

Summary Tables

Summary Table 1. Cultivated Area, Irrigation Potential, and Currently Irrigated Area

	Cultivable area			Cultivated area (2002)			Irrigation potential			Currently irrigated area		
	Hectares (3)	Hectares/ inhabitant (4)	Hectares (5)	Hectares/ inhabitant (6)	Hectares (7)	Share of cultivable area (%) (8)=100 x (7)/(3)	Hectares (9)	Share of cultivable area (%) (10)=100 x (9)/(5)	Share of irrigation potential (%) (11)=100 x (9)/(7)			
Angola	32,000,000	2.27	3,300,000	0.23	3,700,000	11.6	80,000	2.4	2.2			
Benin	7,000,000	1.01	2,815,000	0.41	322,000	4.6	12,258	0.4	3.8			
Botswana	2,980,650	1.62	380,000	0.21	13,000	0.4	1,439	0.4	11.1			
Burkina Faso	9,000,000	0.67	4,400,000	0.33	165,000	1.8	25,000	0.6	15.2			
Burundi	1,400,000	0.20	1,351,000	0.19	215,000	15.4	21,430	1.6	10.0			
Cameroon	—	—	7,160,000	0.44	290,000	1.9	25,654	0.4	8.8			
Cape Verde	—	—	45,000	0.10	3,109	4.4	2,780	6.2	89.4			
Central African Republic	15,000,000	3.83	2,024,000	0.52	1,900,000	12.7	135	0.0	0.0			
Chad	19,000,000	2.15	3,630,000	0.41	335,000	1.8	30,273	0.8	9.0			
Comoros	—	—	132,000	0.17	300	1.8	130	0.1	43.3			
Congo	—	—	240,000	0.06	340,000	2.3	2,000	0.8	0.6			
Cote d'Ivoire	21,000,000	1.24	6,900,000	0.41	475,000	2.3	72,750	1.1	15.3			
Democratic Republic of Congo	80,000,000	1.47	7,800,000	0.14	7,000,000	8.8	10,500	0.1	0.2			

Djibouti	6,000	0.01	1,012	2,400	40.0	1,012	100.0	42.2
Equatorial Guinea	850,000	1.68	230,000	30,000	3.5			
Eritrea	1,600,000	0.37	503,000	187,500	11.7	21,590	4.3	11.5
Ethiopia	13,200,000	0.18	10,671,000	2,700,000	20.5	289,530	2.7	10.7
Gabon	15,155,000	11.22	495,000	440,000	2.9	4,450	0.9	1.0
Gambia	430,000	0.29	255,000	80,000	18.6	2,149	0.8	2.7
Ghana	10,000,000	0.47	6,331,000	1,900,000	19.0	30,900	0.5	1.6
Guinea	6,000,000	0.70	1,540,000	520,000	8.7	94,914	6.2	18.3
Guinea-Bissau	1,100,000	0.72	548,000	281,290	25.6	22,558	4.1	8.0
Kenya	9,942,000	0.31	5,162,000	353,060	3.6	103,203	2.0	29.2
Lesotho		—	334,000	12,500	1.3	2,637	0.8	21.1
Liberia		—	600,000	600,000	12.0	2,100	0.4	0.4
Madagascar	8,000,000	0.45	3,550,000	1,516,819	19.0	1,086,291	30.6	71.6
Malawi	3,600,000	0.29	2,440,000	161,900	4.5	56,390	2.3	34.8
Mali	43,700,000	3.26	4,700,000	566,000	1.3	235,791	5.0	41.7
Mauritania	1,000,000	0.34	500,000	250,000	25.0	45,012	9.0	18.0
Mauritius		—	106,000	33,000	22.0	21,222	20.0	64.3
Mozambique	36,000,000	1.88	4,435,000	3,072,000	8.5	118,120	2.7	3.8
Namibia	25,000,000	12.43	820,000	47,300	0.2	7,573	0.9	16.0
Niger	16,500,000	1.33	4,500,000	270,000	1.6	73,663	1.6	27.3

(continued)

Summary Table 1. (continued)

