin, Burkina Faso, Ivory Coast, Gabon, Guinea, Guinea Bissau, Liberia, Nigeria, Rwanda, Sierra Leone, Togo, Uganda and Zaire).

Now, if AQUASTAT data were used, the irrigated area includes:

- full and partial control irrigation; equipped areas
- spate irrigation area
- equipped wetlands and inland valley bottoms

It does not include "other cultivated wetlands" and "flood recession cropping areas", as there is no control, and thus irrigation water use cannot be computed as the optimal irrigation requirement.

**Appendix B1:** Map and data sources per country, including comments on the location of irrigated areas

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
1	AFGHANISTAN	FAOSTAT	2799.996	map in Achtnich, p. 38
2	ALBANIA	FAOSTAT	340	map in Helmut Toepfer, "Bewässerungslandwirtschaft und Nahrungsmittelprd. in Albanien" in Popp, Rother, p.107
3	ALGERIA	AQUASTAT	555.501	map of irrigated areas in Northern Africa in Achtnich p. 63
4	AMERICAN SAMOA		0	no irrigation
5	ANDORRA		0	no irrigation
6	ANGOLA	AQUASTAT	75	map of irrigated areas in Central Africa in Achtnich, p. 68; map of irrigated areas in the South of Africa in Achtnich, p. 70
7	ANTIGUA & BARBUDA		0	no irrigation
8	ARGENTINIA	FAOSTAT	1699.999	map of irrigated areas in Southern America in Achtnich, p. 83
9	ARMENIA	AQUASTAT	285.649	map in Achtnich, p. 36
10	ARUBA		0	no irrigation
11	AUSTRALIA	FAOSTAT	2317	map of the Australian Department of Primary Industries & Energy "Irrigation in the southern Murray-Darling Basin", map in Achtnich, p. 85; to take into account irrigated areas in the states Northern Territory (N.T.) and Australian Capital Territory (A.C.T.), small irrigated areas near Darwin and Canberra were added.
12	AUSTRIA	FAOSTAT	4	map in Achtnich, p. 25
13	AZERBAIJAN	AQUASTAT	1453.32	map in Achtnich, p. 36
14	BAHAMAS		0	no irrigation
15	BAHRAIN	AQUASTAT	3.165	map of oasis areas in: Statistisches Bundesamt, "Länderbericht Bahrain 1991", Wiesbaden 1992, p. 13
16	BANGLADESH		3200.006	map in Achtnich, p. 40
17	BARBADOS	FAOSTAT	1	no irrigation maps available, whole island irrigated with same intensity
18	BELARUS	AQUASTAT	131	map of areas in which fruits and vegetables are grown (Minsk, Witebsk, Mogiljow, Gomel) in Statistisches Bundesamt, "Länderbericht Weißrußland 1994", p. 12
19	BELGIUM & LUXEMBOURG	FAOSTAT	1	map of areas on which vegetables and sugar beets are grown in: Statistisches Bundesamt, "Länderbericht Belgien 1993", p. 12
20	BELIZE	FAOSTAT	3	no irrigation maps available, some areas in the south near the borderline to Guatemala were marked as irrigated
21	BENIN	AQUASTAT	10.236	Africa map of FAO (FAO: "Irrigated areas in Africa", Rome, 1987)
22	BERMUDA		0	no irrigation
23	BHUTAN	FAOSTAT	39	no irrigation maps available, some areas near the capital and in a basin in the east of the country assumed to be irrigated
24	BOLIVIA	FAOSTAT	78	map of irrigated areas in Equador, Peru and Bolivia in Achtnich, p. 81
25	BOSNIA HERZEGOVINA	FAOSTAT	2	in Achtnich worldmap: irrigated area near borderline to Croatia N Dubrovnik
26	BOTSWANA	AQUASTAT	1.381	map of irrigated areas in Southern Africa in Achtnich, p. 70
27	BRAZIL	FAOSTAT	3168.91	map in Achtnich, p. 82; data on irrigated areas in the Brazilian states: personal communication with Dr. F. A. Rodriguez, Ministry of Environment, Water Resources and Amazon, 1998. For the states of Acre, Amazonas, Rondonia and Roraima with very small irrigation areas according to

