

Table 8. Land use and agricultural productivity

Economy	Agricultural productivity 1987 dollars										Food production index 1989-91 = 100	
	Cropland % of land area		Irrigated land % of cropland		Arable land Hectares per capita		Agr. value added per agricultural worker		Agr. value added per hectare of agr. land		1979-81	1994-96
	1980	1995	1979-81	1994-96	1979-81	1994-96	1979-81	1994-96	1979-81	1992-94	1979-81	1994-96
Albania	26	26	53.0	48.4	0.22	0.18	908	1,161	565	752	..	..
Algeria	3	3	3.4	6.9	0.37	0.27	2,713	3,612	109	180	71	115
Angola	3	3	2.2	2.1	0.41	0.28	..	149	..	9	92	126
Argentina	10	10	5.8	6.3	0.89	0.72	6,248	7,028	51	62	95	116
Armenia	..	25	..	44.7	..	0.15	..	1,275	..	261	..	78
Australia	6	6	3.5	4.9	2.97	2.65	17,222	22,256	16	21	92	118
Austria	20	18	0.2	0.3	0.20	0.18	10,695	15,659	956	1,088	92	101
Azerbaijan	..	23	..	50.0	..	0.21	..	..	..	..	..	55
Bangladesh	70	67	17.1	37.3	0.10	0.07	187	226	587	863	79	103
Belarus	..	30	..	1.9	..	0.59	..	3,023	..	380	..	68
Belgium	..	..	..	..	..	..	..	..	..	..	..	..
Benin	16	17	0.3	0.5	0.39	0.26	374	563	188	321	63	126
Bolivia	2	2	6.6	3.7	0.35	0.29	1,135	..	42	..	71	120
Brazil	6	8	3.3	4.9	0.32	0.32	1,217	2,384	93	119	70	117
Bulgaria	38	38	28.3	19.0	0.43	0.48	4,446	6,240	650	513	105	68
Burkina Faso	10	13	0.4	0.7	0.40	0.33	155	182	64	93	63	121
Burundi	46	43	0.7	1.3	0.24	0.15	218	177	212	270	80	94
Cambodia	12	22	4.9	4.5	0.30	0.39	..	131	..	86	51	116
Cameroon	15	15	0.2	0.3	0.68	0.46	861	827	252	313	83	114
Canada	5	5	1.3	1.6	1.86	1.54	12,317	30,202	131	154	80	111
Central African Republic	3	3	..	..	0.81	0.60	456	516	96	119	80	111
Chad	3	3	0.2	0.4	0.70	0.51	148	198	6	10	91	117
Chile	6	6	29.6	29.9	0.36	0.28	1,729	3,042	79	150	72	125
China	11	10	45.1	51.8	0.10	0.08	113	193	106	184	61	144
Hong Kong, China	7	7	43.5	28.6	0.00	0.00	..	..	..	..	97	52
Colombia	5	6	7.7	16.6	0.13	0.07	1,579	2,172	123	165	76	109
Congo, Dem. Rep.	3	3	0.1	0.1	0.26	0.17	218	219	83	113	72	106
Congo, Rep.	0	0	0.7	0.6	0.08	0.06	544	629	21	28	80	112
Costa Rica	10	10	12.1	23.8	0.12	0.09	2,544	3,790	280	373	73	123
Côte d'Ivoire	10	13	1.4	1.7	0.24	0.21	1,527	1,354	195	212	71	118
Croatia	..	22	..	0.2	..	0.23	..	..	..	..	..	57
Czech Republic	..	44	..	0.7	..	0.30	..	..	..	..	..	82
Denmark	63	55	14.5	20.1	0.52	0.45	18,790	38,131	1,166	1,684	83	102
Dominican Republic	29	39	11.7	13.7	0.19	0.17	1,325	1,587	251	262	85	104
Ecuador	9	11	19.4	8.1	0.20	0.14	1,267	1,790	194	259	77	131
Egypt, Arab Rep.	2	3	100.0	100.0	0.06	0.05	757	1,331	2,691	2,990	68	118
El Salvador	35	37	14.8	15.8	0.12	0.10	1,417	1,300	733	674	91	107
Estonia	..	27	..	..	..	0.76	..	6,266	..	526	..	56
Ethiopia	..	12	..	1.7	..	0.20	..	181	..	116	90	..