	Cultivable area			Cultivated area (2002)			Irrigation potential			Currently irrigated area		
	Hectares (3)	Hectares/inhabitant (4)	Hectares (5)	Hectares/inhabitant (6)	Hectares (7)	Share of cultivable area (%) (8)=100 x (7)/(3)	Hectares (9)	Share of cultivable area (%) (10)=100 x (9)/(5)	Share of irrigation potential (%) (11)=100 x (9)/(7)			
Nigeria	61,000,000	0.48	33,000,000	0.26	2,330,510	3.8	293,117	0.9	12.6			
Rwanda	1,511,400	0.18	1,385,000	0.16	165,000	10.9	8,500	0.6	5.2			
Sao Tome and Principe	55,000	0.33	54,000	0.33	10,700	19.5	9,700	18.0	90.7			
Senegal	3,800,000	0.37	2,506,000	0.24	409,000	10.8	119,680	4.8	29.3			
Seychelles	—	—	7,000	0.09	1,000	10.0	260	3.7	26.0			
Sierra Leone	5,360,000	1.04	600,000	0.12	807,000	15.1	29,360	4.9	3.6			
Somalia	8,150,000	0.79	1,071,000	0.10	240,000	2.9	200,000	18.7	83.3			
South Africa	18,320,000	0.41	15,712,000	0.35	1,500,000	8.2	1,498,000	9.5	99.9			
Sudan	105,000,000	3.06	16,653,000	0.49	2,784,000	2.7	1,863,000	11.2	66.9			
Swaziland	—	—	190,000	0.18	93,220	18.6	49,843	26.2	53.5			
Togo	3,400,000	0.68	2,630,000	0.52	180,000	5.3	7,300	0.3	4.1			
Uganda	16,800,000	0.63	7,200,000	0.27	90,000	0.5	9,150	0.1	10.2			

United Republic of Tanzania	40,000,000	1.06	5,100,000	0.14	2,132,221	5.3	184,330	3.6	8.6
Zambia	16,350,000	1.50	5,289,000	0.48	523,000	3.2	155,912	2.9	29.8
Zimbabwe			3,350,000	0.26	365,624	3.7	173,513	5.2	47.5
Sub-Saharan Africa			182,645,012	0.26	39,413,453		7,105,119	3.9	18.0
Sub-Saharan Africa excluding the three largest irrigation countries			146,730,012		33,612,634		2,657,828	1.8	7.9

Source: FAO, 2005a.

Summary Table 2. Renewable Water Resources

Country ^a	Annual renewable water resources						
	Average annual precipitation			Internal (IRWR)		Total (TRWR)	
	Depth (mm) (1)	Volume (million m ³) (2)	Volume (million m ³) (3)	Per 2004 inhabitant (m ³ /inhabitant) (4)	Volume (million m ³) (5)	m ³ /inhabitant (6)	Dependency ratio (%) (7)=100x [(5)-(3)]/(5)
Angola	1,010	1,258,790	148,000	10,513	148,000	10,513	0.0
Benin	1,039	117,046	10,300	1,489	26,393	3,815	61.0
Botswana	416	241,825	2,400	1,337	12,240	6,819	80.4
Burkina Faso ^a	748	204,925	12,500	933	12,500	933	0.0
Burundi	1,274	35,460	10,060	1,423	15,484	2,191	35.0
Cameroon	1,604	762,463	273,000	16,753	285,500	17,520	4.4
Cape Verde	228	919	300	634	300	634	0.0
Central African Republic	1,343	836,662	141,000	36,043	144,400	36,912	2.4
Chad	322	413,191	15,000	1,694	43,000	4,857	65.1
Comoros	900	2,007	1,200	1,519	1,200	1,519	0.0
Congo	1,646	562,932	222,000	58,146	832,000	217,915	73.3
Cote d'Ivoire	1,348	434,676	76,840	4,548	81,140	4,802	5.3
Democratic Republic of Congo	1,543	3,618,120	900,000	16,539	1,283,000	23,577	29.8
Djibouti	220	5,116	300	421	300	421	0.0