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
28	BRIT. INDIAN OCEAN TERR.		0	the state values but no areas given in Achtnich, arbitrary locations were chosen (on the 0.5° grid only, on 5' grid equal distribution of irrigated area)
29	BRIT. VIRGIN ISLANDS		0	no irrigation
30	BRUNEI DARUSSALAM	FAOSTAT	1	map of agricultural areas in Statistisches Bundesamt: "Länderbericht Brunei 1992"
31	BULGARIA	FAOSTAT	800.001	map in Achtnich, p.17
32	BURKINA FASO	AQUASTAT	24.33	map of irrigated areas West Africa in Achtnich, p. 67
33	BURUNDI	AQUASTAT	14.4	map of irrigated areas in Central Africa in Achtnich, p. 68
34	CAMBODIA	FAOSTAT	173	map of Indochina in Achtnich, p. 44
35	CAMEROUN	AQUASTAT	20.97	FAO (1987)
36	CANADA	FAOSTAT	709.998	map of irrigated areas in North America in Achtnich, p. 81
37	CANTON & ENDERBURY		0	no irrigation
38	CAPE VERDE	AQUASTAT	2.779	FAO (1987)
39	CAYMAN ISLANDS		0	no irrigation
40	CENTRAL AFRICAN REPUBLIC	AQUASTAT	0.135	map of irrigated areas in Central Africa in Achtnich, p. 68
41	CHAD	AQUASTAT	14.02	map of irrigated areas in Northern Africa in Achtnich, p. 63
42	CHILE	FAOSTAT	1265	map of irrigated areas in South America in Achtnich, p. 83; map of irrigated areas in Ecuador, Peru and Bolivia in Achtnich, p. 81
43	CHINA	county data	46003.992	county data of irrigated area in 1990 by Statistics Publishing House (1991); county map: CIESIN (1996)
44	CHRISTMAS ISLANDS		0	no irrigation
45	COCOS ISLAND		0	no irrigation
46	COLOMBIA	FAOSTAT	1037.001	map of irrigated areas in South America in Achtnich, p. 80
47	COMOROS	AQUASTAT	0.13	FAO (1987)
48	CONGO	AQUASTAT	0.217	no irrigation maps available, irrigated areas assumed near irrigated areas of neighbour countries and near Brazzaville
49	COOK ISLANDS		0	no irrigation
50	COSTA RICA	FAOSTAT	126	map of irrigated areas in Central America in Achtnich, p. 77
51	COTE D'IVOIRE	AQUASTAT	72.75	map of irrigated areas in the West Africa in Achtnich, p. 67
52	CROATIA	FAOSTAT	3	in Achtnich world map irrigated areas W of Rijeka and N of Dubrovnik
53	CUBA	FAOSTAT	910	map of irrigated areas in Central America in Achtnich, p. 77
54	CYPRUS	AQUASTAT	39.938	map in Achtnich, p. 60
55	CZECH REPUBLIC	FAOSTAT	24	map of irrigated areas in the former CSSR in Achtnich, p. 31
56	DENMARK	FAOSTAT	481	small irrigated areas, distributed within the whole country, map of agricultural areas with high yields in Statistisches Bundesamt: Länderbericht Dänemark 1993 p. 12
57	DJIBOUTI	AQUASTAT	0.674	no irrigation maps available, irrigated areas assumed near irrigated areas of neighbour countries and near Djibouti
58	DOMINICA		0	no irrigation
59	DOMINICAN REPUBLIC	FAOSTAT	259	map of irrigated areas in Central America in Achtnich, p. 77
60	EAST TIMOR		0	no irrigation
61	ECUADOR	FAOSTAT	240	map of irrigated areas in Equador, Peru and Bolivia in Achtnich, p. 81

