




Australian Government

Department of Agriculture, Fisheries and Forestry
ABARES

Agricultural commodity statistics 2011

Research by the Australian Bureau of Agricultural
and Resource Economics and Sciences





1980-81
\$13 581 million

1990-91
\$17 045 million

2000-01
\$23 977 million

2010-11
\$34 040 million

Real Australian gross product of farm, forestry and fisheries sectors



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Please visit www.bree.gov.au for access to BREE publications and information.

Foreword

Agricultural commodity statistics is an invaluable reference book for anyone associated with Australia's agricultural industries. It is a comprehensive publication, containing overview and macroeconomic information as well as key statistics on the supply of and demand for each commodity covered. Current data are presented alongside historical data, with some historical series extending for more than 40 years.

In *Agricultural commodity statistics*, ABARES aims for continuity from year to year. This makes it possible for users to monitor industry developments over time. To ensure that the most relevant package of statistics is provided, the tables are scrutinised each year, with some changes made and new tables added.

Agricultural commodity statistics can be used in conjunction with the ABARES publication *Agricultural commodities*, in which the most important statistics, including forecasts, are updated throughout the year. Both of these publications provide background material for the ABARES national Outlook conference, which is held in Canberra in March each year and at which medium-term outlook assessments are presented for the major agricultural and natural resource based industries.

Other ABARES publications that contain mainly statistical information on commodities and, as such, complement the data presented in *Agricultural commodity statistics* are *Australian crop report* (quarterly), *Australian forest and wood products statistics* (biannual) and *Australian fisheries statistics* (annual).

Phillip Glyde
Executive Director
December 2011

Abbreviations and symbols

lb	pound	454 grams
kg	kilogram	2.20462 pounds
t	tonne	1000 kilograms
kt	kilotonne	1000 tonnes
Mt	megatonne	1 000 000 tonnes
L	litre	1.761 pints
kL	kilolitre	1000 litres
ML	megalitre	1 000 000 litres
GL	gigalitre	1 000 000 000 litres
ha	hectare	2.471 acres
m ³	cubic metre	1.307 cubic yards
c	cent (Australian)	
A\$	dollar (Australian)	
\$m	million dollars (Australian)	
DM	deutschmark	
ECU	European currency unit	
€	euro	
£	pound sterling	
USc	cent (United States)	
US\$	dollar (United States)	
¥	yen	
cif	cost, insurance and freight	
fas	free alongside ship	
fob	free on board	
fot	free on truck	
nec	not elsewhere classified	
ABARES	Australian Bureau of Agricultural and Resource Economics and Sciences	
ABS	Australian Bureau of Statistics	
BAE	Bureau of Agricultural Economics (now ABARES)	
BRS	Bureau of Rural Sciences (now ABARES)	
FAO	Food and Agriculture Organization of the United Nations	

All values and prices are in nominal terms unless stated in table footnotes.
Small discrepancies in totals are generally caused by rounding.

o is used to denote nil or a negligible amount.

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APEC – Asia–Pacific Economic Cooperation

Founding members (1989)

Australia
Brunei Darussalam
Canada
Indonesia
Japan
Republic of Korea
Malaysia
New Zealand
Philippines
Singapore
Thailand
United States

First enlargement (1991)

People's Republic of China
Hong Kong, China
Chinese Taipei

Second enlargement (1993)

Mexico
Papua New Guinea

Third enlargement (1994)

Chile

Forth enlargement (1998)

Peru
Russian Federation
Vietnam

ASEAN – Association of Southeast Asian Nations

Brunei Darussalam
Cambodia
Indonesia
Laos
Malaysia
Myanmar
Philippines
Singapore
Thailand
Vietnam

European Union

Founding members (1957)

Belgium
France
Germany
Italy
Luxembourg
Netherlands

First enlargement (1973)

Denmark
Ireland
United Kingdom

Second enlargement (1981)

Greece

Third enlargement (1986)

Portugal
Spain

Fourth enlargement (1995)

Austria
Finland
Sweden

Fifth enlargement (2004)

Cyprus
Czech Republic
Estonia
Hungary
Latvia
Lithuania
Malta
Poland
Slovakia
Slovenia

Sixth enlargement (2007)

Bulgaria
Romania

OPEC – Organization of Petroleum Exporting Countries

Algeria	1969
Angola	2007
Equador	1973
Indonesia	suspended
Iran	1960
Iraq	1960
Kuwait	1960
Libya	1962
Nigeria	1971
Qatar	1961
Saudi Arabia	1960
United Arab Emirates	1967
Venezuela	1960

OECD – Organisation for Economic Co-operation and Development

Deposited instruments of ratification

Canada	10 April 1961
United States	12 April 1961
United Kingdom	2 May 1961
Denmark	30 May 1961
Iceland	5 June 1961
Norway	4 July 1961
Turkey	2 August 1961
Spain	3 August 1961
Portugal	4 August 1961
France	7 August 1961
Ireland	17 August 1961
Belgium	13 September 1961
Germany	27 September 1961
Greece	27 September 1961
Sweden	28 September 1961
Switzerland	28 September 1961
Austria	29 September 1961
Netherlands	13 November 1961
Luxembourg	7 December 1961
Italy	29 March 1962
Japan	28 April 1964
Finland	28 January 1969
Australia	7 June 1971
New Zealand	29 May 1973
Mexico	18 May 1994
Czech Republic	21 December 1995
Hungary	7 May 1996
Poland	22 November 1996
Republic of Korea	12 December 1996
Slovak Republic	14 December 2000
Chile	7 May 2010
Slovenia	21 July 2010
Israel	7 September 2010
Estonia	9 December 2010

To assist users of *Agricultural commodity statistics*, a 'where to find' list of commonly used or difficult to find general items is included at the back of this report.

Australian economy



1 Australian gross product, by sector

	Chain volume measures ^a		Nominal prices	
	Rural		Gross domestic product	Gross domestic product
	Farm \$m	Total ^b \$m	product \$m	product \$m
1974-75	10 263	11 832	422 583	71 863
1975-76	11 200	12 811	433 710	84 093
1976-77	11 476	13 153	448 820	96 961
1977-78	11 077	12 723	452 896	105 895
1978-79	13 764	15 485	471 527	119 702
1979-80	11 831	13 581	485 879	135 724
1980-81	10 120	11 907	502 437	153 766
1981-82	12 097	13 854	518 656	177 378
1982-83	9 222	10 825	506 624	190 975
1983-84	13 719	15 511	529 920	215 412
1984-85	13 763	15 543	557 108	237 435
1985-86	13 079	14 457	582 465	262 255
1986-87	12 942	14 611	597 338	287 762
1987-88	12 354	14 296	632 415	327 767
1988-89	12 776	14 928	657 331	371 330
1989-90	13 954	16 149	680 829	408 141
1990-91	14 790	17 045	679 200	419 619
1991-92	13 959	16 142	682 284	427 240
1992-93	14 908	16 990	710 162	448 372
1993-94	15 576	17 692	738 328	471 032
1994-95	12 688	15 101	767 418	499 506
1995-96	15 966	18 315	799 507	531 970
1996-97	17 134	19 804	831 267	559 207
1997-98	16 998	19 832	869 385	591 510
1998-99	18 878	21 725	914 243	622 866
1999-00	19 689	23 102	950 369	663 810
2000-01	20 416	23 977	970 057	708 920
2001-02	21 103	24 635	1 007 925	759 028
2002-03	15 733	19 391	1 040 908	804 262
2003-04	20 387	24 343	1 084 166	865 271
2004-05	21 295	25 322	1 116 247	926 446
2005-06	21 936	26 019	1 150 643	1 001 440
2006-07	17 959	22 042	1 191 655	1 091 632
2007-08	19 455	23 573	1 237 320	1 185 740
2008-09	23 296	27 721	1 255 241	1 255 241
2009-10	23 615	28 430	1 283 572	1 284 777
2010-11	28 927	34 040	1 307 291	1 391 330

^a Reference year is 2008–09. Original series, based on ANZSIC codes. For more information on chain volume measures, see the ABS information paper *Australian National Accounts, Introduction of Chain Volume and Price Indexes*, cat. no. 5248.0, released 19 March 1998. ^b Includes farm, forestry, fishing and hunting.

Sources: ABS, *Australian National Accounts, National Income, Expenditure and Product*, cat. nos. 5204.0 and 5206.0, Canberra.

2 Australian employment, by sector

	Rural				Manufacturing			Other	Total employment
	Agriculture	Commercial fishing ^b	Forestry and logging	Support services	Total	Food, beverage and tobacco	Total		
	'000	'000	'000	'000	'000	'000	'000	'000	'000
1965-66	409	na	na	na	470	na	na	na	4 705
1966-67	402	na	na	na	461	na	na	na	4 871
1967-68	401	na	na	na	458	na	na	na	4 989
1968-69	396	na	na	na	448	na	na	na	5 112
1969-70	392	na	na	na	452	na	na	na	5 285
1970-71	401	na	na	na	450	na	na	na	5 466
1971-72	393	na	na	na	447	na	na	na	5 540
1972-73	388	na	na	na	434	na	na	na	5 680
1973-74	377	na	na	na	427	na	na	na	5 863
1974-75	368	na	na	na	414	na	na	na	5 856
1975-76	365	na	na	na	401	na	na	na	5 929
1976-77	360	na	na	na	393	na	na	na	5 966
1977-78	351	na	na	na	390	na	na	na	6 018
1978-79	348	na	12	na	388	na	1 205	4 448	6 041
1979-80	364	na	11	na	404	na	1 242	4 541	6 187
1980-81	367	na	17	na	414	na	1 246	4 688	6 348
1981-82	363	na	16	na	409	na	1 249	4 767	6 425
1982-83	374	na	14	na	417	na	1 163	4 741	6 321
1983-84	367	na	13	na	407	na	1 139	4 822	6 368
1984-85	361	na	12	17	403	na	1 139	5 021	6 563
1985-86	386	11	9	20	425	182	1 082	5 342	6 850
1986-87	377	17	8	18	420	182	1 076	5 524	7 020
1987-88	375	17	7	17	416	189	1 108	5 694	7 219
1988-89	384	18	10	21	432	191	1 150	5 955	7 537
1989-90	381	15	8	22	426	195	1 152	6 245	7 822
1990-91	387	15	8	22	432	187	1 093	6 237	7 762
1991-92	367	14	8	17	406	195	1 042	6 175	7 623
1992-93	360	16	8	18	402	199	1 038	6 161	7 601
1993-94	363	14	8	20	406	187	1 046	6 303	7 755
1994-95	357	16	9	19	401	200	1 071	6 585	8 057
1995-96	370	19	8	19	416	207	1 066	6 807	8 289
1996-97	375	14	8	22	419	196	1 080	6 856	8 355
1997-98	378	14	10	26	428	205	1 074	6 975	8 477
1998-99	366	14	10	27	418	198	1 041	7 182	8 642
1999-00	385	16	6	28	436	198	1 057	7 342	8 835
2000-01	373	20	10	28	432	199	1 068	7 519	9 018
2001-02	383	19	10	25	438	203	1 042	7 660	9 140
2002-03	322	18	7	23	370	205	1 073	7 936	9 380
2003-04	317	16	9	25	367	193	1 033	8 127	9 526
2004-05	307	14	9	27	357	217	1 051	8 378	9 786
2005-06	300	12	8	27	348	205	1 025	8 715	10 088
2006-07	306	10	8	26	350	214	1 024	8 999	10 374
2007-08	302	14	8	30	354	229	1 060	9 270	10 684
2008-09	322	9	8	24	362	226	1 028	9 502	10 892
2009-10	325	11	7	26	369	228	1 006	9 652	11 027
2010-11	307	12	6	27	351	229	992	10 011	11 355

^a Average employment over four quarters, based on ANZSIC2006 and equivalent ASIC codes. ^b Includes aquaculture, fishing, hunting and trapping. **na** Not available.

Sources: ABS, *The Labour Force, Australia*, cat. no. 6203.0, Canberra; ABS, *The Labour Force, Australia*, 1979 to 1990, cat. no. 6204.0, Canberra.

3 Value of Australian exports, by sector – balance of payments basis

	Farm ^a	Forest ^b	Fisheries ^c	Total rural	Total merchandise	Services	Total goods and services
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1965-66	1 849	15	24	1 888	2 667	481	3 148
1966-67	2 006	23	25	2 054	2 966	530	3 496
1967-68	1 833	18	34	1 884	2 980	606	3 586
1968-69	1 868	18	39	1 925	3 254	655	3 909
1969-70	2 105	20	39	2 165	4 014	767	4 781
1970-71	2 103	25	56	2 184	4 261	842	5 103
1971-72	2 414	28	73	2 515	4 766	938	5 704
1972-73	3 316	55	72	3 443	6 110	930	7 040
1973-74	3 504	74	66	3 644	6 861	1 064	7 925
1974-75	3 816	87	69	3 972	8 656	1 504	10 160
1975-76	4 267	84	80	4 431	9 628	1 625	11 253
1976-77	5 189	116	135	5 440	11 618	1 851	13 469
1977-78	5 203	123	143	5 469	12 208	2 087	14 295
1978-79	6 022	142	192	6 356	14 292	2 676	16 968
1979-80	8 398	207	235	8 840	18 946	3 147	22 093
1980-81	8 179	238	230	8 647	19 095	3 587	22 682
1981-82	4 372	239	307	4 918	19 742	4 032	23 774
1982-83	4 573	261	354	5 188	21 313	4 396	25 709
1983-84	4 703	266	393	5 362	24 049	4 921	28 970
1984-85	5 470	311	399	6 180	30 200	5 647	35 847
1985-86	6 332	348	482	7 162	32 603	6 450	39 053
1986-87	7 935	429	593	8 957	36 406	7 888	44 294
1987-88	10 369	481	730	11 580	41 915	9 873	51 788
1988-89	15 097	613	674	16 384	44 292	11 222	55 514
1989-90	14 462	616	784	15 862	49 027	12 021	61 048
1990-91	13 076	706	831	14 612	52 685	13 820	66 505
1991-92	14 609	748	980	16 337	55 537	14 633	70 170
1992-93	15 980	826	1 090	17 896	60 787	16 514	77 301
1993-94	17 471	911	1 243	19 625	64 514	19 010	83 524
1994-95	18 023	1 067	1 367	20 456	67 191	21 070	88 261
1995-96	20 598	1 087	1 328	23 013	76 309	23 491	99 800
1996-97	22 316	1 198	1 305	24 819	81 057	25 247	106 304
1997-98	23 469	1 348	1 489	26 307	88 583	26 539	115 122
1998-99	23 027	1 347	1 511	25 886	85 636	28 038	113 674
1999-00	24 541	1 607	1 988	28 136	97 685	30 454	128 139
2000-01	30 078	1 846	2 169	34 093	120 201	35 708	155 909
2001-02	31 943	2 018	2 100	36 061	121 067	34 788	155 855
2002-03	27 922	2 091	1 844	31 858	115 895	35 721	151 616
2003-04	26 578	2 040	1 652	30 270	109 418	37 311	146 729
2004-05	27 871	2 119	1 542	31 531	127 812	39 289	167 101
2005-06	27 815	2 140	1 547	31 501	154 035	41 641	195 676
2006-07	27 905	2 355	1 494	31 754	169 620	45 342	214 962
2007-08	27 570	2 471	1 342	31 384	182 956	50 105	233 061
2008-09	32 148	2 343	1 529	36 020	231 564	52 877	284 441
2009-10	28 551	2 261	1 247	32 058	201 809	52 323	254 132
2010-11	32 529	2 474	1 249	36 252	246 713	51 456	298 169

^a Includes wine. ^b Includes paper and paperboard. ^c Tuna captured under joint venture agreements or transhipped at sea are not included.

Sources: ABS, *Balance of Payments, Australia*, cat. nos. 5302.0 and 5303.0, Canberra; ABARES.

4 Value of Australian exports, by sector a – chain volume measures

	Rural products						Total merchandise c	Services c	Total goods and services c
	Cereal grains and products	Sugar and honey	Meat and meat preparations	Wool and sheepskins	Other rural b	Total b			
	\$m	\$m	\$m	\$m	\$m	\$m			
1974-75	3 481	783	2 368	2 322	1 979	10 933	44 761	7 140	50 505
1975-76	3 551	799	3 225	3 139	2 399	13 113	47 297	6 796	52 476
1976-77	3 640	991	3 881	3 519	2 582	14 613	51 101	6 903	56 226
1977-78	4 307	948	4 259	2 732	2 562	14 808	52 108	7 214	57 493
1978-79	3 163	730	4 464	3 159	2 998	14 514	54 933	8 477	61 573
1979-80	6 372	912	3 425	2 989	3 182	16 880	59 221	8 686	65 924
1980-81	4 387	993	3 285	3 042	2 990	14 697	54 684	9 491	62 724
1981-82	4 812	995	3 246	2 871	3 162	15 086	55 969	9 731	64 205
1982-83	3 400	1 030	3 455	2 723	3 159	13 767	56 309	9 679	64 538
1983-84	4 991	964	2 527	2 782	3 000	14 264	60 919	10 181	69 463
1984-85	6 754	1 039	2 479	3 381	3 312	16 965	71 140	11 032	80 186
1985-86	6 597	1 112	2 890	3 541	3 748	17 888	73 688	11 546	83 209
1986-87	5 750	1 047	3 415	4 159	4 116	18 487	80 727	13 033	91 612
1987-88	4 742	1 093	3 773	4 085	4 081	17 774	85 608	15 474	99 225
1988-89	4 369	1 208	3 291	3 794	4 174	16 836	84 491	16 890	100 397
1989-90	4 579	1 201	3 935	2 782	4 484	16 981	89 328	17 170	105 321
1990-91	4 816	1 142	4 391	2 960	4 964	18 273	100 079	18 725	117 378
1991-92	3 872	995	4 726	4 424	5 594	19 611	110 339	19 581	128 028
1992-93	4 436	1 341	5 062	4 003	6 318	21 160	116 628	21 928	137 003
1993-94	5 438	1 476	5 154	4 167	7 280	23 515	126 680	25 150	150 590
1994-95	3 880	1 805	5 025	3 854	7 232	21 796	129 706	28 011	157 268
1995-96	5 753	2 121	4 940	3 592	8 328	24 734	143 374	30 597	173 338
1996-97	7 847	2 254	4 793	3 847	9 219	27 960	161 003	32 532	192 189
1997-98	6 854	2 347	5 439	3 656	10 958	29 254	169 553	33 803	201 781
1998-99	7 751	2 047	5 774	3 112	11 939	30 623	171 747	35 386	205 937
1999-00	7 844	1 746	6 006	3 634	13 811	33 041	189 391	37 870	225 509
2000-01	7 352	1 354	6 794	3 866	14 725	34 091	199 912	43 863	243 664
2001-02	7 962	1 826	6 498	3 298	16 471	36 055	201 847	41 770	242 786
2002-03	5 520	1 919	6 556	2 635	14 179	30 809	202 153	41 592	242 876
2003-04	7 443	1 865	6 376	2 664	14 189	32 537	203 316	42 826	245 600
2004-05	8 132	1 924	7 151	3 052	14 134	34 393	211 048	44 015	254 301
2005-06	7 489	1 840	7 083	2 900	15 194	34 506	214 902	45 462	259 847
2006-07	5 771	1 753	7 639	3 043	15 212	33 418	218 332	48 163	266 361
2007-08	4 857	1 602	7 329	2 549	14 500	30 837	225 258	51 761	277 124
2008-09	6 880	1 501	7 454	2 323	15 760	33 918	231 565	52 877	284 440
2009-10	7 171	1 589	6 951	2 271	15 788	33 770	248 357	51 270	299 627
2010-11	9 055	1 128	7 086	2 347	16 210	35 826	250 633	49 464	300 097

a Reference year 2008–09. b Prior to 1989–90, wine and paper and paperboard are excluded. c Balance of payments basis.

Sources: ABS, *Balance of Payments, Australia*, cat. nos. 5302.0 and 5303.0, Canberra; ABS, *Balance of Payments, Australia – Historical Series on Microfiche*, cat. no. 5337.0, Canberra; ABARES.

5 Australian rural unit export returns ^a

	Farm	Forest and fisheries products	Total
1974-75	36.1	11.2	34.4
1975-76	34.8	13.8	33.3
1976-77	36.1	15.4	34.6
1977-78	35.3	16.7	34.0
1978-79	39.9	18.1	38.3
1979-80	48.8	19.3	46.7
1980-81	57.4	25.4	55.1
1981-82	54.2	43.7	53.5
1982-83	53.2	48.6	53.0
1983-84	56.6	50.5	56.3
1984-85	57.7	59.8	58.1
1985-86	59.2	72.1	60.4
1986-87	57.4	85.4	59.6
1987-88	72.8	93.4	74.5
1988-89	106.7	93.6	105.6
1989-90	100.0	100.0	100.0
1990-91	84.5	101.2	85.9
1991-92	87.8	105.0	89.3
1992-93	90.0	109.6	91.6
1993-94	90.3	124.9	93.2
1994-95	100.7	127.2	102.9
1995-96	106.2	123.7	107.7
1996-97	95.4	123.5	97.6
1997-98	102.5	124.1	104.2
1998-99	93.6	120.7	95.8
1999-00	90.8	132.1	94.2
2000-01	109.0	144.5	111.9
2001-02	118.0	143.4	120.0
2002-03	115.3	137.7	117.0
2003-04	105.9	126.6	107.5
2004-05	104.6	128.4	106.6
2005-06	104.0	131.5	106.3
2006-07	109.6	136.0	111.8
2007-08	122.0	140.7	123.3
2008-09	122.7	148.3	124.8
2009-10	108.2	141.3	110.9
2010-11	120.9	142.2	122.6

^a In Australian dollars. Base: 1989-90 = 100.

Source: ABARES.

6 Australian main macroeconomic indicators

	Growth of real gross domestic product %	Interest rates		Inflation c %	Consumer price index d
		Short term a %	Long term b %		
1967-68	5.1	na	na	3.5	16.3
1968-69	7.0	na	na	2.6	16.7
1969-70	7.2	6.7	6.1	3.1	17.2
1970-71	4.0	7.1	6.8	4.5	18.0
1971-72	3.9	6.0	6.2	6.9	19.3
1972-73	2.6	5.1	5.9	6.1	20.4
1973-74	4.1	11.3	8.2	12.9	23.1
1974-75	1.2	10.5	9.5	16.8	26.9
1975-76	2.6	8.6	10.0	12.9	30.4
1976-77	3.5	9.8	10.2	13.9	34.6
1977-78	0.9	10.4	9.6	9.5	37.9
1978-79	4.1	9.6	9.2	8.1	41.0
1979-80	3.0	11.2	10.7	10.2	45.2
1980-81	3.4	13.4	12.6	9.3	49.4
1981-82	3.2	17.0	15.1	10.4	54.6
1982-83	- 2.3	14.0	14.6	11.5	60.9
1983-84	4.6	11.9	13.8	6.9	65.0
1984-85	5.1	13.4	13.4	4.3	67.8
1985-86	4.6	16.8	13.7	8.4	73.5
1986-87	2.6	15.7	13.5	9.3	80.4
1987-88	5.9	11.8	12.5	7.3	86.3
1988-89	3.9	15.7	12.8	7.3	92.6
1989-90	3.6	16.9	13.3	8.0	100.0
1990-91	- 0.2	12.2	12.2	5.3	105.3
1991-92	0.5	8.1	10.0	1.9	107.3
1992-93	4.1	5.6	8.3	1.0	108.4
1993-94	4.0	4.9	7.4	1.8	110.4
1994-95	3.9	7.2	9.9	3.2	113.9
1995-96	4.2	7.5	8.7	4.2	118.7
1996-97	4.0	6.3	7.6	1.3	120.3
1997-98	4.6	5.0	6.0	- 0.0	120.3
1998-99	5.2	4.9	5.5	1.3	121.8
1999-00	4.0	5.6	6.5	2.4	124.7
2000-01	2.1	5.8	5.8	6.0	132.2
2001-02	3.9	4.6	5.9	2.9	136.0
2002-03	3.3	4.8	5.4	3.1	140.2
2003-04	4.2	5.3	5.7	2.4	143.5
2004-05	3.0	5.5	5.4	2.4	147.0
2005-06	3.1	5.7	5.4	3.2	151.7
2006-07	3.6	6.3	5.8	2.9	156.1
2007-08	3.8	7.3	6.2	3.4	161.4
2008-09	1.4	4.8	5.0	3.1	166.4
2009-10	2.3	4.0	5.5	2.3	170.3
2010-11	1.8	4.9	5.3	3.1	175.6

a 90 day bank bills, average of daily data. b 10 year Treasury bonds, average of end-of-month data. c Percentage change in the consumer price index.
d 1989-90 = 100. na Not available.

Sources: ABS, *Australian National Accounts, National Income, Expenditure and Product*, cat. no. 5206.0, Canberra; ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra; Reserve Bank of Australia, *Bulletin*, Sydney.

7 Australian trade balance and foreign debt

	Balance on goods and services		Current account balance ^a		Terms of trade ^b	Net foreign debt ^c	
	Imports	Exports	Level	Share of		Level	Share of
	\$m	\$m	\$m	GDP %		\$m	GDP %
1967-68	4 224	3 586	-1 131	-3.2	67.1	na	0
1968-69	4 360	3 909	-980	-2.4	68.9	na	0
1969-70	4 871	4 781	-688	-1.3	70.2	na	0
1970-71	5 214	5 103	-749	-1.3	65.7	na	0
1971-72	5 351	5 704	-293	-0.1	61.6	na	0
1972-73	5 512	7 040	754	2.1	73.3	na	0
1973-74	7 996	7 925	-921	-1.0	78.8	na	0
1974-75	10 510	10 160	-1 195	-1.2	71.7	na	0
1975-76	11 163	11 253	-1 423	-1.2	68.4	3 133	4.0
1976-77	14 106	13 469	-1 996	-2.1	66.2	5 160	5.7
1977-78	15 342	14 295	-2 573	-2.4	60.3	7 434	7.5
1978-79	18 260	16 968	-3 159	-2.6	60.7	9 553	8.5
1979-80	21 444	22 093	-1 591	-1.2	62.9	7 923	6.2
1980-81	25 530	22 682	-5 143	-3.3	62.4	9 361	6.4
1981-82	29 660	23 774	-8 405	-4.7	61.4	18 378	11.0
1982-83	29 667	25 709	-6 178	-3.2	60.5	25 169	14.0
1983-84	32 146	28 970	-7 079	-3.3	61.9	31 850	15.7
1984-85	40 774	35 847	-10 443	-4.4	61.0	53 055	23.6
1985-86	47 183	39 053	-14 540	-5.5	55.2	78 396	31.5
1986-87	49 026	44 294	-11 631	-4.0	52.2	87 971	32.3
1987-88	54 081	51 788	-10 496	-3.2	56.7	98 767	0.0
1988-89	62 556	55 514	-18 401	-5.0	64.9	117 240	30.9
1989-90	69 210	61 048	-23 219	-5.7	65.0	130 620	32.2
1990-91	67 358	66 505	-16 570	-3.9	61.5	142 065	34.2
1991-92	69 653	70 170	-12 806	-3.0	59.6	162 529	38.0
1992-93	79 597	77 301	-14 123	-3.1	57.2	176 875	39.4
1993-94	86 114	83 524	-15 214	-3.2	55.6	170 760	36.3
1994-95	98 352	88 261	-26 388	-5.3	57.4	190 113	38.1
1995-96	101 962	99 800	-19 943	-3.7	59.1	192 989	36.3
1996-97	104 597	106 304	-16 201	-2.9	60.8	207 573	37.1
1997-98	119 870	115 122	-22 349	-3.8	60.2	225 863	38.2
1998-99	128 041	113 674	-32 964	-5.3	57.2	228 614	36.7
1999-00	141 723	128 139	-31 920	-4.8	59.6	270 604	40.8
2000-01	154 397	155 909	-17 269	-2.4	60.9	300 418	42.4
2001-02	155 247	155 855	-18 742	-2.5	61.6	321 861	42.4
2002-03	167 936	151 616	-37 838	-4.7	62.8	353 728	44.0
2003-04	168 767	146 729	-46 022	-5.3	67.3	384 347	44.4
2004-05	190 392	167 101	-57 000	-6.2	73.7	427 725	46.2
2005-06	211 030	195 676	-54 075	-5.4	81.8	494 866	49.4
2006-07	228 473	214 962	-60 821	-5.6	88.3	539 760	49.4
2007-08	257 913	233 061	-74 253	-6.3	93.4	600 441	50.6
2008-09	276 819	284 441	-38 780	-3.1	100.0	624 274	49.7
2009-10	258 109	254 132	-53 291	-4.1	95.6	684 349	53.3
2010-11	277 328	298 169	-33 567	-2.5	113.2	674 991	49.5

^a Negative sign indicates current account deficit. ^b Ratio of implicit price deflator for exports of goods and services to implicit price deflator for imports of goods and services. Base: 2008-09 = 100. ^c As at 30 June. **na** Not available.

Sources: ABS, *Australian National Accounts, National Income, Expenditure and Product*, cat. no. 5206.0, Canberra; ABS, *Balance of Payments, Australia*, cat. no. 5302.0, Canberra; ABS, *International Investment Position, Australia*, cat. no. 5306.0, Canberra.

8 Average Australian exchange rates with selected countries a

	Japan ¥/A\$	United States US\$/A\$	New Zealand NZ\$/A\$	Korea, Rep. of won/A\$	United Kingdom £/A\$	Euro €/A\$	Trade weighted index b
1965-66	404.03	1.1163	0.8047	303.38	0.3992	na	na
1966-67	403.88	1.1144	0.8047	301.60	0.3992	na	na
1967-68	403.87	1.1155	0.9122	304.37	0.4657	na	na
1968-69	398.92	1.1124	1.0000	312.53	0.4657	na	na
1969-70	399.88	1.1160	1.0000	335.13	0.4657	na	na
1970-71	400.22	1.1185	1.0000	357.56	0.4657	na	99.6
1971-72	371.74	1.1710	1.0000	443.91	0.4617	na	98.8
1972-73	367.32	1.2835	1.0320	513.89	0.5235	na	104.4
1973-74	408.19	1.4743	1.0335	587.02	0.6165	na	115.5
1974-75	404.94	1.3700	1.0160	611.19	0.5840	na	107.7
1975-76	379.39	1.2613	1.1930	610.30	0.6330	na	105.3
1976-77	330.52	1.1531	1.1930	557.44	0.6740	na	96.3
1977-78	273.88	1.1276	1.1270	545.95	0.6180	na	89.3
1978-79	227.36	1.1365	1.0790	549.96	0.5680	na	83.2
1979-80	259.57	1.1143	1.1323	594.25	0.4995	na	83.8
1980-81	248.28	1.1612	1.2331	759.70	0.5082	na	87.6
1981-82	257.36	1.1048	1.3742	776.58	0.6007	na	91.0
1982-83	232.66	0.9383	1.3334	705.45	0.5808	na	81.8
1983-84	211.95	0.9057	1.3820	718.69	0.6235	na	81.5
1984-85	192.55	0.7741	1.6108	643.20	0.6339	na	75.5
1985-86	140.21	0.6979	1.2905	625.70	0.4852	na	62.3
1986-87	100.84	0.6609	1.2305	567.40	0.4334	na	53.8
1987-88	97.11	0.7262	1.1215	565.90	0.4152	na	54.8
1988-89	106.55	0.8139	1.3017	560.80	0.4741	na	61.6
1989-90	112.49	0.7667	1.3021	529.40	0.4701	na	60.0
1990-91	107.01	0.7824	1.3036	564.40	0.4218	na	58.9
1991-92	100.45	0.7664	1.3796	584.60	0.4359	na	55.4
1992-93	82.57	0.6968	1.3061	552.93	0.4470	na	52.3
1993-94	73.01	0.6889	1.2239	568.41	0.4598	na	51.4
1994-95	69.96	0.7390	1.1687	584.81	0.4679	na	52.8
1995-96	77.02	0.7553	1.1298	589.54	0.4876	na	54.8
1996-97	89.90	0.7801	1.1183	666.68	0.4828	na	58.7
1997-98	85.56	0.6797	1.1417	850.78	0.4124	na	58.3
1998-99	77.55	0.6257	1.1814	784.10	0.3806	0.5907	56.0
1999-00	67.88	0.6295	1.2475	726.10	0.3946	0.6281	55.2
2000-01	61.42	0.5391	1.2664	653.24	0.3706	0.6040	50.3
2001-02	65.90	0.5238	1.2149	677.22	0.3626	0.5853	50.6
2002-03	69.75	0.5838	1.1205	705.21	0.3676	0.5577	53.4
2003-04	78.56	0.7113	1.1296	841.00	0.4087	0.5968	61.4
2004-05	80.14	0.7513	1.0773	807.38	0.4037	0.5904	62.7
2005-06	85.45	0.7457	1.1133	753.72	0.4182	0.6104	63.3
2006-07	92.72	0.7840	1.1443	749.16	0.4051	0.5990	64.8
2007-08	98.58	0.8958	1.1648	858.64	0.4467	0.6079	69.7
2008-09	74.58	0.7494	1.2277	945.36	0.4619	0.5412	60.4
2009-10	80.76	0.8831	1.2497	1 042.16	0.5583	0.6343	68.9
2010-11	81.99	0.9864	1.2953	1 117.75	0.6187	0.7221	73.9

a Period average. b Base: May 1970 = 100. na Not available.

Sources: ABS, *Average Monthly Exchange Rates*, cat. no. 5654.0, Canberra; Reserve Bank of Australia, *Bulletin*, Sydney; Commonwealth Bank of Australia; OANDA - the currency website.

9 Exchange rates of selected countries a

	Australia A\$/US\$	Japan ¥/US\$	Euro €/US\$	United Kingdom £/US\$	Real effective exchange rates b		
					United States	Japan	Germany
1966	0.8971	360.00	na	0.3584	na	na	na
1967	0.8972	360.00	na	0.4156	na	na	na
1968	0.8971	360.00	na	0.4194	na	na	na
1969	0.8986	360.00	na	0.4165	na	na	na
1970	0.8965	360.00	na	0.4178	na	na	na
1971	0.8789	347.79	na	0.4091	na	na	na
1972	0.8389	303.13	na	0.3995	na	na	na
1973	0.7027	271.31	na	0.4077	na	na	na
1974	0.6938	291.84	na	0.4273	na	na	na
1975	0.7636	296.78	na	0.4501	140.1	113.7	104.2
1976	0.8163	296.45	na	0.5541	143.7	112.5	104.5
1977	0.9016	268.62	na	0.5731	141.3	120.6	106.0
1978	0.8736	210.39	na	0.5213	123.5	99.6	106.7
1979	0.8945	219.02	na	0.4712	121.9	87.8	116.4
1980	0.8772	226.63	na	0.4302	96.6	75.0	110.0
1981	0.8702	220.63	na	0.4940	106.3	80.0	100.4
1982	0.9842	249.06	na	0.5721	118.8	72.5	102.3
1983	1.1094	237.55	na	0.6597	124.4	78.5	102.9
1984	1.1384	237.46	na	0.7481	132.0	82.0	98.4
1985	1.4298	238.47	na	0.7708	136.7	84.0	95.7
1986	1.4972	168.35	na	0.6813	114.9	107.7	101.3
1987	1.4316	144.60	na	0.6098	103.4	113.5	104.7
1988	1.2799	128.17	na	0.5614	96.4	118.8	100.7
1989	1.2663	138.07	na	0.6104	99.7	109.0	98.5
1990	1.2842	145.00	na	0.5605	95.3	97.6	101.6
1991	1.2884	134.59	na	0.5658	93.9	104.3	99.8
1992	1.4189	126.78	na	0.5662	91.6	107.2	104.5
1993	1.4739	111.08	na	0.6660	94.3	125.6	108.6
1994	1.3729	102.18	na	0.6528	93.8	133.5	109.4
1995	1.3555	93.96	na	0.6335	90.7	135.7	114.3
1996	1.2828	108.78	na	0.6407	93.4	114.0	110.2
1997	1.3485	121.06	na	0.6106	97.9	107.3	103.8
1998	1.5935	130.99	na	0.6034	105.0	107.4	104.0
1999	1.5507	113.73	0.9387	0.6184	104.0	119.3	100.7
2000	1.7178	107.80	1.0832	0.6598	107.5	125.9	93.9
2001	1.9285	121.57	1.1171	0.6946	113.6	112.2	94.0
2002	1.8388	125.22	1.0578	0.6656	113.4	104.5	95.0
2003	1.5347	115.94	0.8833	0.6117	106.2	105.4	100.0
2004	1.3607	108.15	0.8040	0.5456	101.3	106.6	101.7
2005	1.3138	110.11	0.8033	0.5493	100.0	100.0	100.0
2006	1.3309	116.31	0.7960	0.5425	99.5	90.6	99.3
2007	1.1934	117.76	0.7293	0.4995	94.8	83.3	101.2
2008	1.1737	103.39	0.6791	0.5392	91.1	90.2	101.8
2009	1.2589	93.68	0.7176	0.6385	95.1	101.5	102.3
2010	1.0884	87.78	0.7541	0.6206	91.5	102.8	97.5

a Period average. b The nominal exchange rate, trade weighted against 44 world currencies, adjusted for relative wholesale prices. Base: 2005 = 100.
na Not available.

Sources: ABS, *Average Monthly Exchange Rates*, cat. no. 5654.0, Canberra; Reserve Bank of Australia; U.S. Federal Reserve; World Bank.