Equatorial Guinea	2,156	60,481	26,000	51,282	26,000	51,282	0.0
Eritrea	384	45,147	2,800	652	6,300	1,466	55.5
Ethiopia	848	936,005	122,000	1,685	122,000	1,685	0.0
Gabon	1,831	489,997	164,000	121,392	164,000	121,392	0.0
Gambia	836	9,451	3,000	2,052	8,000	5,472	62.5
Ghana	1,187	283,195	30,300	1,417	53,200	2,489	43.1
Guinea	1,651	405,939	226,000	26,218	226,000	26,218	0.0
Guinea-Bissau	1,577	56,972	16,000	10,403	31,000	20,156	48.4
Kenya	630	365,633	20,700	638	30,700	947	32.6
Lesotho	788	23,928	5,230	2,906	3,022	1,679	0.0
Liberia	2,391	266,300	200,000	57,356	232,000	66,533	13.8
Madagascar	1,513	888,192	337,000	18,826	337,000	18,826	0.0
Malawi	1,181	139,960	16,140	1,308	17,208	1,395	6.6
Mali	282	349,610	60,000	4,475	100,000	7,458	40.0
Mauritania	92	94,655	400	134	11,400	3,826	96.5
Mauritius	2,041	4,164	2,751	2,231	2,751	2,231	0.0
Mozambique	1,032	827,161	100,300	5,229	217,100	11,318	53.8
Namibia	285	235,253	6,160	3,063	17,715	8,809	65.2
Niger	151	190,810	3,500	282	33,650	2,710	89.6
Nigeria	1,150	1,062,335	221,000	1,739	286,200	2,251	22.8
Rwanda	1,212	31,932	9,500	1,120	9,500	1,120	0.0
Sao Tome and Principe	3,200	3,072	2,180	13,212	2,180	13,212	0.0

(continued)

Summary Table 2. (continued)

Country ^a	Annual renewable water resources						
	Average annual precipitation			Internal (IRWR)		Total (TRWR)	
	Depth (mm) (1)	Volume (million m ³) (2)	Volume (million m ³) (3)	Per 2004 inhabitant (m ³ /inhabitant) (4)	Volume (million m ³) (5)	m ³ /inhabitant (6)	Dependency ratio (%) (7)=100x [(5)-(3)]/(5)
Senegal	686	135,048	25,800	2,495	38,800	3,753	33.0
Seychelles	2,330	887					
Sierra Leone	2,526	181,215	160,000	30,960	160,000	30,960	0.0
Somalia	282	180,075	6,000	582	14,200	1,377	57.7
South Africa	495	603,926	44,800	991	50,000	1,106	10.4
Sudan	416	1,042,417	30,000	874	64,500	1,879	76.9
Swaziland	788	13,678	2,640	2,438	4,510	4,164	41.5
Togo	1,168	66,302	11,500	2,292	14,700	2,930	21.8
Uganda	1,180	284,427	39,000	1,461	66,000	2,472	40.9
United Republic of Tanzania	1,071	1,012,191	84,000	2,230	93,000	2,469	9.7
Zambia	1,020	767,700	80,200	7,342	105,200	9,630	23.8
Zimbabwe	657	256,729	12,260	948	20,000	1,547	38.7
Sub-Saharan Africa	816	19,808,919	3,884,061	5,427	5,453,293	7,619	

a. Highlighting indicates water-scarce country

Source: FAO, 2005a and current study.

Summary Table 3. Current Annual Water Withdrawals by Sector

Country	Year	Agriculture		Municipalities		Industries		Total		
		Volume (million m ³) (1)	Share of total (%) (2) = 100 x (1)/(7)	Volume (million m ³) (3)	Share of total (%) (4) = 100 x (3)/(7)	Volume (million m ³) (5)	Share of total (%) (6) = 100 x (5)/(7)	Volume (million m ³) (7) = (1) + (3) + (5)	Share of IRWR (%) (8)	Share of TRWR (%) (9)
Angola	2000	211	62	76	22	56	16	343	0.2	0.2
Benin	2001	59	45	41	32	30	23	130	1.3	0.5
Botswana	2000	80	41	79	41	35	18	194	8.1	1.6
Burkina Faso	2000	690	86	104	13	6	1	800	6.4	6.4
Burundi	2000	222	77	49	17	17	6	288	2.9	1.9
Cameroon	2000	728	74	178	18	79	8	985	0.4	0.3
Cape Verde	2000	20	91	2	7	0	2	22	7.3	7.3
Central African Republic	2000	1	5	17	77	4	18	22	0.0	0.0
Chad	2000	190	83	40	17			230	1.5	0.5
Comoros	1999	5	47	5	48	1	5	10	0.8	0.8
Congo	2002	4	9	32	70	10	21	46	0.0	0.0
Cote d'Ivoire	2000	604	65	217	23	110	12	931	1.2	1.1
Democratic Republic of Congo	2000	112	31	186	52	58	16	356	0.0	0.0
Djibouti	2000	3	16	16	84			19	6.3	6.3