Finland	..	..	..	..	0.54	0.50	20,171	31,457	2,100	2,072	93	92
France	34	35	4.6	8.0	0.32	0.32	13,699	30,035	838	1,113	94	101
Gabon	2	2	0.9	0.8	0.42	0.29	1,412	1,516	67	74	80	107
Georgia	..	16	..	42.0	..	0.15	..	..	..	..	..	71
Germany	36	35	3.7	3.9	0.15	0.14	..	..	..	..	91	89
Ghana	16	20	0.2	0.1	0.18	0.17	813	684	215	227	73	143
Greece	30	27	24.2	38.0	0.30	0.23	5,595	7,720	685	766	91	102
Guatemala	16	18	5.0	6.5	0.18	0.13	..	1,240	..	503	70	111
Guinea	3	4	12.8	10.9	0.13	0.10	..	225	..	54	97	126
Guinea-Bissau	10	12	6.0	5.0	0.32	0.28	186	292	54	78	69	111
Haiti	32	33	7.9	9.6	0.10	0.08	..	..	..	..	106	91
Honduras	16	18	4.1	3.6	0.43	0.29	959	1,490	200	268	88	104
Hungary	58	54	3.6	4.2	0.47	0.47	..	4,679	..	485	91	73
India	57	57	22.8	29.5	0.24	0.18	304	404	338	520	68	115
Indonesia	14	17	16.2	15.2	0.12	0.09	422	481	376	519	64	119
Ireland	16	19	..	..	0.33	0.37	..	..	..	..	83	105
Israel	20	21	49.3	44.6	0.08	0.06	..	..	..	..	86	108
Italy	42	37	19.3	24.7	0.17	0.14	10,516	17,876	1,650	1,964	101	102
Jamaica	22	22	13.6	14.3	0.08	0.07	711	1,045	433	591	86	116
Japan	13	12	62.6	61.8	0.04	0.03	9,832	16,712	11,279	12,445	94	98
Jordan	4	5	11.0	18.2	0.14	0.08	3,129	2,769	224	461	61	148
Kazakhstan	..	12	..	7.0	..	2.00	..	..	..	..	..	70
Kenya	8	8	0.9	1.5	0.23	0.15	268	240	68	90	68	101
Korea, Rep.	22	20	59.6	66.5	0.05	0.04	1,950	5,302	5,229	6,961	78	115
Kyrgyz Republic	..	7	..	77.6	..	0.25	..	69	..	4	..	81
Lao PDR	3	4	15.4	18.4	0.21	0.19	..	..	..	..	71	115
Latvia	..	28	..	..	..	0.68	..	3,870	..	349	..	57
Lebanon	30	30	28.1	28.7	0.07	0.05	..	..	..	..	58	117
Lesotho	..	..	..	..	0.22	0.16	291	194	35	24	89	109
Lithuania	..	46	..	..	..	0.79	..	..	..	..	..	65
Macedonia, FYR	..	26	..	9.9	..	0.31	..	..	..	..	..	96
Madagascar	5	5	21.5	35.0	0.29	0.20	190	178	26	34	82	104
Malawi	14	18	1.3	1.6	0.21	0.17	162	156	145	153	91	102
Malaysia	15	23	6.7	4.5	0.07	0.09	2,235	4,052	941	942	55	122
Mali	2	3	2.9	2.6	0.31	0.33	251	259	24	33	80	114
Mauritania	0	0	25.1	23.6	0.12	0.09	..	..	5	7	86	100

Note: For data comparability and coverage, see the Technical Notes. Figures in italics are for years other than those specified.

