

Background tables

TABLE 1
Production of cereals in various regions (1000 tonnes)

	1961	1970	1980	1990	2000	2004
TOTAL CEREALS						
World	877 776	1 193 377	1 550 883	1 952 166	2 061 054	2 221 119
Developed countries	355 141	430 321	599 666	692 307	826 925	829 977
Developing countries	522 635	763 055	951 216	1 259 859	1 234 129	1 391 143
Least Developed countries	48 057	56 520	69 369	82 858	120 970	154 916
North America	180 350	215 421	311 249	369 205	393 846	397 456
European Union (27)	126 953	161 256	226 932	252 204	277 700	269 239
Asia	449 251	648 852	803 313	1 081 779	996 292	1 102 274
Latin America & Caribbean	47 399	71 365	88 443	99 084	137 988	154 677
Africa	46 277	60 472	72 611	93 410	112 608	145 892
Oceania	9 566	13 515	17 199	23 949	35 340	17 176
WHEAT						
World	222 388	310 803	440331	592 372	586 063	605 946
Developed countries	101 202	121 138	195 203	253 853	294 143	286 865
Developing countries	121 186	189 665	245 128	338 518	291 920	319 081
Least Developed countries		2 809	4 393	4 345	6 482	9 429
North America	41 252	45 808	84 092	106 392	87 293	84 575
European Union (27)		58 408	87 041	115 462	132 428	126 249
Asia	108 322	170 547	221 698	305 013	254 528	272 185
Latin America & Caribbean	9 527	11 510	15 091	20 767	23 698	22 636
Africa	5 118	8 081	8 922	13 689	14 382	25 096
Oceania	6 981	8 177	11 162	15 254	22 434	10 075
MAIZE						
World	205 017	265 844	396 685	483 359	593 225	695 228
Developed countries	116 097	145 493	226 526	253 667	322 902	354 150
Developing countries	88 920	120 352	170 159	229 691	270 323	341 078
Least Developed countries	6 630	6 882	9 064	12 008	18 683	23 528
North America	92 130	108 105	174 400	208 598	258 808	276 866
European Union (27)	18 502	29 366	41 346	36 981	51 552	55 782
Asia	48 726	62 404	96 969	142 350	149 063	203 025
Latin America & Caribbean	24 183	38 098	45 058	49 636	76 216	91 778
Africa	16 124	19 880	28 131	37 700	45 031	46 260
Oceania	171	253	312	387	601	558

TABLE 1 (continued)
Production of cereals in various regions (1000 tonnes)

	1961	1970	1980	1990	2000	2004
SORGHUM						
World	41 632	56 383	57 870	56 802	55 832	56 485
Developed countries	12 448	18 345	16 313	16 051	14 830	8 704
Developing countries	29 184	38 038	41 557	40 751	41 002	47 782
Least Developed countries	5 083	5 393	6 232	5 613	8 867	14 613
North America	12 198	17 353	14 716	14 562	11 952	7 050
European Union (27)	54	401	633	511	652	570
Asia	16 301	18 793	19 223	18 688	11 148	10 691
Latin America & Caribbean	2 193	7 533	9 322	10 082	11 383	10 973
Africa	10 692	11 710	13 009	11 980	18 467	26 113
Oceania	163	549	925	947	2120	1001
MILLET						
World	25 755	33 333	24 937	30 001	27 747	31 781
Developed countries	285	251	151	240	1 832	1 086
Developing countries	25 471	33 082	24 786	29 761	25 915	30 695
Least Developed countries	3 462	4 421	4 537	5 411	6 722	10 210
North America	112	150	120	180	199	300
European Union (27)	66	48	13	13	26	42
Asia	18 704	24 970	17 301	19 029	13 102	12 891
Latin America & Caribbean	261	125	188	65	48	16
Africa	6 577	7 997	7 298	10 668	12 765	17 788
Oceania	22	34	14	39	57	35