(continued)

Summary Table 3. (continued)

Country	Year	Agriculture		Municipalities		Industries		Total		
		Volume (million m ³)	Share of total (%)	Volume (million m ³)	Share of total (%)	Volume (million m ³)	Share of total (%)	Volume (million m ³)	Share of total (%)	
		(1)	(2) = 100 x (1)/(7)	(3)	(4) = 100 x (3)/(7)	(5)	(6) = 100 x (5)/(7)	(7) = (1) + (3) + (5)	(8)	(9)
Equatorial Guinea	2000	1	1	88	83	17	17	106	0.4	0.4
Eritrea	2004	550	95	31	5	1	0	582	20.8	9.2
Ethiopia	2002	5,204	94	333	6	21	0	5,558	4.6	4.6
Gabon	2000	52	41	62	48	14	11	128	0.1	0.1
Gambia	2000	21	67	7	22	4	11	32	1.1	0.4
Ghana	2000	652	66	235	24	95	10	982	3.2	1.8
Guinea	2000	1,365	90	117	8	35	35	1,517	0.7	0.7
Guinea-Bissau	2000	144	82	23	13	8	8	175	1.1	0.6
Kenya	2003	2,165	79	470	17	100	100	2,735	13.2	8.9
Lesotho	2000	1	2	21	48	22	22	44	0.8	1.4
Liberia	2000	60	56	30	29	16	16	107	0.1	0.0
Madagascar	2000	14,313	96	423	3	234	2	14,970	4.4	4.4
Malawi	2000	810	80	148	15	47	5	1,005	6.2	5.8
Mali	2000	5,900	90	590	9	56	1	6,546	10.9	6.5
Mauritania	2000	1,500	88	150	9	48	3	1,698	424.5	14.9
Mauritius	2003	491	67	214	30	20	3	725	26.4	26.4

Mozambique	2000	550	87	70	11	15	2	635	0.6	0.3
Namibia	2000	213	71	73	24	14	5	300	49	1.7
Niger	2000	2,080	95	94	4	12	1	2,186	62.5	6.5
Nigeria	2000	5,507	69	1,687	21	810	10	8,004	3.6	2.8
Rwanda	2000	102	68	36	24	12	8	150	1.6	1.6
Sao Tome and Principe	1993							7	0.3	0.3
Senegal	2002	2,065	93	98	4	58	3	2,221	8.6	5.7
Seychelles	2003	1	7	8	65	3	28	12		
Sierra Leone	2000	354	93	20	5	7	2	380	0.2	0.2
Somalia	2000	3,281	100	15	1	2	0	3,298	55.0	23.2
South Africa	2000	7,836	63	3,904	31	756	6	12,496	279	25.0
Sudan	2000	36,069	97	987	3	258	1	37,314	124.4	57.9
Swaziland	2000	1,006	97	24	2	12	1	1,042	39.5	23.1
Togo	2002	76	45	89	53	4	2	169	1.5	1.1
Uganda	2002	120	40	134	45	46	15	300	0.8	0.5
United Republic of Tanzania	2002	4,632	89	527	10	25	1	5,184	6.2	5.6
Zambia	2000	1,320	76	286	16	131	8	1,737	2.2	1.7
Zimbabwe	2002	3,318	79	589	14	298	7	4,205	34.3	21.0
Sub-Saharan Africa		104,687	87	12,624	10	3,607	3	120,925	3.1	2.2

Source: FAO, 2005a.