10 Growth of real gross domestic product in selected countries

	Australia %	United States %	European Union %	Japan %	OECD %	China %	Korea, Rep. of %
1965	5.0	6.4	4.2	5.8	5.3	16.4	5.7
1966	2.7	6.5	4.1	10.6	5.5	10.7	12.2
1967	7.4	2.5	4.4	11.1	3.7	- 5.7	5.9
1968	5.2	4.8	5.0	12.9	5.4	- 4.1	11.3
1969	6.8	3.1	5.5	12.5	5.7	16.9	13.8
1970	6.8	0.2	4.8	4.3	3.6	19.4	8.8
1971	3.8	3.4	3.3	4.7	3.5	7.0	8.2
1972	1.9	5.3	4.5	8.4	5.2	3.8	4.5
1973	5.0	5.8	6.2	8.0	6.3	7.9	12.0
1974	1.5	- 0.6	2.3	- 1.2	0.8	2.3	7.2
1975	1.9	- 0.2	- 0.6	3.1	0.2	8.7	5.9
1976	4.4	5.4	4.5	4.0	4.9	- 1.6	10.6
1977	1.3	4.6	2.8	4.4	3.7	7.6	10.0
1978	2.3	5.6	3.1	5.3	4.4	11.7	9.3
1979	4.2	3.1	3.6	5.5	3.7	7.6	6.8
1980	2.9	- 0.3	1.4	2.8	0.9	7.8	- 1.5
1981	4.1	2.5	0.2	4.2	2.0	5.2	6.2
1982	0.1	- 1.9	1.1	3.4	0.2	9.1	7.3
1983	- 0.5	4.5	1.8	3.1	3.1	10.9	10.8
1984	6.3	7.2	2.6	4.5	4.9	15.8	8.1
1985	5.5	4.1	2.5	6.3	3.9	12.9	6.8
1986	2.4	3.5	2.8	2.8	3.3	8.9	10.6
1987	4.9	3.2	2.8	4.1	3.6	11.6	11.1
1988	4.5	4.1	4.2	7.1	4.7	11.3	10.6
1989	4.4	3.6	3.5	5.4	4.0	4.1	6.7
1990	1.7	1.9	2.7	5.6	3.1	3.8	9.2
1991	- 1.1	- 0.2	1.2	3.3	1.5	9.2	9.4
1992	2.8	3.4	0.9	0.8	2.1	14.2	5.9
1993	3.9	2.9	- 0.2	0.2	1.5	14.0	6.1
1994	4.8	4.1	2.9	0.9	3.4	13.1	8.5
1995	3.3	2.5	2.7	1.9	2.8	10.9	9.2
1996	4.3	3.7	1.9	2.6	3.0	10.0	7.0
1997	4.2	4.5	2.8	1.6	3.5	9.3	4.7
1998	5.1	4.4	3.0	- 2.0	2.6	7.8	- 6.9
1999	4.2	4.8	3.1	- 0.1	3.7	7.6	10.7
2000	3.4	4.1	3.9	2.9	4.2	8.4	8.8
2001	2.6	1.1	2.0	0.2	1.4	8.3	4.0
2002	4.0	1.8	1.2	0.3	1.7	9.1	7.2
2003	3.3	2.5	1.3	1.4	1.9	10.0	2.8
2004	3.8	3.5	2.5	2.7	3.1	10.1	4.6
2005	3.1	3.1	1.9	1.9	2.7	11.3	4.0
2006	2.6	2.7	3.2	2.0	3.1	12.7	5.2
2007	4.6	1.9	2.9	2.4	2.8	14.2	5.1
2008	2.6	- 0.3	0.4	- 1.2	0.1	9.6	2.3
2009	1.4	- 3.5	- 4.3	- 6.3	- 3.7	9.2	0.3
2010	2.7	3.0	1.9	4.1	3.1	10.3	6.2

Sources: ABS, *Australian National Accounts, National Income, Expenditure and Product*, cat. no. 5206.0, Canberra; International Monetary Fund, *International Financial Statistics*; World Bank; U.S Bureau of Economic Analysis.

11 Growth of industrial production in selected countries

	Australia %	United States %	Japan %	Germany ^a %	United Kingdom %	OECD %	China %	Korea, Rep. of %
1966	1.7	8.8	13.2	1.7	1.2	7.2	24.9	23.1
1967	5.6	2.1	19.4	- 2.1	- 0.7	2.9	- 15.7	26.2
1968	5.7	5.6	15.4	12.3	5.1	6.9	- 9.0	31.7
1969	6.6	4.6	16.0	13.1	3.4	8.7	35.9	19.5
1970	4.6	- 3.3	13.8	6.5	0.5	3.2	38.5	11.9
1971	3.9	1.4	2.6	0.9	- 0.6	1.8	13.4	15.2
1972	1.2	7.3	7.2	3.7	1.8	6.4	6.5	14.6
1973	10.2	8.2	15.0	6.4	9.0	9.4	8.7	33.6
1974	3.1	- 0.4	- 4.0	- 1.7	- 2.0	- 0.1	- 0.4	27.4
1975	- 7.6	- 8.9	- 11.0	- 6.2	- 5.4	- 8.3	15.0	19.0
1976	5.1	7.8	11.1	6.7	3.2	7.7	- 3.8	29.8
1977	- 1.6	7.7	4.1	2.6	5.2	4.5	14.8	19.9
1978	1.5	5.5	6.3	1.9	2.8	3.4	17.1	22.9
1979	5.2	3.0	7.4	5.0	2.1	4.4	8.1	11.7
1980	0.6	- 2.6	4.7	0.0	- 6.9	- 0.3	10.9	- 1.8
1981	3.0	1.3	1.0	- 1.8	- 4.1	- 0.2	1.7	12.7
1982	- 0.5	- 5.1	0.3	- 3.3	0.2	- 2.5	6.0	5.0
1983	- 2.9	2.6	3.0	0.7	2.6	2.0	9.9	15.8
1984	6.9	9.1	9.5	3.0	0.6	6.9	14.9	15.0
1985	8.0	1.3	3.7	4.8	5.1	2.5	19.6	4.4
1986	- 0.2	1.0	- 0.2	1.8	2.2	1.5	9.6	20.9
1987	4.8	5.0	3.4	0.4	4.1	3.9	13.0	19.2
1988	5.5	5.0	9.6	3.6	5.2	5.8	17.4	13.3
1989	4.6	0.9	5.9	4.9	2.1	3.3	6.0	3.4
1990	2.4	0.9	4.0	5.2	0.0	2.2	5.5	8.6
1991	- 3.6	- 1.5	1.7	3.5	- 3.3	0.1	12.8	9.5
1992	0.0	2.8	- 6.1	- 2.4	0.4	- 0.8	21.2	6.0
1993	2.9	3.3	- 3.9	- 7.9	2.2	- 1.0	21.9	4.4
1994	5.0	5.4	1.0	3.2	5.3	4.2	21.4	11.1
1995	1.2	4.9	2.3	0.8	1.8	3.6	16.1	12.0
1996	3.7	4.5	2.3	0.2	2.0	2.4	15.1	8.6
1997	2.0	7.2	3.5	3.0	1.2	4.6	13.2	4.8
1998	3.0	5.8	- 6.6	3.8	0.2	1.1	9.6	- 6.2
1999	3.3	4.3	0.3	1.1	2.5	3.1	9.8	24.4
2000	5.4	4.0	5.5	5.1	1.7	5.1	11.2	16.9
2001	0.1	- 3.3	- 6.3	0.3	- 1.4	- 2.8	9.9	0.6
2002	2.9	0.2	- 1.1	- 1.1	- 1.7	- 0.2	12.7	8.0
2003	0.5	1.3	3.2	0.2	- 0.7	1.4	16.7	5.5
2004	0.0	2.3	4.8	3.1	1.4	2.9	16.3	10.4
2005	1.1	3.2	1.4	3.9	- 1.7	2.1	15.9	6.3
2006	- 0.4	2.2	4.4	6.1	0.1	3.1	15.4	8.4
2007	1.4	2.7	2.8	6.9	0.4	3.0	18.5	6.9
2008	2.0	- 3.3	- 3.3	0.2	- 3.0	- 2.4	12.9	3.4
2009	- 1.7	- 9.8	- 21.3	- 17.3	- 10.2	- 13.1	11.0	- 0.1
2010	4.4	3.3	15.4	11.5	2.1	6.9	15.7	16.2

^a West Germany until 1990; unified Germany from 1991.

Sources: International Monetary Fund, *International Financial Statistics Yearbook*, Washington DC; International Monetary Fund, *International Financial Statistics*.

12 Inflation and interest rates in selected countries

	Inflation rates ^a			Interest rates ^b			
				United States		Japan	
	United States %	Japan %	China %	Short term %	Long term %	Short term %	Long term %
1966	2.9	5.0	na	4.9	4.9	na	10.2
1967	3.1	4.0	na	4.3	5.1	na	10.3
1968	4.2	5.3	na	5.3	5.6	na	10.4
1969	5.5	5.2	na	6.7	6.7	na	10.5
1970	5.7	7.0	na	6.4	7.4	na	10.7
1971	4.4	6.4	na	4.3	6.2	na	10.8
1972	3.2	4.8	na	4.1	6.2	na	9.9
1973	6.2	11.6	na	7.0	6.9	na	10.8
1974	11.0	23.2	na	7.9	7.6	na	13.8
1975	9.1	11.8	na	5.8	8.0	na	13.7
1976	5.8	9.4	na	5.0	7.6	na	12.9
1977	6.5	8.1	na	5.3	7.4	na	10.9
1978	7.6	4.2	na	7.2	8.4	na	9.0
1979	11.3	3.7	na	10.1	9.4	6.6	11.4
1980	13.5	7.8	6.0	11.4	11.4	10.9	13.7
1981	10.3	4.9	2.4	14.0	13.9	7.6	12.9
1982	6.2	2.7	1.9	10.6	13.0	7.0	12.0
1983	3.2	1.9	1.5	8.6	11.1	6.7	11.0
1984	4.3	2.3	2.8	9.5	12.5	6.5	10.1
1985	3.6	2.0	9.3	7.5	10.6	6.8	9.4
1986	1.9	0.6	6.5	6.0	7.7	5.1	7.3
1987	3.6	0.1	7.3	5.8	8.4	4.2	6.3
1988	4.1	0.7	18.8	6.7	8.9	4.5	6.3
1989	4.8	2.3	18.0	8.1	8.5	5.4	7.5
1990	5.4	3.0	3.1	7.5	8.6	7.7	10.9
1991	4.2	3.3	3.4	5.4	7.9	7.3	9.7
1992	3.0	1.7	6.4	3.4	7.0	4.4	7.3
1993	3.0	1.3	14.7	3.0	5.9	3.0	5.5
1994	2.6	0.7	24.1	4.3	7.1	2.2	5.5
1995	2.8	- 0.1	17.1	5.5	6.6	1.2	3.8
1996	3.0	0.1	8.3	5.0	6.4	0.6	3.3
1997	2.3	1.8	2.8	5.1	6.4	0.6	2.5
1998	1.6	0.7	- 0.8	4.8	5.3	0.7	1.6
1999	2.2	- 0.3	- 1.4	4.6	5.7	0.2	1.8
2000	3.4	- 0.7	0.4	5.8	6.0	0.2	1.7
2001	2.8	- 0.8	0.7	3.4	5.0	0.1	1.3
2002	1.6	- 0.9	- 0.8	1.6	4.6	0.1	1.3
2003	2.3	- 0.2	1.2	1.0	4.0	0.0	1.0
2004	2.7	- 0.0	3.9	1.4	4.3	0.0	1.5
2005	3.4	- 0.3	1.8	3.2	4.3	0.0	1.4
2006	3.2	0.2	1.5	4.7	4.8	0.2	1.7
2007	2.8	0.1	4.8	4.4	4.6	0.7	1.7
2008	3.8	1.4	5.9	1.4	3.7	0.7	1.4
2009	- 0.4	- 1.3	- 0.7	0.2	3.3	0.3	1.3
2010	1.6	- 0.7	3.3	0.1	3.2	0.2	1.2

^a Percentage change in consumer price indexes. ^b Period average: United States – 3-month Treasury bill rate and 10-year government bond yield; Japan – 3-month certificate of deposit rate and 10-year government bond yield. **na** Not available.

Sources: U.S. Bureau of Labour Statistics; OECD, *Main Economic Indicators*, Paris; International Monetary Fund, *World Economic Outlook database*; U.S. Federal Reserve; Bank of Japan.

13 Population in selected countries and regions a

	Australia b million	United States million	European Union c million	Japan million	China million	Other East Asia d million	India million	World million
1966	11.8	201.7	424.0	98.5	727.6	224.8	507.1	3 400.8
1967	12.0	203.7	427.1	99.7	747.7	230.9	518.2	3 472.0
1968	12.3	205.7	429.9	101.0	769.7	237.1	529.7	3 545.6
1969	12.5	207.6	432.7	102.3	792.3	243.3	541.5	3 620.7
1970	12.7	209.5	435.4	103.7	814.6	249.7	553.9	3 696.2
1971	12.9	211.4	438.2	105.1	836.4	256.2	566.7	3 772.0
1972	13.1	213.3	440.8	106.6	857.8	262.7	579.9	3 848.3
1973	13.3	215.2	443.4	108.1	878.3	269.4	593.5	3 924.7
1974	13.4	217.1	445.9	109.5	897.5	276.1	607.6	4 000.8
1975	13.6	219.1	448.2	110.8	915.0	282.8	622.1	4 076.4
1976	13.8	221.2	450.4	112.0	930.7	289.5	637.0	4 151.4
1977	14.0	223.3	452.5	113.1	944.7	296.3	652.3	4 225.9
1978	14.2	225.4	454.5	114.1	957.6	303.0	667.9	4 300.4
1979	14.4	227.6	456.3	115.0	970.2	309.9	683.9	4 375.9
1980	14.6	229.8	457.9	115.9	983.2	316.9	700.1	4 453.0
1981	15.1	232.0	459.4	116.8	996.7	324.0	716.5	4 531.8
1982	15.3	234.3	460.7	117.7	1 010.6	331.1	733.2	4 612.1
1983	15.5	236.5	461.8	118.6	1 025.1	338.3	750.0	4 694.1
1984	15.7	238.8	463.0	119.3	1 040.4	345.5	767.1	4 777.8
1985	15.9	241.1	464.2	120.0	1 056.6	352.7	784.5	4 863.3
1986	16.1	243.5	465.5	120.6	1 073.8	359.9	802.1	4 950.6
1987	16.4	245.9	466.8	121.0	1 091.9	367.0	819.8	5 039.5
1988	16.7	248.4	468.2	121.4	1 110.3	374.0	837.7	5 129.1
1989	16.9	250.9	469.5	121.8	1 128.3	380.8	855.7	5 218.4
1990	17.2	253.3	471.0	122.3	1 145.2	387.5	873.8	5 306.4
1991	17.4	255.8	472.4	122.7	1 160.8	393.9	891.9	5 392.9
1992	17.6	258.3	473.9	123.2	1 175.2	400.1	910.1	5 478.0
1993	17.8	260.8	475.4	123.7	1 188.7	406.2	928.2	5 561.7
1994	18.0	263.5	476.7	124.1	1 201.5	412.3	946.4	5 644.4
1995	18.2	266.3	477.8	124.5	1 214.0	418.3	964.5	5 726.2
1996	18.4	269.4	478.6	124.8	1 226.1	424.4	982.6	5 807.2
1997	18.6	272.6	479.2	125.1	1 237.8	430.6	1 000.6	5 887.3
1998	18.8	276.0	479.7	125.3	1 249.0	436.7	1 018.5	5 966.5
1999	19.0	279.3	480.4	125.5	1 259.5	442.9	1 036.3	6 044.9
2000	19.3	282.5	481.5	125.7	1 269.1	449.1	1 053.9	6 122.8
2001	19.5	285.5	482.9	125.9	1 277.9	455.3	1 071.4	6 200.0
2002	19.8	288.5	484.6	126.0	1 285.9	461.5	1 088.7	6 276.7
2003	20.0	291.3	486.6	126.2	1 293.4	467.7	1 105.9	6 353.2
2004	20.3	294.1	488.6	126.3	1 300.6	473.8	1 123.0	6 429.8
2005	20.5	296.8	490.7	126.4	1 307.6	479.7	1 140.0	6 506.6
2006	20.9	299.6	492.8	126.5	1 314.6	485.4	1 157.0	6 584.0
2007	21.3	302.3	494.9	126.5	1 321.5	491.0	1 174.0	6 661.6
2008	21.7	305.0	496.9	126.5	1 328.3	496.5	1 190.9	6 739.6
2009	22.1	307.7	498.7	126.6	1 334.9	501.8	1 207.7	6 817.7
2010	22.4	310.4	500.4	126.5	1 341.3	507.1	1 224.6	6 895.9

a Midyear. b End of year. c Regarded as 27 countries. d Chinese Taipei, Indonesia, Malaysia, the Philippines, Republic of Korea, Singapore, Thailand.

Sources: ABS, *Australian Demographic Statistics*, cat. no. 3101.0, Canberra; United Nations, *World population Prospects: The 2010 Revision*, New York.

14 Australian farm returns, costs and prices

	Gross value of farm production \$m	Farm costs \$m	Net value of farm production \$m	Index of real net value of farm production a	Index of prices received b	Index of prices paid b	Farmers' terms of trade bc	Consumer price index d
1970-71	3 569	2 713	856	151.8	23.9	13.9	171.6	10.0
1971-72	3 971	2 793	1 178	195.2	26.0	14.9	175.3	10.7
1972-73	4 962	3 103	1 859	290.5	35.6	16.2	219.9	11.3
1973-74	6 412	3 594	2 818	390.0	43.1	18.4	234.3	12.8
1974-75	5 874	4 196	1 678	198.8	36.9	23.4	158.0	14.9
1975-76	6 170	4 832	1 338	140.4	39.0	27.0	144.3	16.8
1976-77	6 755	5 278	1 477	136.1	42.5	30.1	141.1	19.2
1977-78	6 984	5 742	1 242	104.5	44.5	33.3	133.8	21.0
1978-79	10 204	6 629	3 575	278.2	54.0	35.5	152.1	22.7
1979-80	11 764	7 761	4 003	282.6	64.3	39.5	162.7	25.0
1980-81	11 580	8 739	2 841	183.4	68.4	44.9	152.2	27.4
1981-82	12 704	10 205	2 499	146.1	67.7	49.9	135.7	30.2
1982-83	11 714	11 403	311	16.3	71.1	55.3	128.6	33.7
1983-84	15 425	12 255	3 170	155.5	74.6	59.8	124.8	36.0
1984-85	15 443	12 896	2 547	119.9	76.6	63.4	121.0	37.5
1985-86	15 407	14 051	1 356	58.9	76.6	68.3	112.2	40.7
1986-87	16 928	15 386	1 542	61.2	82.8	74.2	111.5	44.5
1987-88	19 962	16 727	3 235	119.7	99.5	77.4	128.5	47.8
1988-89	22 863	18 330	4 533	156.2	112.4	84.4	133.2	51.3
1989-90	23 585	20 008	3 577	114.1	109.3	90.1	121.3	55.4
1990-91	21 261	20 168	1 093	31.7	93.6	90.9	102.9	58.3
1991-92	21 157	19 392	1 765	52.8	94.5	90.8	104.1	59.4
1992-93	22 704	19 340	3 364	99.2	93.7	89.5	104.7	60.0
1993-94	24 511	20 187	4 324	125.2	97.4	91.1	106.8	61.1
1994-95	24 035	21 708	2 327	65.2	112.0	95.0	118.0	63.1
1995-96	27 779	22 913	4 866	130.9	111.2	99.5	111.8	65.7
1996-97	28 708	23 910	4 798	127.5	101.6	99.4	102.2	66.6
1997-98	28 813	23 885	4 928	130.9	100.0	100.0	100.0	66.6
1998-99	29 150	24 511	4 639	121.7	96.1	100.6	95.6	67.4
1999-00	30 768	25 223	5 544	142.0	96.3	104.7	92.0	69.1
2000-01	34 773	26 657	8 116	196.1	108.5	110.1	98.5	73.2
2001-02	39 898	27 258	12 640	296.8	122.0	112.9	108.1	75.3
2002-03	33 266	27 766	5 499	124.5	122.7	121.5	101.1	77.6
2003-04	37 396	28 991	8 405	186.0	117.2	123.0	95.3	79.4
2004-05	36 563	29 243	7 320	158.6	116.7	126.3	92.3	81.4
2005-06	38 646	31 339	7 307	154.6	118.6	129.4	91.7	84.0
2006-07	36 663	31 443	5 220	106.1	130.4	135.9	96.0	86.4
2007-08	43 752	37 137	6 615	129.5	141.7	155.1	91.4	89.3
2008-09	41 893	36 631	5 263	105.4	132.5	149.0	88.9	92.1
2009-10	39 636	34 354	5 282	102.3	125.1	140.8	88.8	94.3
2010-11	48 674	36 576	12 097	236.7	147.0	145.3	101.2	97.2

a Obtained by deflating the net value of farm production by the consumer price index. **b** ABARE revised the method for calculating farm, price and production indexes in October 1999. The indexes for the different groups of farm commodities are now calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100. **c** Ratio of index of prices received by farmers to index of prices paid by farmers. **d** Base year 2011-12 = 100.

Sources: ABS, *Australian National Accounts, National Income and Expenditure*, cat. no. 5206.0, Canberra; ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

15 Volume of Australian farm production

	Crops			Livestock			
	Grains and oilseeds	Other crops	Total crops	Livestock slaughterings	Livestock products	Total livestock	Total farm
	index	index	index	index	index	index	index
1966-67	44.9	35.0	38.2	43.7	88.5	62.8	49.3
1967-68	26.2	31.6	28.4	45.8	88.1	64.2	43.6
1968-69	50.4	40.7	42.2	48.0	93.1	69.1	52.5
1969-70	38.8	36.7	36.4	51.9	98.0	74.0	51.2
1970-71	35.9	37.1	35.2	55.0	95.7	75.1	50.8
1971-72	39.7	39.8	38.4	60.1	94.8	78.0	53.9
1972-73	28.9	39.1	33.1	66.8	83.8	76.9	50.6
1973-74	46.0	34.8	39.5	65.5	80.4	74.5	53.2
1974-75	44.3	35.8	39.1	61.4	86.0	75.3	53.3
1975-76	48.4	34.9	40.6	74.0	82.6	79.4	55.8
1976-77	46.6	37.4	41.1	79.2	76.3	78.4	56.0
1977-78	39.2	40.8	39.4	86.8	74.5	81.0	55.8
1978-79	71.2	41.1	54.9	82.9	76.5	79.9	64.8
1979-80	63.6	41.9	51.6	72.5	76.8	73.9	60.1
1980-81	46.7	44.0	44.4	70.3	73.7	71.3	55.2
1981-82	66.2	48.6	56.1	73.6	75.0	73.7	62.9
1982-83	37.2	48.8	41.6	74.3	75.4	74.2	54.8
1983-84	88.6	53.7	69.6	69.0	79.5	73.4	70.3
1984-85	80.5	55.7	66.6	68.9	85.5	76.1	69.8
1985-86	71.7	59.4	64.0	72.4	87.0	78.6	69.5
1986-87	70.3	58.8	63.0	77.1	92.3	83.5	71.3
1987-88	60.5	63.8	61.2	79.7	94.0	85.6	71.4
1988-89	65.0	62.1	62.4	76.2	97.4	85.9	72.3
1989-90	65.3	65.1	64.2	82.5	108.1	94.3	77.2
1990-91	67.9	73.4	70.0	84.7	106.5	94.7	80.3
1991-92	61.7	78.1	69.9	87.7	95.5	91.2	78.6
1992-93	77.1	78.9	77.3	89.4	98.6	93.6	83.7
1993-94	85.4	80.4	81.7	91.3	99.9	95.2	87.0
1994-95	51.1	73.6	62.8	92.1	94.2	93.1	75.7
1995-96	89.7	82.0	85.2	91.4	94.5	92.9	88.6
1996-97	115.0	88.4	100.1	94.9	98.3	96.5	98.7
1997-98	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998-99	115.6	102.9	108.2	102.9	104.3	103.5	106.1
1999-00	126.8	109.2	116.5	104.9	107.1	105.9	111.7
2000-01	118.0	104.0	109.8	110.7	104.5	108.3	109.2
2001-02	130.5	103.4	115.1	108.0	103.9	106.4	111.1
2002-03	59.3	95.7	77.4	109.9	96.0	104.4	90.6
2003-04	138.7	102.7	116.5	104.4	91.9	99.4	108.5
2004-05	113.2	109.7	110.0	109.3	93.1	102.9	107.2
2005-06	133.2	109.9	118.2	108.5	93.1	102.4	110.8
2006-07	58.2	104.3	84.0	115.5	88.9	105.2	94.8
2007-08	88.0	113.9	103.9	113.4	84.8	102.3	103.9
2008-09	116.2	103.9	113.4	112.1	83.2	100.8	108.2
2009-10	116.6	105.9	114.4	109.6	81.8	98.7	107.5
2010-11	140.3	110.3	127.5	110.6	81.2	99.2	114.0

Note: ABARE revised the method for calculating farm production indexes in October 1999. The indexes for the different groups of farm commodities are now calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100.

Sources: ABS, *Australian National Accounts, National Income and Expenditure*, cat. no. 5206.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

16 Gross value of Australian farm production

	Crops			Livestock			Total farm \$m
	Grains and oilseeds	Other crops	Total crops	Livestock slaughterings ^a	Livestock products	Total livestock	
	\$m	\$m	\$m	\$m	\$m	\$m	
1965-66	525	657	1 181	834	1 301	2 135	3 316
1966-67	897	742	1 639	858	1 327	2 185	3 825
1967-68	557	712	1 269	883	1 190	2 073	3 342
1968-69	906	811	1 717	894	1 336	2 230	3 947
1969-70	703	750	1 454	1 010	1 269	2 279	3 732
1970-71	682	795	1 477	1 013	1 079	2 092	3 569
1971-72	746	852	1 598	1 137	1 236	2 373	3 971
1972-73	614	968	1 582	1 547	1 832	3 380	4 962
1973-74	1 770	1 089	2 859	1 696	1 857	3 553	6 412
1974-75	1 772	1 432	3 204	1 019	1 651	2 670	5 874
1975-76	1 859	1 389	3 247	1 246	1 676	2 923	6 170
1976-77	1 651	1 538	3 189	1 685	1 881	3 566	6 755
1977-78	1 455	1 592	3 047	1 967	1 970	3 937	6 984
1978-79	3 093	1 815	4 908	3 082	2 215	5 296	10 204
1979-80	3 366	2 175	5 541	3 659	2 565	6 223	11 764
1980-81	2 666	2 641	5 307	3 474	2 799	6 274	11 580
1981-82	3 652	2 660	6 312	3 296	3 096	6 392	12 704
1982-83	2 334	2 682	5 017	3 452	3 246	6 698	11 714
1983-84	5 188	3 239	8 426	3 509	3 490	6 998	15 425
1984-85	4 785	3 083	7 867	3 783	3 793	7 576	15 443
1985-86	4 074	3 278	7 352	3 929	4 125	8 054	15 407
1986-87	3 697	3 683	7 379	4 633	4 916	9 548	16 928
1987-88	3 520	4 119	7 639	5 077	7 247	12 324	19 962
1988-89	4 628	5 015	9 643	5 308	7 911	13 219	22 863
1989-90	4 447	5 429	9 876	5 902	7 807	13 709	23 585
1990-91	3 515	5 654	9 168	5 739	6 354	12 093	21 261
1991-92	4 011	6 143	10 154	5 751	5 253	11 004	21 157
1992-93	4 615	6 836	11 451	6 046	5 207	11 252	22 704
1993-94	5 153	7 317	12 470	6 874	5 167	12 041	24 511
1994-95	3 997	7 362	11 359	6 680	5 995	12 676	24 035
1995-96	7 464	8 177	15 641	6 431	5 707	12 138	27 779
1996-97	8 123	8 455	16 578	6 376	5 754	12 130	28 708
1997-98	6 708	9 155	15 864	6 992	5 958	12 950	28 813
1998-99	7 126	9 357	16 483	7 256	5 412	12 667	29 150
1999-00	8 074	9 269	17 343	7 944	5 481	13 425	30 768
2000-01	8 694	10 358	19 052	9 738	5 983	15 721	34 773
2001-02	10 867	10 738	21 605	11 434	6 859	18 293	39 898
2002-03	5 480	10 605	16 085	10 676	6 505	17 181	33 266
2003-04	9 880	10 984	20 863	10 896	5 637	16 533	37 396
2004-05	7 381	11 362	18 743	12 033	5 788	17 820	36 563
2005-06	8 793	12 058	20 851	11 960	5 836	17 796	38 646
2006-07	5 090	13 321	18 411	12 335	5 917	18 252	36 663
2007-08	10 803	13 434	24 237	12 104	7 412	19 516	43 752
2008-09	10 778	12 037	22 815	12 752	6 327	19 079	41 893
2009-10	8 676	12 509	21 185	12 634	5 816	18 450	39 636
2010-11	12 837	14 709	27 546	14 010	7 118	21 127	48 674

^a Includes value of live exports for breeding and slaughter purposes.

Sources: ABS, *Australian National Accounts, National Income and Expenditure*, cat. no. 5206.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

17 Value of Australian agricultural exports (fob)

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Grains and oilseeds								
Wheat (including flour)	3 475	3 488	3 296	2 765	2 990	5 028	3 692	5 526
Barley (including malt)	1 239	1 275	1 108	833	1 496	1 321	1 093	1 295
Oats	38	36	47	20	37	64	53	37
Sorghum	61	96	33	13	76	405	116	146
Rice	145	173	171	347	110	143	59	199
Lupins	148	89	99	38	31	61	115	90
Peas ^a	56	33	43	80	61	62	60	85
Chickpeas	71	65	106	168	139	275	255	213
Canola	453	397	331	108	303	595	583	855
Cottonseed	62	55	53	31	8	19	46	85
Other oilseeds ^b	26	33	21	22	27	27	24	14
Total grains and oilseeds	5 773	5 739	5 308	4 426	5 278	8 001	6 094	8 546
Industrial crops								
Raw cotton ^c	982	771	1 137	823	466	500	755	1 367
Sugar	982	1 098	1 454	1 510	1 006	1 338	1 887	1 492
Wine	2 545	2 748	2 799	2 990	2 683	2 428	2 164	1 957
Total industrial crops	4 509	4 617	5 391	5 323	4 155	4 266	4 805	4 816
Horticulture								
Fruit	586	632	653	627	606	692	593	463
Tree nuts	140	189	200	169	177	229	198	207
Vegetables	419	357	409	385	375	437	497	561
Nursery	32	36	33	30	28	26	20	17
Total horticulture	1 175	1 213	1 294	1 211	1 186	1 384	1 309	1 248
Other crops	2 044	2 116	2 010	2 131	2 451	3 349	3 023	3 096
Total crops	13 501	13 686	14 003	13 091	13 070	17 001	15 231	17 705
Meat and live animals for slaughter								
Beef and veal	3 793	4 584	4 272	4 634	4 190	4 857	3 953	4 328
Live cattle	314	335	341	436	446	538	550	499
Mutton	380	398	432	458	443	482	433	404
Lamb	602	673	767	748	803	925	916	1 026
Live sheep	266	207	291	289	286	339	297	346
Pig meat	181	150	143	142	128	124	109	106
Poultry meat	20	20	21	26	32	43	36	38
Canned meat	12	12	12	12	7	8	8	8
Total	5 556	6 366	6 267	6 732	6 329	7 308	6 293	6 747
Wool								
Greasy ^d	1 884	1 993	1 863	2 316	2 115	1 729	1 777	2 376
Semiprocessed	632	505	389	393	362	281	238	251
Skins	296	339	287	356	319	312	291	426
Total ^d	2 812	2 837	2 539	3 065	2 796	2 322	2 307	3 053
Dairy products								
Butter	183	188	225	179	195	232	211	252
Cheese	739	877	837	824	968	796	715	732
Casein	123	116	89	113	125	107	88	53
Skim milk powder	388	420	529	505	533	553	358	505
Wholemilk powder	322	324	334	275	392	475	296	402
Other dairy products	536	561	556	543	551	518	419	402
Total	2 290	2 486	2 570	2 439	2 764	2 682	2 088	2 346
Other livestock exports	2 419	2 496	2 436	2 577	2 611	2 836	2 632	2 678
Total livestock exports	13 077	14 185	13 812	14 814	14 500	15 147	13 319	14 824
Total farm exports	26 578	27 871	27 815	27 905	27 570	32 148	28 551	32 529

Continued

17 Value of Australian agricultural exports (fob) *continued*

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa								
Egypt	653	226	473	151	176	317	269	406
South Africa	128	116	118	130	116	158	113	110
Other	396	399	436	343	355	625	423	447
Total	1 176	741	1 027	624	647	1 101	805	963
Americas								
United States	3 049	3 162	2 964	2 981	2 503	2 999	2 356	2 163
Canada	412	451	431	423	397	377	334	332
Other	269	249	279	231	267	277	170	209
Total	3 730	3 862	3 674	3 636	3 166	3 652	2 860	2 703
North Asia								
China	2 282	2 771	2 857	3 064	2 932	3 216	3 660	4 665
Chinese Taipei	690	722	782	664	577	651	695	770
Japan	4 487	5 337	4 796	4 675	4 302	5 228	4 127	4 262
Korea, Rep. of	1 383	1 633	1 830	2 059	1 743	1 823	2 075	2 092
Other	380	364	402	361	406	559	1 935	2 252
Total	9 220	10 827	10 667	10 823	9 960	11 477	11 085	12 322
South East Asia								
Indonesia	1 435	1 491	1 694	1 773	1 835	2 630	2 295	2 563
Malaysia	895	939	795	811	793	1 017	876	910
Phillipines	398	358	290	243	315	491	320	508
Singapore	491	526	595	607	672	715	698	780
Thailand	500	503	598	477	514	632	606	817
Other	234	258	297	278	368	608	555	795
Total	3 953	4 076	4 268	4 190	4 496	6 093	5 349	6 373
South Asia	789	833	725	1 059	686	1 039	1 407	1 482
Middle East	1 394	1 765	1 876	1 549	2 187	3 557	2 364	3 108
Europe								
European Union ^e	2 678	2 696	2 560	2 423	2 512	2 628	1 802	2 491
Russian Federation	76	116	189	207	367	321	217	487
Other	79	75	76	60	66	53	72	85
Total	2 833	2 886	2 825	2 691	2 945	3 002	2 091	3 064
Oceania	1 335	1 427	1 446	1 605	1 753	1 882	1 738	1 762
New Zealand	998	1 078	1 101	1 227	1 306	1 401	1 385	1 334
Other ^f	2 148	1 454	1 307	1 728	1 729	346	851	753
Total	26 578	27 871	27 815	27 905	27 570	32 148	28 551	32 529

^a Field peas and cowpeas. ^b Includes soybeans, linseed, sunflowerseed, safflowerseed and peanuts. Excludes meals and oils. ^c Excludes cotton waste and linters. ^d On a balance of payments basis. ABS recorded trade data adjusted for changes in stock levels held overseas by Wool International. ^e 27 countries. ^f Includes commodities such as rice and lupins for which export data are not available by destination.

Note: For some agricultural commodities (namely, wheat, sugar and barley), data are only available by volume to specific export destinations. The country export values for these commodities are calculated using an average export unit return to all destinations.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Agriculture, Fisheries and Forestry; ABARES.

18 Value of Australian agricultural imports

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Grains and oilseeds								
Wheat	0	0	0	0	0	0	0	1
Rice	56	63	71	80	135	211	211	168
Canola	12	13	15	41	20	24	21	22
Cottonseed	7	3	3	11	10	37	7	4
Other grains and oilseeds	36	12	8	39	30	28	18	22
Total	111	90	97	171	195	300	257	217
Horticulture								
Fruit	587	704	741	846	928	991	943	1 022
Vegetables	527	512	528	621	731	842	744	786
Total	1 114	1 216	1 269	1 467	1 659	1 833	1 687	1 808
Industrial crops								
Cotton	0	1	0	0	0	0	0	1
Sugar	5	5	5	6	7	26	51	105
Wine	158	200	248	334	454	502	478	369
Total	164	207	253	340	460	528	529	474
Meat and live animals for slaughter								
Beef and veal	9	22	21	14	10	14	14	20
Sheep meat	2	1	2	1	2	5	10	10
Pig meat	210	314	258	421	362	500	468	441
Total	221	337	281	437	374	518	492	472
Wool								
Greasy	8	1	0	0	1	0	0	0
Dairy products								
Butter	26	31	31	36	82	54	72	84
Cheese	212	248	292	302	377	365	360	398
Casein	11	12	10	15	22	15	7	9
Wholemilk powder	16	19	18	18	35	35	35	42
Other dairy products	273	318	368	406	512	521	497	554
Total	330	384	432	480	656	631	615	694
Other farm imports a	4 217	4 583	4 938	5 679	6 152	7 157	6 959	7 364
Total farm Imports	6 164	6 818	7 270	8 574	9 498	10 968	10 539	11 028

a Consists largely of substantially and elaborately transformed foods. For more information see *Australian Food Statistics* report, Department of Agriculture, Fisheries and Forestry.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Agriculture, Fisheries and Forestry; ABARES.