## ENVIRONMENT

Economy	Agricultural productivity 1987 dollars											
	Cropland % of land area		Irrigated land % of cropland		Arable land Hectares per capita		Agr. value added per agricultural worker		Agr. value added per hectare of agr. land		Food production index 1989-91 = 100	
	1980	1995	1979-81	1994-96	1979-81	1994-96	1979-81	1994-96	1979-81	1992-94	1979-81	1994-96
Mauritius	53	52	15.0	17.0	0.10	0.09	1,764	3,762	1,607	1,902	89	104
Mexico	13	14	20.3	23.5	0.35	0.27	1,372	1,518	109	123	85	117
Moldova	..	66	..	14.1	..	0.41	..	..	..	..	..	63
Mongolia	1	1	3.0	6.1	0.71	0.54	..	..	..	..	88	80
Morocco	18	21	15.0	13.5	0.39	0.33	565	919	78	111	56	101
Mozambique	4	4	2.1	3.4	0.24	0.17	..	92	..	12	99	106
Namibia	1	1	0.6	0.8	0.64	0.51	1,295	1,458	8	9	108	107
Nepal	16	21	22.5	31.0	0.16	0.13	173	198	271	406	65	109
Netherlands	24	27	58.5	61.5	0.06	0.06	23,131	41,245	3,489	5,932	87	104
New Zealand	13	12	5.2	9.1	0.80	0.44	10,693	13,373	86	132	91	117
Nicaragua	11	23	6.0	3.3	0.41	0.55	3,268	3,697	212	155	118	120
Niger	..	..	..	..	0.63	0.53	292	256	57	63	101	120
Nigeria	33	36	0.7	0.7	0.39	0.28	479	684	111	150	58	132
Norway	..	..	..	..	0.20	0.22	19,593	34,809	3,172	3,403	92	99
Oman	0	0	92.7	98.4	0.01	0.01	1,041	..	155	328	63	88
Pakistan	26	28	72.7	79.8	0.24	0.16	323	466	227	382	66	125
Panama	7	9	5.0	4.8	0.22	0.19	1,954	2,320	208	246	86	102
Papua New Guinea	1	1	..	..	0.01	0.01	671	752	1,756	2,186	86	106
Paraguay	4	6	3.4	3.0	0.52	0.46	1,698	2,204	49	54	61	113
Peru	3	3	33.0	41.2	0.19	0.16	..	..	..	..	78	123
Philippines	29	32	14.0	16.7	0.11	0.08	777	780	782	835	86	116
Poland	49	48	0.7	0.7	0.41	0.37	..	1,359	..	366	88	83
Portugal	34	33	20.1	20.9	0.25	0.23	..	..	..	715	72	97
Romania	46	43	21.9	31.3	0.44	0.41	..	3,007	..	393	111	97
Russian Federation	..	8	..	4.0	..	0.88	..	..	..	..	..	71
Rwanda	41	47	0.4	0.3	0.15	0.13	306	206	445	378	90	72
Saudi Arabia	1	2	28.9	38.7	0.20	0.20	1,641	..	23	..	31	95
Senegal	12	12	2.6	3.1	0.42	0.28	328	375	92	118	75	106
Sierra Leone	7	8	4.1	5.4	0.14	0.11	365	344	117	123	85	95
Singapore	13	2	..	..	0.00	0.00	8,791	20,215	18,956	72,942	154	42
Slovak Republic	..	33	..	18.6	..	0.28	..	..	..	497	..	76
Slovenia	..	14	..	0.7	..	0.12	..	..	..	..	..	96
South Africa	11	13	8.4	8.1	0.46	0.40	2,361	2,870	45	49	93	98
Spain	41	40	14.8	17.8	0.42	0.39	..	8,699	..	496	82	95