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
62	EGYPT	AQUASTAT	3245.998	map of irrigated areas in the Northern Africa in Achtnich, p. 63
63	EL SALVADOR	FAOSTAT	120	map of irrigated areas in Central America in Achtnich, p. 77
64	EQUATORIAL GUINEA		0	no irrigation
65	ERITREA	AQUASTAT	28.124	map of irrigated areas in East Africa in Achtnich, p. 69
66	ESTONIA	AQUASTAT	3.68	no irrigation maps available, irrigation assumed S' Lake Wirz und S' Lake Pelpus
67	ETHIOPIA	AQUASTAT	189.556	map of irrigated areas in East Africa in Achtnich, p. 69
68	FAERÖE ISLANDS		0	no irrigation
69	FALKLAND ISLANDS		0	no irrigation
70	FIJI	FAOSTAT	3	map in Achtnich, p.87
71	FINLAND	FAOSTAT	64	map of agricultural areas with suitable climatic conditions in Statistisches Bundesamt: Länderbericht Finnland 1993, p. 12
72	FRANCE	FAOSTAT	1630	N France: Achtnich world map, S France: map in Achtnich p. 20 + Andre de Reparaz: Irrigation et agriculture irriguee dans les regions mediterraneennes francaises; map in Popp, Rother p. 80, Korsika: map in Achtnich, p. 20
73	FRENCH GUIANA	FAOSTAT	2	map of irrigated areas in South America in Achtnich, p. 80
74	FRENCH POLYNESIA		0	no irrigation
75	GABON	AQUASTAT	4.45	FAO (1987)
76	GAMBIA	AQUASTAT	1.67	map of irrigated areas in West Africa in Achtnich, p. 67
77	GAZA STRIP	FAOSTAT	12	no irrigation maps available, whole area marked as irrigated
78	GEORGIA	AQUASTAT	469	map in Achtnich, p. 36
79	GERMANY	FAOSTAT	475	map of irrig. areas in former FRG in Achtnich, p. 18; map of irrig. areas in former GDR in Framji p. 395
80	GHANA	AQUASTAT	6.374	map of irrigated areas in West Africa in Achtnich, p. 67
81	GIBRALTAR		0	no irrigation
82	GREECE	FAOSTAT	1328	map in Achtnich, p. 21
83	GREENLAND		0	no irrigation
84	GRENADA		0	no irrigation
85	GUADELOUPE	FAOSTAT	2	no irrigation maps available, whole island marked as irrigated
86	GUAM		0	no irrigation
87	GUATEMALA	FAOSTAT	125	map of irrigated areas in Central America in Achtnich, p. 77
88	GUINEA	AQUASTAT	92.88	map of irrigated areas in West Africa in Achtnich, p. 67
89	GUINEA BISSAU	AQUASTAT	17.115	map of irrigated areas in West Africa in Achtnich, p. 67
90	GUYANA	FAOSTAT	130	map of irrigated areas in South America in Achtnich, p. 80
91	HAITI	FAOSTAT	90	map of irrigated areas in Central America in Achtnich, p. 77
92	HONDURAS	FAOSTAT	74	map of irrigated areas in Central America in Achtnich, p. 77
93	HONG KONG	FAOSTAT	2	map of paddy rice areas in Statistisches Bundesamt: Länderbericht Hongkong 1995 p. 12
94	HUNGARY	FAOSTAT	210	map in Achtnich, p. 32
95	ICELAND		0	no irrigation
96	INDIA		50101.996	map: Central Board of Irrigation and Power (1994): Irrigation Atlas of India. New Dehli. data: A.R.G. Rao, Central Board of Irrigation and Power (pers. communication 1998), net irrigated area 1992/93 per federal state
97	INDONESIA	FAOSTAT	4579.977	map of irrig. areas in Java in Achtnich, p. 45; irrig. areas in Sumatra in Achtnich worldmap; map of rice growing areas of the other islands published by Statistisches Bundesamt:

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
98	IRAN	AQUASTAT	7264.24	Länderbericht Indonesien 1993, p. 12-14
99	IRAQ	AQUASTAT	3524.998	map in Achtnich, p. 47
100	IRELAND		0	no irrigation
101	ISRAEL	FAOSTAT	195	map in H. Eichenauer: Die Bewässerungsgebiete Israels. Anmerkungen zu einer Karte 1:1 Million in Popp, Rother p. 136
102	ITALIA	FAOSTAT	2709.998	map in Achtnich, p. 23 + map in Wagner, H. and H.-G.: Die Bewässerungslandwirtschaft in den italienischen Regionen Latium, Abruzzen, Molise und Kampanien in Popp, Rother p. 88,89 + map in Klaus Rother: Die Bewässerungsgebiete des fernsten Italiens in Popp, Rother p. 102
103	JAMAICA	FAOSTAT	33	map of irrigated areas in Central America in Achtnich, p. 77
104	JAPAN	FAOSTAT	2700.004	map in Achtnich, p. 49
105	JORDAN	AQUASTAT	64.3	main part of irrigated areas in Jordan valley (Framji)
106	KASAKHSTAN	AQUASTAT	3556.403	maps: Achtnich, p. 36 (S-Kasakhstan) + H.W. Denecke: Towards the integration of irrigation and drainage management in the Aral sea basin. In ILRI - Annual Report 1996, p. 26
107	KENIA	AQUASTAT	66.61	map of irrigated areas in East Africa in Achtnich, p. 69
108	KIRIBATI		0	no irrigation
109	KOREA DPR.	FAOSTAT	1460.001	map of Korea in Achtnich, p. 51
110	KOREA REP.	FAOSTAT	1334.998	map of Korea in Achtnich, p. 51; data of irrigated area per federal state: personal communication with Yung-Duk Lim 1998 (source of data: Yearbook Land and Water Development Statistics 1995)
111	KUWAIT	AQUASTAT	4.77	no irrigation maps available, small area near Kuwait City marked as irrigated
112	KYRGYZSTAN	AQUASTAT	1077.100	map in: H.W. Denecke. In ILRI - Annual Report 1996, p. 26
113	LAOS	FAOSTAT	177	map of irrigated area in Indochina in Achtnich, p. 44
114	LATVIA	AQUASTAT	20	no irrigation maps available, irrigated areas marked near Riga and along the rivers Aluksne, Daugava and Venta
115	LEBANON	AQUASTAT	87.5	map in Achtnich, p. 52
116	LESOTHO	AQUASTAT	2.722	FAO (1987)
117	LIBERIA	AQUASTAT	2.1	map of irrigated areas in West Africa in Achtnich, p. 67
118	LIBYA	AQUASTAT	470	map of irrigated areas in Northern Africa in Achtnich, p. 63
119	LIECHTENSTEIN		0	no irrigation
120	LITHUANIA	AQUASTAT	9.247	no irrigation maps available, irrigated areas marked near Kaunas (along Nemunas river) and near Vilnius (along Neris river)
121	MACAU		0	no irrigation
122	MACEDONIA	FAOSTAT	61	in Achtnich worldmap irrigated areas in the east along Wadar river
123	MADAGASCAR	AQUASTAT	1087	FAO (1987)
124	MALAWI	AQUASTAT	28	map of irrigated areas in Southern Africa in Achtnich, p. 70
125	MALAYSIA	FAOSTAT	340	map in Achtnich, p. 52
126	MALEDIVES		0	no irrigation
127	MALI	AQUASTAT	78.62	map of irrigated areas in Northern Africa in Achtnich, p. 63; map of irrigated areas in West Africa in Achtnich, p. 67
128	MALTA	AQUASTAT	0.763	no irrigation maps available, whole island marked as irrigated area
129	MARTINIQUE	FAOSTAT	3	no irrigation maps available, whole island marked as irrigated area
130	MAURETANIA	AQUASTAT	49.2	map of irrigated areas in Northern Africa in Achtnich, p. 63
131	MAURITIUS	AQUASTAT	17.5	map in Achtnich, p. 72