19 Indexes of prices received by farmers in Australia

	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02
Crops sector									
Grains and oilseeds									
Wheat	88.3	124.9	136.3	107.5	100.0	94.5	98.7	117.4	132.3
Barley	79.0	135.1	143.7	116.6	100.0	87.7	107.9	125.1	130.8
Sorghum	85.9	112.3	119.0	106.7	100.0	88.1	72.6	85.1	102.2
Oats	65.6	131.3	112.9	100.3	100.0	63.7	77.5	96.5	128.2
Lupins	96.2	95.3	106.7	111.8	100.0	72.9	74.3	104.9	127.7
Canola	77.3	80.0	81.4	75.6	100.0	98.7	80.1	79.6	99.7
Total	89.9	120.9	126.1	105.1	100.0	92.0	94.5	108.7	123.4
Cotton	98.6	123.5	121.3	103.1	100.0	88.4	97.4	106.1	97.9
Sugar	102.8	112.7	110.2	100.0	100.0	93.2	72.2	70.4	88.5
Hay	78.3	108.8	102.3	93.6	100.0	98.4	100.0	110.7	104.2
Fruit	87.0	101.1	103.0	109.6	100.0	108.7	100.0	102.0	117.8
Wine grapes	58.0	72.8	82.4	88.5	100.0	109.7	99.3	108.7	81.8
Vegetables	100.6	115.1	115.2	100.9	100.0	108.2	100.4	107.5	104.3
Total crops sectors	92.5	115.2	118.2	104.1	100.0	96.9	94.9	104.7	111.9
Livestock sector									
Livestock for slaughter									
Cattle	134.1	126.1	104.9	93.0	100.0	105.6	119.3	144.2	167.7
Lambs	97.6	89.9	116.9	121.4	100.0	101.9	94.8	104.1	167.2
Sheep	48.4	58.3	85.9	85.0	100.0	83.7	69.5	117.9	204.7
Live sheep for export	66.8	82.8	98.5	92.7	100.0	94.0	95.3	111.4	156.1
Pigs	95.3	96.4	122.4	123.2	100.0	94.2	110.2	113.7	123.6
Poultry	101.7	98.2	99.6	107.2	100.0	94.1	90.2	90.1	93.0
Total	113.9	109.9	106.5	101.0	100.0	100.9	108.4	126.0	151.5
Livestock products									
Wool	75.2	115.4	93.3	91.9	100.0	79.2	81.4	98.3	117.4
Milk	99.2	96.5	108.2	103.4	100.0	95.5	87.9	97.0	110.5
Eggs	91.4	88.6	101.7	105.2	100.0	85.3	84.0	79.1	85.9
Honey	76.8	81.7	90.2	101.6	100.0	101.1	94.3	94.3	115.0
Total	86.1	105.8	100.8	98.1	100.0	87.5	84.5	95.8	110.9
Store and breeding stock	95.0	96.7	96.1	89.4	100.0	100.9	105.0	126.0	145.3
Total livestock sector	99.9	107.0	103.2	98.8	100.0	95.2	97.9	113.1	133.7
Total prices received	97.4	112.0	111.2	101.6	100.0	96.1	96.3	108.5	122.0

Continued

19 Indexes of prices received by farmers in Australia *continued*

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Crops sector									
Grains and oilseeds									
Wheat	134.4	109.1	99.6	102.5	122.4	197.2	142.1	110.4	144.4
Barley	159.9	105.9	100.1	93.9	153.3	196.9	145.3	108.6	127.2
Sorghum	120.9	93.8	79.4	84.6	126.1	152.4	121.3	126.7	130.9
Oats	160.3	101.1	98.2	107.8	235.8	136.9	158.3	116.9	108.7
Lupins	149.0	120.4	105.2	99.8	135.7	171.0	142.9	127.0	167.6
Canola	115.8	104.4	84.5	86.5	102.8	140.7	142.2	113.4	140.4
Total	135.2	105.2	95.8	97.2	128.5	178.3	137.4	108.8	134.3
Cotton	100.1	90.7	87.0	76.5	82.5	87.7	96.7	98.4	132.4
Sugar	84.2	75.5	83.5	90.9	108.4	80.6	98.3	137.8	139.4
Hay	155.0	125.0	128.0	143.7	230.7	254.6	219.0	181.5	151.1
Fruit	111.9	120.6	123.9	138.3	184.0	148.4	148.2	146.6	181.8
Wine grapes	100.5	99.7	88.7	76.5	109.3	97.7	65.4	57.6	51.3
Vegetables	121.5	126.0	119.1	133.8	141.3	153.7	152.9	150.4	167.3
Total crops sectors	120.2	107.0	101.1	103.9	127.6	138.0	120.2	109.0	128.5
Livestock sector									
Livestock for slaughter									
Cattle	144.8	160.3	177.2	181.3	174.3	164.6	171.3	163.7	183.2
Lambs	173.6	190.1	184.5	177.7	165.6	170.3	204.3	218.7	275.2
Sheep	194.3	230.3	196.1	202.7	156.2	183.3	216.8	343.3	472.0
Live sheep for export	179.3	178.0	164.1	176.1	179.1	180.7	214.2	249.3	305.7
Pigs	109.7	109.4	117.8	115.6	124.8	120.7	140.1	137.6	120.0
Poultry	98.5	97.7	91.9	83.5	84.5	109.4	120.0	114.2	115.6
Total	139.0	149.3	157.5	157.6	152.6	152.7	165.5	164.8	183.6
Livestock products									
Wool	153.0	119.6	105.9	100.4	115.5	127.9	109.2	116.0	186.7
Milk	90.7	93.4	105.7	111.0	111.1	166.1	142.3	125.2	145.4
Eggs	89.9	94.1	91.5	92.5	102.0	107.5	108.5	105.5	104.2
Honey	132.0	136.2	136.7	141.4	147.5	152.4	163.2	171.3	179.9
Total	113.9	103.3	104.7	105.7	112.2	147.0	127.5	120.0	154.8
Store and breeding stock	125.8	144.0	159.7	165.9	157.8	153.7	165.1	168.4	202.4
Total livestock sector	127.0	129.6	135.8	136.7	135.9	148.2	149.2	146.3	171.5
Total prices received	122.7	117.2	116.7	118.6	130.4	141.7	132.5	125.1	147.0

Note: The indexes for commodity groups are calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100.

Indexes for most individual commodities are based on annual gross unit value of production.

Source: ABARES.

20 Farm land use and livestock numbers in Australia

	Area used for ^a		Total area of farms million ha	Livestock numbers ^b		
	Wheat million ha	Other crops ^c million ha		Beef cattle million	Dairy cattle million	Sheep million
1970-71	6.5	4.7	497.2	19.83	3.90	171.74
1971-72	7.1	5.3	499.5	22.89	3.82	155.39
1972-73	7.6	4.6	499.8	24.65	3.79	134.10
1973-74	8.9	4.3	500.3	26.59	3.57	139.45
1974-75	8.3	4.2	499.9	28.52	3.53	145.83
1975-76	8.6	4.7	500.7	29.26	3.41	144.11
1976-77	9.0	4.7	491.5	27.83	3.12	131.32
1977-78	10.0	5.3	489.4	25.73	2.90	127.46
1978-79	10.2	5.6	493.2	23.68	2.73	130.50
1979-80	11.2	5.2	495.6	22.82	2.70	132.71
1980-81	11.3	5.2	495.4	22.37	2.80	131.44
1981-82	11.9	5.9	490.8	21.77	2.78	135.02
1982-83	11.5	5.7	483.8	19.72	2.76	130.51
1983-84	12.8	7.3	488.6	19.36	2.81	135.14
1984-85	12.0	7.3	489.2	19.98	2.81	145.67
1985-86	11.7	6.5	468.3	20.68	2.76	150.40
1986-87	11.1	5.4	471.0	20.96	2.70	153.18
1987-88	9.0	7.3	472.0	20.88	2.64	156.54
1988-89	8.8	6.8	466.9	21.42	2.61	164.91
1989-90	9.0	6.2	464.3	22.27	2.58	173.78
1990-91	9.2	6.6	462.8	22.88	2.49	166.57
1991-92	7.2	7.5	466.0	22.83	2.50	151.00
1992-93	9.1	7.5	460.1	22.65	2.53	140.54
1993-94	8.4	8.1	469.1	23.08	2.68	132.57
1994-95	7.9	7.8	463.3	22.99	2.74	120.86
1995-96	9.2	8.8	465.2	23.57	2.81	121.12
1996-97	10.9	9.1	462.2	23.74	2.96	120.23
1997-98	10.4	9.7	463.8	23.78	3.08	117.49
1998-99	11.5	10.3	453.7	23.36	3.22	117.49
1999-00	12.2	9.8	455.5	24.45	3.14	118.55
2000-01	12.1	10.4	455.7	24.50	3.22	110.93
2001-02	11.5	10.5	447.0	24.74	3.13	106.17
2002-03	11.2	10.2	439.5	23.62	3.05	99.25
2003-04	13.1	10.7	440.1	24.41	3.06	101.29
2004-05	13.4	11.0	445.1	25.32	2.86	100.60
2005-06	12.4	10.4	434.9	25.61	2.79	91.03
2006-07	11.8	9.9	425.4	25.37	2.66	85.71
2007-08	12.6	11.2	417.3	24.78	2.54	76.94
2008-09	13.5	11.1	409.0	25.29	2.61	72.74
2009-10	13.9	10.5	398.6	24.01	2.54	68.12
2010-11	13.6	10.8	na	26.21	2.60	74.28

^a Year ended 31 March. From 1999-00, year ended 30 June. Details for establishments with estimated value of agricultural operations (EVAO) of \$2500 or more until 1985-86; EVAO of \$5000 or more from 1986-87 to 1988-89; EVAO of \$20 000 or more from 1989-90 to 1990-91; EVAO of \$22 500 or more from 1991-92 to 1992-93; and EVAO of \$5000 or more from 1993-94. ^b Year ended 31 March. From 1999-00, year ended 30 June. Before 1987, includes livestock holdings on establishments with an EVAO of \$2500 or more. From 1987, the EVAO has been raised to \$5000. ^c Includes barley, canola, chickpeas, field peas, lupins, oats, triticale, maize, rice, sorghum, soybeans, sunflowerseed, linseed, safflowerseed, sugar cane and winegrapes. Excludes winegrapes before 1974-75. **na** Not available.

Sources: ABS, *Selected Agricultural Commodities, Australia (Preliminary)*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities*, cat. no. 7121.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Agricultural Land Use and Selected Inputs, Australia*, cat. no. 7411.0, Canberra; ABARES.

21 Number of agricultural establishments and rural employment in Australia

	Agricultural establishments ^a no.	Rural employment ^b			Total '000
		Employers and self-employed '000	Wage and salary earners '000	Contributing family workers '000	
1967-68	197 050	na	na	na	458.0
1968-69	195 700	na	na	na	448.0
1969-70	192 550	na	na	na	452.0
1970-71	189 400	na	na	na	450.0
1971-72	187 650	na	na	na	447.0
1972-73	185 900	na	na	na	434.0
1973-74	184 150	na	na	na	427.0
1974-75	182 250	na	na	na	414.0
1975-76	180 411	na	na	na	401.0
1976-77	173 625	na	na	na	393.0
1977-78	176 155	na	na	na	390.0
1978-79	177 218	na	na	na	388.0
1979-80	179 084	na	na	na	404.0
1980-81	175 756	na	na	na	414.0
1981-82	174 466	na	na	na	409.0
1982-83	178 025	na	na	na	417.0
1983-84	175 412	na	na	na	407.0
1984-85	173 061	na	na	na	403.0
1985-86	171 180	na	na	na	425.4
1986-87	169 568	na	na	na	419.8
1987-88	168 339	na	na	na	416.3
1988-89	167 934	na	na	na	432.3
1989-90	163 416	na	na	na	425.5
1990-91	158 898	na	na	na	432.0
1991-92	154 380	na	na	na	406.0
1992-93	151 966	na	na	na	401.8
1993-94	150 389	na	na	na	406.1
1994-95	147 115	227.5	146.5	26.8	400.9
1995-96	146 612	226.8	162.3	26.8	416.1
1996-97	145 083	225.3	168.3	24.8	418.9
1997-98	144 836	232.3	176.8	19.3	428.2
1998-99	145 226	213.3	186.3	18.5	418.1
1999-00	146 371	220.5	192.8	23.3	436.0
2000-01	140 516	211.0	198.5	22.0	431.6
2001-02	135 377	211.8	213.0	13.0	437.6
2002-03	132 983	178.8	181.3	10.5	370.4
2003-04	130 526	172.0	185.3	9.5	366.8
2004-05	129 934	166.5	181.3	9.8	357.1
2005-06	154 472	161.8	176.3	10.0	348.1
2006-07	150 403	166.8	176.5	7.0	350.4
2007-08	140 704	171.0	173.8	7.3	354.0
2008-09	135 996	176.5	173.5	7.8	362.4
2009-10	134 184	173.0	188.5	7.5	369.2
2010-11	na	na	na	na	351.4

^a Represents total establishments engaged in agricultural activities. ^b Based on ANZSIC 2006. Average employment over four quarters. Data represents agriculture, forestry, fishing and hunting, and services to these industries. Caution should be used when utilising employment statistics at the ANZSIC subdivision and group levels due to estimates that may be subject to sampling variability and standard errors too high for most practical purposes. **na** Not available.

Sources: ABS, *Labour Statistics, Australia*, cat. no. 6101.0, Canberra; ABS, *The Labour Force, Australia*, cat. no. 6203.0, Canberra; ABS, *Labour Force, Australia, Detailed - Electronic Delivery*, cat. no. 6291.0.55.003, Canberra; ABS, *Characteristics of Australian Farms*, cat. no. 7102.0, Canberra; ABS, *Agriculture*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities*, cat. no. 7121.0, Canberra; Lette, G.1979, *Number of Farms and Farm Work-force in Australia*, BAE, Quarterly Review of the Rural Economy, vol. 1, no. 2, May 1979, pp. 147-150; ABARES.

22 Summary of farm sector and other rural exports ^a

	Cereal grains and products \$m	Sugar products and honey \$m	Meat and meat preparations \$m	Wool and sheepskins \$m	Other rural ^b \$m	Total \$m
At current prices						
1970-71	596	160	428	594	386	2 164
1971-72	623	223	558	631	441	2 476
1972-73	421	259	857	1 270	592	3 399
1973-74	748	230	795	1 242	588	3 603
1974-75	1 460	661	444	770	605	3 940
1975-76	1 397	599	668	1 043	730	4 437
1976-77	1 317	645	886	1 558	935	5 341
1977-78	1 330	544	1 118	1 292	1 075	5 359
1978-79	1 182	466	1 711	1 608	1 390	6 357
1979-80	2 957	719	1 729	1 790	1 667	8 862
1980-81	2 339	1 198	1 592	1 920	1 648	8 697
1981-82	2 494	794	1 417	1 893	1 799	8 397
1982-83	1 837	596	1 632	1 819	2 020	7 904
1983-84	2 861	665	1 357	1 960	2 135	8 978
1984-85	4 000	625	1 409	2 651	2 509	11 194
1985-86	3 848	652	1 698	3 028	2 972	12 198
1986-87	2 759	698	2 247	3 920	3 570	13 194
1987-88	2 298	701	2 557	5 806	3 979	15 341
1988-89	2 828	933	2 270	5 984	4 053	16 068
1989-90	3 288	1 102	2 936	3 753	4 484	15 563
1990-91	2 436	948	3 173	2 887	4 897	14 341
1991-92	2 352	743	3 434	3 829	5 657	16 015
1992-93	2 954	1 072	3 743	3 367	6 450	17 586
1993-94	3 205	1 315	4 042	3 369	7 087	19 018
1994-95	2 521	1 729	3 660	4 216	7 529	19 655
1995-96	4 922	1 708	3 292	3 664	8 428	22 014
1996-97	5 957	1 694	2 959	3 742	9 339	23 691
1997-98	5 096	1 941	3 730	4 018	10 472	25 257
1998-99	5 017	1 472	4 007	2 601	11 572	24 669
1999-00	4 942	1 229	4 469	2 965	13 084	26 689
2000-01	5 937	1 330	5 795	3 895	15 677	32 634
2001-02	6 482	1 610	6 248	3 695	16 254	34 289
2002-03	4 487	1 365	5 656	3 602	14 813	29 923
2003-04	5 093	1 129	5 758	2 812	14 128	28 920
2004-05	5 160	1 296	6 933	2 837	14 082	30 308
2005-06	4 852	1 765	6 709	2 539	14 566	30 431
2006-07	4 171	1 671	7 080	3 065	14 413	30 400
2007-08	4 975	1 158	6 542	2 796	14 500	29 971
2008-09	6 881	1 500	7 454	2 322	15 760	33 917
2009-10	5 266	2 067	6 350	2 307	14 479	30 469
2010-11	7 358	1 630	6 941	3 053	15 824	34 806

^a On a balance of payments basis. ^b Includes other farm, forest and fisheries products. Also includes wine, paper and paperboard, and tuna transhipped at sea or captured under joint venture agreements, which are not included in rural exports by the ABS.

Sources: ABS, *Balance of Payments, Australia*, cat. no. 5302.0, Canberra; ABARES.

23 Australian winter and summer crop area and production

	Winter crops ^a		Summer crops ^b	
	Area	Production	Area	Production
	'000 ha	kt	'000 ha	kt
1989-90	13 875	21 518	932	2 754
1990-91	14 349	22 326	1 053	2 672
1991-92	13 058	18 962	1 225	3 793
1992-93	15 112	25 934	1 032	2 377
1993-94	14 907	27 783	1 172	3 096
1994-95	13 974	14 713	1 317	3 307
1995-96	16 128	27 785	1 448	3 623
1996-97	18 102	35 070	1 431	4 374
1997-98	18 260	31 116	1 335	3 820
1998-99	19 582	34 147	1 741	5 097
1999-00	19 763	36 980	1 591	5 026
2000-01	20 280	34 696	1 761	5 286
2001-02	19 817	39 240	1 633	4 933
2002-03	19 623	17 402	1 097	2 868
2003-04	21 982	43 394	1 212	3 679
2004-05	22 445	34 710	1 340	3 889
2005-06	20 838	41 236	1 434	4 327
2006-07	20 217	17 588	921	2 186
2007-08	21 984	25 422	1 205	4 583
2008-09	22 910	34 386	1 157	3 798
2009-10	22 870	35 365	903	2 757
2010-11	22 582	42 507	1 330	4 584

^a Includes lentils, lupins, chickpeas, faba beans, field peas, canola, linseed, safflower, wheat, barley, oats and triticale. ^b Includes grain sorghum, cottonseed, maize, sunflower, rice, soybean, peanuts, mung beans and navy beans.

Sources: Australian Oilseeds Federation, Sydney; Pulse Australia, Sydney; ABS, Canberra; ABARES.

24 Australian winter and summer crop area and production, by state

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Winter a								
Area								
2000-01	'000 ha	5 398	2 706	1 126	7 390	3 667	27	20 280
2001-02	'000 ha	5 309	2 684	788	7 173	3 866	23	19 817
2002-03	'000 ha	4 782	2 928	774	7 174	3 965	25	19 623
2003-04	'000 ha	6 070	3 126	1 039	7 688	4 034	25	21 982
2004-05	'000 ha	6 456	3 130	878	7 936	4 018	23	22 445
2005-06	'000 ha	5 593	2 972	969	7 409	3 868	26	20 838
2006-07	'000 ha	5 673	3 085	811	6 479	4 141	21	20 217
2007-08	'000 ha	6 314	3 378	876	7 265	4 127	22	21 984
2008-09	'000 ha	6 295	3 495	1 212	7 901	3 979	28	22 910
2009-10	'000 ha	6 113	3 491	1 177	8 278	3 786	23	22 870
2010-11	'000 ha	6 200	3 451	1 232	7 793	3 880	25	22 582
Production								
2000-01	Kt	10 834	6 232	1 340	8 726	7 486	75	34 696
2001-02	Kt	11 171	5 873	1 142	12 050	8 927	75	39 240
2002-03	Kt	3 505	1 955	836	6 812	4 227	65	17 402
2003-04	Kt	10 768	6 945	1 473	16 683	7 451	70	43 394
2004-05	Kt	10 724	4 204	1 383	12 983	5 338	77	34 710
2005-06	Kt	11 983	6 270	1 435	13 947	7 520	81	41 236
2006-07	Kt	3 796	1 751	926	8 279	2 793	44	17 588
2007-08	Kt	4 007	4 700	1 196	10 761	4 706	64	25 422
2008-09	Kt	9 441	3 890	2 326	13 784	4 864	78	34 386
2009-10	Kt	7 789	5 896	1 618	12 950	7 038	72	35 365
2010-11	Kt	15 181	7 772	1 894	8 076	9 496	85	42 507
Summer b								
Area								
2000-01	'000 ha	825	6	816	3	0	0	1 761
2001-02	'000 ha	777	4	794	1	1	0	1 633
2002-03	'000 ha	509	2	521	1	0	0	1 097
2003-04	'000 ha	436	4	708	2	0	0	1 212
2004-05	'000 ha	493	3	773	0	0	0	1 340
2005-06	'000 ha	765	4	602	3	0	0	1 434
2006-07	'000 ha	332	1	520	1	0	0	921
2007-08	'000 ha	378	2	756	3	0	0	1 205
2008-09	'000 ha	395	2	700	1	0	0	1 157
2009-10	'000 ha	362	2	476	2	0	0	903
2010-11	'000 ha	581	3	679	2	0	0	1 330
Production								
2000-01	Kt	3 366	32	1 786	4	0	0	5 286
2001-02	Kt	3 146	27	1 772	0	0	0	4 933
2002-03	Kt	1 582	18	1 199	0	0	0	2 868
2003-04	Kt	1 766	10	1 806	1	0	0	3 679
2004-05	Kt	2 000	7	1 788	1	0	0	3 889
2005-06	Kt	2 770	32	1 447	5	0	0	4 327
2006-07	Kt	1 033	6	1 087	1	0	0	2 186
2007-08	Kt	1 650	7	2 826	8	0	0	4 583
2008-09	Kt	1 426	4	2 300	3	0	0	3 798
2009-10	Kt	1 383	8	1 283	4	0	0	2 757
2010-11	Kt	2 624	12	1 862	4	0	0	4 584

a Includes lentils, lupins, chickpeas, faba beans, field peas, canola, linseed, safflower, wheat, barley, oats and triticale. **b** Includes grain sorghum, cottonseed, maize, sunflower, rice, soybean. Australia also includes peanuts, mung beans and navy beans.

Sources: Australian Oilseeds Federation, Sydney; Pulse Australia, Sydney; ABS, Canberra; ABARES.

Rural commodities



25 Summary of Australian statistics for coarse grains a

	Area	Yield	Production		Exports b	
			Volume	Value	Volume	Value
	'000 ha	t/ha	kt	\$m	kt	\$m
1965-66	2 710	0.87	2 371	120	478	24
1966-67	3 019	1.28	3 850	180	872	41
1967-68	2 693	0.75	2 023	97	330	16
1968-69	3 185	1.19	3 799	152	853	34
1969-70	3 334	1.10	3 684	134	905	33
1970-71	4 191	1.31	5 474	233	2 218	100
1971-72	4 492	1.29	5 782	223	3 177	137
1972-73	3 891	0.93	3 620	190	1 663	79
1973-74	3 664	1.27	4 671	347	1 742	137
1974-75	3 285	1.35	4 424	404	2 884	280
1975-76	3 868	1.44	5 575	500	3 148	307
1976-77	3 901	1.29	5 019	464	3 327	335
1977-78	4 318	0.98	4 218	347	1 939	179
1978-79	4 663	1.51	7 063	555	2 850	246
1979-80	4 199	1.48	6 215	667	4 467	512
1980-81	4 284	1.22	5 209	701	2 764	430
1981-82	4 847	1.38	6 687	799	3 459	519
1982-83	4 527	0.88	3 966	562	1 805	294
1983-84	5 794	1.64	9 497	1 239	4 548	738
1984-85	5 523	1.59	8 769	1 156	6 466	981
1985-86	5 306	1.53	8 113	974	5 838	826
1986-87	4 436	1.58	6 989	801	3 693	476
1987-88	4 576	1.57	7 162	906	2 505	na
1988-89	4 292	1.57	6 734	1 041	2 466	448
1989-90	3 919	1.79	7 005	1 086	3 336	667
1990-91	4 127	1.64	6 766	870	3 310	576
1991-92	4 624	1.75	8 109	1 151	2 728	487
1992-93	4 690	1.78	8 361	1 176	3 324	611
1993-94	5 042	1.96	9 864	1 241	2 320	445
1994-95	4 258	1.30	5 534	1 125	2 642	452
1995-96	5 294	1.90	10 070	2 050	4 099	1 025
1996-97	5 376	2.02	10 845	1 978	4 814	1 104
1997-98	5 388	1.87	10 099	1 601	3 398	810
1998-99	5 113	2.09	10 709	1 419	5 067	935
1999-00	4 244	2.22	9 435	1 401	4 062	866
2000-01	5 326	2.05	10 914	1 952	4 629	1 199
2001-02	5 806	2.25	13 049	2 583	5 752	1 438
2002-03	5 900	1.17	6 924	1 650	3 766	1 029
2003-04	6 817	2.29	15 629	2 562	5 784	1 345
2004-05	6 756	1.79	12 064	1 849	7 188	1 412
2005-06	6 562	2.18	14 291	2 131	5 684	1 193
2006-07	6 216	1.08	6 727	1 597	3 255	875
2007-08	7 510	1.77	13 289	3 857	4 429	1 620
2008-09	7 039	1.79	12 587	2 853	5 516	1 820
2009-10	6 179	1.85	11 408	2 076	4 974	1 280
2010-11	5 638	2.20	12 389	2 604	5 337	1 493

a Barley, oats, sorghum and maize. Includes triticale from 1979-80. b Including grains and the grain equivalent of malt exported.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
Barley								
Area								
2004-05	'000 ha	1 023	924	97	1 313	1 280	8	4 646
2005-06	'000 ha	1 102	866	129	1 129	1 170	9	4 406
2006-07	'000 ha	902	913	81	1 083	1 193	7	4 182
2007-08	'000 ha	1 049	1 107	113	1 381	1 244	8	4 902
2008-09	'000 ha	977	1 136	92	1 559	1 240	11	5 015
2009-10	'000 ha	951	976	69	1 420	997	9	4 422
2010-11	'000 ha	886	806	105	1 124	808	10	3 740
Yield								
2004-05	t/ha	1.72	1.41	1.84	1.90	1.55	3.50	1.67
2005-06	t/ha	2.12	2.31	1.29	2.13	2.18	3.11	2.15
2006-07	t/ha	0.83	0.66	0.98	1.67	0.83	2.29	1.02
2007-08	t/ha	0.78	1.62	1.27	1.97	1.34	2.75	1.46
2008-09	t/ha	1.48	1.29	1.88	1.93	1.51	2.64	1.59
2009-10	t/ha	1.30	1.91	1.64	1.80	2.07	3.22	1.78
2010-11	t/ha	2.54	2.42	1.50	1.41	2.67	3.60	2.18
Production								
2004-05	kt	1 761	1 305	178	2 489	1 979	28	7 740
2005-06	kt	2 336	2 003	166	2 400	2 549	28	9 482
2006-07	kt	753	605	79	1 808	996	16	4 257
2007-08	kt	814	1 789	143	2 719	1 672	22	7 160
2008-09	kt	1 449	1 461	173	3 007	1 877	29	7 997
2009-10	kt	1 236	1 865	113	2 554	2 068	29	7 865
2010-11	kt	2 249	1 954	158	1 589	2 158	36	8 145
Oats								
Area								
2004-05	'000 ha	400	150	21	243	76	4	894
2005-06	'000 ha	416	151	16	271	72	4	931
2006-07	'000 ha	390	176	24	299	106	4	1 003
2007-08	'000 ha	464	211	20	397	142	4	1 238
2008-09	'000 ha	273	191	7	295	100	4	870
2009-10	'000 ha	307	168	12	263	96	4	850
2010-11	'000 ha	322	169	13	258	67	3	833
Yield								
2004-05	t/ha	1.07	1.90	0.46	1.89	1.18	2.28	1.43
2005-06	t/ha	1.52	2.17	0.48	2.19	1.66	1.98	1.81
2006-07	t/ha	0.29	0.76	0.15	1.47	0.48	0.94	0.75
2007-08	t/ha	0.42	1.59	0.58	2.12	0.81	1.88	1.21
2008-09	t/ha	0.96	1.24	1.00	1.93	0.81	1.62	1.33
2009-10	t/ha	0.69	1.79	0.58	1.87	1.50	1.75	1.37
2010-11	t/ha	1.48	1.40	0.62	1.11	1.87	2.33	1.37
Production								
2004-05	kt	429	285	10	460	90	9	1 282
2005-06	kt	633	328	8	591	120	9	1 688
2006-07	kt	115	134	4	441	52	3	748
2007-08	kt	193	335	12	840	115	8	1 502
2008-09	kt	261	236	7	568	81	6	1 160
2009-10	kt	211	300	7	493	144	7	1 162
2010-11	kt	477	237	8	286	125	7	1 141

Continued

26 Australian coarse grains area, yield and production, by state *a continued*

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia ^b
Sorghum								
Area								
2004-05	'000 ha	211	0	544	0	0	0	755
2005-06	'000 ha	328	1	435	2	0	0	766
2006-07	'000 ha	162	1	449	0	0	0	613
2007-08	'000 ha	279	1	661	1	0	0	942
2008-09	'000 ha	227	2	538	0	0	0	767
2009-10	'000 ha	164	0	333	1	0	0	498
2010-11	'000 ha	213	1	459	1	0	0	674
Yield								
2004-05	t/ha	4.01	0.00	2.14	0.00	0.00	0.00	2.66
2005-06	t/ha	2.70	1.00	2.38	1.50	na	0.00	2.52
2006-07	t/ha	2.38	1.00	2.00	0.00	0.00	0.00	2.09
2007-08	t/ha	4.55	0.00	3.81	2.00	na	na	4.02
2008-09	t/ha	4.05	0.44	3.29	na	na	na	3.51
2009-10	t/ha	3.55	na	2.78	0.10	na	na	3.03
2010-11	t/ha	3.86	1.00	2.71	0.00	na	na	3.07
Production								
2004-05	kt	847	0	1 164	0	0	0	2 011
2005-06	kt	886	1	1 036	3	0	0	1 929
2006-07	kt	385	1	896	0	0	0	1 283
2007-08	kt	1 270	0	2 519	2	0	0	3 790
2008-09	kt	919	1	1 771	1	0	0	2 692
2009-10	kt	581	0	926	0	0	0	1 508
2010-11	kt	823	1	1 243	0	0	0	2 068
Maize								
Area								
2004-05	'000 ha	25	1	46	0	0	0	72
2005-06	'000 ha	31	2	34	1	0	0	67
2006-07	'000 ha	20	0	27	1	0	0	49
2007-08	'000 ha	20	1	45	2	0	0	68
2008-09	'000 ha	14	0	49	0	0	0	65
2009-10	'000 ha	20	1	37	1	0	0	59
2010-11	'000 ha	24	1	35	1	0	0	61
Yield								
2004-05	t/ha	9.68	2.00	3.76	na	na	na	5.83
2005-06	t/ha	6.92	10.00	3.78	3.39	0.00	0.00	5.39
2006-07	t/ha	7.03	7.78	3.40	1.71	na	na	4.92
2007-08	t/ha	8.80	7.00	4.40	3.00	na	na	5.69
2008-09	t/ha	7.98	6.67	5.17	7.39	0.00	1.30	5.82
2009-10	t/ha	8.60	6.31	3.95	3.61	na	na	5.56
2010-11	t/ha	8.42	6.00	3.97	3.67	na	na	5.75
Production								
2004-05	kt	242	2	173	1	0	0	420
2005-06	kt	212	19	129	2	0	0	362
2006-07	kt	143	3	92	1	0	0	239
2007-08	kt	176	7	198	6	0	0	387
2008-09	kt	115	3	255	2	0	0	376
2009-10	kt	172	6	146	4	0	0	328
2010-11	kt	202	6	139	4	0	0	351

Continued

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia ^b
Triticale								
Area								
2004-05	'000 ha	126	125	1	42	93	2	389
2005-06	'000 ha	141	121	1	43	83	2	392
2006-07	'000 ha	166	94	1	35	71	2	369
2007-08	'000 ha	125	111	1	34	86	2	360
2008-09	'000 ha	109	91	0	53	68	2	323
2009-10	'000 ha	122	108	1	33	84	2	350
2010-11	'000 ha	113	93	1	29	92	2	330
Yield								
2004-05	t/ha	2.25	1.60	1.40	1.12	0.78	3.00	1.57
2005-06	t/ha	2.65	2.17	1.15	1.40	1.52	3.71	2.12
2006-07	t/ha	0.41	0.56	1.33	1.03	0.55	2.15	0.54
2007-08	t/ha	1.47	1.33	0.72	1.12	0.86	2.69	1.25
2008-09	t/ha	1.39	0.98	0.00	1.33	0.70	2.04	1.12
2009-10	t/ha	1.83	1.66	0.90	1.40	1.07	3.35	1.56
2010-11	t/ha	2.65	2.15	2.50	0.86	1.63	3.50	2.07
Production								
2004-05	kt	284	200	1	47	73	6	611
2005-06	kt	374	262	1	60	126	7	830
2006-07	kt	67	53	1	36	39	3	199
2007-08	kt	184	147	1	38	74	6	450
2008-09	kt	152	89	0	70	48	5	363
2009-10	kt	223	179	1	47	90	7	545
2010-11	kt	300	200	3	25	150	7	685
Total coarse grains								
Area								
2004-05	'000 ha	1 785	1 200	709	1 598	1 449	14	6 756
2005-06	'000 ha	2 018	1 141	615	1 445	1 325	15	6 562
2006-07	'000 ha	1 641	1 185	582	1 418	1 371	12	6 216
2007-08	'000 ha	1 938	1 430	840	1 815	1 472	14	7 510
2008-09	'000 ha	1 601	1 420	686	1 907	1 408	17	7 039
2009-10	'000 ha	1 563	1 253	453	1 718	1 177	15	6 179
2010-11	'000 ha	1 558	1 070	613	1 413	967	15	5 638
Yield								
2004-05	t/ha	2.00	1.49	2.15	1.88	1.48	3.08	1.79
2005-06	t/ha	2.20	2.29	2.18	2.11	2.11	2.86	2.18
2006-07	t/ha	0.89	0.67	1.84	1.61	0.79	1.87	1.08
2007-08	t/ha	1.36	1.59	3.42	1.99	1.26	2.49	1.77
2008-09	t/ha	1.81	1.26	3.21	1.91	1.42	2.33	1.79
2009-10	t/ha	1.55	1.88	2.64	1.80	1.96	2.85	1.85
2010-11	t/ha	2.60	2.24	2.53	1.35	2.52	3.33	2.20
Production								
2004-05	kt	3 563	1 792	1 526	2 997	2 142	43	12 064
2005-06	kt	4 441	2 613	1 340	3 056	2 795	43	14 291
2006-07	kt	1 463	796	1 072	2 286	1 086	23	6 727
2007-08	kt	2 637	2 278	2 873	3 605	1 861	35	13 289
2008-09	kt	2 896	1 790	2 206	3 648	2 006	40	12 587
2009-10	kt	2 423	2 350	1 193	3 097	2 302	43	11 408
2010-11	kt	4 051	2 398	1 551	1 904	2 433	50	12 389

^a Crops sown for grain. ^b State and Australian totals may not be equal as a result of rounding and the inclusion of data for the Australian Capital Territory.

Sources: ABARES, *Australian crop report*, Canberra; ABS, *Selected Agricultural Commodities, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra.