Summary Table 4. Area Under Irrigation

Country	Year	Full/partial irrigation (ha) (1)	Spate irrigation (ha) (2)	Equipped lowlands (ha) (3)	Total irrigation (ha) (4)=(1)+ (2)+(3)	Share of cultivated area (%) (5)	Part of equipped area actually irrigated (%) (6)	Annual rate of increase in equipped area (%) (7)
Angola	1975	80,000			80,000	2.4	44	
Benin	2002	10,973		1,285	12,258	0.4	23	2.3
Botswana	2002	1,439			1,439	0.4		0.4
Burkina Faso	2001	18,600		6,400	25,000	0.6	100	0.3
Burundi	2000	6,960		14,470	21,430	1.6		2.7
Cameroon	2000	22,450	2,800	404	25,654	0.4		1.6
Cape Verde	1997	2,780			2,780	6.2	66	0.0
Central African Republic	1987	135			135	0.0	51	
Chad	2002	30,273			30,273	0.8	87	5.7
Comoros	1987	130			130	0.1	65	
Congo	1993	217		1,783	2,000	1.0	11	
Cote d'Ivoire	1994	47,750		25,000	72,750	1.1	92	
Democratic Republic of Congo	1995	10,000		500	10,500	0.1	70	
Djibouti	1999	1,012			1,012	100.0	38	4.1
Equatorial Guinea					0	0.0		

Eritrea	1993	4,100	17,490	21,590	4.3	62	6.2
Ethiopia	2001	289,530		289,530	2.5		
Gabon	1987	3,150	1,300	4,450	1.0		
Gambia	1999	2,149		2,149	1.0	65	3.2
Ghana	2000	30,900		30,900	0.5	90	30.1
Guinea	2002	20,386	74,528	94,914	6.2	100	0.3
Guinea-Bissau	1996	8,562	13,996	22,558	5.1	100	14.8
Kenya	2003	103,203		103,203	2.0	94	4.1
Lesotho	1999	2,637		2,637	0.8	3	
Liberia	1987	100	2,000	2,100	0.3		
Madagascar	2000	1,086,291		1,086,291	31.0	100	0.0
Malawi	2002	56,390		56,390	2.3	96	7.3
Mali	2000	97,499	138,292	235,791	5.0	75	20.1
Mauritania	1994	45,012		45,012	9.4	51	
Mauritius	2002	21,222		21,222	20.0	98	2.8
Mozambique	2001	118,120		118,120	2.8	34	1.3
Namibia	2002	7,573		7,573	0.9	100	2.1
Niger	2005	13,663	60,000	73,663	1.6	89	0.9
Nigeria	2004	238,117	55,000	293,117	0.9	75	1.8
Rwanda	2000	3,500	5,000	8,500	0.7		11.4
Sao Tome and Principe	1991	9,700		9,700	23.7		

(continued)

Summary Table 4. (continued)

Country	Year	Full/partial irrigation (ha) (1)	Spate irrigation (ha) (2)	Equipped lowlands (ha) (3)	Total irrigation (ha) (4)=(1)+ (2)+(3)	Share of cultivated area (%) (5)	Part of equipped area actually irrigated (%) (6)	Annual rate of increase in equipped area (%) (7)
Senegal	2002	102,180		17,500	119,680	4.8	58	6.7
Seychelles	2003	260			260	3.7	77	
Sierra Leone	1992	1,000		28,360	29,360	5.4		
Somalia	2003	50,000	150,000		200,000	18.7	33	0.0
South Africa	2000	1,498,000			1,498,000	9.5	100	2.8
Sudan	2000	1,730,970	132,030		1,863,000	11.2	43	-0.9
Swaziland	2000	49,843			49,843	26.2	90	
Togo	1996	2,300		5,000	7,300	0.3	86	0.7
Uganda	1998	5,580		3,570	9,150	0.1	64	0.0
United Republic of Tanzania	2002	184,330			184,330	3.6		2.3
Zambia	2002	55,387		100,525	155,912	2.9	100	12.9
Zimbabwe	1999	173,513			173,513	5.2	71	6.9
Sub-Saharan Africa		6,247,886	302,320	554,913	7,105,119	3.9		
Sub-Saharan Africa excluding the three largest irrigation countries		1,932,625	170,290	554,913	2,657,828	1.8		

Source: FAO, 2005a.

