



# 3.3

## Agricultural output and productivity

	Crop production index		Food production index		Livestock production index		Cereal yield		Agricultural productivity	
	1999-2001 = 100		1999-2001 = 100		1999-2001 = 100		kilograms per hectare		Agriculture value added per worker 2000 \$	
	1990-92	2003-05	1990-92	2003-05	1990-92	2003-05	1990-92	2005-07	1990-92	2003-05
Afghanistan	97.4	135.9	78.3	116.5	64.1	99.5	1,153	1,650	..	..
Albania	87.5	102.4	72.0	109.4	63.9	113.0	2,372	3,580	778	1,449
Algeria	86.3	136.6	83.3	123.1	80.7	106.6	915	1,465	1,911	2,225
Angola	60.3	154.3	64.9	136.3	75.6	99.9	378	526	165	174
Argentina	67.3	112.6	73.9	107.0	89.1	97.3	2,652	4,077	6,767	10,072
Armenia	106.4 <sup>a</sup>	126.6	104.4 <sup>a</sup>	122.6	101.3 <sup>a</sup>	115.5	1,843 <sup>a</sup>	1,605	1,476 <sup>a</sup>	3,692
Australia	60.3	97.9	68.7	98.9	83.3	94.9	1,739	1,411	20,839	29,908
Austria	93.4	98.5	95.8	98.1	97.3	97.8	5,400	5,917	12,048	21,920
Azerbaijan	135.4 <sup>a</sup>	129.3	103.3 <sup>a</sup>	127.9	94.7 <sup>a</sup>	122.0	2,113 <sup>a</sup>	2,637	1,084 <sup>a</sup>	1,143
Bangladesh	75.6	107.7	74.0	107.5	73.8	105.1	2,567	3,769	254	338
Belarus	113.0 <sup>a</sup>	126.0	127.2 <sup>a</sup>	114.6	141.2 <sup>a</sup>	104.2	2,739 <sup>a</sup>	2,767	1,977 <sup>a</sup>	3,153
Belgium	77.6 <sup>b</sup>	107.3	87.8 <sup>b</sup>	100.1	93.8 <sup>b</sup>	96.9	6,122 <sup>b</sup>	8,248	..	39,243
Benin	58.4	118.2	62.6	119.7	87.9	112.4	880	1,173	326	519
Bolivia	63.7	119.6	68.9	115.3	76.9	108.4	1,384	1,939	670	773
Bosnia and Herzegovina	106.5 <sup>a</sup>	106.7	115.4 <sup>a</sup>	106.9	137.8 <sup>a</sup>	107.6	3,548 <sup>a</sup>	3,922	..	8,270
Botswana	96.4	112.4	114.4	106.2	118.2	104.7	312	508	536	390
Brazil	77.3	125.2	71.0	122.6	65.3	121.1	1,916	3,206	1,507	3,119
Bulgaria	148.7	102.6	144.9	99.2	143.3	97.6	3,633	3,010	2,500	7,159
Burkina Faso	74.0	124.6	73.3	114.7	68.0	115.6	783	1,132	110	173
Burundi	112.6	105.3	112.3	105.3	134.7	99.9	1,370	1,316	108	70
Cambodia	65.4	109.6	64.6	110.8	65.9	110.3	1,356	2,482	..	314
Cameroon	71.5	108.9	74.2	108.2	85.5	100.6	1,166	1,355	389	648
Canada	..	..	..	..	..	..	2,559	3,083	28,243	44,133
Central African Republic	74.0	96.5	69.8	108.8	68.1	117.6	883	1,100	287	381