27 Summary of Australian statistics for barley

	Area	Yield	Production		Exports ^a	
			Volume	Value	Volume	Value
	'000 ha	t/ha	kt	\$m	kt	\$m
1965-66	930	1.02	949	48	227	12
1966-67	1 011	1.38	1 397	74	425	22
1967-68	1 057	0.79	835	42	129	7
1968-69	1 341	1.23	1 646	71	451	18
1969-70	1 521	1.12	1 698	66	631	23
1970-71	2 000	1.18	2 351	111	1 123	51
1971-72	2 535	1.21	3 065	124	1 817	74
1972-73	2 140	0.81	1 727	91	804	39
1973-74	1 894	1.27	2 397	190	808	69
1974-75	1 826	1.38	2 515	257	1 760	187
1975-76	2 329	1.36	3 179	314	1 963	201
1976-77	2 321	1.23	2 847	295	2 100	223
1977-78	2 803	0.85	2 383	205	1 325	122
1978-79	2 785	1.44	4 006	339	2 028	174
1979-80	2 481	1.49	3 703	450	3 406	407
1980-81	2 451	1.09	2 682	381	2 076	341
1981-82	2 685	1.29	3 450	463	2 021	340
1982-83	2 452	0.79	1 939	288	1 262	225
1983-84	3 109	1.57	4 890	733	3 468	583
1984-85	3 518	1.58	5 554	759	4 341	665
1985-86	3 284	1.48	4 868	587	4 490	610
1986-87	2 274	1.56	3 548	423	2 637	351
1987-88	2 346	1.46	3 417	455	1 863	na
1988-89	2 190	1.48	3 242	558	1 910	355
1989-90	2 310	1.75	4 044	709	2 917	603
1990-91	2 555	1.61	4 108	568	2 914	512
1991-92	2 744	1.65	4 530	693	2 393	435
1992-93	2 947	1.83	5 397	802	2 825	532
1993-94	3 424	1.95	6 668	845	1 903	375
1994-95	2 470	1.18	2 913	622	2 429	413
1995-96	3 111	1.87	5 823	1 276	3 451	876
1996-97	3 367	1.99	6 696	1 308	4 370	999
1997-98	3 521	1.84	6 482	1 032	2 982	726
1998-99	3 167	1.89	5 987	836	4 715	877
1999-00	2 596	1.94	5 032	865	3 834	822
2000-01	3 454	1.95	6 743	1 344	4 146	1 101
2001-02	3 707	2.23	8 280	1 725	4 990	1 278
2002-03	3 864	1.00	3 865	984	3 464	955
2003-04	4 477	2.32	10 382	1 750	5 310	1 239
2004-05	4 646	1.67	7 740	1 233	6 500	1 275
2005-06	4 406	2.15	9 482	1 417	5 316	1 108
2006-07	4 182	1.02	4 257	1 039	3 136	833
2007-08	4 902	1.46	7 160	2 244	4 051	1 496
2008-09	5 015	1.59	7 997	1 850	3 898	1 321
2009-10	4 422	1.78	7 865	1 359	4 234	1 093
2010-11	3 740	2.18	8 145	1 891	4 625	1 295

^a Including grains and the grain equivalent of malt exported.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

28 Summary of Australian statistics for oats

	Area	Yield	Production		Exports	
			Volume	Value	Volume	Value
	'000 ha	t/ha	kt	\$m	kt	\$m
1965-66	1 525	0.72	1 102	53	251	12
1966-67	1 723	1.13	1 943	83	402	18
1967-68	1 368	0.53	719	34	182	8
1968-69	1 567	1.09	1 710	59	333	13
1969-70	1 374	0.91	1 247	33	219	8
1970-71	1 484	1.09	1 614	54	556	24
1971-72	1 237	1.03	1 275	37	329	12
1972-73	995	0.74	736	32	115	5
1973-74	1 182	0.94	1 107	67	184	14
1974-75	897	0.98	874	60	267	20
1975-76	988	1.16	1 141	78	359	33
1976-77	995	1.08	1 072	74	364	33
1977-78	1 076	0.92	991	69	218	20
1978-79	1 359	1.30	1 763	100	290	25
1979-80	1 123	1.26	1 411	99	472	44
1980-81	1 093	1.03	1 128	140	196	28
1981-82	1 388	1.16	1 617	156	153	24
1982-83	1 212	0.70	848	116	83	13
1983-84	1 772	1.30	2 296	204	289	41
1984-85	1 041	1.31	1 367	130	391	49
1985-86	1 068	1.24	1 330	138	185	25
1986-87	1 140	1.39	1 584	161	192	27
1987-88	1 275	1.33	1 698	191	215	31
1988-89	1 309	1.40	1 838	233	253	46
1989-90	1 089	1.51	1 640	178	232	35
1990-91	1 043	1.47	1 530	147	214	34
1991-92	1 160	1.46	1 690	182	141	21
1992-93	1 150	1.68	1 937	209	266	40
1993-94	947	1.74	1 647	148	223	33
1994-95	897	1.03	924	166	96	18
1995-96	1 136	1.65	1 875	289	233	50
1996-97	1 052	1.57	1 653	227	124	26
1997-98	937	1.74	1 634	223	155	30
1998-99	909	1.98	1 798	157	257	38
1999-00	584	1.91	1 118	118	160	27
2000-01	651	1.61	1 050	138	97	22
2001-02	784	1.83	1 434	251	130	37
2002-03	911	1.05	957	210	178	44
2003-04	1 089	1.85	2 018	279	172	38
2004-05	894	1.43	1 282	172	165	36
2005-06	931	1.81	1 688	249	190	47
2006-07	1 003	0.75	748	181	62	20
2007-08	1 238	1.21	1 502	423	115	37
2008-09	870	1.33	1 160	251	196	64
2009-10	850	1.37	1 162	186	216	53
2010-11	833	1.37	1 141	228	127	37

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

29 Summary of Australian statistics for sorghum

	Area	Yield	Production		Exports	
			Volume	Value	Volume	Value
	'000 ha	t/ha	kt	\$m	kt	\$m
1965-66	175	1.11	195	9	0	0
1966-67	203	1.57	319	13	46	2
1967-68	187	1.54	288	12	19	1
1968-69	236	1.25	294	14	69	3
1969-70	359	1.53	547	24	54	2
1970-71	552	2.35	1 298	57	517	24
1971-72	638	1.92	1 228	51	992	48
1972-73	697	1.46	1 018	59	736	35
1973-74	540	1.97	1 061	80	748	54
1974-75	511	1.76	901	76	856	73
1975-76	504	2.23	1 123	96	815	72
1976-77	532	1.80	956	80	829	76
1977-78	394	1.81	714	59	385	36
1978-79	469	2.40	1 125	97	516	46
1979-80	519	1.78	922	96	580	60
1980-81	658	1.83	1 203	152	463	58
1981-82	648	2.03	1 316	140	1 271	153
1982-83	708	1.35	958	124	442	54
1983-84	730	2.58	1 886	246	772	111
1984-85	723	1.89	1 369	197	1 594	242
1985-86	733	1.93	1 416	181	1 082	178
1986-87	818	1.74	1 419	160	818	91
1987-88	765	2.13	1 633	203	415	51
1988-89	625	1.99	1 244	188	290	43
1989-90	376	2.50	939	136	158	23
1990-91	376	1.99	747	99	166	25
1991-92	567	2.54	1 443	204	183	29
1992-93	426	1.28	546	87	211	34
1993-94	498	2.17	1 082	173	173	32
1994-95	687	1.85	1 272	242	111	19
1995-96	770	2.07	1 592	320	411	97
1996-97	544	2.62	1 425	257	299	70
1997-98	507	2.13	1 081	183	251	50
1998-99	587	3.22	1 891	282	76	14
1999-00	622	3.40	2 116	260	26	4
2000-01	758	2.55	1 935	279	330	59
2001-02	823	2.46	2 021	349	586	109
2002-03	667	2.20	1 465	300	70	17
2003-04	734	2.74	2 009	319	289	61
2004-05	755	2.66	2 011	270	513	96
2005-06	766	2.52	1 929	276	173	33
2006-07	613	2.09	1 283	274	46	13
2007-08	942	4.02	3 790	977	251	76
2008-09	767	3.51	2 692	553	1 368	405
2009-10	498	3.03	1 508	323	487	116
2010-11	674	3.07	2 068	474	553	146

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

30 Summary of Australian statistics for maize

	Area	Yield	Production		Exports	
			Volume	Value	Volume	Value
	'000 ha	t/ha	kt	\$m	kt	\$m
1965-66	80	1.57	125	10	0	0
1966-67	82	2.33	190	10	0	0
1967-68	81	2.23	181	9	0	0
1968-69	67	2.24	149	9	0	0
1969-70	80	2.41	192	11	1	0
1970-71	86	2.47	212	10	22	1
1971-72	78	2.74	214	10	38	2
1972-73	59	2.34	139	9	9	0
1973-74	46	2.32	106	9	3	0
1974-75	51	2.60	134	12	1	0
1975-76	47	2.82	132	12	11	1
1976-77	53	2.72	144	13	33	3
1977-78	45	2.86	130	12	11	2
1978-79	50	3.37	168	16	17	1
1979-80	54	2.79	151	20	8	1
1980-81	56	3.05	172	26	29	3
1981-82	61	3.49	212	30	14	2
1982-83	64	2.18	138	23	18	2
1983-84	67	3.53	237	36	19	3
1984-85	102	2.84	288	46	140	25
1985-86	83	3.33	277	40	81	13
1986-87	57	3.62	205	31	46	7
1987-88	54	3.85	207	30	12	2
1988-89	51	4.23	216	34	13	4
1989-90	52	4.21	218	39	30	5
1990-91	48	3.99	193	32	16	5
1991-92	52	5.20	268	48	12	3
1992-93	45	4.43	198	42	21	5
1993-94	44	4.64	204	41	23	6
1994-95	50	4.83	242	59	6	3
1995-96	56	5.59	311	69	4	2
1996-97	67	5.94	398	80	22	8
1997-98	57	4.72	269	55	11	3
1998-99	64	5.28	338	61	19	6
1999-00	82	4.95	406	62	43	12
2000-01	74	4.66	345	65	56	16
2001-02	83	5.47	454	90	46	14
2002-03	50	6.20	310	72	54	13
2003-04	72	5.52	395	88	13	6
2004-05	72	5.83	420	81	9	6
2005-06	67	5.39	362	71	5	6
2006-07	49	4.92	239	60	12	9
2007-08	68	5.69	387	100	12	11
2008-09	65	5.82	376	106	53	30
2009-10	59	5.56	328	88	36	19
2010-11	61	5.75	351	104	31	15

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

31 Summary of Australian statistics for triticale

	Area	Yield	Production	
			Volume	Value
	'000 ha	t/ha	kt	\$m
1980-81	26	0.90	24	3
1981-82	64	1.42	91	10
1982-83	92	0.89	82	11
1983-84	116	1.62	188	21
1984-85	140	1.36	190	24
1985-86	137	1.62	222	28
1986-87	148	1.57	233	26
1987-88	136	1.53	208	27
1988-89	116	1.68	195	28
1989-90	91	1.80	164	25
1990-91	104	1.81	189	24
1991-92	101	1.76	177	25
1992-93	122	2.32	282	37
1993-94	129	2.04	263	35
1994-95	153	1.19	182	35
1995-96	221	2.12	469	95
1996-97	346	1.95	673	107
1997-98	366	1.73	633	108
1998-99	386	1.80	695	85
1999-00	361	2.11	763	96
2000-01	389	2.16	841	126
2001-02	409	2.10	860	168
2002-03	408	0.80	327	84
2003-04	445	1.85	825	126
2004-05	389	1.57	611	93
2005-06	392	2.12	830	119
2006-07	369	0.54	199	44
2007-08	360	1.25	450	113
2008-09	323	1.12	363	93
2009-10	350	1.56	545	120
2010-11	330	2.07	685	149

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARES.

32 Volume of Australian exports of barley and sorghum, by destination

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Barley								
Asia								
China	775	1 386	1 320	963	707	609	1 284	1 335
Chinese Taipei	116	121	106	55	43	51	28	71
Japan	800	1 081	778	659	480	865	1 135	938
Korea, Rep. of	45	61	32	36	8	27	132	232
Philippines	84	78	36	99	103	76	96	96
Thailand	78	84	128	160	180	145	146	209
Vietnam	144	151	159	163	150	131	155	175
Middle East								
Kuwait	64	227	101	27	60	41	96	259
Saudi Arabia	2 380	2 001	1 929	550	1 768	1 468	722	404
United Arab Emirates	148	241	287	62	111	86	225	410
Total	5 310	6 500	5 316	3 136	4 051	3 898	4 234	4 625
(value, \$m)	1 239	1 275	1 108	833	1 496	1 321	1 093	1 295
Sorghum								
Asia								
Chinese Taipei	9	40	26	9	2	27	8	16
Japan	221	386	86	1	91	1 118	322	409
New Zealand	30	44	27	14	114	160	103	42
Papua New Guinea	21	28	19	15	31	29	26	18
Total	289	513	173	46	251	1 368	487	553
(value, \$m)	61	96	33	13	76	405	116	146

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES

33 Australian coarse grains supply and disposal, by grain a

	Area '000 ha	Production kt	Exports b kt	Estimated domestic disposals	
				Other kt	Seed c kt
Barley d					
2005-06	4 406	9 482	5 917	3 377	188
2006-07	4 182	4 257	2 563	1 474	221
2007-08	4 902	7 160	4 054	2 881	226
2008-09	5 015	7 997	3 891	3 906	199
2009-10	4 422	7 865	4 634	3 063	183
2010-11	3 740	8 145	4 772	4 624	185
Oats					
2005-06	931	1 688	191	1 449	48
2006-07	1 003	748	35	654	59
2007-08	1 238	1 502	181	1 279	42
2008-09	870	1 160	161	957	41
2009-10	850	1 162	208	909	45
2010-11	833	1 141	119	1 352	49
Sorghum					
2005-06	766	1 929	259	1 841	3
2006-07	613	1 283	83	1 168	5
2007-08	942	3 790	110	2 829	4
2008-09	767	2 692	957	1 692	2
2009-10	498	1 508	998	1 164	3
2010-11	674	2 068	341	1 440	3
Maize					
2005-06	67	362	5	351	1
2006-07	49	239	10	228	1
2007-08	68	387	11	339	1
2008-09	65	376	48	339	1
2009-10	59	328	36	300	1
2010-11	61	351	29	319	1
Triticale					
2005-06	392	830	0	812	18
2006-07	369	199	0	181	18
2007-08	360	450	0	434	16
2008-09	323	363	0	345	18
2009-10	350	545	0	529	17
2010-11	330	685	0	669	17
Total					
2005-06	6 562	14 291	6 202	7 830	258
2006-07	6 216	6 727	2 719	3 704	304
2007-08	7 510	13 289	5 284	7 762	288
2008-09	7 039	12 587	5 087	7 240	261
2009-10	6 179	11 408	5 220	5 965	249
2010-11	5 638	12 389	5 385	8 403	255

a Crop years are November–October for barley, oats and triticale, and March–February for grain sorghum and maize. b Exports reflect the volume of grain exported from the respective crops harvested. For example the volume of exports reported for grain sorghum in 2002–03, were actually shipped in the period March 2003 to February 2004. c Estimated using the following seeding rates for grain crops: grain sorghum 5 kg/ha; barley 45 kg/ha; maize 15 kg/ha; oats 48 kg/ha; triticale 50 kg/ha. d Malt use is expressed as barley equivalent = malt x 1.2. Approximately 1000 tonnes of pearled cooking barley is also included annually.

Sources: ABARES, *Australian crop report*, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra;

34 Australian feedgrains prices

	Barley a	Oats b	Sorghum c	Maize c	Feed wheat c	Triticale c
	\$/t	\$/t	\$/t	\$/t	\$/t	\$/t
1983-84	122.86	96.07	127.82	160.63	175.24	na
1984-85	110.20	104.99	131.69	147.48	204.36	123.32
1985-86	109.47	100.68	126.71	143.76	193.82	121.17
1986-87	106.38	100.83	111.42	135.60	170.12	111.23
1987-88	117.93	109.09	129.02	154.84	189.54	132.25
1988-89	142.35	124.35	152.19	175.95	221.84	147.43
1989-90	151.67	116.15	152.77	176.25	169.08	155.60
1990-91	123.58	107.79	136.79	167.53	132.33	125.17
1991-92	147.28	141.02	172.75	189.15	159.67	150.56
1992-93	130.65	105.43	148.91	181.98	143.50	132.82
1993-94	127.30	105.27	168.60	229.58	137.58	135.59
1994-95	227.00	237.96	215.74	276.08	232.75	229.58
1995-96	226.80	171.69	223.69	244.02	236.24	220.22
1996-97	180.73	143.10	174.79	207.61	188.38	178.47
1997-98	179.48	171.49	182.37	215.50	185.93	184.23
1998-99	133.58	110.34	141.63	173.41	155.38	130.80
1999-00	141.00	103.18	130.58	161.27	153.63	139.02
2000-01	173.63	136.73	162.60	186.64	171.83	176.34
2001-02	202.94	191.41	187.52	224.94	211.97	211.84
2002-03	304.75	333.85	288.89	343.07	309.69	308.47
2003-04	202.43	179.91	194.70	253.73	220.74	209.63
2004-05	179.06	171.50	172.20	227.13	194.77	189.33
2005-06	181.93	181.53	171.41	212.77	191.84	188.93
2006-07	296.19	368.62	271.75	338.52	286.76	297.45
2007-08	348.08	362.33	343.00	422.10	425.49	379.20
2008-09	267.78	261.19	244.67	350.94	314.47	302.10
2009-10	220.60	215.84	228.50	313.20	236.83	227.77
2010-11	237.71	191.88	263.50	337.03	263.13	232.96
2010						
January	225.00	208.33	261.00	306.67	246.67	237.00
February	212.50	205.00	234.00	298.75	229.50	225.50
March	208.20	202.00	214.00	292.00	222.00	218.20
April	193.60	199.00	196.00	300.00	207.25	202.80
May	197.75	200.00	205.00	311.00	219.25	206.67
June	212.20	201.00	203.00	325.00	219.60	212.80
July	220.75	205.00	na	320.00	238.50	227.50
August	259.75	220.00	na	332.50	285.00	256.75
September	260.00	205.00	265.00	350.00	302.00	266.00
October	238.75	185.00	263.00	350.00	296.25	248.50
November	236.50	163.33	258.00	317.50	260.00	244.33
December	223.33	163.33	267.00	338.33	258.33	237.67
2011						
January	225.00	176.67	280.00	355.00	248.33	228.67
February	237.50	186.25	263.00	370.00	250.00	220.00
March	236.00	198.00	258.00	340.00	251.00	208.00
April	246.00	200.00	263.00	322.50	257.50	210.00
May	233.75	200.00	258.00	317.50	257.50	217.50
June	235.20	200.00	260.00	331.00	253.20	230.60

a Average quote for bulk feed barley, delivered Sydney region. **b** Average quote for bulk feed oats, delivered Sydney region. **c** Average bulk quote, delivered Sydney region. **na** Not available.

Sources: The Land, Rural Press Ltd.

35 Summary of world statistics for coarse grains

	Area million ha	Production Mt	Use Mt	Closing stocks ^a		Stocks to use ratio %	Trade ^b Mt	Use per person kg	Price ^c US\$/t
				World Mt	United States Mt				
1965-66	313	472.4	484.3	80.3	40	17	47	144	55.0
1966-67	315	508.8	505.3	83.3	36	16	44	147	60.0
1967-68	319	533.4	521.2	94.4	46	18	44	149	50.0
1968-69	318	533.8	530.5	97.8	47	18	41	148	49.0
1969-70	323	558.0	553.2	97.8	46	18	48	151	54.0
1970-71	323	559.2	569.2	83.5	32	15	54	152	63.0
1971-72	324	617.4	598.4	99.6	47	17	58	157	52.0
1972-73	317	594.2	608.0	81.2	32	13	64	156	72.0
1973-74	335	659.3	655.7	79.8	22	12	70	165	114.0
1974-75	333	622.6	610.6	88.8	21	15	61	151	132.0
1975-76	339	641.0	632.8	92.8	24	15	78	154	116.0
1976-77	342	692.0	668.6	113.8	37	17	80	160	108.0
1977-78	344	691.0	676.4	124.0	50	18	84	159	95.0
1978-79	341	744.1	722.7	143.3	58	20	88	167	103.0
1979-80	341	735.5	731.0	153.2	64	21	96	166	115.0
1980-81	341	723.5	726.4	142.6	44	20	109	162	142.0
1981-82	349	759.0	737.6	168.4	78	23	98	161	118.0
1982-83	339	775.3	749.0	202.2	109	27	84	161	115.0
1983-84	334	678.2	743.2	133.1	40	18	91	157	146.0
1984-85	335	806.1	766.6	171.9	58	22	100	159	124.0
1985-86	341	833.7	763.4	242.2	127	32	82	156	106.0
1986-87	338	823.9	784.8	277.9	153	35	85	157	77.0
1987-88	325	787.2	796.4	263.7	134	33	90	157	86.0
1988-89	325	722.8	780.3	204.0	66	26	100	151	118.0
1989-90	323	794.3	814.7	183.4	46	23	104	155	110.7
1990-91	317	828.8	813.7	197.1	48	24	90	152	106.5
1991-92	323	812.2	812.6	196.3	34	24	94	149	110.4
1992-93	326	868.9	834.0	221.3	63	27	94	151	97.9
1993-94	317	797.6	832.6	182.7	27	22	88	149	114.7
1994-95	323	869.4	854.6	198.3	45	23	94	150	105.2
1995-96	314	800.9	830.1	163.4	14	20	95	144	160.1
1996-97	323	909.1	867.2	203.0	27	23	94	148	132.4
1997-98	311	881.4	867.2	216.4	38	25	86	146	112.4
1998-99	309	891.5	870.1	238.1	51	27	94	145	94.5
1999-00	299	878.1	877.1	233.1	49	27	105	144	89.9
2000-01	296	863.7	882.3	212.0	53	24	104	143	86.6
2001-02	301	896.6	905.4	199.6	45	22	102	145	90.1
2002-03	292	873.6	900.6	172.0	31	19	102	143	107.3
2003-04	306	916.1	943.2	143.3	29	15	103	148	115.0
2004-05	301	1 015.6	977.8	180.2	59	18	101	151	97.5
2005-06	301	980.3	992.7	166.2	55	17	107	152	103.9
2006-07	305	988.6	1 008.7	141.2	36	14	118	152	150.8
2007-08	319	1 080.8	1 057.3	164.1	45	16	127	158	201.4
2008-09	313	1 111.3	1 079.2	193.9	47	18	113	159	189.6
2009-10	311	1 116.3	1 106.9	195.5	48	18	123	161	160.4
2010-11	306	1 100.4	1 127.5	168.1	32	15	115	162	254.2

^a Stocks data are based on national carryover levels at the end of national crop years. Aggregate stocks data therefore should not be construed as representing stock levels at fixed points in time. ^b September–August basis; includes intra-EU trade. ^c Export price US no. 2 yellow corn fob Gulf.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ABARES.

36

World coarse grains production, by region and country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Egypt	6.8	6.9	7.0	7.2	7.2	7.7	7.9	7.6
Ethiopia	5.7	5.8	7.2	7.9	8.3	9.0	8.0	9.9
Nigeria	20.3	23.2	24.7	26.0	24.0	26.7	28.0	28.7
South Africa	10.4	12.2	7.3	7.8	13.7	13.1	14.5	12.2
Americas								
Argentina	18.5	24.9	19.3	27.1	27.1	19.6	28.5	30.5
Brazil	44.6	37.8	44.1	53.2	60.5	53.5	58.4	59.9
Canada	25.8	25.6	24.9	23.1	27.8	27.2	22.5	22.3
Mexico	30.3	29.0	25.9	29.2	30.6	32.3	27.8	29.4
United States	275.0	319.4	298.7	280.0	349.9	325.9	348.8	330.2
Asia								
China	124.0	138.3	147.7	159.1	159.1	172.7	161.4	183.4
India	37.4	33.6	34.0	33.8	40.6	39.6	34.2	42.0
Indonesia	6.4	7.2	6.8	7.9	8.5	8.7	7.0	6.8
Turkey	10.0	11.1	12.0	10.9	9.5	10.4	11.1	10.1
Europe								
European Union a	131.7	166.7	146.8	137.9	136.6	162.1	155.0	139.5
Poland	15.4	19.8	17.7	15.2	18.8	18.6	20.0	17.8
France	24.2	30.3	26.5	25.4	26.4	31.0	31.5	26.9
Germany	20.1	25.3	22.2	21.0	19.8	24.1	23.3	20.2
Italy	9.8	12.6	12.5	11.0	11.3	11.6	10.2	9.8
Spain	13.6	16.1	8.6	12.1	16.9	16.6	12.0	12.7
Russian Federation	30.5	29.6	27.6	30.2	29.3	40.7	31.8	16.4
Ukraine	15.6	23.0	18.1	19.2	14.6	26.2	24.1	21.4
Oceania								
Australia	15.6	12.1	14.3	6.7	13.3	12.6	11.4	12.4
Other	107.5	101.5	112.0	123.7	128.3	126.9	123.1	131.9
Total b	916.1	1 015.6	980.3	988.6	1 080.8	1 111.3	1 116.3	1 100.4

a Regarded as 27 countries. **b** World totals do not necessarily equal those of other tables as a result of the different sources used.

Sources: ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; International Grains Council, *Grain Market Report*.

37 World coarse grains production, by grain

	Corn Mt	Barley Mt	Sorghum Mt	Oats Mt	Total ^a Mt
1965-66	225.5	92.7	46.4	44.6	472.4
1966-67	250.1	102.5	49.3	46.3	508.8
1967-68	262.2	105.0	53.3	48.1	533.4
1968-69	252.5	115.0	51.5	51.5	533.8
1969-70	270.0	118.0	54.8	51.9	558.0
1970-71	268.1	119.8	55.1	51.6	559.2
1971-72	308.5	131.4	57.7	53.8	617.4
1972-73	301.4	132.5	54.0	47.6	594.2
1973-74	330.5	146.0	65.9	49.7	659.3
1974-75	299.8	149.6	60.3	46.7	622.6
1975-76	339.2	136.0	63.8	44.6	641.0
1976-77	356.1	166.2	62.2	45.8	692.0
1977-78	365.4	157.1	64.4	48.4	691.0
1978-79	392.1	175.6	63.6	48.5	744.1
1979-80	425.6	153.8	61.6	42.5	735.5
1980-81	408.7	157.4	59.4	41.5	723.5
1981-82	441.8	149.5	70.5	40.2	759.0
1982-83	439.9	161.2	65.2	46.2	775.3
1983-84	348.3	158.5	58.6	43.5	678.2
1984-85	458.4	170.5	65.9	45.8	806.1
1985-86	479.0	173.6	70.2	47.0	833.7
1986-87	475.4	178.1	64.5	44.6	823.9
1987-88	451.0	175.4	56.6	40.6	787.2
1988-89	400.4	164.4	54.6	35.4	722.8
1989-90	461.7	166.2	55.4	39.3	794.3
1990-91	482.0	179.5	53.7	39.3	828.8
1991-92	493.0	169.9	53.7	33.0	812.2
1992-93	535.6	166.3	65.6	33.9	868.9
1993-94	475.8	169.0	55.5	35.4	797.6
1994-95	559.3	160.7	57.6	32.9	869.4
1995-96	516.4	141.2	55.4	28.6	800.9
1996-97	593.0	153.1	69.8	30.7	909.1
1997-98	574.4	153.9	58.0	31.0	881.4
1998-99	606.0	136.0	60.7	25.7	891.5
1999-00	608.1	127.4	59.3	24.1	878.1
2000-01	591.4	133.1	55.3	25.9	863.7
2001-02	601.0	143.5	60.0	27.3	896.6
2002-03	603.2	134.3	53.6	25.5	873.6
2003-04	627.5	142.2	60.1	26.4	916.1
2004-05	715.8	152.3	58.8	25.7	1 015.6
2005-06	699.7	136.2	59.6	23.9	980.3
2006-07	714.0	136.6	57.7	22.8	988.6
2007-08	794.9	133.0	65.9	25.5	1 080.8
2008-09	799.3	155.2	64.8	25.6	1 111.3
2009-10	819.6	150.4	59.3	23.6	1 116.3
2010-11	828.7	124.1	65.8	20.2	1 100.4

^a Includes rye, millet and mixed grain.

Source: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

38 Volume of world coarse grains trade, by region and country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	1.8	2.3	2.1	2.6	2.4	2.1	2.6	3.0
Egypt	3.7	5.4	4.4	4.8	4.2	5.1	5.9	5.4
Morocco	1.3	2.0	2.0	2.1	2.2	1.8	2.2	2.1
Americas								
Canada								
Colombia	2.2	2.5	3.4	3.7	3.6	3.5	4.1	4.2
Mexico	8.9	9.0	9.9	11.0	11.0	10.5	10.9	10.5
Asia								
China	1.5	2.1	2.3	1.2	1.2	1.7	3.8	2.7
Chinese Taipei	5.1	4.8	4.7	4.4	4.7	4.7	4.7	4.5
Japan	20.0	19.7	19.8	19.7	19.2	19.6	19.2	18.6
Korea, Rep. of	9.0	8.7	8.5	8.8	9.4	7.2	8.5	8.2
Malaysia	2.4	2.4	2.5	2.4	3.2	2.4	3.1	2.7
Europe								
European Union ^a	7.7	2.9	2.9	8.9	19.9	3.0	3.0	8.3
Middle East								
Iran	2.5	3.9	3.0	3.6	3.9	5.0	5.1	3.9
Israel								
Saudi Arabia	7.3	7.7	8.6	7.8	10.0	9.2	9.1	7.9
Syria	1.5	2.3	2.0	2.1	2.6	2.8	2.3	1.9
Total ^b	100.2	100.8	105.0	113.4	130.2	108.1	115.6	113.7
Exports								
Africa								
South Africa	0.8	1.6	1.4	0.5	1.1	2.2	1.6	2.9
Asia								
China	7.7	7.6	3.8	5.5	0.9	0.2	0.2	0.2
Americas								
Argentina	10.8	15.2	10.0	16.9	16.9	12.5	18.7	18.5
Brazil	6.2	1.5	2.8	8.2	8.0	7.2	8.6	11.6
Canada	3.5	2.8	4.1	3.7	6.6	3.9	3.1	4.5
United States	53.8	51.4	59.8	58.3	69.9	50.9	54.7	50.6
Europe								
European Union ^a	2.4	4.9	4.4	4.7	4.6	5.6	3.0	6.1
Russian Federation	1.8	1.5	1.5	1.8	1.4	4.9	2.5	1.1
Ukraine	2.8	6.8	6.5	6.1	3.1	11.9	11.4	7.8
Oceania								
Australia	7.8	5.3	6.2	2.7	5.2	5.4	5.7	5.3
Total ^b	102.6	101.0	107.3	117.8	127.2	113.1	122.9	115.3

^a Regarded as 27 countries. Excludes intra-EU trade. ^b Includes some unspecified countries. Country totals may not necessarily sum to world totals as results of different sources used.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; US Department of Agriculture, *Grain: World Markets and Trade*, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

39 Volume of world corn trade, by region and country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Algeria	1.8	2.1	2.1	2.5	2.2	1.9	2.6	2.7
Canada	2.0	2.4	1.9	2.1	3.2	1.8	2.1	1.4
China	0.0	0.0	0.1	0.0	0.0	0.0	1.3	1.0
Chinese Taipei	5.0	4.6	4.5	4.3	4.5	4.5	4.5	4.3
Colombia	2.0	2.3	3.2	3.4	3.3	3.1	3.7	3.6
European Union ^a	5.4	2.8	2.7	5.2	15.0	3.5	2.2	7.7
Iran								
Japan	16.8	16.5	16.6	16.7	16.6	16.5	16.0	15.7
Korea, Rep. of	8.8	8.6	8.5	8.7	9.3	7.2	8.5	8.1
Malaysia	2.4	2.4	2.5	2.4	3.2	2.4	3.1	2.7
Mexico	5.7	5.9	6.8	8.9	9.6	7.8	8.3	8.0
Other	25.8	27.9	29.2	33.9	33.1	31.3	34.6	30.4
Total ^b	76.9	76.2	79.9	90.3	100.0	82.2	90.3	90.1
Exports								
Argentina	10.4	13.8	10.7	15.7	15.7	8.5	17.0	15.0
Brazil	5.8	1.4	2.8	8.1	7.9	7.2	8.6	11.6
China	7.6	7.6	3.7	5.3	0.5	0.2	0.2	0.1
European Union ^a	0.1	0.2	0.1	0.5	0.5	1.7	1.4	1.0
Ukraine	1.2	2.3	2.5	1.0	2.1	5.5	5.1	5.0
United States	48.8	45.3	56.1	54.2	60.7	47.8	49.7	45.3
Other	4.3	3.9	5.4	6.3	9.8	11.1	9.4	10.4
Total ^b	79.1	76.0	82.7	91.5	98.3	84.0	93.0	91.2

^a Regarded as 27 countries. Excludes intra-EU trade. ^b Includes some unspecified countries. Country totals may not necessarily sum to world totals as results of different sources used.

Source: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

40 Volume of world barley trade, by region and country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
China	1.5	2.0	2.2	1.1	1.1	1.6	2.3	1.7
Iran	0.7	1.3	0.7	0.3	1.0	1.4	0.8	0.4
Japan	1.4	1.5	1.4	1.4	1.4	1.3	1.4	1.4
Saudi Arabia	5.7	6.5	7.1	6.2	8.0	7.7	7.2	6.0
Syria	0.6	0.5	0.8	0.4	0.9	1.1	0.3	0.2
Total b	14.7	16.6	17.0	14.7	18.2	17.9	16.8	14.8
Exports								
Argentina	0.2	0.3	0.3	0.5	0.9	0.9	0.5	1.6
Australia	7.0	4.9	5.9	2.6	4.1	3.9	4.6	4.8
Canada	1.9	1.5	1.9	1.3	2.9	1.6	1.2	1.1
European Union ^a	1.0	4.2	2.6	4.4	3.9	2.4	2.4	4.5
Russian Federation	1.7	1.5	1.4	1.7	1.3	3.6	2.1	1.0
Ukraine	2.6	4.0	4.9	2.9	3.8	5.9	5.8	2.4
Total b	14.8	17.0	17.5	14.6	18.6	18.2	17.3	15.2

^a Regarded as 27 countries. Excludes intra-EU trade. ^b Includes some unspecified countries. Country totals may not necessarily sum to world totals as results of different sources used.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

41 Volume of world sorghum trade, by region and country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Chile	0.1	0.1	0.1	0.2	0.4	0.5	0.6	0.8
European Union ^a	1.6	0.2	0.1	0.7	5.8	0.4	0.0	0.8
Japan	0.0	0.2	0.2	0.3	0.3	0.3	0.4	1.4
Mexico	3.0	2.9	3.0	2.0	1.2	2.5	2.6	2.4
Total b	6.2	5.2	5.3	5.7	9.1	5.8	6.3	6.6
Exports								
Argentina	0.2	0.3	0.2	1.0	1.2	0.9	1.5	2.0
Australia	0.5	0.3	0.2	0.0	0.5	1.4	0.4	0.1
United States	5.0	4.7	4.9	3.9	7.0	3.6	4.2	3.8
Total b	6.2	5.4	5.5	5.8	8.8	6.1	6.3	6.7

^a Regarded as 27 countries. Excludes intra-EU trade. ^b Includes some unspecified countries. Country totals may not necessarily sum to world totals as results of different sources used.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

42 US coarse grains supply and disposal

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Area	million ha	34.8	34.9	34.9	32.5	39.9	36.9	36.3	36.5
Yield	t/ha	7.9	9.1	8.6	8.6	8.8	8.8	9.6	9.0
Production	Mt	275.0	319.4	298.7	280.0	349.9	325.9	348.8	330.2
Opening stocks	Mt	30.9	28.8	58.8	54.8	36.2	45.1	47.1	48.1
Imports	Mt	2.4	2.2	2.1	2.6	3.5	3.1	2.3	2.5
Availability	Mt	308.4	350.4	359.6	337.3	389.5	374.0	398.1	380.9
Domestic use	Mt	225.9	240.2	245.0	242.8	274.5	276.0	295.3	298.0
– feed	Mt	155.5	165.3	162.2	146.9	155.8	140.9	136.8	127.8
– food, seed and industrial	Mt	70.4	74.9	82.8	95.9	118.7	135.1	158.6	170.2
Exports	Mt	53.8	51.4	59.8	58.3	69.9	50.9	54.7	50.6
Closing stocks	Mt	28.8	58.8	54.8	36.2	45.1	47.1	48.1	32.3

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC.

43 US corn supply and disposal

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Area									
– planted	million ha	31.8	32.8	33.1	31.7	37.9	34.8	35.0	35.7
– harvested	million ha	28.7	29.8	30.4	28.6	35.0	31.8	32.2	33.0
Yield	t/ha	8.92	10.06	9.29	9.36	9.46	9.66	10.34	9.59
Production	Mt	256.2	299.9	282.3	267.5	331.2	307.1	333.0	316.2
Opening stocks	Mt	27.6	24.3	53.7	50.0	33.1	41.3	42.5	43.4
Imports	Mt	0.4	0.3	0.2	0.3	0.5	0.3	0.2	0.7
Availability	Mt	284.2	324.5	336.2	317.8	364.8	348.7	375.7	360.2
Domestic use	Mt	211.6	224.6	232.0	230.7	261.6	259.3	281.9	285.0
– feed	Mt	146.9	155.8	155.3	140.7	148.8	131.6	131.2	121.7
– food, seed and industrial	Mt	64.7	68.8	76.7	89.9	112.8	127.6	150.6	163.3
Exports	Mt	48.8	45.3	56.1	54.2	60.7	47.8	49.7	45.3
Closing stocks	Mt	24.3	53.7	50.0	33.1	41.3	42.5	43.4	28.7
Farm price	US\$/bus	2.42	2.06	3.04	4.20	5.50	4.06	3.55	5.18
Loan rate	US\$/bus	1.98	1.95	1.95	1.95	1.95	1.95	1.95	1.95
Export price ^a	US\$/t	115.0	97.5	103.9	150.8	201.4	189.6	160.4	254.2

^a US no. 2 yellow corn fob Gulf.

Sources: US Department of Agriculture, *Amber Waves*, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC.

44 US sorghum supply and disposal

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Sorghum									
Area harvested	million ha	3.2	2.6	2.3	2.0	2.7	2.9	2.2	1.9
Yield	t/ha	3.3	4.4	4.3	3.5	4.6	4.1	4.4	4.5
Production	Mt	10.4	11.5	10.0	7.0	12.6	12.0	9.7	8.8
Opening stocks	Mt	1.1	0.9	1.4	1.7	0.8	1.3	1.4	1.0
Availability	Mt	11.5	12.4	11.4	8.7	13.5	13.3	11.1	9.8
Domestic use	Mt	5.6	6.3	4.8	4.0	5.1	8.3	5.9	5.3
Exports	Mt	5.0	4.7	4.9	3.9	7.0	3.6	4.2	3.8
Closing stocks	Mt	0.9	1.4	1.7	0.8	1.3	1.4	1.0	0.7
Farm price	US\$/bus	2.4	1.8	1.9	3.3	4.1	3.2	3.2	5.0
Loan rate	US\$/bus	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Export price ^a	US\$/t	127.9	108.8	119.8	170.2	219.8	188.2	170.8	115.0

^a US no. 2 sorghum fob Gulf.

Sources: US Department of Agriculture, *Agricultural Outlook*, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC.

45 Feedgrains export price quotation, by category

	US no. 2 yellow corn (Gulf) ^a US\$/t	US no. 2 sorghum (Gulf) ^a US\$/t	French barley Rouen US\$/t	French malting barley Rouen US\$/t
1985-86	106.0	94.0	na	na
1986-87	77.0	71.0	na	na
1987-88	86.0	80.0	na	na
1988-89	118.0	103.5	na	na
1989-90	110.7	103.7	na	na
1990-91	106.5	104.4	na	na
1991-92	110.4	109.7	na	na
1992-93	97.9	95.8	na	na
1993-94	114.7	111.9	na	na
1994-95	105.2	103.7	na	na
1995-96	160.1	156.9	na	na
1996-97	132.4	124.5	na	na
1997-98	112.4	113.3	na	na
1998-99	94.5	94.5	na	na
1999-00	89.9	88.6	na	na
2000-01	86.6	95.6	110.3	na
2001-02	90.1	99.9	100.7	126.2
2002-03	107.3	120.7	105.6	161.6
2003-04	115.0	127.9	152.3	166.2
2004-05	97.5	108.8	129.3	158.7
2005-06	103.9	119.8	132.7	160.7
2006-07	150.8	170.2	184.5	262.1
2007-08	201.4	219.8	317.3	442.7
2008-09	189.6	188.2	179.9	228.5
2009-10	160.4	170.8	145.9	167.5
2010-11	254.2	115.0	264.2	323.4
2010				
January	168.0	183.4	150.1	170.8
February	162.2	172.2	140.9	161.0
March	159.2	169.7	137.4	161.0
April	157.6	168.2	142.4	155.1
May	163.6	173.0	137.2	149.7
June	153.3	148.4	132.0	164.8
July	164.5	155.7	168.2	219.0
August	175.8	175.1	255.0	276.4
September	207.6	202.9	255.9	299.8
October	236.2	228.4	262.6	302.6
November	238.9	236.3	260.0	299.0
December	250.6	245.3	273.7	326.8
2011				
January	265.0	267.1	295.9	345.2
February	293.6	294.8	294.3	334.0
March	290.7	288.5	271.9	319.4
April	319.8	315.9	274.6	319.0
May	308.0	293.7	281.9	392.5
June	308.8	306.7	284.7	430.9

^a Export price, fob Gulf. na not available.Source: International Grains Council, *Market Report*, London.