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
132	MEXICO	FAOSTAT	6099.96	map in Achtnich, p. 76, data of irrigated area statewide: communication with Julio Lorda, FIRCO, Mexico City 1998
133	MOLDOVA REP.	AQUASTAT	312	map in Achtnich, p. 34
134	MONGOLIA	FAOSTAT	80	no irrigation maps available, irrigated areas marked near Ulan Bator and in the east (along Cherlen river)
135	MONTserrat		0	no irrigation
136	MOROCCO	AQUASTAT	1258.198	map of irrigated areas in Northern Africa in Achtnich, p. 63
137	MOZAMBIQUE	AQUASTAT	106.71	map of irrigated areas in Southern Africa in Achtnich, p. 70
138	MYANMAR	FAOSTAT	1555	map in Achtnich, p. 41
139	NAMIBIA	AQUASTAT	6.142	map in M. B. Schneider, "Bewässerungswirtschaft in Namibia", p. 55
140	NAURU		0	no irrigation
141	NEPAL	FAOSTAT	885	map in Achtnich, p. 53
142	NETH. ANTILLES		0	no irrigation
143	NETHERLANDS	FAOSTAT	565	main part of irrigated areas in the east and the south (Achtnich, Framji), map of vegetable growing areas in Statistisches Bundesamt: Länderbericht Niederlande
144	NEW CALEDONIA		0	no irrigation
145	NEW ZEALAND	FAOSTAT	285	map in Achtnich, p. 86
146	NICARAGUA	FAOSTAT	88	map of irrigated areas in Central America in Achtnich, p. 77
147	NIGER	AQUASTAT	66.48	map of irrigated areas in Northern Africa in Achtnich, p. 63; map of irrigated areas in West Africa in Achtnich, p. 67
148	NIGERIA	AQUASTAT	232.821	map of irrigated areas in West Africa in Achtnich, p. 67
149	NIUE		0	no irrigation
150	NORFOLK ISLANDS		0	no irrigation
151	NORWAY	FAOSTAT	100	map of agricultural areas in Länderbericht Norwegen 1991, p. 12
152	OMAN	AQUASTAT	61.55	map of irrigated areas in Arabia in Achtnich, p. 39
153	PACIFIC ISLANDS		0	no irrigation
154	PAKISTAN	AQUASTAT	15729.4	map: government of Pakistan. „Irrigation System of Pakistan“, 1994
155	PANAMA	FAOSTAT	32	map of irrigated areas in Central America in Achtnich, p. 77
156	PAPUA NEW GUINEA		0	no irrigation
157	PARAGUAY	FAOSTAT	67	map of irrigated areas in South America in Achtnich, p. 80
158	PERU	FAOSTAT	1752.997	map of irrigated areas in Equador, Peru , Bolivia in Achtnich, p. 81
159	PHILIPPINES	FAOSTAT	1580.003	map in Achtnich, p. 54
160	POLAND	FAOSTAT	100	map in Achtnich, p. 26
161	PORTUGAL	FAOSTAT	632	map in Achtnich, p. 27; location of irrigation projects Mondego, Silves und Alvor in map: Bodo Freund: Entwicklung und Perspektiven der Bewässerungswirtschaft in Portugal. In Popp, Rother p. 9
162	PUERTO RICO	FAOSTAT	40	map in Framji p. 156
163	QATAR	AQUASTAT	12.52	map of oasis areas in: Statistisches Bundesamt (Hrsg.) "Länderbericht Katar 1994", p. 12
164	REUNION	FAOSTAT	12	map in Achtnich, p. 72
165	ROMANIA	FAOSTAT	3110.01	map in Achtnich, p. 28
166	RUSSIAN FED.	AQUASTAT	5158	map of irrigated areas in S Russia in Achtnich, p. 35
167	RWANDA	AQUASTAT	4	FAO (1987)
168	SAMOA		0	no irrigation
169	SAN MARINO		0	no irrigation

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
170	SAO TOME & PRINCIPE	AQUASTAT	9.7	no irrigation maps available, whole area marked as irrigated
171	SAUDI ARABIA	AQUASTAT	1607.997	map of irrigated areas in Arabia in Achtnich, p. 39
172	SENEGAL	AQUASTAT	71.4	map of irrigated areas in West Africa in Achtnich, p. 67
173	SEYCHELLES		0	no irrigation
174	SIERRA LEONE	AQUASTAT	29.36	map of irrigated areas in West Africa in Achtnich, p. 67
175	SINGAPORE		0	no irrigation
176	SLOVAK. REP.	FAOSTAT	299	map of irrigated areas of the former CSSR in Achtnich, p. 31
177	SLOVENIA	FAOSTAT	2	map of wine, fruits and vegetables growing areas in Statistisches Bundesamt: „Länderbericht Slowenien 1995“ p. 12
178	SOLOMON ISLANDS		0	no irrigation
179	SOMALIA	AQUASTAT	200	map of irrigated areas in East Africa in Achtnich, p. 69
180	SOUTH AFRICA	AQUASTAT	1270.002	map of irrigated areas in Southern Africa in Achtnich, p. 70
181	SPAIN	FAOSTAT	3526.999	map in Achtnich, p. 30; map of main basins and data of irrigated areas in these basins: communication with the span. National Committee of the ICID ; some areas along the Guadalquivir river were marked as irrigated too, Balears und Canary Islands were marked as completely irrigated
182	SRI LANKA	FAOSTAT	550	map in Achtnich, p. 55
183	ST. HELENA		0	no irrigation
184	ST. KITTS & NEVIS		0	no irrigation
185	ST. LUCIA	FAOSTAT	3	no irrigation maps available, whole island marked as irrigated
186	ST. PIERRE MIQUELON		0	no irrigation
187	ST. VINCENT	FAOSTAT	1	no irrigation maps available, whole island marked as irrigated
188	SUDAN	AQUASTAT	1946.207	map of irrigated areas in Central Africa in Achtnich, p. 68; map of irrigated areas in East Africa in Achtnich, p. 69
189	SURINAME	FAOSTAT	60	map of irrigated areas in Northern South America in Achtnich, p. 80
190	SWAZILAND	AQUASTAT	67.4	map of irrigated areas in Southern Africa in Achtnich, p. 70
191	SWEDEN	FAOSTAT	115	map of most important agricultural areas in Statistisches Bundesamt: „Länderbericht Schweden 1994“, p. 13
192	SWITZERLAND	FAOSTAT	25	map in Achtnich, p. 29
193	SYRIA	AQUASTAT	1013.274	map in Achtnich, p. 56
194	TAJIKISTAN	AQUASTAT	719.2	map in: H.W. Denecke in ILRI - Annual Report 1996, p. 26
195	TANZANIA	AQUASTAT	150	map of irrigated areas in East Africa in Achtnich, p. 69; map of irrigated areas in Southern Africa in Achtnich, p. 70
196	THAILAND	FAOSTAT	5004.012	map in Achtnich, p. 58; data of irrigated areas in 25 main water basins of Thailand and map of these basins: personal communication with Charoon Kamoiratana from the Royal Irrigation Department of Thailand, 1998.
197	TOGO	AQUASTAT	7.008	FAO (1987)
198	TOKELEAU ISLANDS		0	no irrigation
199	TONGA		0	no irrigation
200	TRINIDAD & TOBAGO	FAOSTAT	22	map of irrigated areas in Northern South America in Achtnich, p. 80
201	TUNISIA	AQUASTAT	385	map of irrigated areas in Northern Africa in Achtnich, p. 63
202	TURKEY	AQUASTAT	4185.91	map in Achtnich, p. 59
203	TURKMENISTAN	AQUASTAT	1744.103	map in: H.W. Denecke in ILRI - Annual Report 1996, p. 26