Chad	68.4	111.2	72.1	110.7	84.8	107.6	636	907	173	215
Chile	78.5	115.9	73.8	114.2	67.9	111.1	3,949	6,073	3,573	5,309
China	70.0	113.9	61.3	116.7	49.4	122.5	4,307	5,322	258	407
Hong Kong, China	..	..	..	..	..	..	..	..	..	..
Colombia	96.6	112.1	82.5	112.2	80.4	112.6	2,492	3,792	3,080	2,749
Congo, Dem. Rep.	124.5	96.8	121.3	97.1	101.4	96.3	794	772	184	149
Congo, Rep.	80.0	106.4	78.9	108.8	75.8	118.8	688	788	..	..
Costa Rica	71.3	103.8	71.3	104.5	79.7	100.7	3,188	3,110	3,143	4,506
Côte d'Ivoire	73.9	96.5	74.1	101.7	75.6	124.7	863	1,785	598	795
Croatia	80.3 <sup>a</sup>	90.6	92.3 <sup>a</sup>	93.3	126.4 <sup>a</sup>	101.0	3,975 <sup>a</sup>	5,215	4,915 <sup>a</sup>	9,975
Cuba	112.1	112.3	116.6	107.5	130.4	89.0	2,092	2,742	..	..
Czech Republic	..	95.8	..	94.6	..	93.4	..	4,480	..	5,521
Denmark	103.7	99.8	93.8	102.3	89.0	103.5	5,448	5,863	15,190	38,441
Dominican Republic	118.9	106.4	99.5	108.9	79.1	111.6	4,078	4,426	2,268	4,586
Ecuador	79.5	103.1	72.9	110.1	65.8	117.2	1,724	2,751	1,686	1,676
Egypt, Arab Rep.	69.5	110.7	66.7	113.3	65.4	119.0	5,738	7,624	1,528	2,072
El Salvador	102.2	91.3	85.2	103.5	74.3	108.3	1,871	2,785	1,633	1,638
Eritrea	..	80.4	..	90.9	..	100.3	..	436	..	71
Estonia	123.5 <sup>a</sup>	92.0	151.3 <sup>a</sup>	99.0	167.5 <sup>a</sup>	103.0	1,304 <sup>a</sup>	2,644	3,002 <sup>a</sup>	3,129
Ethiopia	..	108.6	..	111.0	..	116.6	1,234	1,557	..	158
Finland	97.8	104.0	103.6	105.5	106.6	106.3	3,246	3,471	18,818	31,276
France	94.1	97.4	95.6	97.7	97.5	98.2	6,370	6,731	22,234	44,080
Gabon	87.3	102.3	89.2	101.8	86.8	100.0	1,712	1,648	1,176	1,592
Gambia, The	56.0	97.2	60.1	97.8	98.7	103.4	1,114	1,122	224	235
Georgia	115.6 <sup>a</sup>	94.3	97.3 <sup>a</sup>	104.3	79.3 <sup>a</sup>	113.7	1,998 <sup>a</sup>	1,650	2,443 <sup>a</sup>	1,791
Germany	84.0	96.5	97.5	98.9	108.4	100.6	5,578	6,538	13,724	25,657
Ghana	59.1	118.4	61.1	118.3	90.7	111.0	1,084	1,365	293	320
Greece	86.0	89.1	91.5	91.7	101.4	98.1	3,589	3,867	7,536	8,818
Guatemala	77.7	103.2	75.8	106.7	76.5	103.9	1,882	1,501	2,120	2,623
Guinea	74.0	110.8	72.9	113.7	60.6	115.6	1,423	1,433	142	190
Guinea-Bissau	71.3	104.6	73.3	105.5	81.1	109.8	1,529	1,544	205	238
Haiti	108.7	98.3	98.5	101.6	69.8	111.8	997	921	..	..