46 Coarse grains supply and disposal in major exporting countries

	Area harvested million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports Mt	Closing stocks Mt
United States (September–August)						
2003-04	34.8	7.9	275.0	225.9	53.8	28.8
2004-05	34.9	9.15	319.4	240.2	51.4	58.8
2005-06	34.9	8.56	298.7	245.0	59.8	54.8
2006-07	32.5	8.61	280.0	242.8	58.3	36.2
2007-08	39.9	8.77	349.9	274.5	69.9	45.1
2008-09	36.9	8.82	325.9	276.0	50.9	47.1
2009-10	36.3	9.60	348.8	295.3	54.7	48.1
2010-11	36.5	9.04	330.2	298.0	50.6	32.3
Canada (August–July)						
2003-04	7.3	3.53	25.8	23.3	3.5	4.1
2004-05	6.4	3.99	25.6	22.9	2.8	6.4
2005-06	6.2	4.00	24.9	22.9	4.1	6.3
2006-07	6.1	3.78	23.1	24.5	3.7	3.5
2007-08	7.4	3.77	27.8	24.0	6.6	4.0
2008-09	6.3	4.29	27.2	22.9	3.9	6.3
2009-10	5.2	4.30	22.5	22.2	3.1	5.7
2010-11	4.7	4.77	22.3	20.9	4.5	3.5
Argentina (March–February)						
2003-04	3.4	5.42	18.5	7.4	10.8	1.5
2004-05	4.0	6.26	24.9	9.0	15.2	2.1
2005-06	3.5	5.54	19.3	9.5	10.0	2.0
2006-07	4.1	6.68	27.1	9.7	16.9	2.5
2007-08	4.8	5.70	27.1	9.4	16.9	3.3
2008-09	3.9	5.09	19.6	8.8	12.5	1.7
2009-10	4.2	6.80	28.5	10.1	18.7	1.4
2010-11	5.7	5.37	30.5	11.0	18.5	2.4
Australia (November–October)						
2003-04	6.8	2.29	15.6	7.8	7.8	2.2
2004-05	6.8	1.79	12.1	6.8	5.3	2.2
2005-06	6.6	2.18	14.3	8.1	6.2	2.2
2006-07	6.2	1.08	6.7	4.0	2.7	2.8
2007-08	7.5	1.77	13.3	8.1	5.2	1.2
2008-09	7.0	1.79	12.6	7.5	5.4	2.7
2009-10	6.2	1.85	11.4	6.2	5.7	3.3
2010-11	5.6	2.20	12.4	8.7	5.3	3.0

Continued

46 Coarse grains supply and disposal in major exporting countries *continued*

	Area harvested million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports Mt	Closing stocks Mt
Russian Federation (November–October)						
2003-04	17.8	1.7	30.5	29.8	1.8	2.9
2004-05	17.4	1.70	29.6	33.2	1.5	2.7
2005-06	16.3	1.70	27.6	29.2	1.5	1.4
2006-07	17.1	1.76	30.2	27.6	1.8	1.8
2007-08	17.5	1.68	29.3	28.4	1.4	1.7
2008-09	17.8	2.29	40.7	28.6	4.9	4.9
2009-10	16.5	1.93	31.8	33.0	2.5	3.2
2010-11	13.8	1.19	16.4	30.4	1.1	1.9
Ukraine (November–October)						
2003-04	7.8	2.00	15.6	13.3	2.8	1.8
2004-05	8.4	2.73	23.0	14.2	6.8	2.8
2005-06	7.2	2.52	18.1	15.3	6.5	2.1
2006-07	7.9	2.44	19.2	12.4	6.1	2.1
2007-08	6.8	2.15	14.6	13.1	3.1	1.7
2008-09	7.7	3.43	26.2	11.9	11.9	2.4
2009-10	8.1	2.99	24.1	13.7	11.4	2.2
2010-11	7.6	2.81	21.4	13.0	7.8	2.1
Brazil (March–February)						
2003-04	13.6	3.27	44.6	37.3	6.2	8.2
2004-05	13.0	2.91	37.8	38.5	1.5	4.5
2005-06	14.2	3.10	44.1	41.6	2.8	3.2
2006-07	15.1	3.52	53.2	42.2	8.2	3.8
2007-08	15.6	3.88	60.5	43.3	8.0	12.7
2008-09	15.1	3.54	53.5	44.6	7.2	12.5
2009-10	13.9	4.19	58.4	48.2	8.6	10.3
2010-11	14.8	4.06	59.9	49.7	11.6	9.9
World						
2003-04	306.0	2.99	916.1	942.8	102.6	143.3
2004-05	300.5	3.38	1 015.6	977.8	101.0	180.2
2005-06	301.3	3.25	980.3	992.7	107.3	166.2
2006-07	305.4	3.23	988.6	1 008.7	117.8	141.2
2007-08	318.7	3.38	1 080.8	1 057.3	127.2	164.1
2008-09	313.5	3.53	1 111.3	1 079.2	113.1	193.9
2009-10	310.7	3.56	1 116.3	1 106.9	122.9	195.5
2010-11	306.4	3.56	1 100.4	1 126.6	115.3	168.1

Note: The marketing period of each country is shown in parentheses.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ABARES.

47 Australian cotton area harvested and lint yield ^a

	Area harvested			Lint yield		
	New South Wales '000 ha	Queensland '000 ha	Australia ^b '000 ha	New South Wales t/ha	Queensland t/ha	Australia ^b t/ha
1965-66	12.5	5.9	22.2	1.247	0.326	na
1966-67	12.3	5.5	21.5	0.927	0.541	na
1967-68	19.4	5.2	31.1	1.301	0.731	na
1968-69	22.3	6.3	32.5	1.158	0.722	na
1969-70	23.1	5.9	31.7	0.880	0.735	na
1970-71	26.4	5.2	35.1	0.485	0.596	na
1971-72	29.3	6.9	40.1	1.133	0.957	na
1972-73	31.7	8.0	43.6	0.744	0.600	na
1973-74	31.0	7.1	41.7	0.703	0.930	na
1974-75	27.5	7.4	38.5	0.982	0.797	na
1975-76	23.9	6.0	29.8	0.853	0.750	na
1976-77	24.8	8.9	35.3	0.847	0.787	na
1977-78	31.6	9.6	41.6	1.104	0.969	na
1978-79	36.1	13.4	49.8	1.102	0.993	na
1979-80	51.4	20.0	75.0	1.243	0.965	na
1980-81	61.6	22.0	83.6	1.252	0.991	1.183
1981-82	74.5	29.0	103.5	1.456	0.900	1.300
1982-83	71.9	24.6	96.5	1.043	1.049	1.045
1983-84	104.5	32.9	137.4	1.027	1.033	1.028
1984-85	131.2	51.9	183.1	1.538	0.904	1.358
1985-86	135.8	41.2	177.0	1.593	1.238	1.510
1986-87	125.0	31.0	156.0	1.451	1.297	1.420
1987-88	163.6	80.9	244.6	1.204	0.890	1.100
1988-89	140.8	53.3	194.1	1.577	1.332	1.510
1989-90	175.0	64.8	239.8	1.346	1.077	1.273
1990-91	202.0	77.0	279.0	1.678	1.403	1.602
1991-92	225.0	87.0	312.0	1.812	1.688	1.777
1992-93	204.0	82.0	286.0	1.478	1.314	1.431
1993-94	210.0	84.0	294.0	1.301	1.123	1.250
1994-95	157.0	89.0	246.0	1.594	1.402	1.524
1995-96	185.5	118.4	303.9	1.460	1.270	1.386
1996-97	277.0	119.1	396.1	1.599	1.403	1.540
1997-98	299.3	138.8	438.2	1.588	1.371	1.519
1998-99	381.7	179.9	561.5	1.243	1.341	1.274
1999-00	313.0	151.3	464.3	1.574	1.638	1.595
2000-01	327.9	199.4	527.3	1.627	1.432	1.553
2001-02	289.7	119.3	409.0	1.771	1.594	1.719
2002-03	165.2	59.3	224.5	1.830	1.430	1.724
2003-04	97.2	100.8	198.1	1.849	1.680	1.763
2004-05	162.8	158.1	320.9	2.136	1.881	2.011
2005-06	214.3	121.2	335.5	1.883	1.597	1.779
2006-07	108.7	34.9	143.6	2.223	1.710	2.099
2007-08	41.2	21.4	62.7	2.252	1.864	2.120
2008-09	88.0	76.0	164.0	2.024	1.987	2.007
2009-10	123.8	84.5	208.3	2.067	1.549	1.857
2010-11	347.7	242.5	590.2	1.638	1.354	1.521

^a August–July crop years. ^b Includes data for Western Australia. **na** Not available.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Cotton Market News*, Canberra; ABARES.

48 Australian cottonseed and lint production a

	Cottonseed production			Lint production		
	New	Queensland	Australia b	New	Queensland	Australia b
	South Wales			South Wales		
	kt	kt	kt	kt	kt	kt
1965-66	27.0	3.3	35.4	15.6	1.9	na
1966-67	20.0	5.2	32.1	11.4	3.0	na
1967-68	43.9	6.6	57.3	25.2	3.8	na
1968-69	44.9	8.0	58.5	25.8	4.5	na
1969-70	35.5	7.7	48.3	20.3	4.3	na
1970-71	22.3	5.4	31.9	12.8	3.1	na
1971-72	52.8	12.7	69.1	33.2	6.6	na
1972-73	36.4	10.7	50.7	23.6	4.8	na
1973-74	35.7	10.8	49.8	21.8	6.6	na
1974-75	44.1	9.7	53.8	27.0	5.9	na
1975-76	33.2	7.4	40.6	20.4	4.5	na
1976-77	34.9	11.7	46.6	21.0	7.0	na
1977-78	56.9	15.2	72.1	34.9	9.3	na
1978-79	56.8	21.7	78.5	39.8	13.3	na
1979-80	104.3	31.5	135.8	63.9	19.3	na
1980-81	125.8	35.6	161.4	77.1	21.8	98.9
1981-82	176.5	42.6	219.1	108.5	26.1	134.6
1982-83	112.3	42.1	154.4	75.0	25.8	100.8
1983-84	135.0	55.2	190.2	107.3	34.0	141.3
1984-85	308.2	102.2	410.4	201.8	46.9	248.7
1985-86	308.0	74.0	382.0	216.3	51.0	267.3
1986-87	281.6	48.4	330.0	181.4	40.2	221.6
1987-88	333.9	101.1	435.0	197.0	72.0	269.0
1988-89	345.0	74.3	419.3	222.0	71.0	293.0
1989-90	380.0	113.0	493.0	235.6	69.8	305.3
1990-91	526.0	160.0	686.0	339.0	108.0	447.0
1991-92	563.0	186.0	749.0	407.6	146.9	554.5
1992-93	365.1	162.4	527.5	301.5	107.7	409.3
1993-94	334.2	131.3	465.5	273.2	94.3	367.5
1994-95	286.5	187.1	473.6	250.2	124.8	375.0
1995-96	382.4	212.4	594.8	270.8	150.4	421.2
1996-97	627.5	232.6	860.1	443.0	167.1	610.1
1997-98	672.3	269.0	941.3	475.3	190.3	665.7
1998-99	677.5	346.9	1 024.4	474.4	241.2	715.6
1999-00	695.7	350.4	1 046.2	492.7	247.8	740.5
2000-01	740.5	399.5	1 140.0	533.5	285.5	819.0
2001-02	777.1	276.4	1 053.5	513.1	190.1	703.3
2002-03	425.3	120.5	545.8	302.3	84.7	387.1
2003-04	254.2	239.6	493.7	179.7	169.4	349.1
2004-05	491.8	420.5	912.3	347.8	297.3	645.1
2005-06	570.6	273.8	844.4	403.5	193.6	597.1
2006-07	311.1	76.7	387.8	241.8	59.6	301.4
2007-08	131.3	56.5	187.8	92.8	40.0	132.8
2008-09	252.0	213.6	465.5	178.2	151.0	329.2
2009-10	361.9	185.1	547.0	255.9	130.9	386.8
2010-11	805.2	464.2	1 269.4	569.4	328.3	897.7

a August–July crop year. b Includes data for Western Australia. na Not available.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Cotton Market News*, Canberra; ABARES.

49 Australian production, trade and use of raw cotton

	Domestic lint production a kt	Gross value of production b \$m	Imports		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1965-66	na	14.3	14.6	8.2	na	na
1966-67	na	12.5	9.1	4.7	na	na
1967-68	na	19.7	12.3	6.9	na	na
1968-69	na	21.0	5.7	3.8	3.7	1.9
1969-70	na	19.1	4.7	3.0	11.5	5.1
1970-71	na	13.3	7.0	4.3	7.4	3.4
1971-72	na	30.1	8.9	5.8	2.4	1.6
1972-73	na	32.6	3.8	2.7	22.3	11.3
1973-74	na	26.6	8.4	9.3	3.2	1.8
1974-75	na	29.3	4.0	4.8	7.7	5.4
1975-76	na	37.5	4.1	4.4	16.0	11.5
1976-77	na	39.8	5.0	7.4	5.5	7.1
1977-78	na	61.2	4.0	5.6	9.8	10.9
1978-79	na	71.4	1.7	3.1	23.6	28.5
1979-80	na	135.3	2.0	4.0	48.5	66.9
1980-81	98.9	147.2	2.2	4.3	59.0	92.0
1981-82	134.6	182.0	1.0	1.9	79.0	117.0
1982-83	100.8	167.5	0.7	1.3	129.0	198.0
1983-84	141.3	268.7	1.1	2.4	82.0	148.0
1984-85	248.7	330.2	2.7	6.0	140.0	262.0
1985-86	267.3	324.9	0.5	1.4	241.0	380.0
1986-87	221.6	372.1	0.3	0.6	251.0	345.0
1987-88	269.0	421.6	0.3	0.9	176.0	353.0
1988-89	293.0	536.9	1.1	2.9	288.3	464.1
1989-90	305.3	639.5	0.1	0.3	306.0	579.8
1990-91	447.0	898.0	0.7	2.2	339.7	737.7
1991-92	554.5	878.9	0.7	1.8	458.1	945.0
1992-93	367.5	652.2	0.3	1.4	360.5	732.0
1993-94	375.0	851.2	0.2	1.2	296.8	678.7
1994-95	421.2	1 002.8	0.7	2.0	311.4	762.3
1995-96	421.2	1 002.8	0.7	2.0	311.4	762.3
1996-97	610.1	1 342.0	0.2	0.6	505.0	1 076.9
1997-98	665.7	1 449.2	0.2	1.0	593.4	1 385.6
1998-99	715.6	1 394.7	0.2	1.0	646.7	1 559.0
1999-00	740.5	1 568.3	0.4	1.4	703.0	1 406.6
2000-01	819.0	1 881.9	0.4	1.6	834.3	1 958.3
2001-02	703.3	1 499.4	0.4	1.0	718.5	1 547.4
2002-03	387.1	844.0	0.3	1.0	596.2	1 153.2
2003-04	349.1	689.1	0.1	0.5	459.0	982.2
2004-05	645.1	1 222.0	0.3	0.7	410.2	770.9
2005-06	597.1	995.1	0.0	0.0	650.2	1 137.4
2006-07	301.4	541.6	0.0	0.1	486.5	823.4
2007-08	132.8	253.7	0.0	0.0	266.4	465.7
2008-09	329.2	693.3	0.3	0.3	259.7	500.1
2009-10	386.8	828.4	0.1	0.2	395.4	754.6
2010-11	897.7	2 588.1	0.4	1.1	504.5	1 366.8

a August–July crop year. **b** Includes cottonseed. **na** Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; Raw Cotton Marketing Advisory Committee, *Annual Report*, Canberra; ABARES.

50 **Volume of Australian exports of raw cotton, by destination**

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	443.7	395.8	642.1	480.0	262.4	259.6	394.5	498.3
China	79.9	61.8	284.6	163.0	90.5	89.7	139.8	219.0
Chinese Taipei	2.7	3.9	8.7	4.4	0.8	1.1	5.3	6.5
India	2.2	3.5	1.3	4.2	2.1	3.0	3.5	2.6
Indonesia	147.0	130.0	141.4	126.4	73.9	80.6	82.7	87.6
Japan	52.2	45.2	34.9	36.3	28.8	20.3	17.8	18.1
Korea, Rep. of	56.4	63.6	53.7	53.8	13.8	11.8	33.7	19.0
Pakistan	33.2	13.3	8.2	6.8	3.3	0.1	4.3	14.2
Philippines	0.7	0.2	1.3	0.0	0.4	0.4	0.0	1.1
Thailand	58.6	64.8	93.1	75.0	43.5	44.6	75.1	75.3
Other	10.9	9.7	14.9	10.3	5.4	8.0	32.2	54.9
Europe	11.9	10.2	6.9	4.7	1.8	0.1	0.3	0.8
Germany	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Italy	6.6	8.1	6.6	4.4	1.8	0.1	0.3	0.8
Spain	2.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	2.2	0.1	0.3	0.3	0.0	0.0	0.0	0.0
United States	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Other countries	3.4	4.2	1.3	1.9	2.1	0.0	0.6	5.5
Total	459.0	410.2	650.2	486.5	266.4	259.7	395.4	504.5

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

51 Cotton prices and unit values

	Cotlook 'A' index ^a USc/lb	Australian base price for raw cotton ^b Ac/kg	Average unit export return for raw cotton Ac/kg
1966-67	28.4	55.0	na
1967-68	31.3	58.0	na
1968-69	28.8	60.0	51.4
1969-70	28.0	58.0	44.3
1970-71	31.1	65.0	45.9
1971-72	37.2	72.0	66.7
1972-73	42.0	72.0	50.7
1973-74	76.5	120.0	56.3
1974-75	52.5	90.0	70.1
1975-76	65.3	117.0	71.9
1976-77	81.9	166.0	129.1
1977-78	65.1	135.0	111.2
1978-79	76.1	156.0	120.8
1979-80	85.4	179.0	137.9
1980-81	94.2	192.0	155.9
1981-82	73.8	164.0	148.1
1982-83	76.7	199.0	153.5
1983-84	87.7	237.0	180.5
1984-85	69.2	226.0	187.1
1985-86	49.0	174.0	157.7
1986-87	62.1	211.0	137.5
1987-88	72.3	237.0	200.6
1988-89	66.4	186.6	161.0
1989-90	82.4	247.7	189.5
1990-91	82.9	249.5	217.1
1991-92	63.1	198.4	206.3
1992-93	57.7	197.6	190.8
1993-94	70.6	234.4	203.0
1994-95	91.1	286.5	228.7
1995-96	85.5	262.7	244.8
1996-97	78.6	235.0	213.2
1997-98	72.2	248.6	233.5
1998-99	60.2	228.5	241.1
1999-00	52.5	199.2	200.1
2000-01	57.2	251.7	234.7
2001-02	41.8	193.8	215.4
2002-03	55.4	225.3	193.4
2003-04	68.3	225.2	214.0
2004-05	52.4	167.3	187.9
2005-06	56.0	177.8	174.9
2006-07	58.1	176.9	169.2
2007-08	72.9	190.8	174.8
2008-09	61.2	193.3	192.6
2009-10	77.5	205.1	190.8
2010-11	164.3	372.3	270.9

^a Cotlook 'A' index quotes (cif Northern Europe) for strict middling (SM) 1 1/16" cotton from 1972-73 to July 1981, and for SM 1 3/32" cotton from August 1981. August-July crop year. ^b Equivalent to 'in store' prices - that is, Cotlook prices in USc/lb to which freight differentials have been added, then converted to Australian currency, with 'into store' charges added finally. Prices approximate import parity prices. na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Cotton Market News*, Canberra; Cotlook Limited, *Cotton Outlook*, United Kingdom; ABARES.

52 Summary of world statistics for raw cotton a

	Opening stocks kt	Production kt	Total supply kt	Consumption kt	Imports b kt	Price c USc/lb
1965-66	6 314	12 396	22 441	11 719	3 730	na
1966-67	7 087	11 379	22 387	12 202	3 921	28.4
1967-68	6 196	11 226	21 203	12 234	3 781	31.3
1968-69	5 134	12 387	21 209	12 273	3 687	28.8
1969-70	5 220	11 828	20 902	12 186	3 853	28.0
1970-71	4 875	12 099	22 333	12 439	5 359	31.1
1971-72	4 756	12 879	23 006	12 711	5 371	37.2
1972-73	4 888	13 470	24 318	12 954	5 961	42.0
1973-74	5 331	13 603	24 757	13 122	5 823	76.5
1974-75	5 913	13 895	24 995	12 419	5 187	52.5
1975-76	7 262	11 752	24 736	13 412	5 723	65.3
1976-77	5 639	12 307	23 375	13 115	5 428	81.9
1977-78	4 873	13 914	24 692	13 286	5 905	65.1
1978-79	5 582	12 954	24 442	13 767	5 907	76.1
1979-80	4 759	14 249	25 650	14 349	6 642	85.4
1980-81	4 623	13 799	24 355	14 157	5 934	94.2
1981-82	4 487	14 988	25 070	13 784	5 595	73.8
1982-83	5 625	14 442	25 743	14 580	5 676	76.7
1983-84	5 542	14 430	25 864	14 953	5 891	87.7
1984-85	5 287	19 313	30 616	15 418	6 016	69.2
1985-86	9 172	17 449	32 931	16 401	6 310	49.0
1986-87	10 361	15 319	32 885	17 874	7 205	62.1
1987-88	7 711	17 733	32 091	18 321	6 647	72.3
1988-89	7 100	18 337	32 748	18 558	7 312	66.4
1989-90	6 760	17 356	31 237	18 921	7 120	82.4
1990-91	5 438	18 974	31 070	18 622	6 658	82.9
1991-92	5 976	20 748	33 043	18 768	6 319	63.1
1992-93	8 046	17 929	31 866	18 798	5 891	57.7
1993-94	7 509	16 922	30 517	18 628	6 086	70.6
1994-95	6 054	18 799	31 448	18 425	6 595	91.1
1995-96	6 966	20 438	33 282	18 713	5 878	85.5
1996-97	8 732	19 621	34 575	19 147	6 222	78.6
1997-98	9 713	20 092	35 451	19 002	5 646	72.2
1998-99	10 758	18 745	34 833	18 456	5 330	60.2
1999-00	11 500	19 151	36 743	19 832	6 092	52.5
2000-01	11 127	19 399	36 237	20 067	5 711	57.2
2001-02	10 758	21 492	38 631	20 564	6 381	41.8
2002-03	11 873	19 809	38 255	21 424	6 573	55.4
2003-04	10 370	21 063	38 861	21 355	7 428	68.3
2004-05	10 470	26 471	44 309	23 750	7 368	52.4
2005-06	13 190	25 352	48 269	25 428	9 727	56.0
2006-07	13 454	26 600	48 360	26 980	8 306	58.1
2007-08	13 559	26 074	48 195	26 918	8 562	72.9
2008-09	13 254	23 360	43 250	24 020	6 636	61.2
2009-10	13 212	22 129	43 256	25 935	7 915	77.5
2010-11	9 579	25 101	42 431	24 898	7 751	164.3

a August–July crop year. b Includes trade among the 12 republics of the former Soviet Union and Estonia, Latvia and Lithuania. c Cotlook 'A' index quotes (cif Northern Europe) for strict middling (SM) 1 1/16" cotton from 1972–73 to July 1981, and for SM 1 3/32" cotton from August 1981.

na Not available.

Sources: US Department of Agriculture, *Cotton: World Markets and Trade, Foreign Agriculture Service Circular*, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; Cotlook Limited, *Cotton Outlook*, United Kingdom; ABARES.

53 World area, yield and production of raw cotton ^a

	Area harvested '000 ha	Lint yield kg/ha	Production					World kt
			Brazil kt	India kt	Pakistan kt	United States kt	China kt	
1965-66	33 285	372	544	961	417	3 252	2 090	12 396
1966-67	31 168	365	427	960	466	2 081	2 330	11 379
1967-68	30 921	363	575	1 129	520	1 621	2 351	11 226
1968-69	31 910	388	718	1 035	529	2 379	2 351	12 387
1969-70	32 458	364	580	1 044	538	2 175	2 079	11 828
1970-71	31 800	380	595	963	544	2 219	2 286	12 099
1971-72	33 023	390	680	1 260	707	2 281	2 112	12 879
1972-73	33 540	402	651	1 125	675	2 984	1 960	13 470
1973-74	32 845	414	535	1 079	633	2 825	2 547	13 603
1974-75	33 507	415	533	1 199	610	2 513	2 460	13 895
1975-76	29 870	393	400	1 130	494	1 808	2 373	11 752
1976-77	30 533	403	590	1 012	418	2 304	2 068	12 307
1977-78	33 576	414	489	1 229	553	3 133	2 047	13 914
1978-79	32 814	395	544	1 348	464	2 364	2 166	12 954
1979-80	32 219	442	572	1 363	744	3 185	2 199	14 249
1980-81	32 369	426	594	1 322	714	2 422	2 700	13 799
1981-82	32 938	455	680	1 428	748	3 407	2 961	14 988
1982-83	31 394	460	586	1 471	823	2 605	3 592	14 442
1983-84	30 920	467	674	1 333	494	1 692	4 638	14 430
1984-85	33 741	572	968	1 820	1 008	2 827	6 249	19 313
1985-86	31 581	553	793	1 964	1 216	2 924	4 137	17 449
1986-87	29 347	522	633	1 579	1 320	2 119	3 549	15 319
1987-88	30 871	574	864	1 555	1 468	3 214	4 246	17 733
1988-89	33 831	542	709	1 788	1 426	3 355	4 159	18 337
1989-90	31 696	548	666	2 295	1 456	2 655	3 788	17 356
1990-91	33 151	572	717	1 989	1 638	3 376	4 507	18 974
1991-92	34 786	596	667	2 023	2 177	3 835	5 683	20 748
1992-93	32 667	549	420	2 346	1 540	3 531	4 507	17 929
1993-94	30 743	550	483	2 134	1 368	3 513	3 745	16 922
1994-95	32 278	582	537	2 427	1 361	4 281	4 333	18 799
1995-96	35 947	569	410	2 885	1 801	3 897	4 768	20 438
1996-97	33 772	581	306	3 030	1 594	4 124	4 202	19 621
1997-98	33 815	594	411	2 686	1 562	4 092	4 594	20 092
1998-99	32 899	570	521	2 805	1 494	3 030	4 507	18 745
1999-00	32 363	592	700	2 652	1 911	3 694	3 832	19 151
2000-01	31 995	606	939	2 380	1 824	3 742	4 420	19 399
2001-02	33 716	637	766	2 678	1 804	4 421	5 313	21 492
2002-03	30 736	644	847	2 308	1 736	3 747	5 487	19 809
2003-04	32 310	652	1 310	3 048	1 708	3 975	5 182	21 063
2004-05	35 701	741	1 285	4 137	2 425	5 063	6 598	26 471
2005-06	34 724	730	1 023	4 148	2 145	5 202	6 184	25 352
2006-07	34 532	770	1 524	4 747	2 090	4 701	7 730	26 600
2007-08	32 841	794	1 603	5 226	1 873	4 182	8 056	26 074
2008-09	30 571	764	1 193	4 921	1 894	2 790	7 991	23 360
2009-10	30 134	734	1 187	5 008	2 090	2 654	6 968	22 129
2010-11	33 507	749	1 960	5 531	1 916	3 942	6 641	25 101

^a August–July crop year.

Sources: US Department of Agriculture, Cotton: World Markets and Trade, Foreign Agriculture Service Circular, Washington DC; US Department of Agriculture, Production, Supply and Distribution Database, Washington DC.

54 Volume of world exports of raw cotton, by country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	1 357	1 395	1 490	1 242	1 017	773	874	869
Sub-Saharan Africa	1 286	1 250	1 393	1 159	880	749	796	775
Burkina	207	212	305	294	169	174	169	147
Mali	256	207	223	185	109	71	96	98
Americas	3 344	3 608	4 415	3 209	3 528	3 551	3 094	3 719
United States	2 995	3 143	3 848	2 821	2 968	2 887	2 621	3 130
South America	319	433	510	347	510	624	455	511
Brazil	210	339	429	283	486	596	433	435
Australia	459	410	650	487	266	260	395	505
Greece	267	255	294	272	283	174	191	163
Uzbekistan	675	860	1 045	980	914	653	827	577
Other	870	888	1 649	1 784	2 375	1 064	2 251	1 786
Total	7 228	7 623	9 766	8 159	8 492	6 546	7 728	7 717

^a August–July crop year. Includes small quantities re-exported.

Sources: US Department of Agriculture, Cotton: *World Markets and Trade*, Foreign Agriculture Service Circular, Washington DC; US Department of Agriculture, Production, Supply and Distribution Database, Washington DC.

55 Volume of world imports of raw cotton, by destination ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	4 661	4 556	7 015	5 509	6 243	4 709	5 629	5 645
Bangladesh	392	490	533	708	784	827	849	806
China	1 923	1 390	4 199	2 305	2 510	1 523	2 374	2 608
Chinese Taipei	220	291	247	253	210	171	221	175
Indonesia	468	479	479	479	566	501	479	457
Korea	280	297	229	246	232	237	242	248
Pakistan	393	382	352	502	851	417	343	316
Thailand	365	497	412	415	420	349	393	381
Turkey	516	743	762	877	711	636	957	729
Other Asia	620	730	565	603	671	683	728	655
European Union ^b	724	700	534	462	363	222	214	236
Mexico	405	394	380	295	333	286	303	260
Middle East	567	785	813	963	790	722	1 047	814
Russian Federation	321	316	299	288	234	196	184	111
Other	751	618	685	788	599	501	538	683
Total	7 428	7 368	9 727	8 306	8 562	6 636	7 915	7 751

^a August–July crop year. Does not include cotton in transit. ^b Regarded as 27 countries.

Sources: US Department of Agriculture, Cotton: *World Markets and Trade*, Foreign Agriculture Service Circular, Washington DC; US Department of Agriculture, Production, Supply and Distribution Database, Washington DC.

56 Summary of Australian statistics for dairy products

	Dairy cow numbers ^a '000	Milk yield per cow L	Production			Export price ^c	
			Milk ^b	Butter	Cheese	Butter	Cheese
			ML	kt	kt	\$/t	\$/t
1966-67	3 061	2 383	7 295	222	70	607	591
1967-68	2 963	2 298	6 808	196	71	584	519
1968-69	2 866	2 430	6 965	198	75	523	545
1969-70	2 829	2 659	7 523	223	76	512	480
1970-71	2 745	2 641	7 249	203	78	516	504
1971-72	2 693	2 629	7 079	196	81	793	673
1972-73	2 647	2 626	6 952	185	93	784	733
1973-74	2 492	2 711	6 756	175	96	695	761
1974-75	2 477	2 623	6 497	161	99	955	1 012
1975-76	2 467	2 533	6 248	148	113	836	1 117
1976-77	2 279	2 533	5 772	118	104	1 124	1 070
1977-78	2 056	2 734	5 621	112	116	1 280	1 259
1978-79	1 921	2 951	5 669	105	142	1 249	1 337
1979-80	1 869	2 905	5 430	84	151	1 595	1 545
1980-81	1 819	2 882	5 243	79	135	1 875	1 926
1981-82	1 810	2 910	5 268	76	153	2 714	2 158
1982-83	1 792	3 083	5 524	88	158	2 412	2 444
1983-84	1 809	3 274	5 923	111	161	1 871	2 611
1984-85	1 809	3 338	6 038	114	160	1 617	2 433
1985-86	1 770	3 411	6 038	105	170	1 592	2 515
1986-87	1 757	3 513	6 172	104	177	1 758	2 645
1987-88	1 714	3 575	6 129	98	176	1 634	2 735
1988-89	1 709	3 679	6 289	101	191	1 970	2 993
1989-90	1 698	3 688	6 262	104	175	2 420	3 462
1990-91	1 682	3 807	6 403	106	179	1 968	3 204
1991-92	1 699	3 963	6 732	114	198	2 177	3 318
1992-93	1 716	4 268	7 325	133	211	2 241	3 695
1993-94	1 786	4 523	8 079	149	233	2 197	3 753
1994-95	1 821	4 506	8 206	141	237	2 076	3 452
1995-96	1 884	4 627	8 718	154	268	2 993	3 882
1996-97	1 977	4 571	9 036	158	285	2 001	3 705
1997-98	2 060	4 582	9 439	163	310	2 264	3 956
1998-99	2 155	4 723	10 178	189	328	2 510	3 969
1999-00	2 171	4 996	10 847	182	373	2 124	3 671
2000-01	2 176	4 847	10 547	172	376	2 419	4 343
2001-02	2 123	5 309	11 271	178	412	2 417	4 738
2002-03	2 050	5 038	10 328	164	379	2 014	3 846
2003-04	2 038	4 944	10 076	149	384	2 187	3 486
2004-05	1 942	5 215	10 127	147	388	2 713	3 851
2005-06	1 880	5 367	10 089	146	373	2 723	4 146
2006-07	1 796	5 336	9 583	133	364	2 212	3 877
2007-08	1 640	5 624	9 223	128	361	3 391	4 764
2008-09	1 676	5 602	9 388	148	325	3 297	5 439
2009-10	1 596	5 653	9 023	128	349	2 865	4 250
2010-11	1 604	5 675	9 102	122	338	4 496	4 486

^a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of \$5000 or more. From 1999-2000, at 30 June. House cows and heifers are included before 1977-78, but excluded thereafter. Before 1986-87, includes livestock holdings on establishments with an EVAO of \$2500 or more. ^b Before 1980-81, milk production included an estimate of on-farm use. ^c Fob.
Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Preliminary*, cat. no. 7111.0, Canberra; Australian Dairy Corporation, Web statistics, Melbourne; ABARES.