Summary Table 5. Water Managed Area

Country	Year	Area equipped for irrigation (ha) ^a (1)	Non-equipped cultivated wetlands & valley bottoms (ha) (2)	Non-equipped flood recession cropping area (ha) (3)	Total water managed area (ha) (4)=(1)+(2)+(3)	Share of irrigation potential (%) (5)	Share of cultivated area (%) (6)
Angola	1975	80,000	320,000		400,000	6	11.8
Benin	2002	12,258	6,988		19,246	6	0.7
Botswana	2002	1,439		6,500	7,939	61	2.1
Burkina Faso	2001	25,000	21,400		46,400	28	1.1
Burundi	2000	21,430	83,000		104,430	49	7.9
Cameroon	2000	25,654			25,654	9	0.4
Cape Verde	1997	2,780			2,780	89	6.2
Central African Republic	1987	135	500		635	0	0.0
Chad	2002	30,273		125,000	155,273	46	4.3
Comoros	1987	130			130	43	0.1
Congo	1993	2,000			2,000	1	1.0
Cote d'Ivoire	1994	72,750	16,250		89,000	19	1.4
Democratic Republic of Congo	1995	10,500	2,000	1,000	13,500	0	0.2
Djibouti	1999	1,012			1,012	42	100.0
Equatorial Guinea					0	0	0.0
Eritrea	1993	21,590			21,590	12	4.3

(continued)

Summary Table 5. (continued)

Country	Year	Area equipped for irrigation (ha) ^a (1)	Non-equipped cultivated wetlands & valley bottoms (ha) (2)	Non-equipped flood recession cropping area (ha) (3)	Total water managed area (ha) (4)=(1)+(2)+(3)	Share of irrigation potential (%) (5)	Share of cultivated area (%) (6)
Ethiopia	2001	289,530			289,530	11	2.5
Gabon	1987	4,450			4,450	1	1.0
Gambia	1999	2,149	13,170		15,319	19	6.8
Ghana	2000	30,900			30,900	2	0.5
Guinea	2002	94,914			94,914	18	6.2
Guinea-Bissau	1996	22,558	29,368		51,926	18	11.7
Kenya	2003	103,203	6,415		109,618	31	2.1
Lesotho	1999	2,637			2,637	21	0.8
Liberia	1987	2,100	18,000		20,100	3	3.3
Madagascar	2000	1,086,291		9,750	1,096,041	72	31.3
Malawi	2002	56,390	61,900		118,290	73	4.8
Mali	2000	235,791	32,786	60,000	295,791	52	6.3
Mauritania	1994	45,012		30,984	108,782	44	22.7
Mauritius	2002	21,222			21,222	64	20.0
Mozambique	2001	118,120			118,120	4	2.8
Namibia	2002	7,573		2,000	9,573	20	1.2
Niger	2000	73,663		12,000	85,663	32	1.9

Nigeria	2004	293,117		681,914	975,031	42	3.0
Rwanda	2000	8,500	94,000		102,500	62	8.9
Sao Tome and Principe	1991	9,700			9,700	91	23.7
Senegal	2002	119,680		30,000	149,680	37	6.0
Seychelles	2003	260			260	26	3.7
Sierra Leone	1992	29,360	126,000		155,360	19	28.8
Somalia	2003	200,000			200,000	83	18.7
South Africa	2000	1,498,000			1,498,000	100	9.5
Sudan	2000	1,863,000			1,863,000	67	11.2
Swaziland	2000	49,843			49,843	53	26.2
Togo	1996	7,300			7,300	4	0.3
Uganda	1998	9,150	49,780		58,930	65	0.8
United Republic of Tanzania	2002	184,330			184,330	9	3.6
Zambia	2002	155,912	100,000	10	255,922	49	4.8
Zimbabwe	1999	173,513	20,000		193,513	53	5.8
Sub-Saharan Africa		7,105,119	1,001,557	959,158	9,065,834	23	5.0
Sub-Saharan Africa excluding the three largest irrigation countries		2,657,828	1,001,557	949,408	4,608,793	14	3.1

a. From column 4, Summary Table 4.

Source: FAO, 2005a.