# Agricultural output and productivity

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	Crop production index		Food production index		Livestock production index		Cereal yield		Agricultural productivity	
	1999–2001 = 100		1999–2001 = 100		1999–2001 = 100		kilograms per hectare		Agriculture value added per worker 2000 \$	
	1990–92	2003–05	1990–92	2003–05	1990–92	2003–05	1990–92	2005–07	1990–92	2003–05
Honduras	92.5	129.4	87.2	158.2	69.1	180.3	1,371	1,519	1,193	1,483
Hungary	115.0	111.2	119.5	105.1	126.7	95.8	4,551	5,135	4,105	6,987
India	80.2	103.2	76.3	105.3	69.3	112.6	1,947	2,464	324	392
Indonesia	82.7	118.8	83.1	120.4	85.5	134.2	3,826	4,374	484	583
Iran, Islamic Rep.	74.8	117.1	72.8	114.1	68.2	105.2	1,523	2,481	1,954	2,561
Iraq	102.0	118.5	99.0	118.8	92.6	117.8	872	794	..	1,756
Ireland	94.1	105.2	94.1	98.2	94.3	97.1	6,653	7,185	..	17,107
Israel	97.6	111.9	83.2	115.2	72.9	117.5	3,132	3,153	..	..
Italy	97.5	97.2	96.2	96.8	95.0	95.8	4,340	5,311	11,528	23,967
Jamaica	85.0	97.2	85.3	98.9	86.8	102.0	1,298	1,211	2,016	1,889
Japan	113.0	93.0	109.4	96.5	106.9	99.7	5,713	6,013	20,445	35,668
Jordan	100.2	134.9	85.9	119.3	70.4	99.6	1,167	1,263	1,892	1,360
Kazakhstan	168.7 <sup>a</sup>	110.9	173.9 <sup>a</sup>	112.7	178.0 <sup>a</sup>	117.2	1,338 <sup>a</sup>	1,158	1,795 <sup>a</sup>	1,557
Kenya	84.9	103.3	85.3	106.4	85.4	110.4	1,645	1,723	334	333
Korea, Dem. Rep.	125.7	110.1	128.7	112.0	145.2	120.9	5,073	3,638	..	..
Korea, Rep.	88.3	93.1	80.3	96.8	68.1	101.7	5,885	6,291	5,679	11,286
Kuwait	33.9	122.3	30.0	115.0	27.9	110.9	3,112	2,621	..	13,521 <sup>a</sup>
Kyrgyz Republic	67.4 <sup>a</sup>	103.7	82.8 <sup>a</sup>	103.7	109.1 <sup>a</sup>	101.8	2,772 <sup>a</sup>	2,523	675 <sup>a</sup>	979
Lao PDR	62.3	113.8	59.3	115.4	60.2	112.9	2,355	3,517	360	459
Latvia	137.3 <sup>a</sup>	120.3	199.4 <sup>a</sup>	111.1	253.7 <sup>a</sup>	102.9	1,641 <sup>a</sup>	2,669	1,790 <sup>a</sup>	2,704
Lebanon	109.7	94.1	100.0	103.0	65.6	126.7	2,001	2,666	..	29,950
Lesotho	67.9	105.6	85.7	102.8	108.7	100.0	703	546	428	423
Liberia	62.4	99.2	77.7	97.5	89.9	109.7	951	1,156	..	..
Libya	79.5	98.5	77.8	99.2	75.8	100.5	706	617	..	..
Lithuania	77.5 <sup>a</sup>	104.5	133.1 <sup>a</sup>	103.7	184.7 <sup>a</sup>	103.0	1,938 <sup>a</sup>	2,625	..	4,760
Macedonia, FYR	107.1 <sup>a</sup>	99.9	106.2 <sup>a</sup>	101.1	103.8 <sup>a</sup>	104.2	2,652 <sup>a</sup>	2,938	2,256 <sup>a</sup>	3,487
Madagascar	92.3	105.6	91.6	104.6	93.2	101.0	1,935	2,493	186	174
Malawi	57.3	94.4	48.9	95.7	85.3	102.1	871	1,416	72	116
Malaysia	74.4	121.4	71.0	120.1	81.0	118.2	2,827	3,336	386	525
Mali	73.9	118.2	78.7	113.6	81.7	116.8	840	1,109	208	241
Mauritania	64.5	90.5	85.7	107.1	90.0	110.5	802	763	574	356
Mauritius	110.7	103.3	98.6	106.5	70.7	116.4	4,117	7,666	3,942	5,011
Mexico	83.0	106.8	76.6	108.8	71.2	110.1	2,520	3,145	2,256	2,793
Moldova	134.6 <sup>a</sup>	112.5	152.9 <sup>a</sup>	113.1	214.5 <sup>a</sup>	105.2	2,928 <sup>a</sup>	2,113	1,286 <sup>a</sup>	816
Mongolia	260.7	114.2	103.3	72.2	93.2	69.6	967	839	870	907
Morocco	100.9	139.3	93.5	126.3	81.0	102.2	1,094	986	1,430	1,746
Mozambique	64.2	108.7	69.4	106.5	94.5	101.3	330	949	107	148
Myanmar	61.7	119.6	61.8	121.3	64.2	128.5	2,739	3,629	..	..
Namibia	72.0	113.2	106.2	130.8	114.1	135.2	388	420	820	1,103
Nepal	73.7	114.2	75.3	112.9	80.1	110.0	1,831	2,271	191	207
Netherlands	93.4	98.0	100.9	93.4	104.4	91.4	7,145	7,753	24,914	42,049
New Zealand	78.7	105.1	78.1	115.5	81.0	115.2	5,257	7,071	19,155	27,189
Nicaragua	76.2	118.6	63.7	123.6	57.1	124.0	1,543	1,880	..	2,071
Niger	73.3	110.7	73.5	105.3	71.7	92.3	323	437	152	157 <sup>a</sup>
Nigeria	68.7	105.0	69.2	105.2	76.8	107.0	1,135	1,460	..	..
Norway	121.1	104.5	102.8	100.1	98.1	99.0	3,744	3,924	19,500	37,039
Oman	62.8	87.3	63.0	93.0	65.6	104.1	2,206	3,214	1,005	1,302 <sup>a</sup>
Pakistan	80.9	106.6	71.0	109.5	67.4	112.5	1,818	2,639	594	696
Panama	109.9	108.2	87.8	103.1	69.5	98.1	1,862	1,939	2,363	3,904
Papua New Guinea	78.5	102.5	79.9	107.7	80.9	113.1	2,504	3,672	500	595
Paraguay	85.3	124.6	77.2	116.3	86.7	97.8	1,905	2,201	1,596	2,052
Peru	52.4	109.2	56.6	112.1	68.0	116.5	2,463	3,603	930	1,481
Philippines	84.4	113.0	77.5	114.6	61.9	118.2	2,070	3,164	905	1,075
Poland	110.9	91.1	112.5	97.8	115.4	106.7	2,958	3,029	1,502 <sup>a</sup>	2,182
Portugal	104.0	97.7	95.6	97.9	85.5	98.2	1,939	2,882	4,642	6,220
Puerto Rico	167.7	117.4	127.5	97.6	118.3	93.5	1,100	1,826	..	..