57 Value of Australian exports of dairy products, by destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Cheese								
China	\$m	10.4	9.7	12.4	18.5	14.2	22.8	30.2
Japan	\$m	378.9	298.5	337.9	426.7	398.9	357.6	355.8
Korea, Rep. of	\$m	38.7	36.2	32.0	32.6	39.6	28.0	36.8
Philippines	\$m	18.4	13.7	13.1	23.4	17.1	16.2	16.9
Saudi Arabia	\$m	81.5	103.5	86.7	89.7	30.6	29.8	31.7
United Kingdom	\$m	20.5	20.1	14.8	21.2	8.9	4.4	0.4
United States	\$m	45.4	54.2	52.7	37.2	59.7	19.7	12.3
Other	\$m	282.9	301.3	274.6	319.2	227.1	236.8	248.2
Total	\$m	876.7	837.2	824.2	968.4	796.1	715.3	732.2
Butter and butterfat ^a								
Egypt	\$m	10.5	12.5	13.9	5.0	22.0	17.5	6.3
Malaysia	\$m	11.6	15.8	11.0	17.4	14.0	17.6	18.5
Philippines	\$m	2.8	5.4	3.2	2.4	8.6	7.3	27.4
Singapore	\$m	16.8	21.1	14.4	26.2	20.2	21.3	27.9
Thailand	\$m	13.5	12.0	9.8	13.9	10.1	9.2	14.5
Other	\$m	133.2	157.9	126.2	129.6	157.3	138.2	156.9
Total	\$m	188.5	224.7	178.6	194.6	232.1	211.1	251.6
Skim milk powder								
China	\$m	21.0	14.0	22.6	33.6	39.2	21.6	37.1
Japan	\$m	10.6	12.5	11.1	9.8	21.9	3.0	1.6
Malaysia	\$m	64.2	77.1	72.2	63.4	49.0	21.7	26.8
Philippines	\$m	49.4	72.0	46.1	64.1	99.7	49.5	31.2
Singapore	\$m	57.8	56.1	67.1	61.8	54.0	48.8	51.6
Thailand	\$m	21.7	76.8	51.1	48.6	33.3	27.5	37.9
Other	\$m	195.4	220.3	234.7	252.0	255.5	186.4	318.3
Total	\$m	420.1	528.9	505.0	533.2	552.9	358.5	504.5
Casein								
Japan	\$m	23.1	30.4	31.8	38.4	43.6	26.4	22.0
United States	\$m	56.6	27.3	32.4	42.2	29.5	22.8	13.1
Other	\$m	36.5	31.3	49.3	44.2	34.4	38.6	17.5
Total	\$m	116.2	89.0	113.5	124.8	107.5	87.8	52.7
Whole milk powder								
China	\$m	3.5	6.9	2.4	21.1	48.0	37.9	51.6
Chinese Taipei	\$m	31.5	22.8	13.5	11.8	9.3	7.2	13.6
Indonesia	\$m	25.1	34.4	27.6	31.6	45.9	28.5	39.7
Malaysia	\$m	33.1	23.8	14.5	27.3	14.9	6.2	3.9
Singapore	\$m	30.9	44.6	41.4	88.9	77.0	53.6	58.4
Thailand	\$m	8.6	10.5	12.3	14.7	14.6	8.2	14.0
Other	\$m	191.8	190.6	163.1	196.7	265.7	154.7	221.4
Total	\$m	324.4	333.6	274.9	392.2	475.3	296.3	402.5
Other products								
Fresh milk	\$m	108.8	107.3	96.3	83.6	102.1	91.3	96.4
Other fresh products	\$m	9.1	6.3	11.8	12.0	0.4	1.2	1.3
Condensed milk	\$m	139.8	147.5	156.9	152.4	158.9	123.6	108.2
Other powders	\$m	248.3	241.5	211.0	247.4	249.7	149.1	125.0
Total	\$m	506.0	502.6	476.0	495.4	511.1	365.3	331.0

^a Includes ghee, dry butterfat, butter concentrate and butter oil, all expressed as butter.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

58 Volume of Australian exports of dairy products, by destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Cheese								
China	kt	2.5	2.4	3.3	4.1	3.0	5.7	5.5
Japan	kt	106.5	81.0	96.2	96.9	74.4	89.8	84.5
Korea, Rep. of	kt	10.4	8.9	8.3	6.9	7.0	7.2	8.8
Philippines	kt	5.1	3.4	3.3	4.7	3.2	4.1	3.8
Saudi Arabia	kt	17.0	20.7	18.1	16.3	5.4	6.7	6.9
United Kingdom	kt	5.1	5.1	4.4	4.1	1.8	1.3	0.1
United States	kt	11.9	11.7	13.7	8.7	10.6	4.1	2.3
Other	kt	69.1	68.7	65.2	61.6	41.0	49.4	51.3
Total	kt	227.7	201.9	212.6	203.3	146.4	168.3	163.2
Butter and butterfat ^a								
Egypt	kt	4.4	4.8	7.4	1.6	8.5	5.5	1.5
Malaysia	kt	3.4	4.8	4.4	4.9	3.7	5.3	3.8
Philippines	kt	1.1	2.1	1.6	0.8	2.4	3.1	6.4
Singapore	kt	7.1	8.1	6.9	7.1	5.1	6.0	5.7
Thailand	kt	5.5	4.6	5.1	4.4	2.9	3.6	3.3
Other	kt	48.0	58.1	55.3	38.6	47.7	50.1	35.3
Total	kt	69.5	82.5	80.7	57.4	70.4	73.7	56.0
Skim milk powder								
China	kt	7.9	5.3	7.2	7.8	11.3	6.8	11.7
Japan	kt	3.9	4.1	2.0	1.5	7.0	1.1	0.5
Malaysia	kt	22.0	25.7	24.3	14.2	14.9	8.3	8.3
Philippines	kt	17.7	26.0	15.9	13.3	25.4	18.9	9.8
Singapore	kt	20.8	21.1	23.0	15.9	17.1	17.2	15.7
Thailand	kt	8.3	26.8	17.9	11.6	9.5	9.9	11.5
Other	kt	60.3	72.3	74.1	58.7	77.0	64.0	98.3
Total	kt	140.8	181.2	164.5	123.0	162.3	126.2	155.7
Casein								
Japan	kt	2.1	2.5	2.5	2.5	2.3	2.4	1.7
United States	kt	6.5	2.6	3.4	3.0	2.4	2.8	1.4
Other	kt	4.2	3.2	5.7	3.5	2.9	4.5	1.6
Total	kt	12.8	8.3	11.7	9.0	7.6	9.6	4.7
Whole milk powder								
China	kt	1.3	2.4	0.9	4.2	12.6	10.7	13.7
Chinese Taipei	kt	9.2	7.4	4.6	2.6	2.4	2.3	3.7
Indonesia	kt	7.9	10.9	9.3	7.3	11.5	8.4	10.2
Malaysia	kt	11.0	7.9	4.6	5.7	3.2	1.7	1.1
Singapore	kt	10.6	15.1	13.7	17.0	17.0	16.8	15.5
Thailand	kt	2.9	3.6	4.3	3.4	3.4	2.7	3.8
Other	kt	61.8	63.2	57.1	41.4	66.2	48.5	60.3
Total	kt	104.8	110.3	94.4	81.6	116.3	91.2	108.4
Other products								
Fresh milk	ML	86.7	86.1	81.8	68.3	69.2	71.9	77.2
Other fresh products	ML	2.5	1.8	2.1	1.6	0.2	0.5	0.3
Condensed milk	kt	102.6	94.8	83.0	70.3	81.4	67.0	47.2
Other powders	kt	68.9	68.6	61.7	51.3	51.4	36.9	27.8

^a Includes ghee, dry butterfat, butter concentrate and butter oil, all expressed as butter.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

59 Australian dairy cow numbers, by state ^a

	New South Wales '000	Victoria '000	Queensland '000	Western Australia '000	South Australia '000	Tasmania '000	Australia ^b '000
1966	675	1 192	627	109	155	148	3 094
1967	668	1 211	599	103	149	149	3 061
1968	645	1 200	556	100	139	152	2 963
1969	604	1 209	497	97	139	153	2 866
1970	568	1 245	460	101	138	155	2 829
1971	527	1 244	441	96	138	153	2 745
1972	491	1 257	420	97	145	155	2 693
1973	465	1 274	390	98	141	155	2 647
1974	418	1 244	341	95	132	140	2 492
1975	387	1 269	329	91	135	144	2 477
1976	384	1 258	330	93	135	143	2 467
1977	373	1 167	312	84	120	128	2 279
1978	341	1 125	287	74	112	118	2 056
1979	320	1 047	265	72	105	110	1 921
1980	308	1 037	247	72	102	103	1 869
1981	289	1 024	236	71	100	99	1 819
1982	283	1 024	235	70	99	100	1 810
1983	293	998	234	69	98	98	1 792
1984	285	1 021	234	69	101	99	1 809
1985	274	1 036	229	69	102	98	1 809
1986	264	1 016	224	68	102	96	1 770
1987	270	997	223	67	102	96	1 757
1988	260	977	218	65	100	94	1 714
1989	258	990	210	64	94	92	1 709
1990	245	995	208	65	90	93	1 698
1991	230	1 000	199	66	89	97	1 682
1992	222	1 026	188	68	90	103	1 699
1993	222	1 033	189	70	93	107	1 716
1994	232	1 085	189	74	94	113	1 786
1995	230	1 113	189	73	97	119	1 821
1996	235	1 161	189	71	97	130	1 884
1997	245	1 229	194	71	101	137	1 977
1998	266	1 268	203	73	107	143	2 060
1999	282	1 340	196	65	117	154	2 155
2000	289	1 377	194	65	105	139	2 171
2001	270	1 360	187	72	132	155	2 176
2002	264	1 363	174	75	110	134	2 123
2003	250	1 303	159	77	117	142	2 050
2004	236	1 322	169	74	106	127	2 038
2005	240	1 319	139	62	93	132	1 942
2006	222	1 217	127	67	104	143	1 880
2007	210	1 150	121	60	114	140	1 796
2008	195	1 055	100	54	103	134	1 640
2009	201	1 061	107	52	106	149	1 676
2010	203	1 028	88	65	87	124	1 596
2011	194	1 019	99	63	91	138	1 604

^a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of \$5000 or more. From 2000, at 30 June. House cows and heifers are included before 1977-78, but excluded thereafter. Before 1986-87, includes livestock holdings on establishments with an EVAO of \$2500 or more. ^b Includes data for the Australian Capital Territory and the Northern Territory.
 Sources: ABS, *Principal Agricultural Commodities Australia*, cat. no. 7111.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra.

60 Australian production of wholemilk, by state ^a

	New South Wales ML	Victoria ML	Queensland ML	Western Australia ML	South Australia ML	Tasmania ML	Australia ^b ML
1965-66	1 367	3 414	1 005	281	447	400	6 919
1966-67	1 468	3 622	1 083	253	449	416	7 295
1967-68	1 410	3 338	987	252	404	413	6 808
1968-69	1 268	3 715	781	265	467	464	6 965
1969-70	1 413	4 028	870	254	483	469	7 523
1970-71	1 237	4 062	770	256	470	450	7 249
1971-72	1 171	3 973	768	255	458	451	7 079
1972-73	1 177	3 945	737	242	424	424	6 952
1973-74	1 069	3 917	665	241	439	422	6 756
1974-75	958	3 745	658	246	426	461	6 497
1975-76	985	3 518	691	240	398	434	6 248
1976-77	944	3 203	613	209	353	421	5 772
1977-78	875	3 013	537	212	316	381	5 621
1978-79	906	3 283	570	213	332	365	5 669
1979-80	907	3 151	506	222	329	315	5 430
1980-81	840	3 065	516	214	319	289	5 243
1981-82	874	3 028	557	209	306	294	5 268
1982-83	905	3 164	572	221	340	322	5 524
1983-84	940	3 400	629	232	382	340	5 923
1984-85	940	3 516	621	243	372	346	6 038
1985-86	904	3 575	600	243	365	351	6 038
1986-87	902	3 692	604	248	374	352	6 172
1987-88	931	3 649	614	251	378	306	6 129
1988-89	919	3 793	627	245	371	334	6 289
1989-90	879	3 787	629	267	356	343	6 262
1990-91	858	3 908	626	282	366	363	6 403
1991-92	894	4 119	635	302	411	372	6 732
1992-93	997	4 456	702	321	436	413	7 325
1993-94	1 099	4 968	764	345	456	447	8 079
1994-95	1 087	5 114	740	343	485	437	8 206
1995-96	1 118	5 482	751	341	512	514	8 718
1996-97	1 192	5 634	797	349	535	529	9 036
1997-98	1 242	5 866	822	387	580	543	9 439
1998-99	1 286	6 414	827	403	646	603	10 178
1999-00	1 395	6 870	848	412	713	609	10 847
2000-01	1 326	6 784	760	389	699	590	10 547
2001-02	1 343	7 405	744	392	715	671	11 271
2002-03	1 301	6 584	720	404	733	585	10 328
2003-04	1 271	6 434	674	404	703	590	10 076
2004-05	1 218	6 613	619	398	679	600	10 127
2005-06	1 197	6 651	597	377	646	622	10 089
2006-07	1 105	6 297	534	349	655	642	9 583
2007-08	1 049	6 102	485	319	606	661	9 223
2008-09	1 065	6 135	512	340	628	708	9 388
2009-10	1 074	5 790	529	350	605	674	9 023
2010-11	1 044	5 914	487	362	572	722	9 102

^a Before 1977-78, milk production includes an estimate of on-farm use. ^b Includes data for the Australian Capital Territory and estimates for the Northern Territory.

Source: Australian Dairy Corporation, Melbourne.

61 Australian manufacture of dairy products

	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 kt	2008-09 kt	2009-10 kt	2010-11 kt
Butter a	148.9	146.7	145.8	133.1	127.6	148.5	128.4	122.5
Cheese	383.8	388.4	372.8	363.6	360.9	324.6	349.4	338.4
Non-cheddar	176.0	192.6	181.1	184.5	189.7	147.1	186.4	183.7
Cheddar	207.8	195.9	191.7	179.1	171.3	177.5	162.9	154.7
Whole milk powder	186.9	189.2	158.2	135.4	142.0	147.5	126.0	151.3
Skim milk powder b	182.1	189.1	205.5	191.5	164.3	212.0	190.2	222.5
Casein	14.0	13.0	12.2	7.7	10.3	9.8	7.8	4.9
Buttermilk powder	16.6	16.7	15.9	13.5	12.6	15.4	13.0	12.0

a Includes the butter equivalent of butter oil, butter concentrate, ghee and dry butterfat production. **b** Includes mixed skim milk powder and buttermilk powder.

Sources: Australian Dairy Corporation, Web statistics, Melbourne; ABARES.

62 Australian consumption of dairy products

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
Total consumption								
Butter	kt	73.0	82.2	79.6	79.6	87.2	84.3	84.1
Cheese a	kt	229.1	228.6	240.5	250.3	265.5	280.2	285.5
Australian	kt	182.3	180.7	182.7	188.4	198.0	223.8	217.1
Whole milk powder	kt	22.4	35.0	na	na	na	na	na
Skim milk powder b	kt	29.7	27.3	na	na	na	na	na
Yoghurt	kt	122.3	133.0	144.7	148.0	146.7	145.1	157.3
Market milk	ML	1 981	2 024	2 061	2 156	2 188	2 229	2 259
Consumption per person								
Butter	kg	3.6	4.1	3.9	3.8	4.1	4.0	3.8
Cheese a	kg	11.5	11.3	11.7	12.0	12.5	12.9	12.9
Australian	kg	9.1	8.9	8.9	9.0	9.3	10.3	9.8
Whole milk powder	kg	1.1	1.7	na	na	na	na	na
Skim milk powder b	kg	1.5	1.3	na	na	na	na	na
Yoghurt	kg	6.1	6.6	7.0	7.1	6.9	6.7	7.1
Market milk	L	99.0	100.2	100.2	103.4	103.0	102.6	102.1

a In natural equivalent weight. **b** Includes buttermilk powder and mixed skim milk powder. **na** Not available.

Sources: Australian Dairy Corporation, Web statistics, Melbourne; Australian Dairy Corporation; ABARES.

63 Australian milk prices and gross value of production

	Producer price ^{a,c}			Gross value of production		
	Manufacturing	Market	Weighted	Manufacturing	Market	Total
	milk c/L	milk c/L	average c/L	milk \$m	milk \$m	\$m
1964-65	na	na	5.6	239	145	384
1965-66	4.3	9.3	5.5	232	150	381
1966-67	4.4	9.3	5.5	251	149	400
1967-68	4.2	9.4	5.4	215	154	370
1968-69	4.3	9.3	5.5	228	155	383
1969-70	4.3	9.6	5.5	253	161	414
1970-71	4.6	10.0	5.9	255	170	426
1971-72	5.2	10.6	6.5	285	173	458
1972-73	5.3	11.0	6.7	280	184	464
1973-74	5.3	11.8	7.0	271	196	468
1974-75	6.0	14.2	8.0	301	218	519
1975-76	5.5	16.1	8.1	252	238	490
1976-77	5.7	18.7	9.2	246	275	521
1977-78	7.3	17.2	9.9	259	295	553
1978-79	8.5	18.5	11.0	296	332	628
1979-80	9.7	20.0	12.5	309	367	676
1980-81	13.0	23.1	16.0	483	402	885
1981-82	15.4	26.2	18.6	561	473	1 034
1982-83	16.7	28.7	20.1	665	522	1 187
1983-84	15.7	29.8	19.4	656	497	1 153
1984-85	13.5	31.2	18.2	510	526	1 035
1985-86	14.7	32.8	19.6	580	527	1 107
1986-87	17.5	34.5	22.1	687	570	1 257
1987-88	19.3	36.2	23.9	805	586	1 391
1988-89	22.7	37.9	26.8	981	654	1 635
1989-90	18.3	39.7	28.6	1 059	691	1 749
1990-91	18.9 ^b	40.9	23.5	1 099	726	1 825
1991-92	19.7	43.2	24.5	1 188	772	1 960
1992-93	24.4	43.5	29.0	1 522	793	2 314
1993-94	23.0	46.2	28.2	1 620	829	2 448
1994-95	22.2	47.8	27.9	1 511	908	2 419
1995-96	26.0	49.9	31.1	1 898	951	2 848
1996-97	24.0	51.1	29.6	1 830	979	2 809
1997-98	23.9	52.0	29.4	1 839	979	2 817
1998-99	22.5	51.5	28.5	1 905	995	2 900
1999-00	22.0	52.3	26.2	1 961	1 011	2 972
2000-01	na	na	29.0	na	na	3 053
2001-02	na	na	33.0	na	na	3 717
2002-03	na	na	27.1	na	na	2 795
2003-04	na	na	27.9	na	na	2 809
2004-05	na	na	31.5	na	na	3 194
2005-06	na	na	33.1	na	na	3 341
2006-07	na	na	33.2	na	na	3 178
2007-08	na	na	49.6	na	na	4 572
2008-09	na	na	42.5	na	na	3 988
2009-10	na	na	37.3	na	na	3 371
2010-11	na	na	43.2	na	na	3 932

^a A slight series break occurs in 1977-78 as a result of a change in the method of valuation. ^b From 1990-91, manufacturing milk price is reported net of market support. ^c Since deregulation of farm gate milk prices from July 2000, manufacturing and market milk prices are no longer reported separately.

na Not available.

Sources: ABS, *Value of Principal Agricultural Commodities Produced*, cat. no. 7501.0, Canberra; ABARES.

64 Average retail prices of selected dairy products, by quarter

	Milk ^a		Cheese ^b		Butter ^c	
	Sydney c/L	Melbourne c/L	Sydney c/kg	Melbourne c/kg	Sydney c/kg	Melbourne c/kg
2003						
March	155	156	770	782	484	476
June	157	156	742	726	464	468
September	155	157	708	698	500	484
December	156	157	724	746	492	480
2004						
March	156	158	818	798	520	504
June	157	159	796	792	504	504
September	128	134	850	788	532	528
December	137	149	822	810	536	548
2005						
March	141	152	816	820	568	604
June	143	155	806	856	588	624
September	144	156	854	852	604	652
December	148	157	852	832	608	676
2006						
March	148	158	854	874	624	672
June	149	160	866	858	640	688
September	156	160	874	908	632	696
December	161	162	866	892	656	716
2007						
March	163	162	982	970	672	716
June	165	163	970	956	700	728
September	172	167	844	944	684	628
December	184	176	928	1 022	724	658
2008						
March	186	180	978	1 020	780	680
June	183	180	990	1 026	784	740
September	179	184	1 042	1 092	772	738
December	181	185	998	1 140	790	726
2009						
March	176	184	1 020	1 184	800	756
June	171	181	1 048	1 152	814	740
September	172	179	1 040	1 090	790	740
December	174	179	1 086	1 168	804	714
2010						
March	181	180	1 094	1 108	798	734
June	186	183	1 074	1 146	816	736
September	185	182	1 044	1 116	820	728
December	187	181	1 024	1 000	850	750
2011						
March	156	156	1 000	1 152	872	760
June	153	143	1 054	1 176	872	742

^a 1 litre carton to June 2004, from September 2004 based on 2 litre carton, supermarket. ^b Based on a processed, sliced, wrapped, 500 gram pack.

^c Based on a 500 gram pack.

Source: ABS, *Average Retail Prices of Selected Items*, cat. no. 6403.0, Canberra.

65 Average export unit values of Australian dairy products ^a

	Butter ^b	Cheese	Skim milk powder	Whole milk powder	Casein
	\$/t	\$/t	\$/t	\$/t	\$/t
1965-66	669	534	na	na	518
1966-67	607	591	281	586	420
1967-68	584	519	241	619	488
1968-69	523	545	153	544	409
1969-70	512	480	157	497	399
1970-71	516	504	185	500	431
1971-72	793	673	332	631	557
1972-73	784	733	390	738	727
1973-74	695	761	417	767	741
1974-75	955	1 012	649	1 007	1 033
1975-76	836	1 117	465	1 042	1 013
1976-77	1 124	1 070	323	867	832
1977-78	1 280	1 259	389	1 038	1 022
1978-79	1 249	1 337	541	1 104	1 366
1979-80	1 595	1 545	577	1 100	1 843
1980-81	1 875	1 926	1 000	1 614	2 476
1981-82	2 714	2 158	897	1 907	2 391
1982-83	2 412	2 444	919	2 057	2 941
1983-84	1 871	2 611	885	2 071	2 500
1984-85	1 617	2 433	849	1 900	2 286
1985-86	1 592	2 515	987	1 938	2 800
1986-87	1 758	2 645	1 127	2 048	3 286
1987-88	1 634	2 735	1 382	2 243	3 875
1988-89	1 970	2 993	2 245	2 650	6 345
1989-90	2 420	3 462	2 341	2 852	5 704
1990-91	1 968	3 204	1 784	2 192	4 179
1991-92	2 177	3 318	1 953	2 432	4 820
1992-93	2 241	3 695	2 554	2 918	6 881
1993-94	2 197	3 753	2 233	2 603	13 941
1994-95	2 076	3 452	2 293	2 471	6 876
1995-96	2 993	3 882	2 845	3 141	8 564
1996-97	2 001	3 705	2 462	2 778	6 027
1997-98	2 264	3 956	2 494	2 882	4 997
1998-99	2 510	3 969	2 254	2 883	5 274
1999-00	2 124	3 671	2 191	2 629	6 022
2000-01	2 419	4 343	3 426	3 464	9 040
2001-02	2 417	4 738	3 320	3 454	9 356
2002-03	2 014	3 846	2 246	2 681	6 258
2003-04	2 187	3 486	2 489	2 748	6 735
2004-05	2 713	3 851	2 984	3 094	9 059
2005-06	2 723	4 146	2 918	3 024	10 739
2006-07	2 212	3 877	3 070	2 912	9 712
2007-08	3 391	4 764	4 334	4 808	13 885
2008-09	3 297	5 439	3 407	4 086	14 076
2009-10	2 865	4 250	2 840	3 250	9 125
2010-11	4 496	4 486	3 241	3 713	11 117

^a Fob at port of origin. ^b Commercial butter equivalent. **na** Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

66 Volume of Australian imports of cheese, by variety

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Volume	kt	kt	kt	kt	kt	kt	kt
Processed							
Cheddar	13.35	14.25	13.29	13.59	13.41	18.58	18.84
Other	2.73	2.41	2.29	3.06	2.66	2.72	3.08
Natural							
Blue vein	1.09	1.09	1.39	1.15	0.89	1.17	1.20
Camembert	0.25	0.21	0.26	0.26	0.23	0.21	0.41
Cheddar	18.83	22.88	26.45	29.51	21.90	26.52	26.69
Colby	1.72	2.09	2.15	2.46	2.99	2.13	2.44
Edam	0.97	0.86	1.21	0.92	0.76	1.70	0.93
Fetta	2.83	3.30	2.78	3.03	3.04	2.92	2.70
Gouda	0.39	0.50	1.24	0.93	0.93	1.54	0.90
Kasseri	0.12	0.10	0.13	0.12	0.17	0.07	0.10
Mozzarella	0.72	2.64	1.80	1.20	0.56	0.45	0.68
Parmesan	0.93	1.38	1.46	1.90	1.46	1.39	1.35
Provolone	0.38	0.39	0.41	0.43	0.45	0.47	0.48
Other	6.18	8.40	9.55	11.50	9.63	12.10	13.36
Total	50.49	60.51	64.41	70.07	59.07	71.96	73.15
Unit value							
Processed							
Cheddar	4.16	4.30	4.15	4.71	4.78	3.89	4.32
Other	5.20	5.11	5.50	3.91	6.30	5.32	5.71
Natural							
Blue vein	11.46	11.78	11.34	12.68	15.69	14.34	13.93
Camembert	10.53	10.35	10.35	11.55	14.01	12.64	13.37
Cheddar	3.61	3.78	3.43	4.26	4.79	3.98	4.44
Colby	4.11	4.28	3.96	5.26	5.02	4.02	4.70
Edam	4.82	5.05	4.28	5.44	6.08	4.02	5.41
Fetta	5.42	5.01	6.00	6.52	7.72	6.45	6.51
Gouda	6.11	5.81	4.11	4.73	6.08	3.61	5.05
Kasseri	9.56	9.12	10.04	10.28	12.88	10.30	8.94
Mozzarella	3.35	3.86	3.50	4.18	3.99	3.62	4.57
Parmesan	10.85	8.69	7.76	8.24	10.59	10.27	11.86
Provolone	9.13	9.07	9.30	9.71	11.05	9.39	8.19
Other	7.77	6.81	7.01	7.74	9.22	7.25	7.18
Average	4.90	4.82	4.69	5.37	6.18	5.01	5.44

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

67 Summary of world statistics for dairy products

	Production			Consumption		Exports ^a	
	Milk Mt	Butter kt	Cheese kt	Butter kt	Cheese kt	Butter kt	Cheese kt
1968	333	5 388	5 065	5 103	4 999	744	724
1969	335	5 161	5 233	5 016	5 238	727	718
1970	336	5 162	5 686	5 100	5 679	948	775
1971	338	5 142	6 049	5 109	5 949	788	821
1972	346	5 480	6 480	5 138	6 296	675	836
1973	353	5 593	6 676	5 585	6 590	1 080	933
1974	360	5 564	6 987	5 469	6 732	958	995
1975	361	5 748	6 763	5 600	6 612	895	1 019
1976	366	6 027	7 298	5 674	6 978	994	1 161
1977	376	6 207	7 382	5 837	7 167	1 001	1 203
1978	381	6 230	7 692	5 743	7 487	1 027	1 233
1979	386	6 256	8 079	5 977	7 765	1 233	1 343
1980	390	6 291	8 342	5 982	7 972	1 355	1 358
1981	389	6 075	8 381	5 776	8 004	1 343	1 428
1982	405	6 375	8 811	5 721	8 426	1 312	1 484
1983	421	6 918	9 168	6 066	8 769	1 197	1 504
1984	424	6 857	9 581	6 219	9 313	1 337	1 703
1985	430	6 929	9 962	6 443	9 645	1 400	1 721
1986	438	7 217	10 295	6 568	10 064	1 310	1 734
1987	435	6 737	10 599	6 963	10 374	1 820	1 770
1988	436	6 604	10 717	7 070	10 385	2 090	1 786
1989	438	6 747	10 975	6 404	10 692	1 769	1 785
1990	441	6 797	11 025	6 382	10 744	1 368	1 838
1991	428	6 306	11 068	5 893	10 677	1 410	1 926
1992	424	6 056	11 218	5 875	10 823	1 442	2 036
1993	394	5 657	11 093	5 286	10 729	1 422	2 242
1994	384	5 348	11 240	5 188	10 950	1 320	2 338
1995	381	5 218	11 346	4 966	11 037	1 233	2 467
1996	380	5 136	11 705	4 844	11 325	1 131	2 582
1997	370	5 171	11 100	4 931	11 061	749	943
1998	374	5 458	11 378	5 083	11 190	627	907
1999	380	5 653	12 123	4 988	11 845	618	912
2000	440	5 863	12 650	5 429	12 295	728	1 060
2001	446	6 197	12 754	5 797	12 518	759	1 114
2002	458	6 595	13 131	6 070	12 824	760	1 145
2003	466	6 577	13 119	6 159	12 901	883	1 201
2004	475	6 652	13 638	6 298	13 377	912	1 237
2005	485	6 828	14 112	6 401	13 853	818	1 244
2006	492	7 096	14 385	6 746	14 133	825	1 274
2007	505	7 565	14 721	7 281	14 458	785	1 305
2008	502	7 872	14 299	7 474	14 051	705	1 226
2009	505	8 040	14 397	7 527	14 116	827	1 236
2010	514	8 145	14 780	7 842	14 385	741	1 376

^a Includes intra-EU trade up to and including 1993.

Source: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

68 Milk production in selected regions and countries

	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Americas							
Canada	7 905	7 806	8 041	8 212	8 270	8 280	8 350
United States	77 488	80 255	82 455	84 211	86 174	85 881	87 461
Brazil	23 317	24 250	25 230	26 750	27 820	28 795	29 948
Asia							
China	23 684	28 648	33 025	36 334	35 450	29 625	30 328
India	88 000	91 500	96 200	102 100	106 000	112 000	117 000
Japan	8 329	8 285	8 137	8 007	7 982	7 910	7 721
Europe							
European Union a	139 024	139 648	136 281	136 874	137 848	137 720	139 370
Russian Federation	32 000	32 000	31 100	32 200	32 500	32 600	31 900
Ukraine	14 106	13 713	13 175	12 262	11 762	11 610	11 192
Oceania	25 261	25 080	25 126	25 217	25 427	25 259	26 285
Australia b	10 388	10 441	10 402	9 880	9 509	9 679	9 302
New Zealand c	14 873	14 639	14 724	15 337	15 918	15 580	16 983
Total d	474 907	485 405	491 886	505 011	502 472	504 583	514 022

a Regarded as 27 countries. **b** Year ended 30 June. **c** Year ended 31 May. **d** Includes major producing countries.

Source: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

69 Production of dairy products in selected regions and countries

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Butter								
Australia abc	164	149	147	146	133	128	148	128
Brazil	72	75	77	79	82	84	76	78
Europe								
Russian Federation	280	270	275	290	300	305	246	205
European Union d	2 153	2 164	2 155	2 035	2 053	2 040	2 030	1 980
Ukraine	148	138	118	105	100	85	75	76
Japan	80	80	84	80	75	72	81	74
New Zealand bcf	400	405	390	381	415	413	413	482
United States	564	565	611	657	695	746	713	709
Total	6 577	6 652	6 828	7 096	7 565	7 872	8 040	8 145
Cheese								
Australia a	379	384	388	373	364	361	325	349
Brazil	460	470	495	528	580	607	614	648
Europe								
Russian Federation	335	350	375	405	435	430	400	435
European Union d	6 205	6 481	6 625	6 801	6 760	6 800	6 810	6 970
Ukraine	169	224	274	210	244	249	228	220
Japan	35	35	39	40	43	47	45	48
New Zealand ef	320	301	295	307	292	331	288	308
United States	3 882	4 025	4 150	4 320	4 435	4 496	4 570	4 734
Total	13 119	13 638	14 112	14 385	14 721	14 299	14 397	14 780
Skim milk powder								
Australia a	197	182	189	205	191	164	212	190
Brazil	108	110	113	117	128	128	125	130
Europe								
Russian Federation	145	125	110	110	115	120	70	70
European Union d	1 334	1 074	1 074	955	1 005	980	1 080	980
Ukraine	71	78	78	80	90	65	51	51
Japan	183	183	187	180	173	158	167	156
New Zealand e	295	291	250	280	264	300	252	385
United States	721	648	695	686	679	859	786	824
Total	3 541	3 148	3 227	3 117	3 229	3 311	3 455	3 370

a Year ended 30 June. **b** Includes butter anhydrous milk fat and ghee. **c** Factory production only. **d** Regarded as 27 countries. **e** Year ended 31 May. **f** Includes imported unprocessed cheese that is blended with domestically produced cheese.

Sources: Australian Dairy Corporation, Web statistics, Melbourne; Agriculture and Livestock Industries Corporation, *Monthly Statistics*, Tokyo; Ministry of Agriculture and Fisheries, *Situation and Outlook for New Zealand Agriculture*, Wellington; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ABARES.

70 Volume of exports of dairy products, by selected countries

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Butter								
Australia ab	111	84	69	83	81	57	70	74
Brazil	0	1	1	1	3	4	2	4
Canada	12	17	20	18	13	1	3	10
India	5	2	7	5	10	15	28	4
European Union c								
Net exports	321	353	340	248	216	153	169	155
New Zealand bd	389	353	338	421	391	349	489	428
Russian Federation	5	5	5	5	5	5	4	2
Ukraine	18	42	24	18	4	6	1	1
United States	12	9	9	11	40	89	30	59
Cheese								
Argentina	23	31	45	58	45	36	48	45
Australia a	208	212	228	202	213	203	146	168
European Union c								
Net exports	539	524	499	561	534	490	510	603
New Zealand d	285	277	263	299	309	247	290	265
Ukraine	61	94	116	50	62	77	77	85
United States	52	61	58	71	100	131	108	173
Skim milk powder								
Australia a	182	156	141	181	164	123	162	126
Canada	36	16	6	13	14	11	10	10
European Union c								
Net exports	337	277	190	88	202	179	231	378
India	15	10	40	50	40	35	15	10
New Zealand de	287	250	221	316	281	242	408	344
Russian Federation	25	20	15	15	15	15	0	0
Ukraine	51	63	57	64	57	44	27	17
United States	141	231	277	287	258	391	248	384

a Year ended 30 June. **b** Includes butter, anhydrous milk fat and ghee. **c** Regarded as 27 countries. Excludes intra-EU trade. **d** Year ended 31 May

e Skim milk and buttermilk powder.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Ministry of Agriculture and Fisheries, *Situation and Outlook for New Zealand Agriculture*, Wellington; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

71 Volume of imports of dairy products, by selected countries

	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Canada	20	28	24	15	13	7	12	8
Egypt	93	93	81	84	93	66	63	41
European Union ^a	47	28	41	45	46	0	0	0
Japan	13	7	6	4	11	18	0	2
Mexico	40	53	51	49	72	49	53	49
Russian Federation	160	170	110	115	130	150	107	109
United States	15	25	20	18	17	17	17	10
Cheese								
European Union ^a	127	104	93	99	83	83	81	78
Japan	194	219	212	207	225	187	184	199
Korea, Rep. of	36	41	44	44	50	47	49	58
Mexico	78	82	89	86	86	68	73	80
Russian Federation	175	190	250	230	250	340	310	305
United States	180	178	172	170	161	137	131	109
Skim milk powder								
Algeria	68	75	72	68	91	90	93	98
China	51	61	55	62	40	55	70	91
European Union ^a	62	30	10	21	10	8	6	4
Indonesia	120	125	135	140	147	159	178	200
Japan	43	37	34	32	36	32	34	30
Mexico	129	141	155	111	121	152	165	155
Philippines	110	120	87	93	93	80	105	95

^a Regarded as 27 countries. Excludes intra-EU trade.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

72 Stocks of dairy products in principal producing countries

	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Australia	2	8	14	9	4	13	6	9
Canada	13	15	17	10	11	14	13	6
European Union ^a	276	232	185	122	46	53	103	2
New Zealand	41	52	71	40	38	80	56	50
United States	45	20	27	49	70	54	60	37
Total	432	372	359	263	201	250	281	136
Cheese								
Australia	55	51	25	21	18	15	19	23
Canada	59	59	62	62	68	59	47	42
New Zealand	49	42	63	32	32	55	55	40
United States	323	318	344	371	362	386	439	475
Total	571	530	555	545	544	583	617	636
Skim milk powder								
Australia	7	5	39	38	30	42	32	48
Canada	23	41	38	23	20	29	32	25
European Union ^a	218	77	8	0	0	0	259	195
New Zealand	50	46	101	45	60	70	50	50
United States	445	232	83	48	75	115	60	73
Total	905	569	415	268	279	347	556	534

^a Regarded as 27 countries.

Source: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

73 Major components of Australian farm costs

	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 188	1 236	1 360	1 230	1 450	1 671	1 580	1 520
Fertiliser	1 651	1 760	1 805	1 906	1 840	1 920	1 980	1 820
Chemicals	1 349	1 480	1 497	1 576	1 604	1 664	1 760	1 550
Seed and fodder	2 928	2 801	2 948	2 974	2 847	3 072	3 226	4 874
Marketing	2 519	2 923	2 726	2 901	3 144	3 198	3 395	2 433
Repairs and maintenance	1 920	2 003	2 011	2 154	2 150	2 262	2 328	2 392
Other	2 937	2 954	2 920	2 916	3 017	3 184	3 339	3 329
Total	14 492	15 157	15 266	15 657	16 052	16 971	17 608	17 918
Other costs								
Wages	2 738	2 983	2 976	3 133	3 250	3 360	3 367	3 226
Interest paid	2 182	2 180	1 976	1 917	2 023	2 249	2 087	2 295
Other overheads	356	360	360	364	372	389	400	412
Total	5 276	5 523	5 313	5 414	5 645	5 998	5 854	5 933
Total cash costs	19 769	20 680	20 579	21 071	21 697	22 969	23 463	23 851
Depreciation	3 144	3 230	3 306	3 439	3 526	3 687	3 796	3 915
Total farm costs	22 913	23 910	23 885	24 511	25 223	26 657	27 258	27 766
	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11 s
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 702	1 765	2 223	2 199	2 551	2 243	1 946	2 215
Fertiliser	1 827	1 851	1 843	1 659	3 034	3 381	2 118	2 221
Chemicals	1 649	1 691	1 749	1 545	1 901	1 792	1 473	1 459
Seed and fodder	4 317	4 267	3 827	4 955	6 177	5 263	4 526	4 176
Marketing	3 567	3 433	3 675	2 744	3 180	3 733	3 814	3 839
Repairs and maintenance	2 453	2 493	2 602	2 466	3 073	3 080	3 002	3 887
Other	3 378	3 473	3 692	3 543	3 659	3 829	3 967	4 287
Total	18 893	18 974	19 611	19 111	23 575	23 320	20 846	22 082
Other costs								
Wages	3 420	3 410	3 778	3 654	3 667	3 827	3 766	4 013
Interest paid	2 238	2 306	3 249	3 848	4 901	4 331	4 455	5 023
Other overheads	422	432	446	447	462	477	493	513
Total	6 080	6 148	7 473	7 950	9 030	8 634	8 713	9 549
Total cash costs	24 973	25 122	27 084	27 060	32 605	31 955	29 560	31 631
Depreciation	4 017	4 122	4 255	4 383	4 532	4 676	4 794	4 945
Total farm costs	28 991	29 243	31 339	31 443	37 137	36 631	34 354	36 576

s ABARES estimate.

Sources: ABS, Australian National Accounts, National Income and Expenditure, cat. no. 5204.0, Canberra; ABS, Australian National Accounts, National Income and Expenditure, Australia, cat. no. 5206.0, Canberra; ABARES.