Sri Lanka	29	29	28.4	29.2	0.06	0.05	489	561	592	801	98	108
Sweden	..	..	..	..	0.36	0.31	18,485	28,590	1,263	1,577	100	96
Switzerland	10	11	6.2	5.8	0.06	0.06	..	..	..	..	96	97
Syrian Arab Republic	31	32	9.6	18.1	0.60	0.37	3,426	..	212	..	94	134
Tajikistan	..	6	..	83.5	..	0.14	..	..	..	..	..	70
Tanzania	3	4	4.1	4.9	0.12	0.11	..	..	..	..	77	98
Thailand	36	40	16.4	23.5	0.35	0.29	375	554	338	488	80	108
Togo	43	45	0.3	0.3	0.76	0.51	404	461	119	189	77	117
Trinidad and Tobago	23	24	17.8	18.0	0.06	0.06	4,822	3,586	1,801	1,245	102	105
Tunisia	30	31	4.9	7.4	0.51	0.32	1,384	2,286	142	232	68	99
Turkey	37	35	9.6	15.3	0.57	0.40	1,208	1,168	354	404	76	105
Turkmenistan	..	3	..	87.8	..	0.31	..	..	..	..	..	121
Uganda	28	34	0.1	0.1	0.32	0.27	..	592	..	515	71	107
Ukraine	..	59	..	7.5	..	0.64	..	..	..	..	..	70
United Arab Emirates	0	1	237.7	86.8	0.01	0.02	8,928	..	970	2,076	47	169
United Kingdom	29	25	2.0	1.8	0.12	0.10	..	..	..	..	92	101
United States	21	21	10.8	11.4	0.83	0.71	17,719	..	156	261	95	113
Uruguay	8	7	5.4	10.7	0.48	0.40	5,379	6,535	65	80	87	123
Uzbekistan	..	11	..	88.9	..	0.18	..	1,228	..	150	..	108
Venezuela	4	4	3.6	5.2	0.19	0.13	3,103	3,270	110	139	78	120
Vietnam	20	21	24.1	29.6	0.11	0.08	..	801	..	2,640	64	127
Yemen, Rep.	3	3	19.9	31.3	0.16	0.10	..	..	..	..	75	113
Zambia	7	7	0.4	0.9	0.89	0.59	116	100	6	7	74	97
Zimbabwe	7	8	3.1	4.5	0.36	0.27	294	266	34	41	82	92
<b>World</b>	<b>11 w</b>	<b>11 w</b>	<b>16.6 w</b>	<b>17.6 w</b>	<b>0.27 w</b>	<b>0.24 w</b>	<b>.. w</b>	<b>.. w</b>	<b>.. w</b>	<b>.. w</b>	<b>80 w</b>	<b>116 w</b>
<b>Low income</b>	13	14	18.6	22.8	0.26	0.19	..	397	142	183	73	116
<b>Middle income</b>	9	10	20.9	18.2	0.19	0.22	..	..	..	197	72	124
Lower middle income	10	10	30.2	21.8	0.14	0.20	..	..	..	256	68	133
Upper middle income	8	9	8.3	10.1	0.39	0.33	..	..	..	126	81	109
<b>Low &amp; middle income</b>	10	11	19.8	19.9	0.22	0.21	..	459	..	206	72	122
East Asia & Pacific	11	12	..	..	0.12	0.09	..	..	..	..	65	139
Europe & Central Asia	..	13	..	9.8	..	0.61	..	..	..	..	..	..
Latin America & Carib.	7	8	9.8	11.1	0.33	0.28	1,586	2,292	90	116	80	115
Middle East & N. Africa	5	6	23.5	31.2	0.29	0.21	1,918	..	185	..	67	118
South Asia	44	45	27.8	35.1	0.23	0.17	290	383	337	519	70	115
Sub-Saharan Africa	6	7	3.7	4.0	0.36	0.26	458	392	53	68	79	113
<b>High income</b>	..	..	..	..	0.46	0.41	..	..	..	..	92	106