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## Agricultural output and productivity

	Crop production index		Food production index		Livestock production index		Cereal yield		Agricultural productivity	
	1999–2001 = 100		1999–2001 = 100		1999–2001 = 100		kilograms per hectare		Agriculture value added per worker 2000 \$	
	1990–92	2003–05	1990–92	2003–05	1990–92	2003–05	1990–92	2005–07	1990–92	2003–05
Romania	93.0	116.4	103.0	114.3	120.3	110.3	2,777	2,680	2,196	4,646
Russian Federation	125.9 <sup>a</sup>	115.9	142.0 <sup>a</sup>	110.3	161.8 <sup>a</sup>	103.8	1,743 <sup>a</sup>	1,865	1,825 <sup>a</sup>	2,519
Rwanda	110.2	115.1	106.7	116.4	81.2	123.6	1,088	1,117	167	182
Saudi Arabia	121.4	115.0	93.9	111.6	67.5	108.4	4,212	4,464	7,875	15,780
Senegal	72.5	88.9	74.0	90.1	87.5	104.4	803	968	225	215
Serbia	..	116.3 <sup>c</sup>	..	107.0 <sup>c</sup>	..	95.1 <sup>c</sup>	..	3,839	..	1,679 <sup>c</sup>
Sierra Leone	128.9	115.7	121.3	114.5	93.4	106.9	1,223	1,023	..	..
Singapore	157.1	105.3	402.4	114.0	413.8	114.4	..	..	22,695	40,419
Slovak Republic	..	105.6	..	101.4	..	97.2	1,031 <sup>a</sup>	4,081	..	5,026
Slovenia	94.0 <sup>a</sup>	111.8	82.1 <sup>a</sup>	104.8	75.7 <sup>a</sup>	101.1	3,279 <sup>a</sup>	5,498	12,042 <sup>a</sup>	..
Somalia	102.8	106.3	85.6	105.1	83.3	104.9	622	432	..	..
South Africa	79.8	104.9	84.7	107.7	93.9	109.8	1,602	3,081	1,786	2,495
Spain	88.1	103.4	85.3	106.2	80.0	110.5	2,310	3,050	9,511	18,619
Sri Lanka	86.9	101.3	89.1	103.0	93.6	115.5	2,950	3,636	679	702
Sudan	68.8	115.9	66.6	112.0	67.4	109.4	596	681	414	667
Swaziland	105.6	99.9	107.1	104.6	129.6	110.2	1,299	1,196	1,231	1,330
Sweden	102.0	101.5	98.3	99.4	95.9	98.1	4,272	4,791	22,533	35,378
Switzerland	112.2	97.4	107.4	99.6	105.7	100.4	6,102	6,364	19,884	23,588
Syrian Arab Republic	73.9	115.7	75.4	120.6	75.4	121.7	947	1,749	2,344	3,261
Tajikistan	122.8 <sup>a</sup>	147.7	132.7 <sup>a</sup>	150.1	192.6 <sup>a</sup>	152.3	1,037 <sup>a</sup>	2,275	346 <sup>a</sup>	409
Tanzania	92.8	107.3	89.0	106.9	82.9	109.5	1,276	1,162	238	295
Thailand	81.9	106.3	83.5	104.5	86.2	103.8	2,186	2,907	497	624
Timor-Leste	93.7	106.8	102.0	112.0	101.4	129.0	1,694	1,230	..	..
Togo	73.8	113.4	75.1	108.2	93.4	109.1	791	1,152	312	347
Trinidad and Tobago	116.4	78.5	92.7	112.9	73.4	142.6	3,159	2,647	1,666	1,745
Tunisia	105.6	122.7	90.0	115.0	60.5	99.1	1,401	1,320	2,422	2,700
Turkey	88.3	103.8	89.2	105.3	92.1	108.0	2,192	2,529	1,770	1,846