74 Indexes of prices paid by farmers in Australia

	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	88.9	95.7	101.1	99.2	100.0	100.6	102.7	105.2	112.9
Fodder and feedstuffs	79.9	92.2	101.4	98.9	100.0	91.9	90.0	93.6	105.5
Store and breeding stock	95.0	96.7	96.1	89.4	100.0	100.9	105.0	126.0	145.3
Total	85.1	93.9	100.2	96.6	100.0	94.9	95.0	103.1	116.5
Fertiliser	87.1	89.6	98.2	99.2	100.0	102.7	99.8	106.4	104.3
Chemicals and medicines	97.2	97.9	98.1	99.0	100.0	100.4	101.6	103.3	105.6
Fuel and lubricants	100.5	96.6	100.4	104.9	100.0	104.1	148.6	144.1	128.3
Electricity	100.9	98.3	97.7	99.4	100.0	100.7	100.2	99.9	100.4
Maintenance									
Plant and equipment	89.9	92.5	95.3	97.6	100.0	102.3	106.1	112.0	115.2
Structures	91.0	92.5	94.6	95.4	100.0	102.8	104.6	109.3	112.5
Total	90.2	92.5	95.1	96.9	100.0	102.3	105.6	111.1	114.3
Contracts	95.6	97.3	98.4	99.6	100.0	104.3	107.9	114.4	117.7
Other materials and services	94.1	96.8	100.1	100.0	100.0	102.3	104.2	108.9	112.1
Total	90.2	94.2	98.7	98.6	100.0	99.9	104.2	109.3	113.1
Labour	91.0	92.3	95.1	97.0	100.0	103.7	107.1	110.1	113.3
Marketing									
Freight outwards	98.5	98.5	98.5	98.6	100.0	100.3	102.5	107.0	110.1
Selling expenses	89.3	91.7	95.6	95.5	100.0	102.8	105.2	109.3	112.5
Total	91.0	92.9	96.2	96.1	100.0	102.7	105.0	109.3	112.4
Overheads									
Interest paid	100.2	113.2	127.9	117.0	100.0	90.6	98.8	111.2	104.2
Rates and taxes	92.0	94.2	92.2	95.6	100.0	102.1	107.1	112.4	115.5
Insurance	71.3	74.3	90.8	98.1	100.0	102.8	105.1	109.8	118.6
Other overheads	95.7	96.8	99.2	100.5	100.0	103.1	104.1	108.7	111.9
Total	94.6	101.6	109.3	106.5	100.0	96.6	102.5	111.3	109.9
Capital items									
Plant and equipment	91.7	94.3	97.3	99.0	100.0	103.3	106.6	112.7	116.0
Structures	93.4	94.8	95.8	96.7	100.0	101.7	103.8	108.9	112.0
Total	91.9	94.4	97.1	98.7	100.0	103.0	106.1	111.9	115.2
Total prices paid	91.1	95.0	99.5	99.4	100.0	100.6	104.7	110.1	112.9
Excluding capital items	91.1	95.1	99.8	99.5	100.0	100.1	104.4	109.7	112.4
Excluding capital and overheads	90.4	93.6	97.7	98.0	100.0	100.9	104.8	109.4	113.0
Excluding seed, fodder and store and breeding stock	92.6	95.2	99.3	99.9	100.0	101.6	106.5	111.4	112.1

Continued

74 Indexes of prices paid by farmers in Australia *continued*

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	118.3	104.9	95.3	93.8	109.9	135.0	120.6	109.5	124.7
Fodder and feedstuffs	167.5	148.3	140.4	126.4	151.7	195.3	167.9	145.9	121.2
Store and breeding stock	125.8	144.0	159.7	165.9	157.8	153.7	165.1	168.4	202.4
Total	150.3	142.0	140.3	130.8	147.2	178.0	161.7	147.0	140.3
Fertiliser	106.9	102.8	108.8	111.6	121.4	220.4	239.6	156.0	157.3
Chemicals and medicines	108.0	110.0	111.9	114.6	124.7	149.7	136.7	116.2	110.4
Fuel and lubricants	127.0	144.3	167.2	210.6	208.3	243.7	211.0	191.7	211.3
Electricity	100.5	100.0	101.3	104.6	107.6	111.3	121.4	142.0	158.8
Maintenance									
Plant and equipment	118.4	121.4	124.6	128.6	132.5	137.0	141.3	144.9	149.5
Structures	115.7	119.1	122.7	126.4	130.1	134.6	138.9	142.4	146.9
Total	117.5	120.6	123.9	127.9	131.6	136.1	140.4	144.0	148.5
Contracts	120.9	123.8	126.8	130.8	134.6	139.2	143.5	146.8	151.4
Other materials and services	115.5	118.3	121.1	125.0	128.7	133.0	137.3	140.7	145.1
Total	126.0	125.3	128.7	130.9	140.3	170.8	164.2	146.5	147.1
Labour	117.9	121.6	125.7	129.7	133.5	138.0	142.6	147.3	151.8
Marketing									
Freight outwards	113.5	116.3	119.0	120.9	126.4	152.9	136.5	126.9	144.2
Selling expenses	116.0	118.8	121.6	125.5	129.2	133.6	137.7	140.9	145.3
Total	115.9	118.7	121.5	125.4	129.1	143.2	137.1	133.9	144.7
Overheads									
Interest paid	110.7	118.1	120.9	123.8	127.8	142.6	116.7	111.1	122.3
Rates and taxes	119.1	121.9	124.8	128.9	132.7	137.3	141.6	144.8	149.3
Insurance	124.5	128.8	131.9	135.1	139.4	143.5	155.6	167.0	180.4
Other overheads	115.4	118.1	121.0	124.8	128.5	132.8	137.1	140.5	144.8
Total	115.2	120.6	123.5	126.8	130.8	141.8	126.6	124.3	133.9
Capital items									
Plant and equipment	119.2	122.2	125.4	129.5	133.4	137.9	142.3	145.9	150.5
Structures	115.3	118.6	122.2	125.8	129.6	134.0	138.3	141.8	146.2
Total	118.3	121.3	124.4	128.4	132.3	136.8	141.1	144.7	149.3
Total prices paid	121.5	123.0	126.3	129.4	135.9	155.1	149.0	140.8	145.3
Excluding capital items	121.8	123.1	126.5	129.4	136.2	157.3	150.0	140.4	144.9
Excluding capital and overheads	123.3	123.7	127.2	129.9	137.6	161.7	156.9	145.0	147.8
Excluding seed, fodder and store and breeding stock	115.6	119.2	123.6	129.2	133.6	150.3	146.4	139.4	146.3

Note: The indexes for the different groups of farm cost items are calculated on a chained weight basis using Fisher's ideal index with a reference year of 1997-98 = 100.

Source: ABARES.

75 Indicative interest rates for the Australian farm sector

	Major trading banks		
	Australian broadacre farms ^a	Overdrafts for small businesses ^b	90 day bank bills
	%	%	%
1970-71	na	na	7.13
1971-72	na	na	5.97
1972-73	na	na	5.09
1973-74	na	na	11.33
1974-75	na	na	10.54
1975-76	na	10.45	8.55
1976-77	na	10.45	9.76
1977-78	9.20	10.45	10.25
1978-79	8.88	10.15	9.54
1979-80	9.24	10.11	11.02
1980-81	10.09	11.46	13.42
1981-82	11.48	13.68	16.83
1982-83	11.35	14.14	14.28
1983-84	12.02	13.78	11.87
1984-85	12.48	14.08	13.22
1985-86	15.45	17.29	16.76
1986-87	15.56	18.32	15.87
1987-88	13.86	15.11	11.90
1988-89	14.28	17.68	15.55
1989-90	16.67	20.34	16.94
1990-91	14.12	16.17	12.29
1991-92	12.02	12.83	8.15
1992-93	9.67	10.48	5.64
1993-94	9.29	9.59	4.87
1994-95	9.67	10.70	7.19
1995-96	10.43	11.43	7.51
1996-97	9.20	10.49	6.31
1997-98	8.30	8.84	4.99
1998-99	7.80	7.82	4.90
1999-00	8.00	8.23	5.60
2000-01	8.70	9.05	5.80
2001-02	7.91	7.91	4.58
2002-03	7.56	8.20	4.83
2003-04	8.01	8.51	5.28
2004-05	8.29	8.78	5.54
2005-06	na	8.99	5.68
2006-07	na	9.60	6.33
2007-08	na	10.59	7.31
2008-09	na	10.05	4.75
2009-10	na	9.48	4.05
2010-11	na	10.53	4.91

^a Estimated average rate paid by all broadacre farms on all farm business debt for the year ended 30 June. ^b Refers to the midpoint of a range of rates that apply to the lowest risk borrowers for a range of banks. In practice many borrowers pay an additional risk margin. **na** Not available.

Sources: Reserve Bank of Australia; ABARES.

76 Rural indebtedness to financial institutions

	Rural debt						Deposits
	All banks a	Other government agencies b	Pastoral and other finance companies	Large finance institutional debt	Other farm debt c	Total rural debt	Farm management deposits
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1980-81	3 161	801	325	4 287	na	na	na
1981-82	3 418	842	384	4 644	na	na	na
1982-83	3 980	1 049	385	5 414	na	na	na
1983-84	4 284	1 139	495	5 918	na	na	na
1984-85	5 254	1 230	601	7 085	na	na	na
1985-86	5 976	1 220	739	7 935	na	na	na
1986-87	5 705	1 515	1 345	8 566	na	na	na
1987-88	6 023	1 664	1 195	8 883	1 250	10 133	na
1988-89	7 430	1 803	1 503	10 735	1 350	12 085	na
1989-90	8 514	1 910	1 523	11 946	1 410	13 356	na
1990-91	8 666	1 877	1 205	11 748	1 436	13 184	na
1991-92	9 158	1 856	1 379	12 393	1 460	13 853	na
1992-93	10 049	1 879	1 041	12 969	1 580	14 549	na
1993-94	13 722	1 909	1 150	16 781	1 631	18 412	na
1994-95	14 485	1 872	1 368	17 725	1 690	19 415	na
1995-96	16 351	735	1 720	18 805	1 792	20 597	na
1996-97	17 466	698	2 065	20 228	1 760	21 988	na
1997-98	18 566	609	1 979	21 154	1 810	22 964	na
1998-99	20 085	661	1 093	21 840	1 852	23 692	229
1999-00	23 240	663	2 527	26 430	1 901	28 331	590
2000-01	25 174	701	2 639	28 514	1 920	30 434	1 033
2001-02	26 829	711	2 691	30 231	1 967	32 198	2 074
2002-03	28 957	867	1 628	31 452	2 017	33 469	2 480
2003-04	34 115	891	3 379	38 385	2 067	40 452	2 619
2004-05	39 261	977	3 112	43 350	na	na	2 792
2005-06	43 546	1 073	3 454	48 073	na	na	2 797
2006-07	47 188	1 286	4 592	53 066	na	na	2 782
2007-08	53 743	1 409	5 126	60 278	na	na	2 879
2008-09	57 384	1 620	4 462	63 467	na	na	2 843
2009-10	59 064	1 812	2 029	62 905	na	na	2 784
2010-11	60 362	1 871	2 010	64 243	na	na	3 216

a Derived from all banks lending to agriculture, fishing and forestry. **b** Includes the government agency business of state banks and advances made under War Service Land Settlement. Before 1996, includes loans from the Queensland Industry Development Corporation. From 1996, these loans are included in bank lending. **c** Includes loans from life insurance companies, lease agreements and indebtedness to hire purchase companies, trade creditors, private lenders and small financial institutions. **na** Not available.

Sources: Reserve Bank of Australia, *Estimated Rural Debt to Specified Lenders*, Bulletin Statistical Table D9; Department of Agriculture, Fisheries and Forestry; ABARES.

77 Australian tractor sales, by type

	By power segment, by volume ^a				By power segment, by value			
	Under 30 kW	30–90 kW	Over 90 kW	Total	Under 30 kW	30–90 kW	Over 90 kW	Total
	no.	no.	no.	no.	\$m	\$m	\$m	\$m
1992-93	1 290	3 633	965	5 888	21	198	117	336
1993-94	1 200	4 235	1 152	6 587	21	208	148	378
1994-95	1 050	4 806	1 335	7 191	19	249	177	444
1995-96	1 017	4 652	1 982	7 651	19	257	276	553
1996-97	1 131	4 666	2 736	8 533	21	276	402	699
1997-98	1 057	4 657	2 896	8 610	21	283	443	747
1998-99	1 119	4 993	2 361	8 473	25	337	420	782
1999-00	1 185	4 753	2 107	8 045	29	289	335	653
2000-01	1 151	3 997	1 431	6 579	28	273	263	565
2001-02	1 119	5 284	1 784	8 187	31	397	352	779
2002-03	1 326	5 634	2 025	8 985	30	379	388	797
2003-04	1 965	5 980	2 655	10 600	41	434	516	991
2004-05	2 357	6 979	3 068	12 404	48	499	612	1 159
2005-06	2 724	7 275	2 547	12 546	54	509	498	1 061
2006-07	2 635	6 109	1 542	10 286	54	393	294	741
2007-08	3 095	6 924	1 831	11 850	65	448	355	868
2008-09	3 546	7 318	2 288	13 152	76	475	467	1 018
2009-10	3 571	6 472	2 231	12 274	79	464	495	1 038
2010-11	3 635	5 322	1 933	10 890	77	368	449	894
2008								
March	808	1 541	510	2 859	17	100	106	223
June	756	1 982	641	3 379	16	127	122	266
September	749	1 721	402	2 872	16	109	73	198
December	873	1 557	452	2 882	18	98	84	201
2009								
March	888	1 533	558	2 979	18	98	117	233
June	1 036	2 507	876	4 419	23	171	194	387
September	784	1 454	487	2 725	18	103	105	226
December	1 153	1 969	570	3 692	26	137	120	283
2010								
March	754	1 445	499	2 698	16	107	117	240
June	880	1 604	675	3 159	19	117	152	288
September	752	1 181	414	2 347	16	82	90	188
December	1 128	1 368	375	2 871	24	95	86	205
2011								
March	868	1 153	459	2 480	19	78	110	207
June	887	1 620	685	3 192	19	113	162	294

^a Tractor power ratings refer to power takeoff, power in kilowatts.

Source: Agriview, Victoria, Australia.

78 Value of Australian trade in selected farm machinery

	Imports ^a				Exports			
	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1972-73	36 711	466	4 346	289	662	2 550	8 260	1 030
1973-74	41 606	1 008	9 495	572	411	3 016	9 453	1 111
1974-75	84 148	2 787	21 815	674	790	6 975	15 628	2 247
1975-76	116 290	3 215	21 164	665	2 440	5 889	12 080	626
1976-77	149 663	8 275	38 867	1 177	946	3 314	16 954	747
1977-78	110 697	8 338	46 932	1 744	1 165	4 775	8 888	2 293
1978-79	111 518	7 991	37 021	1 759	2 064	2 178	10 431	873
1979-80	169 008	10 472	62 964	2 316	3 742	2 578	12 268	1 481
1980-81	198 398	11 206	83 650	3 847	8 053	3 733	24 308	9 009
1981-82	260 771	14 252	89 061	3 362	6 638	6 224	12 897	4 002
1982-83	149 386	8 558	52 568	2 529	7 852	2 157	11 357	2 036
1983-84	174 936	10 585	109 281	3 516	4 804	1 935	4 764	2 236
1984-85	241 827	16 372	119 629	4 074	2 201	1 215	6 635	2 578
1985-86	198 476	9 822	68 493	3 555	7 352	1 268	13 745	5 945
1986-87	58 178	4 333	22 588	1 969	5 255	767	8 660	1 333
1987-88	124 132	7 528	39 628	4 189	2 892	1 214	18 183	609
1988-89	7 843	13 269	76 583	5 567	1 151	1 614	8 573	417
1989-90	7 697	22 090	96 195	5 913	1 576	1 133	12 311	889
1990-91	46 739	11 881	64 362	4 045	2 329	2 536	7 313	335
1991-92	91 061	8 631	43 394	4 002	3 320	3 726	11 599	1 013
1992-93	178 920	13 291	72 578	5 011	3 472	2 232	18 095	1 198
1993-94	245 154	15 220	118 227	6 835	2 666	2 952	32 368	856
1994-95	312 964	17 534	142 110	10 342	3 151	1 764	33 324	1 547
1995-96	366 038	25 448	170 307	14 505	2 419	2 933	43 725	1 529
1996-97	454 201	29 511	253 428	22 501	3 404	2 787	33 585	1 961
1997-98	512 157	30 278	243 655	30 525	2 975	1 446	34 408	1 412
1998-99	515 845	30 345	241 217	24 967	2 165	2 520	31 776	1 104
1999-00	416 136	30 127	229 839	24 214	2 348	2 820	30 533	673
2000-01	376 921	20 521	228 927	19 085	4 054	5 230	23 965	1 388
2001-02	477 563	25 789	161 079	29 197	5 720	3 386	45 404	1 214
2002-03	504 775	24 851	225 770	31 722	4 001	1 048	27 105	2 498
2003-04	596 319	31 176	249 504	33 546	2 983	1 302	21 703	1 426
2004-05	664 085	31 042	278 636	39 942	16 212	1 114	6 236	1 458
2005-06	567 629	26 697	236 230	28 691	13 117	1 814	4 495	610
2006-07	420 186	29 316	191 301	21 320	11 842	2 737	3 637	1 634
2007-08	466 924	30 258	164 554	33 465	17 619	5 269	4 126	797
2008-09	682 536	44 957	330 216	67 377	14 069	8 334	5 537	2 277
2009-10	663 418	42 580	367 261	60 220	10 317	10 170	2 738	2 488
2009-11	383 309	31 716	244 736	26 480	13 888	8 026	4 408	1 378

^a Fob at the port of origin.Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

79 Australian fertiliser prices, by type ^a

	Single superphosphate ^b	Diammonium phosphate ^b	Ammonium sulphate ^c	Potassium chloride ^c	Urea ^c	Index of prices paid for fertiliser ^d
	\$/t	\$/t	\$/t	\$/t	\$/t	
1970-71	16	na	40	69	79	11.6
1971-72	17	na	40	69	81	11.6
1972-73	17	na	41	69	81	11.6
1973-74	19	113	61	84	87	13.7
1974-75	55	na	103	103	121	30.8
1975-76	56	215	105	129	141	27.3
1976-77	53	135	92	109	154	28.0
1977-78	59	na	104	112	175	29.4
1978-79	57	248	112	118	185	32.1
1979-80	71	297	129	145	246	39.0
1980-81	83	338	149	176	274	46.5
1981-82	93	338	157	187	269	51.3
1982-83	101	334	156	181	261	52.6
1983-84	105	323	176	207	286	56.0
1984-85	118	342	218	267	322	62.2
1985-86	131	378	209	271	280	68.3
1986-87	128	339	211	279	276	67.0
1987-88	133	379	212	294	303	68.3
1988-89	155	396	229	329	340	76.9
1989-90	166	365	260	341	324	82.4
1990-91	177	389	276	362	390	85.0
1991-92	180	385	290	369	381	90.3
1992-93	173	369	293	368	390	88.7
1993-94	175	344	298	374	383	87.1
1994-95	179	417	319	372	456	89.6
1995-96	184	449	326	369	480	98.2
1996-97	179	460	318	363	435	99.2
1997-98	197	498	343	409	381	100.0
1998-99	197	488	339	438	334	102.7
1999-00	198	442	361	475	372	99.8
2000-01	210	475	377	511	444	106.4
2001-02	223	455	404	406	376	104.3
2002-03	234	448	399	413	363	106.9
2003-04	223	459	344	387	377	102.8
2004-05	220	469	341	429	442	108.8
2005-06	228	532	377	442	471	111.6
2006-07	241	650	385	472	512	121.4
2007-08	446	1 129	611	883	852	220.4
2008-09	510	1 336	680	1 140	878	239.6
2009-10	351	753	416	926	531	156.0
2010-11	360	843	433	708	563	157.3

^a Average price paid by Australian farmers to 30 June. ^b Bulk price. ^c Bagged price from 1970 to 2001; Bulk price from 2002 onwards. ^d Based on a four quarter average for the year ending 30 June.

Sources: Department of Primary Industry, *Chemical Fertilisers in Australia*, AGPS, Canberra; The Land, *Farm Costs Guide*; Farm Weekly, *Budget Guide*; Stock Journal, *Farm Budget Guide*; Other unpublished sources; ABARES.

80 World fertiliser indicator prices

	Phosphate rock a	Sulphur b	Diammonium phosphate c	Triple super- phosphate c	Ammonia d	Urea d	Potash e
	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t
1995-96	49.9	63.2	300.7	229.5	262.6	273.4	149.0
1996-97	46.8	41.8	264.9	246.3	278.1	239.4	144.3
1997-98	53.9	44.8	302.2	279.7	233.0	190.3	166.2
1998-99	75.1	40.9	326.2	296.3	192.9	168.4	179.9
1999-00	74.8	64.1	268.4	242.8	226.6	190.1	178.9
2000-01	87.4	56.5	310.6	283.2	429.5	310.7	209.2
2001-02	89.8	46.5	298.8	262.4	286.2	216.5	214.9
2002-03	80.7	80.4	312.4	277.9	357.3	253.5	193.2
2003-04	66.5	101.8	305.4	260.0	397.0	268.9	159.1
2004-05	62.6	96.0	337.8	274.5	417.4	343.9	192.4
2005-06	63.1	103.1	388.4	297.5	504.7	351.1	218.1
2006-07	60.0	68.6	438.0	na	415.5	375.5	243.1
2007-08	na	184.1	870.4	na	514.3	480.4	294.4
2008-09	303.5	238.8	1015.8	na	626.1	582.5	802.2
2009-10	na	89.4	474.7	na	384.1	354.3	474.7
2010-11	na	153.6	625.1	na	507.0	395.6	334.5
2006							
March	63.8	104.9	392.1	302.7	532.6	351.4	227.5
June	63.1	103.7	390.8	290.2	488.5	331.4	225.0
September	62.2	79.0	384.5	292.4	369.1	316.7	243.6
December	61.2	66.4	367.5	na	399.1	337.2	250.7
2007							
March	59.9	54.8	427.2	na	474.5	433.1	245.3
June	56.7	74.1	571.5	na	417.9	413.9	232.0
September	na	122.1	566.3	na	351.7	393.9	227.5
December	na	174.1	595.9	na	381.9	462.6	227.5
2008							
March	na	440.2	914.1	na	643.4	467.4	251.4
June	na	na	1405.4	na	680.3	597.6	471.1
September	318.3	842.5	1486.9	na	862.6	900.8	613.3
December	445.1	na	1493.9	na	944.7	597.7	810.0
2009							
March	450.6	60.1	620.3	na	284.2	454.5	888.5
June	na	52.6	462.1	na	412.8	377.1	896.9
September	na	39.0	399.7	na	266.9	354.9	655.4
December	na	40.2	377.1	na	372.9	341.6	466.3
2010							
March	na	121.5	548.1	na	373.5	377.0	403.3
June	na	156.8	574.0	na	523.1	343.5	373.8
September	na	101.5	582.6	na	512.6	341.3	346.0
December	na	154.0	653.9	na	470.1	396.0	324.1
2011							
March	na	163.6	646.2	na	499.5	429.4	332.2
June	na	195.3	618.0	na	545.9	415.9	335.5

a US Gulf 68 BPL for the period to June 30 1998. Data after June 1998 refer to Jordan 70-74 BPL. **b** Vancouver spot. **c** Fob US Gulf. **d** Fob Middle East for the period to 30 June 1993 when data from this source became unavailable. Data after 30 June 1993 refer to fob US Gulf. **e** Vancouver standard muriate. **na** Not available.

Source: Derived from data in Pike and Fischer, *Green Markets*, Maryland, United States.

81 Australian fertiliser consumption, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1990	578.9	439.4	145.4
1991	680.2	462.3	142.1
1992	782.3	488.2	147.4
1993	770.0	565.4	176.1
1994	922.7	583.2	219.6
1995	965.3	671.3	230.8
1996	985.3	824.6	206.0
1997	1 090.1	839.4	254.6
1998	1 039.0	979.0	232.0
1999	1 055.0	1 082.0	216.0
2000	1 107.0	951.0	217.0
2001	1 187.0	1 034.0	242.0
2002	1 077.8	980.1	215.4
2003	1 019.3	932.9	239.0
2004	1 106.7	1 056.2	258.8
2005	1 040.7	952.3	222.1
2006	978.0	858.0	222.3
2007	982.2	848.8	227.4
2008	818.3	835.0	214.5
2009	641.0	849.8	158.0
2010	na	na	na

na Not available.

Sources: International Fertilizer Industry Association; ABARES.

82 Volume of Australian imports of fertiliser, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1990-91	306.0	270.1	147.2
1991-92	331.6	257.2	145.4
1992-93	464.1	308.6	153.7
1993-94	447.3	392.2	179.1
1994-95	516.0	406.8	219.6
1995-96	604.1	469.3	218.6
1996-97	644.5	597.7	196.9
1997-98	713.7	654.7	258.9
1998-99	696.5	695.1	213.0
1999-00	667.7	842.1	211.9
2000-01	661.0	699.5	220.8
2001-02	633.6	767.1	256.2
2002-03	568.1	709.8	240.7
2003-04	589.5	704.1	215.1
2004-05	630.9	869.7	318.2
2005-06	696.8	739.4	273.9
2006-07	348.0	614.2	221.3
2007-08	420.3	590.6	210.6
2008-09	471.9	677.0	339.8
2009-10	346.9	528.1	na

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; UN FAO, *World Fertilisers Year Book*, Rome; UN FAO, *FAOSTAT - ResourceSTAT Database*, Rome; ABARES.

83 Volume of Australian imports of raw materials for fertiliser production, by source

	Sulphur		Phosphate rock						
	Canada	Other	Christmas	China	Morocco	Nauru	Togo	Other	Total
			Island						
	kt	kt	kt	kt	kt	kt	kt	kt	kt
1971-72	212	65	503	na	na	na	na	na	1 654
1972-73	396	10	684	na	na	na	na	na	2 282
1973-74	381	23	955	na	na	na	na	na	3 104
1974-75	502	78	1 002	na	na	na	na	na	2 639
1975-76	180	26	503	na	na	na	na	na	1 461
1976-77	381	26	567	na	na	na	na	na	1 319
1977-78	470	26	487	na	na	na	na	na	1 610
1978-79	337	99	543	na	na	na	na	na	1 756
1979-80	627	60	674	na	na	na	na	na	1 936
1980-81	552	4	624	na	na	na	na	na	2 232
1981-82	459	0	780	na	25	na	na	na	2 360
1982-83	371	21	699	na	na	na	na	na	2 111
1983-84	470	0	456	na	25	na	na	na	1 688
1984-85	420	1	533	na	111	na	na	na	1 762
1985-86	458	0	506	na	103	na	na	na	1 921
1986-87	329	1	370	na	66	na	na	na	1 459
1987-88	462	11	240	na	256	na	na	na	1 808
1988-89	506	13	0	0	310	1 203	162	562	2 237
1989-90	382	13	0	0	236	768	171	256	1 430
1990-91	108	9	0	0	93	224	25	134	476
1991-92	38	6	0	0	0	257	0	218	474
1992-93	79	20	0	0	62	355	31	401	849
1993-94	71	0	13	0	144	203	33	383	776
1994-95	122	22	22	0	182	178	177	508	1 067
1995-96	114	31	47	32	136	191	0	505	911
1996-97	113	32	66	50	104	167	0	519	906
1997-98	126	5	126	79	238	153	0	464	1 060
1998-99	231	94	146	44	273	88	0	332	884
1999-00	255	7	50	107	151	106	0	342	756
2000-01	435	46	0	293	145	119	0	266	823
2001-02	539	4	0	266	94	27	243	303	933
2002-03	559	36	0	200	48	16	244	202	711
2003-04	660	24	44	179	198	0	253	49	723
2004-05	568	24	38	210	381	0	163	5	797
2005-06	543	7	101	86	405	0	48	15	655
2006-07	521	6	61	23	343	27	0	18	472
2007-08	838	5	52	55	438	112	0	49	707
2008-09	645	24	60	15	284	86	0	95	540
2009-10	386	10	11	1	73	0	0	0	85
2010-11	603	45	35	0	288	74	0	11	408

na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Primary Industry, *Chemical Fertilisers in Australia*, AGPS, Canberra.

84 Volume of Australian trade in manufactured fertiliser, by type

	Imports						Exports	
	Triple superphosphate kt	Diammonium phosphate kt	Monoammonium phosphate kt	Other ammonium kt	Urea kt	Potassic fertiliser kt	Nitrogen fertiliser kt	Ammonium phosphates kt
1971-72	2.4	0.0	0.0	27.3	0.0	na	7.8	0.0
1972-73	2.0	0.0	0.0	9.3	1.3	na	21.4	0.0
1973-74	1.8	0.0	0.0	4.1	0.1	na	37.9	0.0
1974-75	0.3	0.0	0.0	6.5	4.3	na	7.3	0.0
1975-76	0.1	0.0	0.0	0.3	4.7	na	47.9	0.0
1976-77	20.7	0.0	0.0	6.3	17.9	na	1.2	0.0
1977-78	10.1	0.0	0.0	9.4	10.2	na	7.2	0.0
1978-79	66.3	0.2	0.0	8.9	16.7	na	8.2	0.0
1979-80	0.0	2.2	0.0	30.7	41.2	na	24.2	0.0
1980-81	0.0	51.2	9.0	38.7	40.2	na	22.9	0.0
1981-82	0.0	50.5	8.9	62.7	43.2	na	18.5	0.0
1982-83	25.2	183.6	32.4	22.7	76.6	na	21.2	0.0
1983-84	35.1	257.5	45.9	14.7	64.0	na	4.5	0.0
1984-85	55.4	306.6	54.4	46.3	138.2	na	34.6	0.0
1985-86	48.1	229.4	40.2	41.7	144.2	na	6.2	0.0
1986-87	76.4	201.8	38.2	80.3	177.2	na	10.3	0.0
1987-88	88.4	124.7	15.3	98.9	212.0	na	16.1	0.1
1988-89	97.3	250.3	103.1	113.1	255.1	299.4	46.5	0.1
1989-90	114.3	320.3	164.2	78.6	361.7	289.7	48.3	0.1
1990-91	157.8	347.3	141.1	42.9	388.8	247.4	96.6	0.1
1991-92	264.4	355.0	206.2	90.2	364.5	244.4	61.0	0.8
1992-93	249.9	482.7	250.0	116.8	367.2	258.4	50.9	0.2
1993-94	204.2	501.2	237.5	133.7	526.5	301.0	76.7	0.4
1994-95	306.8	548.5	232.6	124.9	554.3	367.8	66.9	0.4
1995-96	269.3	715.4	291.5	154.0	594.9	366.0	40.1	0.3
1996-97	335.5	706.0	317.3	197.3	850.7	329.3	33.1	0.1
1997-98	351.8	757.1	391.6	118.1	953.3	435.0	44.2	0.2
1998-99	284.9	771.7	413.6	78.5	1 038.2	357.1	68.9	0.6
1999-00	240.4	570.2	580.0	74.9	1 399.8	353.3	75.3	23.0
2000-01	224.1	447.4	647.4	22.6	1 139.5	346.0	117.2	283.7
2001-02	280.2	271.0	659.2	75.5	1 295.8	416.9	101.4	180.2
2002-03	188.1	237.2	691.3	72.0	1 072.8	432.6	172.8	255.9
2003-04	163.5	211.6	740.5	62.1	1 156.6	447.0	135.7	264.6
2004-05	231.8	286.7	926.3	180.2	1 288.6	496.7	205.5	313.5
2005-06	310.3	202.5	528.2	144.4	1 056.1	403.7	186.6	312.3
2006-07	165.6	83.0	443.1	107.9	794.6	306.1	269.4	154.9
2007-08	106.8	312.8	582.5	113.5	1 032.5	465.0	310.8	237.0
2008-09	107.3	214.0	455.3	228.1	884.8	331.2	398.6	480.8
2009-10	159.8	202.8	432.9	200.1	1 069.3	273.6	354.9	439.0
2010-11	296.7	185.4	753.0	166.7	1 271.9	297.1	291.6	388.3

na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Primary Industry, *Chemical Fertilisers in Australia*, AGPS, Canberra.

85 Volume of Australian fertiliser imports, by state

	Triple superphosphate kt	Diammonium phosphate kt	Monoammonium phosphate kt	Ammonium fertilisers		Urea kt	Potassic fertiliser kt	Phosphate rock kt
				Sulphate kt	Nitrate kt			
New South Wales								
2005-06	23.0	22.4	64.9	0.6	17.3	60.5	16.2	60.0
2006-07	37.4	0.3	46.3	0.9	25.4	68.0	14.6	44.4
2007-08	15.7	25.1	55.9	1.0	18.5	78.4	12.0	97.1
2008-09	3.1	23.5	33.3	1.3	35.5	66.9	9.4	67.1
2009-10	60.0	28.2	54.0	1.7	40.3	81.3	10.3	0.1
2010-11	84.2	14.7	72.4	1.3	39.1	136.2	9.0	0.0
Victoria								
2005-06	185.8	64.2	145.1	1.7	0.9	393.9	140.3	310.3
2006-07	63.4	13.1	113.6	2.5	0.6	242.0	85.2	257.8
2007-08	36.5	124.6	192.1	3.6	6.1	364.8	151.9	367.1
2008-09	39.0	48.7	144.3	6.5	5.4	247.4	76.6	283.2
2009-10	56.9	51.8	156.3	12.0	7.6	343.6	77.7	31.0
2010-11	137.9	64.8	364.1	18.0	5.4	455.6	91.7	231.0
Queensland								
2005-06	3.2	0.0	34.4	4.2	94.7	146.7	72.2	1.6
2006-07	6.7	0.1	11.4	2.4	54.9	152.3	81.9	2.2
2007-08	4.6	0.1	24.0	3.4	33.6	167.9	105.0	1.8
2008-09	0.0	1.2	8.2	3.1	79.4	163.9	67.7	2.2
2009-10	0.2	3.3	8.5	4.7	83.8	138.0	89.7	0.8
2010-11	0.2	10.3	13.0	9.9	66.5	239.4	92.9	0.1
Western Australia								
2005-06	71.3	96.9	267.2	1.4	18.0	304.8	96.1	176.8
2006-07	55.5	55.4	243.3	1.6	15.6	211.9	46.7	124.3
2007-08	46.5	87.5	273.0	0.9	33.5	299.9	145.8	145.9
2008-09	59.9	81.1	236.2	65.7	24.5	305.2	151.9	110.5
2009-10	31.2	52.1	183.3	23.6	16.6	359.1	75.2	53.0
2010-11	42.9	41.7	236.2	3.6	14.1	279.3	78.2	61.7
South Australia								
2005-06	22.3	19.0	16.7	0.9	4.7	124.3	16.5	0.0
2006-07	2.5	14.1	28.5	1.2	2.7	91.8	11.7	0.0
2007-08	0.1	75.5	37.6	1.5	11.4	84.8	17.1	0.2
2008-09	5.3	59.5	33.2	2.1	3.8	84.9	8.6	0.0
2009-10	2.5	65.0	30.8	5.4	3.7	126.3	6.4	0.0
2010-11	28.0	45.9	65.1	4.6	2.3	132.4	7.3	0.0
Tasmania								
2005-06	4.7	0.0	0.0	0.0	0.0	26.0	26.8	106.1
2006-07	0.0	0.0	0.0	0.0	0.1	28.5	19.4	43.5
2007-08	3.4	0.0	0.0	0.0	0.1	36.7	31.7	94.7
2008-09	0.0	0.0	0.0	0.0	0.9	16.5	15.7	76.6
2009-10	9.0	2.5	0.0	0.0	0.7	21.0	13.4	0.0
2010-11	3.5	8.0	2.2	1.9	0.0	29.0	17.1	115.0
Australia								
2005-06	310.3	202.5	528.2	8.8	135.6	1 056.1	403.7	654.7
2006-07	165.6	83.0	443.1	8.6	99.3	794.6	306.1	472.2
2007-08	106.8	312.8	582.5	10.4	103.1	1 032.5	465.0	706.6
2008-09	107.3	214.0	455.3	78.7	149.4	884.8	331.2	539.7
2009-10	159.8	202.8	432.9	47.5	152.7	1 069.3	273.6	84.9
2010-11	296.7	185.4	753.0	39.3	127.4	1 271.9	297.1	407.7

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

86 Value of Australian fertiliser imports, by state a

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate		fertiliser	rock
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
New South Wales								
2005-06	5.45	8.07	22.95	0.13	5.88	19.28	4.57	5.16
2006-07	13.99	0.21	20.11	0.19	8.80	22.18	4.31	3.43
2007-08	9.25	23.11	48.52	0.19	6.25	35.70	4.79	9.61
2008-09	1.61	13.38	18.71	0.51	28.80	37.56	10.29	24.88
2009-10	12.12	16.05	24.65	0.43	20.28	26.17	6.13	0.02
2010-11	22.74	9.06	43.37	0.37	17.82	48.46	4.68	0.00
Victoria								
2005-06	31.31	23.17	53.52	0.40	0.25	124.54	39.24	19.74
2006-07	24.73	4.45	51.00	0.51	0.19	79.26	21.97	17.69
2007-08	21.86	101.35	164.40	1.08	2.05	152.21	51.74	39.78
2008-09	17.79	27.56	79.37	2.22	3.03	145.51	66.62	98.29
2009-10	16.23	28.22	78.72	3.51	2.93	116.36	35.84	3.64
2010-11	39.20	38.73	216.81	4.63	2.20	156.35	36.95	31.06
Queensland								
2005-06	0.90	0.00	11.54	0.89	37.51	46.94	17.91	0.28
2006-07	1.75	0.06	4.92	0.50	17.97	48.92	21.86	0.40
2007-08	1.97	0.05	17.86	0.99	11.89	58.26	34.41	0.35
2008-09	0.00	0.73	7.45	1.35	62.21	108.88	62.94	1.14
2009-10	0.06	1.49	3.86	1.21	38.83	43.63	52.11	0.32
2010-11	0.09	5.65	7.26	2.33	28.72	83.19	40.08	0.07
Western Australia								
2005-06	15.04	35.62	95.35	0.30	6.01	99.26	25.39	10.78
2006-07	12.40	21.67	92.58	0.37	4.92	77.48	13.90	7.17
2007-08	25.48	74.24	191.37	0.22	12.48	150.93	56.01	18.25
2008-09	50.40	63.79	211.70	23.95	15.31	145.20	190.82	41.75
2009-10	5.64	25.55	81.55	2.65	5.88	114.45	38.32	5.99
2010-11	12.04	23.52	130.03	0.80	5.19	96.45	35.54	9.07
South Australia								
2005-06	4.79	7.04	6.27	0.19	1.42	40.13	4.88	0.00
2006-07	0.65	5.49	12.95	0.22	0.92	33.28	3.35	0.00
2007-08	0.05	61.78	31.91	0.46	3.38	39.00	6.56	0.06
2008-09	2.01	34.90	19.76	0.61	1.96	42.66	8.15	0.01
2009-10	0.71	34.65	14.59	1.25	1.34	42.15	4.20	0.00
2010-11	6.19	27.00	38.57	1.10	0.85	49.18	4.04	0.00
Tasmania								
2005-06	1.33	0.00	0.00	0.00	0.00	8.42	7.35	6.14
2006-07	0.00	0.00	0.00	0.01	0.03	9.34	5.35	3.07
2007-08	4.34	0.00	0.00	0.00	0.03	13.74	10.69	11.63
2008-09	0.00	0.00	0.00	0.00	0.53	12.04	14.89	26.57
2009-10	1.33	1.37	0.00	0.00	0.31	6.60	5.77	0.00
2010-11	1.14	4.94	1.37	0.44	0.02	9.59	6.73	16.86
Australia								
2005-06	58.83	73.89	189.64	1.90	51.08	338.57	99.34	42.11
2006-07	53.53	31.88	181.56	1.80	32.83	270.46	70.73	31.76
2007-08	62.93	260.54	454.07	2.94	36.08	449.83	164.21	79.67
2008-09	71.81	140.37	336.99	28.63	111.83	491.85	353.72	192.65
2009-10	36.10	107.33	203.37	9.06	69.57	349.35	142.37	9.98
2010-11	81.40	108.89	437.43	9.67	54.80	443.21	128.01	57.06

a Fob at the port of origin.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