	country	data source for irrigated area in 1995	irrigated area (1000 ha)	map sources and comments
204	TURKS CAICOS ISL.		0	no irrigation
205	TUVALU		0	no irrigation
206	USA	county data	23548.466	county-data: National water-use data files of the U.S. Geological Survey in 1995; county map: USGS (1998); irrigated areas of the Hawaii Islands: map in Achtnich, p. 88
207	UGANDA	AQUASTAT	9.12	map of irrigated areas in East Africa in Achtnich, p. 69
208	UNITED KINGDOM	FAOSTAT	108	in Achtnich worldmap irrigated area in the south-east of UK
209	UKRAINE	AQUASTAT	2605.004	map in Achtnich, p. 34
210	UNITED ARAB EMIRATES	AQUASTAT	66.682	map of irrigated areas in Arabia in Achtnich, p. 39
211	URUGUAY	FAOSTAT	140	map of irrigated areas in Southern South America in Achtnich, p. 83
212	US VIRGIN ISLANDS		0	no irrigation
213	UZBEKISTAN	AQUASTAT	4280.605	map in: H.W. Denecke in ILRI - Annual Report 1996, p. 26
214	VANUATU		0	no irrigation
215	VENEZUELA	FAOSTAT	185	map of irrigated areas in Northern South America in Achtnich, p. 80; data of irrigated areas per federal state: personal communication with Prof. Gonzalo Freites (Hydraulic Department, UCV)
216	VIET NAM	FAOSTAT	1999.996	map of irrigated areas in Indochina in Achtnich, p. 44
217	WALLIS FUTUNA ISLANDS		0	no irrigation
218	WEST BANK	FAOSTAT	9	no irrigation maps available, some areas in the Jordan river valley were marked as irrigated
219	WEST SAHARA		0	no irrigation
220	YEMEN	AQUASTAT	481.52	map of irrigated areas in Arabia in Achtnich, p. 39
221	YUGOSLAWIA FED REP.	FAOSTAT	65	in Achtnich worldmap irrigated areas in the N between Donau river and Theiß river
222	ZAIRE	AQUASTAT	10.5	map of irrigated areas in Central Africa in Achtnich, p. 68; map of irrigated areas in East Africa in Achtnich, p. 69
223	ZAMBIA	AQUASTAT	46.4	map of irrigated areas in Southern Africa in Achtnich, p. 70
224	ZIMBABWE	AQUASTAT	116.577	map of irrigated areas in Southern Africa in Achtnich, p. 70
225	TAIWAN	Länderbericht-Taiwan 1994	465	map in Achtnich, p. 57; source of irrigated area in 1992: Statistisches Bundesamt: Länderbericht Taiwan 1994

The irrigated areas given here are correct for the 5-min map (ESRI land mask). Due to the lower spatial resolution and thus the errors in assigning 0.5° cells to countries, the country values of 0.5° digital global map of irrigated areas can be different.