Turkmenistan	110.9 <sup>a</sup>	126.0	63.0 <sup>a</sup>	142.2	56.1 <sup>a</sup>	139.7	2,210 <sup>a</sup>	3,065	1,222 <sup>a</sup>	..
Uganda	77.9	107.2	80.0	107.8	82.3	111.4	1,487	1,527	155	175
Ukraine	128.5 <sup>a</sup>	117.2	145.5 <sup>a</sup>	111.7	171.7 <sup>a</sup>	103.5	2,834 <sup>a</sup>	2,368	1,195 <sup>a</sup>	1,702
United Arab Emirates	23.5	55.7	29.7	64.5	71.5	122.2	2,042	2,000	10,454	25,841
United Kingdom	105.0	98.4	105.4	98.0	105.8	97.6	6,321	7,082	22,664	26,942
United States	88.4	105.8	85.7	104.2	83.4	103.1	4,875	6,512	20,793	42,744
Uruguay	71.3	..	76.7	..	83.5	..	2,445	4,223	5,714	7,973
Uzbekistan	108.0 <sup>a</sup>	115.6	97.6 <sup>a</sup>	118.1	100.1 <sup>a</sup>	115.8	1,777 <sup>a</sup>	4,042	1,272 <sup>a</sup>	1,800
Venezuela, RB	79.6	98.6	74.6	94.8	73.4	91.7	2,561	3,365	4,483	6,331
Vietnam	60.2	120.4	62.1	122.1	57.9	131.1	3,097	4,726	214	305
West Bank and Gaza	..	104.6	..	109.9	..	117.9	1,105	2,091 <sup>a</sup>	..	..
Yemen, Rep.	75.2	100.9	72.3	105.3	66.3	112.0	906	885	271	328 <sup>a</sup>
Zambia	80.8	104.3	84.2	105.3	79.9	98.9	1,251	1,697	159	204
Zimbabwe	69.4	65.1	76.2	84.7	90.0	99.8	1,125	674	240	222
<b>World</b>	<b>82.0 w</b>	<b>109.4 w</b>	<b>81.1 w</b>	<b>109.7 w</b>	<b>82.2 w</b>	<b>110.1 w</b>	<b>2,839 w</b>	<b>3,301 w</b>	<b>746 w</b>	<b>908 w</b>
<b>Low income</b>	76.1	109.3	75.1	110.4	76.5	112.4	1,596	2,105	270	319
<b>Middle income</b>	80.5	112.0	78.6	112.9	78.3	114.9	2,639	3,093	467	650
Lower middle income	76.7	111.7	71.5	113.5	64.6	117.6	2,789	3,354	371	513
Upper middle income	91.7	113.0	96.0	111.5	103.6	110.0	1,992	2,553	1,987	2,819
<b>Low &amp; middle income</b>	79.8	111.6	78.1	112.6	78.1	114.7	2,421	2,858	433	579
East Asia & Pacific	71.9	114.4	64.8	116.6	53.1	122.0	3,816	4,681	295	438
Europe & Central Asia	113.8	109.8	128.3	108.7	152.2	106.8	1,961	2,211	1,756	2,108
Latin America & Carib.	78.0	116.3	74.2	114.8	72.5	112.9	2,234	3,308	2,125	3,055
Middle East & N. Africa	79.4	117.3	76.5	115.7	71.2	110.3	1,544	2,206	1,583	2,204
South Asia	80.0	104.2	75.6	106.3	69.2	112.1	1,977	2,581	335	406
Sub-Saharan Africa	75.5	106.1	76.9	107.2	83.1	108.8	1,003	1,228	262	278
<b>High income</b>	89.9	101.9	89.6	101.9	90.0	101.8	4,259	5,072	14,543	25,594
Euro area	90.6	98.5	93.6	99.8	97.1	100.8	4,621	5,419	12,587	22,134

a. Data are not available for all three years. b. Includes Luxembourg. c. Includes Montenegro.