TABLE 2
Irrigated land, area and as percentage of arable land

World/Continent	Irrigated Land					
	Area (1000 ha)			As % of arable land		
	1980	1990	2002	1980	1990	2002
WORLD	210 222	244 988	276 719	15.7	17.6	19.7
Developed countries	58 926	66 286	68 060	9.1	10.2	11.1
Industrialized countries	37 355	39 935	43 669	9.9	10.5	11.9
Transition economies	21 571	26 351	24 391	7.9	9.8	10.0
Developing countries	151 296	178 702	208 659	21.9	24.1	26.3
Latin America & the Caribbean	13 811	16 794	18 622	10.8	12.5	12.6
Near East & North Africa	17 982	24 864	28 642	21.8	28.8	32.3
Sub-Saharan Africa	3 980	4 885	5 225	3.2	3.7	3.6
East & Southeast Asia	59 722	65 624	74 748	37.0	33.9	35.1
South Asia	55 798	66 529	81 408	28.6	33.9	41.7
Oceania developing	3	6	14	0.7	1.2	2.4
Continental groupings						
Africa	9 491	11 235	13 400	6.0	6.7	7.0
Asia	132 377	155 009	193 869	31.3	33.8	37.9
Caribbean	1 074	1 269	1 308	22.0	23.3	26.5
Latin America	12 737	15 525	17 314	10.4	12.0	12.1
North America	21 178	21 618	23 285	9.1	9.3	10.5
Oceania	1 686	2 118	2 844	3.6	4.2	5.6
Europe	14 479	17 414	25 220	11.5	14.0	8.8

Source: FAO 2008

TABLE 3
Water-balance values for annual wheat crops at three semi-arid locations

	Texas (USA)			Shaanxi (China)			New South Wales (Australia)		
	Wheat	Fallow ²	Total	Wheat	Fallow ²	Total	Wheat	Fallow ²	Total
Precipitation (mm)	256	202	458	181	213	394	280	280	560
Evapotranspiration (ET) (mm)	293		293	264		264	360		360
Soil water change ¹ (mm)	-37	37		-83	83		-80	80	
Evaporation and runoff (mm)		165	165		130	130		200	200
Potential ET (PET) (mm)	1 140	740	1 880	475	408	883	—	—	—
ET/PET (%)	26			56			—		—
Precipitation/PET (%)			24			45			
ET/Precipitation (%)			64			67			64
Yield (kg/ha)	900			1 250			2400		
Water-use efficiency (kg/m ³)	0.33			0.47			0.67		

¹The change in plant-available soil water between time of seeding and time of harvest.

²Period between time of harvest and seeding of the subsequent wheat crop.

Source: Adapted from Jones, unpublished data; Cornish and Pratley, 1991.

TABLE 4

Straw-mulch effects on soil-water storage during an 11-month fallow, water-storage efficiency and dryland grain sorghum yield at Bushland, USA

Mulch rate (tonnes/ha)	Water storage ¹ (mm)	Storage efficiency ² (%)	Grain yield (tonnes/ha)	Total crop water use ³ (mm)	WUE ⁴ (kg/m ³)
0	72 c ⁵	22.6 c	1.78 c	320	0.56
1	99 b	31.1.b	2.41 b	330	0.73
2	100 b	31.4 b	2.60 b	353	0.74
4	116 b	36.5 b	2.98 b	357	0.84
8	139 a	43.7 a	3.68 a	365	1.01
12	147 a	46.2 a	3.99 a	347	1.15

¹ Water use determined to a depth of 1.8 m; precipitation averaged 318 mm in the fallow period.

² Storage efficiency is water stored in the soil at the end of the fallow period as a percentage of precipitation occurring during the 11-month fallow period.

³ Growing-season precipitation plus change in soil water during the growing season.

⁴ Water-use efficiency (WUE) based on grain produced, growing-season precipitation and soil-water change during the growing season.

⁵ Column values followed by the same letter are not significantly different at the 5-percent level (Duncan's Multiple Range Test).

Source: Adapted from Unger, 1978.