Country ^f	Summary Table 6. Projected Annual Water Withdrawals and Balance of Total Renewable Water Resources											
	Irrigation demand at full development of potential ^e			Projected 2030 urban and industrial demand ^b			Total urban and industrial irrigation demand					
	Potential irrigation area (ha) (1)	Volume (million m ³) (2)	Share of IRWR ^c (%) (3)	Share of TRWR ^d (%) (4)	Volume (million m ³) (5)	Share of IRWR ^c (%) (6)	Share of TRWR ^d (%) (7)	Volume (million m ³) (8) = (2)+(5)	Share of IRWR ^c (%) (9)	Share of TRWR ^d (%) (10)	Volume (million m ³) (11)	Balance of TRWR m ³ /2030 inhabitant ^e (12)
Angola	3,700,000	59,200	40.0	40.0	570	0.4	0.4	59,770	40.4	40.4	88,230	3,298
Benin	322,000	5,152	50.0	19.5	292	2.8	1.1	5,444	52.9	20.6	20,949	1,594
Botswana	13,000	208	8.7	1.7	493	20.5	4.0	701	29.2	5.7	11,539	3,383
Burkina Faso ^d	165,000	2,640	21.1	21.1	475	3.8	3.8	3,115	24.9	24.9	9,385	369
Burundi	215,000	3,440	34.2	22.2	285	2.8	1.8	3,725	37.0	24.1	11,759	875
Cameroon	290,000	4,640	1.7	1.6	1,111	0.4	0.4	5,751	2.1	2.0	279,749	9,034
Cape Verde	3,109	50	16.6	16.6	9	2.9	2.9	58	19.5	19.5	242	269
Central African Republic	1,900,000	30,400	21.6	21.1	91	0.1	0.1	30,491	21.6	21.1	113,909	15,323
Chad	335,000	5,360	35.7	12.5	173	1.2	0.4	5,533	36.9	12.9	37,467	2,227
Comoros	300	5	0.4	0.4	24	2.0	2.0	29	2.4	2.4	1,171	780
Congo	340,000	5,440	2.5	0.7	165	0.1	0.0	5,605	2.5	0.7	826,395	113,902
Cote d'Ivoire	475,000	7,600	9.9	9.4	1,413	1.8	1.7	9,013	11.7	11.1	72,127	2,246

Democratic Republic of Congo	7,000,000	112,000	12.4	8.7	1,055	0.1	0.1	113,055	12.6	8.8	1,169,945	11,314
Djibouti	2,400	38	12.8	12.8	69	23.1	23.1	108	35.9	35.9	192	142
Equatorial Guinea	30,000	480	1.8	1.8	454	1.7	1.7	934	3.6	3.6	25,066	26,017
Eritrea	187,500	3,000	1071	47.6	114	4.1	1.8	3,114	111.2	49.4	3,186	390
Ethiopia	2,700,000	43,200	35.4	35.4	1,388	1.1	1.1	44,588	36.5	36.5	77,412	563
Gabon	440,000	7,040	4.3	4.3	328	0.2	0.2	7,368	4.5	4.5	156,632	61,010
Gambia	80,000	1,280	42.7	16.0	45	1.5	0.6	1,325	44.2	16.6	6,675	2,402
Ghana	1,900,000	30,400	100.3	57.1	1,426	4.7	2.7	31,826	105.0	59.8	21,374	526
Guinea	520,000	8,320	3.7	3.7	657	0.3	0.3	8,977	4.0	4.0	217,023	13,249
Guinea-Bissau	281,290	4,501	28.1	14.5	134	0.8	0.4	4,635	29.0	15.0	26,365	9,021
Kenya	353,060	5,649	27.3	18.4	2,128	10.3	6.9	7,777	37.6	25.3	22,923	372
Lesotho	12,500	200	3.8	6.6	186	3.6	6.1	386	7.4	12.8	2,636	771
Liberia	600,000	9,600	4.8	4.1	202	0.1	0.1	9,802	4.9	4.2	222,198	33,533
Madagascar	1,516,819	24,269	7.2	7.2	2,840	0.8	0.8	27,109	8.0	8.0	309,891	9,110
Malawi	161,900	2,590	16.0	15.1	843	5.2	4.9	3,433	21.3	20.0	13,775	588
Mali	566,000	9,056	15.1	9.1	2,792	4.7	2.8	11,848	19.7	11.8	88,152	3,460