## About the data

The agricultural production indexes in the table are prepared by the Food and Agriculture Organization of the United Nations (FAO). The FAO obtains data from official and semiofficial reports of crop yields, area under production, and livestock numbers. If data are unavailable, the FAO makes estimates. The indexes are calculated using the Laspeyres formula: production quantities of each commodity are weighted by average international commodity prices in the base period and summed for each year. Because the FAO's indexes are based on the concept of agriculture as a

single enterprise, estimates of the amounts retained for seed and feed are subtracted from the production data to avoid double counting. The resulting aggregate represents production available for any use except as seed and feed. The FAO's indexes may differ from those from other sources because of differences in coverage, weights, concepts, time periods, calculation methods, and use of international prices.

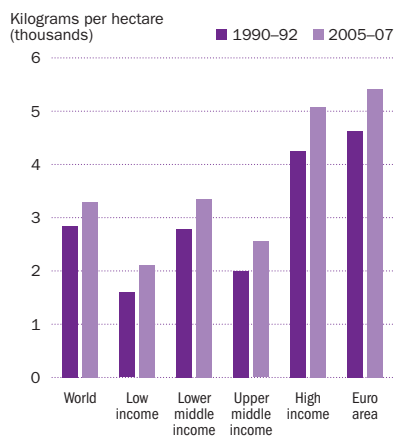
To facilitate cross-country comparisons, the FAO uses international commodity prices to value production. These prices, expressed in international dollars (equivalent in purchasing power to the U.S. dollar), are derived using a Geary-Khamis formula applied to agricultural outputs (see System of National Accounts 1993, sections 16.93–96). This method assigns a single price to each commodity so that, for example, one metric ton of wheat has the same price regardless of where it was produced. The use of international prices eliminates fluctuations in the value of output due to transitory movements of nominal exchange rates unrelated to the purchasing power of the domestic currency.

Data on cereal yield may be affected by a variety of reporting and timing differences. Millet and sorghum, which are grown as feed for livestock and poultry in Europe and North America, are used as food in Africa, Asia, and countries of the former Soviet Union. So some cereal crops are excluded from the data for some countries and included elsewhere, depending on their use. To smooth annual fluctuations in agricultural activity, the indicators in the table have been averaged over three years.

## Definitions

- **Crop production index** is agricultural production for each period relative to the base period 1999–2001. It includes all crops except fodder crops. The regional and income group aggregates for the FAO's production indexes are calculated from the underlying values in international dollars, normalized to the base period 1999–2001.
- **Food production index** covers food crops that are considered edible and that contain nutrients. Coffee and tea are excluded because, although edible, they have no nutritive value.
- **Livestock production index** includes meat and milk from all sources, dairy products such as cheese, and eggs, honey, raw silk, wool, and hides and skins.
- **Cereal yield**, measured in kilograms per hectare of harvested land, includes wheat, rice, maize, barley, oats, rye, millet, sorghum, buckwheat, and mixed grains. Production data on cereals refer to crops harvested for dry grain only. Cereal crops harvested for hay or harvested green for food, feed, or silage, and those used for grazing, are excluded. The FAO allocates production data to the calendar year in which the bulk of the harvest took place. But most of a crop harvested near the end of a year will be used in the following year.
- **Agricultural productivity** is the ratio of agricultural value added, measured in 2000 U.S. dollars, to the number of workers in agriculture. Agricultural productivity is measured by value added per unit of input. (For further discussion of the calculation of value added in national accounts, see *About the data* for tables 4.1 and 4.2.) Agricultural value added includes that from forestry and fishing. Thus interpretations of land productivity should be made with caution.

### Cereal yield in low-income economies was less than 40 percent of the yield in high-income countries 3.3a



Source: Table 3.3.

### Sub-Saharan Africa had the lowest yield, while East Asia and Pacific is closing the gap with high-income economies 3.3b



Source: Table 3.3.

## Data sources

Data on agricultural production indexes, cereal yield, and agricultural workers are from electronic files that the FAO makes available to the World Bank. The files may contain more recent information than published versions. Data on agricultural value added are from the World Bank's national accounts files.