(continued)

Summary Table 6. (continued)

Country ^f	Irrigation demand at full development of potential ^a				Projected 2030 urban and industrial demand ^b				Total urban and industrial irrigation demand				Balance of TRWR
	Potential irrigation area (ha) (1)	Volume (million m ³) (2)	Share of IRWR ^c (%) (3)	Share of TRWR ^d (%) (4)	Volume (million m ³) (5)	Share of IRWR ^c (%) (6)	Share of TRWR ^d (%) (7)	Volume (million m ³) (8) = (2)+(5)	Share of IRWR ^c (%) (9)	Share of TRWR ^d (%) (10)	Volume (million m ³) (11)	m ³ /2030 inhabitant ^f (12)	
		IRWR ^c (%) (3)	Share of TRWR ^d (%) (4)	Share of IRWR ^c (%) (6)		Share of TRWR ^d (%) (7)	Share of IRWR ^c (%) (9)		Share of TRWR ^d (%) (10)				
Mauritania	250,000	4,000	1,000.0	35.1	856	213.9	7.5	4,856	1213.9	42.6	6,544	1,156	
Mauritius	33,000	528	19.2	19.2	874	31.8	31.8	1,402	50.9	50.9	1,349	576	
Mozambique	3,072,000	49,152	49.0	22.6	367	0.4	0.2	49,519	49.4	22.8	167,581	4,597	
Namibia	47,300	757	12.3	4.3	376	6.1	2.1	1,133	18.4	6.4	16,582	4,339	
Niger	270,000	4,320	123.4	12.8	458	13.1	1.4	4,778	136.5	14.2	28,872	1,224	
Nigeria	2,330,510	37,288	16.9	13.0	10,792	4.9	3.8	48,080	21.8	16.8	238,120	986	
Rwanda	165,000	2,640	27.8	27.8	207	2.2	2.2	2,847	30.0	30.0	6,653	413	
Sao Tome and Principe	10,700	171	7.9	7.9	0	0.0	0.0	171	7.9	7.9	2,009	6,407	
Senegal	409,000	6,544	25.4	16.9	612	2.4	1.6	7,156	27.7	18.4	31,644	1,611	
Seychelles	1,000	16			43			59			—	—	
Sierra Leone	807,000	12,912	8.1	8.1	114	0.1	0.1	13,026	8.1	8.1	146,974	14,966	
Somalia	240,000	3,840	64.0	27.0	73	1.2	0.5	3,913	65.2	27.6	10,287	525	
South Africa	1,500,000	24,000	53.6	48.0	20,140	45.0	40.3	44,140	98.5	88.3	5,860	68	
Sudan	2,784,000	44,544	148.5	69.1	5,381	17.9	8.3	49,925	166.4	77.4	14,575	223	

Swaziland	93,220	1,492	56.5	33.1	156	5.9	3.4	1,647	62.4	36.5	2,863	1,391
Togo	180,000	2,880	25.0	19.6	365	3.2	2.5	3,245	28.2	22.1	11,455	1,202
Uganda	90,000	1,440	3.7	2.2	706	1.8	1.1	2,146	5.5	3.3	63,854	1,259
United Republic of Tanzania	2,132,221	34,116	40.6	36.7	2,164	2.6	2.3	36,279	43.2	39.0	56,721	792
Zambia	523,000	8,368	10.4	8.0	1,802	2.2	1.7	10,170	12.7	9.7	95,030	4,578
Zimbabwe	365,624	5,850	47.7	29.2	3,477	28.4	17.4	9,327	76.1	46.6	10,673	434
Sub-Saharan Africa	39,413,453	630,615	16.2	11.6	68,723	1.8	1.3	699,338	18.0	12.8	4,753,955	3,495

a. Assumes an average irrigation requirement of 16,000 m³/ha.

b. Assumes 5 percent per year growth in demand from base year shown in Summary Table 4 to 2030.

c. IRWR = Internal Renewable Water Resources.

d. TRWR = Total Renewable Water Resources.

e. Assumes 2.5 percent growth in population between 2004 and 2030.

f. Highlighting indicates water-scarce country in 2030.

Source: FAO, 2005a and current study.