87 Volume of Australian fertiliser imports, by quarter

	Triple	Diammonium	Monoammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate		fertiliser	rock
	kt	kt	kt	kt	kt	kt	kt	kt
2004								
March	71.6	126.7	295.4	1.3	7.1	246.6	141.7	119.1
June	48.4	67.0	196.6	5.7	12.0	531.6	178.9	214.0
September	60.1	25.2	95.0	0.7	22.9	299.2	92.8	120.0
December	68.4	51.9	189.5	1.0	50.1	157.2	92.5	242.2
2005								
March	62.4	120.6	345.1	1.6	60.0	296.8	138.2	193.2
June	40.9	89.1	296.7	1.6	42.2	535.4	173.2	241.7
September	19.3	16.3	118.0	3.9	40.7	211.4	114.1	146.8
December	127.1	33.0	95.3	0.9	29.3	106.8	70.5	239.5
2006								
March	112.8	96.8	217.0	2.2	46.6	290.9	110.2	70.9
June	51.1	56.4	98.0	1.8	19.0	447.0	108.8	197.6
September	5.8	0.0	50.2	2.2	21.8	234.5	78.0	123.1
December	2.9	0.2	11.4	1.0	24.7	75.8	88.9	145.7
2007								
March	50.0	54.2	238.7	2.3	18.8	85.5	65.2	55.4
June	107.0	28.6	142.8	3.2	34.0	398.7	74.0	148.0
September	0.0	6.2	20.9	2.5	30.2	304.9	116.4	92.9
December	15.4	67.4	122.2	1.7	17.7	121.8	89.8	278.8
2008								
March	31.4	106.5	242.2	2.5	29.4	207.1	124.3	108.9
June	59.9	132.7	197.2	3.7	25.8	398.8	134.5	226.1
September	22.0	24.2	28.8	33.2	28.8	304.3	134.4	322.8
December	21.3	6.9	72.4	22.0	77.6	73.9	168.2	188.8
2009								
March	42.7	63.6	175.2	3.1	23.6	163.4	16.7	0.6
June	21.3	119.3	179.0	20.4	19.3	343.2	11.9	27.5
September	0.3	2.5	35.5	2.5	44.2	176.3	39.2	0.4
December	14.4	0.1	30.4	24.9	51.6	76.2	25.6	73.0
2010								
March	49.8	96.1	201.0	9.0	23.8	297.5	108.8	11.2
June	95.3	104.2	165.9	11.1	33.7	519.3	99.9	0.3
September	20.4	13.3	59.1	8.3	53.7	249.1	61.0	146.4
December	170.8	26.6	154.1	5.0	35.3	288.1	79.7	122.0
2011								
March	81.6	112.3	387.9	7.8	11.6	201.6	104.2	13.2
June	24.0	33.2	151.9	18.4	29.1	533.2	52.2	126.2

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

88 Value of Australian fertiliser imports, by quarter a

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate		fertiliser	rock
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
2004								
March	12.4	35.9	83.8	0.2	1.7	55.2	29.2	5.7
June	9.0	19.7	58.0	1.0	3.0	114.0	35.0	11.3
September	16.4	7.8	30.4	0.2	7.0	79.3	22.3	7.9
December	12.6	15.6	60.5	0.2	17.1	49.7	19.6	14.8
2005								
March	11.4	37.0	106.3	0.4	21.1	85.9	28.3	11.2
June	9.3	26.9	88.6	0.3	16.5	170.2	36.0	14.7
September	3.3	6.6	40.7	0.8	14.6	66.0	30.3	8.7
December	24.3	12.0	33.9	0.2	11.8	35.2	19.7	16.1
2006								
March	20.0	35.0	80.1	0.5	18.3	89.3	33.0	3.9
June	11.2	20.4	34.9	0.4	6.4	148.0	28.8	13.5
September	1.5	0.0	18.7	0.5	7.9	68.0	22.4	8.1
December	0.8	0.2	4.4	0.2	8.6	21.3	24.8	8.4
2007								
March	10.9	19.0	89.1	0.5	6.0	31.1	17.2	4.3
June	40.3	12.7	69.4	0.6	10.4	150.0	21.0	11.0
September	0.0	2.9	9.0	0.5	9.5	103.0	30.8	6.9
December	6.2	36.2	60.1	0.5	5.9	43.6	26.1	22.6
2008								
March	16.0	82.7	165.2	0.6	10.7	86.5	47.3	8.4
June	40.7	138.7	219.7	1.4	10.0	216.8	60.8	41.7
September	23.5	31.0	39.6	12.1	16.1	236.8	131.8	91.8
December	18.9	7.3	93.3	10.3	66.2	59.7	190.6	94.8
2009								
March	19.6	35.9	106.6	1.3	19.6	63.3	20.0	0.3
June	9.8	66.2	97.5	4.9	9.9	131.9	12.7	5.7
September	0.1	1.4	16.2	0.7	26.4	58.6	29.9	0.2
December	2.8	0.1	10.8	3.1	21.8	23.8	17.0	8.4
2010								
March	13.7	51.4	89.8	2.4	7.5	98.9	50.2	1.3
June	19.5	54.5	86.6	2.9	14.1	168.0	45.8	0.1
September	4.3	7.0	34.0	2.0	24.2	75.3	29.5	21.3
December	42.2	15.2	84.9	1.2	15.1	101.3	34.5	15.8
2011								
March	27.0	67.5	225.3	2.0	4.5	76.9	43.0	1.5
June	7.9	19.2	93.2	4.5	11.9	189.7	21.6	18.6

a Fob at the port of origin.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

89 Australian sales and prices of chemicals, by product type

	Herbicides ^{ab}	Fungicides/ plant growth regulants ^{ab}	Insecticides ^{ab}	Animal health products ^a	Index of prices paid for chemicals ^c
	\$'000	\$'000	\$'000	\$'000	
1975	25 594	8 237	13 424	na	34.3
1976	35 518	10 337	13 627	na	40.1
1977	46 402	10 950	21 202	na	43.6
1978	54 362	12 090	25 317	61 462	44.7
1979	77 349	14 175	28 753	na	49.9
1980	94 301	17 551	34 986	88 552	58.0
1981	108 837	20 167	37 046	92 022	61.0
1982	109 722	19 744	37 957	91 810	62.7
1983	159 888	28 829	42 905	118 443	66.2
1984	192 830	29 536	53 906	137 878	70.3
1985	207 226	30 165	52 659	155 542	76.7
1986	216 820	34 845	60 233	171 839	84.3
1987	284 445	43 332	86 861	188 546	89.4
1988	366 727	46 622	104 395	284 375	89.4
1989	402 573	60 614	93 075	283 240	91.2
1990	398 336	57 856	115 108	267 017	93.2
1991	354 058	55 013	118 383	211 000	96.4
1992	463 104	87 699	120 688	247 823	97.5
1993	501 051	97 286	130 808	266 334	98.0
1994	421 457	79 710	130 823	259 940	97.2
1995	503 700	86 400	189 300	271 500	97.9
1996	600 500	101 300	251 600	285 000	98.1
1997	713 601	123 698	268 380	302 000	99.0
1998	833 987	138 570	328 270	431 033	100.0
1999	895 868	149 892	361 409	476 960	100.4
2000	883 677	155 525	326 686	511 580	101.6
2001	812 503	162 729	352 702	540 162	103.3
2002	694 164	135 525	194 317	551 726	105.6
2003	916 272	161 830	300 576	597 882	108.0
2004	996 719	170 107	374 194	607 748	110.0
2005	908 519	185 120	321 139	620 744	111.9
2006	960 751	179 536	326 735	674 521	114.6
2007	915 018	133 016	261 791	707 383	124.7
2008	1 411 357	145 991	246 888	739 973	149.7
2009	1 067 038	189 867	287 476	754 017	136.7
2010	1 192 623	182 085	329 894	820 437	116.2

^a For the years to 1995, data are based on sales at the factory gate. These figures do not include sales from non-AVCARE members but are likely to represent about 90 per cent of actual total sales. For the years from 2005, data are on a financial basis. ^b For the years after 1997, figures refer to total Australian sales as recorded by the APVMA. ^c Based on ABS benchmark data. **na** Not available.

Sources: Australian Pesticides and Veterinary Medicines Australia (APVMA); AVCARE; National Registration Authority (NRA); ABARES.

90 Australian farm fuel prices

	Petrol			Index of prices paid for fuel ^d
	Lead replacement ^a	Unleaded ^b	Off-road diesel ^c	
	c/L	c/L	c/L	
1971-72	9.24	na	4.65	11.5
1972-73	9.32	na	4.66	11.5
1973-74	10.31	na	4.74	12.4
1974-75	11.68	na	5.97	15.1
1975-76	13.53	na	7.86	19.5
1976-77	15.73	na	9.02	22.2
1977-78	17.68	na	11.21	25.7
1978-79	20.87	na	14.92	32.8
1979-80	26.77	na	22.22	46.1
1980-81	31.87	na	27.78	57.6
1981-82	36.00	na	29.64	63.0
1982-83	43.81	na	33.22	72.7
1983-84	48.57	na	34.00	78.9
1984-85	49.15	na	36.13	84.2
1985-86	54.32	54.32	33.91	86.9
1986-87	55.11	55.11	30.83	86.0
1987-88	57.19	57.19	31.49	88.7
1988-89	56.24	56.24	27.17	80.4
1989-90	65.41	65.41	30.89	91.6
1990-91	74.44	74.44	36.39	106.0
1991-92	72.54	72.54	33.14	99.6
1992-93	74.53	74.53	35.10	104.1
1993-94	74.72	74.22	32.47	100.5
1994-95	78.42	76.42	38.44	96.6
1995-96	79.83	77.83	38.50	100.4
1996-97	81.89	79.89	40.60	104.9
1997-98	82.19	76.22	36.71	100.0
1998-99	80.44	73.60	32.39	104.1
1999-00	94.11	85.13	41.21	148.6
2000-01	91.15	88.48	53.48	144.1
2001-02	84.64	81.34	46.80	128.3
2002-03	86.33	85.25	43.33	127.0
2003-04	99.58	86.05	55.01	144.3
2004-05	na	96.30	63.72	167.2
2005-06	na	115.28	82.85	210.6
2006-07	na	115.91	81.22	208.3
2007-08	na	127.56	98.46	243.7
2008-09	na	111.89	84.59	211.0
2009-10	na	110.01	73.33	191.7
2010-11	na	116.36	82.91	211.3

^a Leaded petrol phased out as at 1 Jan 2002. Lead replacement petrol (LRP) introduced as at 1 Jan 2002. ^b Petrol price paid at the pump, excludes GST, however includes subsidies. ^c Average diesel price paid by Australian farmers, excludes GST and farm rebates, however includes subsidies.

^d Base: 1997-98 = 100. na Not available.

Sources: Ampol; Australian Taxation Office; Caltex Australia; Fueltrac Pty Ltd; Shell Australia; other unpublished sources; ABARES.

91 Persons employed in agriculture, forestry and fisheries ^a

	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	201.5	203.5	202.5	198.8	211.0	207.5	212.8	163.8
Horticulture and fruit	96.8	91.5	95.5	96.5	103.0	96.0	100.8	95.5
Other crops	13.0	13.8	16.0	15.5	15.0	12.0	13.0	10.0
Dairy cattle	30.3	40.0	38.3	32.5	34.5	29.0	30.5	25.3
Poultry	11.5	10.0	9.3	8.3	9.0	8.5	9.3	11.0
Other livestock	16.5	16.0	16.5	14.3	12.5	9.3	12.3	12.0
Agriculture - other	na	na	na	na	na	10.3	5.0	4.5
Total	369.8	375.0	378.2	365.7	385.2	373.4	383.2	321.8
Forestry and logging	8.5	8.1	10.4	10.4	6.5	10.0	9.7	7.2
Commercial fishing ^b	19.2	13.6	14.1	14.4	16.2	19.9	19.4	18.0
Support services	18.6	22.2	25.5	27.5	28.1	28.3	25.2	23.3
Total	416.1	418.9	428.2	418.1	436.0	431.6	437.6	370.4
	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	162.0	130.0	136.8	132.8	144.8	153.3	148.3	136.5
Horticulture and fruit	96.5	84.8	84.5	84.3	73.0	61.5	63.3	60.8
Other crops	8.3	12.5	7.3	11.0	12.3	14.3	14.0	10.3
Dairy cattle	19.5	21.3	22.5	20.3	23.5	29.3	27.5	28.8
Poultry	9.8	9.3	9.0	8.3	6.5	9.5	8.3	10.0
Other livestock	9.8	10.3	10.8	10.0	9.5	14.0	15.5	13.3
Agriculture - other	10.3	39.3	29.8	39.3	32.5	40.3	48.0	47.3
Total	316.6	307.0	300.5	306.2	300.9	317.5	324.5	na
Forestry and logging	9.0	9.1	8.4	8.1	8.4	7.5	7.0	5.6
Commercial fishing ^b	15.9	13.7	12.4	9.8	13.7	9.2	11.4	11.7
Support services	25.4	27.4	26.9	26.3	29.9	23.9	26.0	27.5
Total	366.8	357.1	348.1	350.4	354.0	362.4	369.2	351.4

^a Average employment over four quarters. Based on ANZSIC 2006. Caution should be used when utilising employment statistics at the ANZSIC subdivision and group levels due to estimates that may be subject to sampling variability and standard errors too high for most practical purposes.

^b Includes aquaculture, fishing, hunting and trapping. **na** Not available.

Source: ABS, *Labour Force, Australia, Detailed - Electronic Delivery*, cat. no. 6291.0.55.001, Canberra; ABS, *Labour Force, Australia, Detailed Electronic Delivery*, cat. no. 6291.0.55.003, Canberra.

	Contract rates ^b	Shearing rates ^c	Rural wages ^d	Average weekly earnings	Consumer price index
	%	%	%	%	%
1971-72	3.7	2.5	3.7	10.2	6.9
1972-73	11.9	6.8	11.6	9.0	6.1
1973-74	30.4	30.2	29.6	16.2	12.9
1974-75	42.1	44.1	41.8	26.6	16.8
1975-76	13.5	9.6	13.4	15.7	12.9
1976-77	12.6	10.5	12.6	14.7	13.9
1977-78	10.2	8.2	10.1	10.3	9.5
1978-79	5.2	6.7	5.3	8.4	8.1
1979-80	7.6	12.6	7.6	8.5	10.2
1980-81	9.2	9.8	9.1	12.6	9.3
1981-82	9.2	7.7	9.2	12.3	10.4
1982-83	14.4	7.9	11.0	13.1	11.5
1983-84	4.3	5.9	7.3	7.1	6.9
1984-85	9.6	9.7	9.5	5.1	4.3
1985-86	0.0	5.9	0.0	5.9	8.4
1986-87	10.5	1.1	10.5	6.2	9.3
1987-88	3.8	3.2	3.7	6.1	7.3
1988-89	23.4	11.2	7.5	6.8	7.3
1989-90	8.7	6.5	6.4	6.6	8.0
1990-91	5.3	1.4	9.6	5.9	5.3
1991-92	4.5	4.0	6.2	2.9	1.9
1992-93	2.7	1.5	3.5	2.0	1.0
1993-94	0.0	0.1	1.0	2.9	1.8
1994-95	2.4	0.8	1.3	3.4	3.2
1995-96	2.4	2.3	2.2	2.5	4.2
1996-97	2.3	1.5	2.2	2.9	1.3
1997-98	2.9	1.9	2.7	3.1	- 0
1998-99	3.9	5.7	3.6	2.4	1.3
1999-00	4.0	3.0	2.5	2.2	2.4
2000-01	7.8	3.6	3.6	5.3	6.0
2001-02	2.5	1.8	2.4	4.0	2.9
2002-03	4.4	3.4	4.0	4.3	3.1
2003-04	7.6	5.6	3.8	4.6	2.4
2004-05	6.3	4.1	3.9	4.2	2.4
2005-06	4.5	3.4	3.6	4.9	3.2
2006-07	4.5	4.4	4.3	4.5	2.9
2007-08	3.8	3.8	3.7	3.9	3.4
2008-09	3.6	3.6	3.5	3.8	3.1
2009-10	1.0	2.4	1.0	5.3	2.3
2010-11	4.8	3.9	4.6	4.0	3.1

^a Percentage change from previous year. ^b Base rural wages (Station hand Grade 1/ Farming & Livestock hand 1) plus casual employment loading of 25 per cent (as of 31 Oct 2004), 22.5 per cent (Nov 2003 to Oct 2004), 17.5 per cent from Sept 1988. Prior to Sept 1988 people could be employed on a daily (casual) basis (as opposed to weekly) and the payment was equivalent to 1/5th of the Station hand grade 1 rate only. ^c Based on price per 100 flock sheep. ^d Base rural wages for Station hand Grade 1/ Farming & Livestock hand 1.

Sources: ABS, *Average Weekly Earnings, Australia*, cat. no. 6302.0, Canberra (derived from average weekly earnings for all employees series); ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra; Fairwork Australia, Pastoral Industry Award 2010 (MA000035), formerly Pastoral Industry Award 1998 (Transitional) 2006, Pastoral Industry Award 1998 (AW792378), PO143 Pastoral Industry Award 1995, Pastoral Industry Award 1986, 1970, 1965; ABARES.

93 Summary of Australian fisheries statistics

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11 p
Prawns									
Production as	kt	27.6	23.7	23.6	20.8	22.8	24.2	27.0	26.4
Value of production	\$m	359.8	307.1	305.0	267.5	272.3	290.0	324.1	308.1
Exports b	kt	9.4	10.3	8.7	6.4	4.9	4.8	4.7	6.4
Value of exports	\$m	160.6	163.1	133.9	93.6	68.6	82.2	61.5	77.1
Imports b	kt	24.4	29.9	30.4	33.9	29.8	26.7	34.5	32.6
Value of imports	\$m	227.6	257.8	256.3	308.0	250.2	270.7	298.7	291.0
Rock lobster									
Production ac	kt	19.3	17.9	15.6	14.3	14.3	12.2	9.6	9.4
Value of production c	\$m	401.2	414.7	463.4	461.2	426.0	414.8	368.0	375.4
Exports b	kt	13.5	12.6	11.9	10.3	9.5	9.6	7.7	7.0
Value of exports	\$m	426.8	439.6	489.4	463.4	400.9	461.7	399.7	369.3
Abalone									
Production as	kt	5.8	6.0	5.5	5.5	5.3	5.6	5.2	5.4
Value of production	\$m	197.9	233.0	225.1	217.0	188.8	188.5	180.6	183.4
Exports b	kt	4.9	4.0	3.7	3.9	3.6	3.3	3.6	3.4
Value of exports	\$m	237.7	263.1	245.6	246.0	217.2	208.2	216.4	212.0
Scallops									
Production a	kt	9.4	15.5	9.0	10.5	10.3	7.6	7.5	8.4
Value of production	\$m	25.1	47.0	23.3	29.3	33.0	26.2	25.6	26.6
Exports b	kt	1.5	1.2	1.5	1.4	1.1	1.1	1.1	0.6
Value of exports	\$m	34.9	32.6	38.8	35.4	27.8	33.3	29.5	15.4
Tuna									
Production ads	kt	14.7	11.3	12.7	13.1	14.6	13.7	11.0	9.9
Value of production d	\$m	279.5	172.4	175.1	161.0	210.0	187.1	125.3	138.9
Exports b	kt	12.8	10.9	11.7	11.6	12.6	11.5	9.5	7.8
Value of exports	\$m	273.5	165.7	179.4	162.2	206.2	176.8	118.5	131.4
Imports b	kt	47.4	37.5	36.5	34.5	38.8	38.0	39.9	45.6
Value of imports	\$m	109.8	107.7	141.3	141.7	174.1	223.3	169.3	200.8
Other fin fish									
Production as	kt	165.6	172.4	149.4	144.4	145.5	152.1	152.4	156.8
Value of production	\$m	567.1	558.8	598.1	688.2	714.9	715.9	771.6	815.7
Exports b	kt	13.2	15.0	11.6	11.4	9.8	14.2	11.2	14.1
Value of exports	\$m	136.5	138.7	115.3	118.2	118.6	157.2	139.9	156.0
Imports b	kt	91.2	93.3	92.7	99.1	98.3	95.5	100.5	101.6
Value of imports	\$m	435.1	439.6	460.7	559.4	540.9	601.3	582.1	568.3
All fisheries products									
Production s	kt	276.0	279.1	246.4	244.3	240.5	237.5	241.3	na
Value of production	\$m	2 187.6	2 085.6	2 167.1	2 216.7	2 207.1	2 214.1	2 184.6	2 174.6
Edible exports b	kt	58.5	57.3	52.3	48.0	44.0	46.9	40.0	41.5
Value of edible exports	\$m	1 319.3	1 236.0	1 237.3	1 157.9	1 065.4	1 145.3	987.7	990.9
Value of non-edible exports	\$m	332.6	305.7	309.6	336.1	276.3	384.0	259.0	257.9
Edible imports b	kt	188.0	186.3	188.5	198.6	198.5	193.5	207.6	211.8
Value of edible imports	\$m	904.9	959.3	1 028.5	1 184.4	1 132.2	1 282.7	1 245.7	1 272.6
Value of non-edible imports	\$m	201.6	212.8	237.3	283.0	265.7	427.1	269.0	258.4

a Live weight. **b** Product weight. **c** Includes bugs for Queensland. **d** Excludes Commonwealth southern bluefin tuna as an input to South Australian farms.

p Preliminary. **s** Includes estimates of aquaculture. **na** Not available.

Sources: ABARES, *Australian Fisheries Statistics*, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

94 Quantity and value of Australian production of selected fisheries products

	Unit	Prawns	Rock lobster ^a	Abalone	Scallops	Oysters	Tuna ^e	Other fin fish	All fisheries products ^b
Quantity ^{bc}									
1989-90	kt	23.3	15.7	1.5	0.0	7.5	8.2 ^d	120.9	na
1990-91	kt	29.1	14.7	1.5	0.0	8.1	11.7	145.4	na
1991-92	kt	24.5	18.5	1.5	0.0	8.2	13.2	139.8	na
1992-93	kt	25.1	18.4	4.7	33.0	8.6	10.2	123.6	na
1993-94	kt	23.2	16.8	4.7	23.7	8.7	7.7	121.9	na
1994-95	kt	28.0	16.4	5.2	15.8	9.4	8.7	127.5	na
1995-96	kt	29.4	15.7	5.4	15.3	10.1	9.2	123.5	na
1996-97	kt	27.7	15.8	5.2	8.8	10.1	13.0	128.5	na
1997-98	kt	29.6	16.6	5.2	10.3	10.7	11.9	134.3	na
1998-99	kt	31.2	18.6	5.6	7.6	8.7	16.7	126.5	232.4
1999-00	kt	26.8	19.9	5.6	12.1	9.7	16.2	114.5	222.7
2000-01	kt	30.2	16.5	5.7	9.2	9.6	16.1	122.6	231.6
2001-02	kt	29.5	14.1	5.9	5.7	10.2	15.9	140.1	240.0
2002-03	kt	26.5	16.6	5.2	9.6	10.5	13.4	152.0	254.1
2003-04	kt	27.6	19.3	5.8	9.4	12.7	14.7	165.6	276.0
2004-05	kt	23.7	17.9	6.0	15.5	11.8	11.3	172.4	279.1
2005-06	kt	23.6	15.6	5.5	9.0	12.1	12.7	149.4	246.4
2006-07	kt	20.8	14.3	5.5	10.5	15.4	13.1	144.4	244.3
2007-08	kt	22.8	14.3	5.3	10.3	13.5	14.6	145.5	240.5
2008-09	kt	24.2	12.2	5.6	7.6	14.2	13.7	152.1	237.5
2009-10	kt	27.0	9.6	5.2	7.5	14.9	11.0	152.4	241.3
2010-11 ^p	kt	26.4	9.4	5.4	8.4	14.6	9.9	156.8	na
Value									
1989-90	\$m	226.0	245.0	90.0	25.0	36.0	66.0 ^d	278.0	1 093.0 ^f
1990-91	\$m	262.9	287.5	92.1	42.3	43.2	66.5	269.8	1 223.1 ^f
1991-92	\$m	244.1	369.1	94.6	82.8	44.3	76.2	301.3	1 376.2 ^f
1992-93	\$m	291.3	348.8	127.5	94.4	41.2	116.2	320.7	1 517.4 ^f
1993-94	\$m	320.6	431.7	178.4	82.1	42.4	107.8	322.5	1 719.0 ^f
1994-95	\$m	368.0	452.5	144.7	64.2	47.6	129.8	336.8	1 844.7 ^f
1995-96	\$m	368.4	374.6	142.4	66.7	51.5	85.0	352.2	1 724.8 ^f
1996-97	\$m	344.3	413.3	152.5	36.7	52.0	96.0	378.3	1 731.3 ^f
1997-98	\$m	385.3	377.1	182.1	39.8	47.0	130.8	395.6	1 835.7 ^f
1998-99	\$m	416.4	430.5	172.9	37.5	45.2	221.5	442.5	2 108.2 ^f
1999-00	\$m	411.0	540.7	220.7	42.6	53.3	256.7	477.6	2 367.4 ^f
2000-01	\$m	453.3	477.2	276.4	39.0	55.1	328.8	514.1	2 464.5
2001-02	\$m	429.3	499.9	247.4	23.3	56.9	322.9	558.4	2 444.5
2002-03	\$m	364.7	454.9	216.2	34.9	62.1	317.0	561.6	2 287.5
2003-04	\$m	359.8	401.2	197.9	25.1	77.2	279.5	567.1	2 187.6
2004-05	\$m	307.1	414.7	233.0	47.0	74.1	172.4	558.8	2 085.6
2005-06	\$m	305.0	463.4	225.1	23.3	75.3	175.1	598.1	2 167.1
2006-07	\$m	267.5	461.2	217.0	29.3	91.1	161.0	688.2	2 216.7
2007-08	\$m	272.3	426.0	188.8	33.0	89.1	210.0	714.9	2 207.1
2008-09	\$m	290.0	414.8	188.5	26.2	93.0	187.1	715.9	2 214.1
2009-10	\$m	324.1	368.0	180.6	25.6	99.8	125.3	771.6	2 184.6
2010-11 ^p	\$m	308.1	375.4	183.4	26.6	103.7	138.9	815.7	2 174.6

^a Includes bugs for Queensland. ^b Excludes those products for which no quantity data are available, e.g. live fish, pearls and some non-edible fisheries products. ^c Live weight. ^d Includes an estimate of tuna production from joint venture agreements. ^e Excludes Commonwealth southern bluefin tuna as an input to South Australian farms. ^f Includes pearls and other products. ^p Preliminary. ^s Estimates of the value of production are based on beach prices received by fishing operators of the port of landing (include some marketing costs in some cases). **na** Not available.

Sources: ABARES, *Australian Fisheries Statistics*, Canberra; ABS, *Fisheries, Australia*, cat. no. 7603.0, Canberra.

95 Australian exports of prawns, by product type and destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity ^a								
Headless	t	437	150	118	435	466	491	499
Hong Kong, China	t	14	0	2	35	101	308	64
Japan	t	150	121	94	66	106	19	30
United States	t	3	3	0	0	0	2	0
Other	t	89	2	10	148	165	381	213
Whole	t	9 623	8 409	6 034	3 869	3 990	3 764	4 768
China	t	1 540	1 107	1 019	430	608	543	888
Chinese Taipei	t	74	40	54	14	55	0	24
Hong Kong, China	t	659	401	413	425	625	518	799
Italy	t	42	382	52	18	0	0	12
Japan	t	3 466	2 993	2 334	1 702	1 923	1 821	1 896
Malaysia	t	75	74	110	15	98	50	84
New Zealand	t	189	151	64	93	81	113	131
Spain	t	1 972	1 434	877	331	288	142	214
Thailand	t	198	376	145	105	113	48	17
United States	t	29	16	27	7	9	9	4
Other	t	618	345	317	349	321	501	492
Other	t	242	185	225	611	340	404	1 151
Chinese Taipei	t	21	0	0	12	0	16	12
Japan	t	12	1	14	24	3	3	5
Singapore	t	13	19	4	25	25	0	24
United States	t	1	0	2	1	0	0	17
Other	t	194	78	170	526	245	357	1 087
Total	t	10 302	8 744	6 376	4 916	4 797	4 659	6 419
Value								
Headless	\$'000	6 639	2 835	2 285	5 803	7 502	4 678	4 362
Hong Kong, China	\$'000	387	0	55	701	1 172	2 754	506
Japan	\$'000	3 599	2 490	2 011	1 549	2 790	439	729
United States	\$'000	69	57	0	0	2	48	1
Other	\$'000	1 316	28	142	2 026	2 316	3 291	1 968
Whole	\$'000	153 239	128 872	88 740	56 100	70 680	53 124	63 616
China	\$'000	19 601	11 905	10 805	4 145	6 400	5 207	7 768
Chinese Taipei	\$'000	1 483	828	1 183	249	1 201	0	325
Hong Kong, China	\$'000	9 593	5 758	5 960	5 959	10 197	6 450	10 504
Italy	\$'000	956	7 290	943	179	0	0	200
Japan	\$'000	68 784	57 151	43 293	29 888	43 595	30 918	32 544
Malaysia	\$'000	567	676	787	182	1 115	462	679
New Zealand	\$'000	2 305	1 604	863	1 147	1 117	1 550	1 667
Spain	\$'000	26 524	18 972	10 233	3 424	2 657	1 613	2 073
Thailand	\$'000	2 290	3 817	1 505	1 093	2 019	654	229
United States	\$'000	679	297	598	86	96	180	95
Other	\$'000	8 066	4 001	4 072	3 847	4 407	5 543	5 621
Other	\$'000	3 225	2 216	2 538	6 721	3 998	3 660	9 117
Chinese Taipei	\$'000	453	0	0	240	0	126	83
Japan	\$'000	241	24	142	411	92	49	77
Singapore	\$'000	169	274	53	222	261	6	126
United States	\$'000	16	3	34	17	0	0	205
Other	\$'000	2 598	822	1 859	5 526	2 762	3 114	8 426
Total	\$'000	163 104	133 923	93 563	68 624	82 180	61 461	77 096

^a Product weight.Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

96 Australian imports of prawns, by product type and source

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity ^a								
Fresh, chilled or frozen	t	22 590	23 111	26 015	18 730	12 823	17 723	16 442
Burma	t	528	572	597	267	70	28	0
China	t	4 034	4 465	8 469	5 486	3 484	5 719	4 675
Chinese Taipei	t	92	283	120	46	21	28	0
India	t	3 096	2 459	2 000	1 084	111	102	80
Indonesia	t	1 669	1 094	686	197	708	1 959	729
Malaysia	t	183	159	478	1 619	1 812	2 170	3 469
New Caledonia	t	189	100	74	7	33	33	43
Papua New Guinea	t	59	11	24	11	0	1	0
Singapore	t	101	157	79	3	26	0	1
Thailand	t	5 741	6 106	5 503	4 694	3 755	5 033	5 016
Vietnam	t	6 260	6 855	7 229	4 856	2 735	2 504	2 253
Other	t	466	457	380	144	55	146	176
Prepared and preserved	t	7 247	7 239	7 891	11 087	13 908	16 731	16 140
Malaysia	t	1 244	809	767	644	641	475	405
Thailand	t	4 035	3 706	3 293	3 633	3 998	6 183	5 129
Vietnam	t	437	591	292	1 964	4 810	5 519	6 382
Other	t	1 530	2 133	3 539	4 845	4 459	4 554	4 223
Other	t	18	54	1	1	5	6	6
China	t	16	33	0	0	0	1	2
Malaysia	t	0	2	1	1	3	4	2
Thailand	t	0	17	0	0	1	0	1
Vietnam	t	0	1	0	0	0	0	0
Other	t	2	1	0	0	0	1	1
Total	t	29 855	30 404	33 906	29 818	26 735	34 460	32 588
Value								
Fresh, chilled or frozen	\$'000	201 187	200 925	246 372	166 630	134 959	159 091	148 535
Burma	\$'000	4 599	4 816	5 730	2 670	792	311	0
China	\$'000	26 497	29 417	62 120	36 737	34 461	49 085	42 505
Chinese Taipei	\$'000	1 054	2 884	1 395	351	246	238	0
India	\$'000	32 149	25 451	24 420	12 208	1 479	1 147	1 010
Indonesia	\$'000	10 820	8 508	5 675	1 841	8 328	20 998	8 811
Malaysia	\$'000	1 826	1 761	4 548	17 535	20 557	18 776	29 027
New Caledonia	\$'000	2 370	1 256	874	88	489	514	691
Papua New Guinea	\$'000	406	73	138	65	0	21	0
Singapore	\$'000	1 063	1 474	944	23	325	0	16
Thailand	\$'000	45 556	45 968	48 228	38 613	35 503	38 890	38 269
Vietnam	\$'000	69 650	72 307	85 791	52 951	31 736	27 415	26 123
Other	\$'000	3 780	3 940	3 383	1 218	851	1 716	2 083
Prepared and preserved	\$'000	56 491	54 961	61 663	83 530	135 715	139 524	142 340
Malaysia	\$'000	8 215	5 216	5 386	4 778	4 878	3 520	2 672
Thailand	\$'000	34 433	30 858	26 789	26 783	39 512	50 809	43 901
Vietnam	\$'000	3 854	5 072	2 925	19 033	51 994	51 810	63 371
Other	\$'000	9 989	13 815	26 563	32 936	39 332	33 385	32 396
Other	\$'000	116	425	14	16	52	63	82
China	\$'000	92	210	3	5	6	14	36
Malaysia	\$'000	1	9	6	6	22	25	14
Thailand	\$'000	0	200	3	3	18	7	24
Vietnam	\$'000	0	2	0	0	0	0	0
Other	\$'000	24	4	3	3	6	16	7
Total	\$'000	257 794	256 311	308 049	250 176	270 726	298 678	290 957

^a Product weight.Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

97 Australian exports of rock lobster, by product type and destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity a								
Tails b	t	1 849	1 612	1 458	1 034	816	550	378
Chinese Taipei	t	9	0	0	1	5	0	2
Hong Kong, China	t	18	12	14	16	5	5	9
Japan	t	38	42	38	26	39	17	9
United States	t	1 748	1 467	1 383	954	722	490	350
Other	t	36	91	24	36	46	39	7
Whole c	t	10 184	9 914	8 328	8 101	8 353	6 954	6 412
Chinese Taipei	t	1 194	824	816	1 072	1 083	581	385
Hong Kong, China	t	4 323	5 449	5 163	5 134	5 904	5 548	4 032
Japan	t	2 096	1 785	1 194	1 234	928	579	365
Singapore	t	214	162	190	209	137	58	35
United States	t	57	43	27	45	34	42	32
Other	t	2 300	1 650	938	407	267	146	1 563
Other	t	603	412	465	362	392	224	227
France	t	66	17	11	12	21	6	0
Hong Kong, China	t	8	30	28	32	24	20	20
Japan	t	395	284	345	249	260	180	124
United States	t	48	22	0	7	1	1	0
Other	t	87	59	81	63	85	18	83
Total	t	12 636	11 938	10 252	9 496	9 561	7 729	7 017
Value								
Tails b	\$'000	100 572	97 335	101 500	63 378	52 646	34 547	23 957
Chinese Taipei	\$'000	233	0	0	90	282	0	65
Hong Kong, China	\$'000	594	593	862	933	269	211	433
Japan	\$'000	2 031	2 303	2 034	1 411	1 941	1 270	765
United States	\$'000	96 050	88 585	96 760	58 580	47 349	31 020	22 189
Other	\$'000	1 665	5 854	1 844	2 363	2 806	2 046	505
Whole c	\$'000	329 612	387 448	357 126	333 332	405 095	363 140	340 832
Chinese Taipei	\$'000	36 919	29 842	30 112	32 304	33 669	21 845	15 621
Hong Kong, China	\$'000	147 902	227 490	234 098	231 654	320 006	304 943	224 882
Japan	\$'000	65 147	66 251	48 661	44 394	34 900	26 570	17 067
Singapore	\$'000	6 293	5 697	7 313	6 908	4 731	2 566	1 857
United States	\$'000	2 210	1 684	1 065	2 116	1 267	1 681	1 499
Other	\$'000	71 141	56 484	35 877	15 956	10 521	5 534	79 906
Other	\$'000	9 391	4 568	4 739	4 153	3 960	1 995	4 482
France	\$'000	1 775	775	551	570	863	259	0
Hong Kong, China	\$'000	67	271	244	93	82	694	651
Japan	\$'000	3 611	1 248	1 398	2 257	1 396	903	1 002
United States	\$'000	1 497	531	0	205	54	49	0
Other	\$'000	2 442	1 743	2 546	1 029	1 565	90	2 829
Total	\$'000	439 575	489 351	463 365	400 864	461 701	399 682	369 271

a Product weight. **b** Fresh, chilled or frozen. **c** Live, fresh or chilled, frozen or cooked.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

98 Australian imports of rock lobster, by source

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity ^a								
Cuba	t	31	64	174	81	55	23	51
Malaysia	t	14	17	17	23	22	18	25
New Zealand	t	1	0	1	0	0	8	0
Papua New Guinea	t	79	79	86	99	73	84	88
Thailand	t	118	215	155	175	69	82	43
United States	t	17	0	39	23	14	157	285
Vietnam	t	3	3	10	138	53	142	163
Other	t	207	190	152	254	142	143	166
Total	t	469	568	634	792	429	658	822
Value								
Cuba	\$'000	576	1 273	3 952	2 112	1 595	452	1 470
Malaysia	\$'000	134	185	149	251	270	212	245
New Zealand	\$'000	32	1	39	0	12	268	0
Papua New Guinea	\$'000	2 816	2 590	3 727	4 205	2 829	2 534	2 745
Thailand	\$'000	1 514	3 197	2 285	2 349	1 132	1 240	579
United States	\$'000	359	0	913	594	319	2 538	4 837
Vietnam	\$'000	35	41	127	712	985	1 823	2 359
Other	\$'000	2 666	2 962	2 027	3 896	2 066	2 096	2 034
Total	\$'000	8 132	10 249	13 218	14 120	9 208	11 163	14 268

^a Product weight.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

99 Australian exports and imports of abalone, by product type and country

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Exports								
Quantity ^a								
Fresh, chilled or frozen	t	2 032	2 133	2 241	2 148	2 139	2 189	2 065
China	t	296	609	271	111	210	497	695
Chinese Taipei	t	85	63	44	34	31	21	27
Hong Kong, China	t	1 229	1 019	1 492	1 545	1 604	1 411	1 012
Japan	t	394	404	391	381	258	225	282
United States	t	5	6	10	15	10	7	13
Other	t	23	31	33	63	25	27	37
Prepared or preserved	t	1 972	1 532	1 670	1 432	1 181	1 449	1 359
Chinese Taipei	t	227	153	134	66	43	58	60
Hong Kong, China	t	949	609	883	732	593	701	644
Japan	t	402	404	229	183	127	170	122
Singapore	t	311	249	324	339	321	407	399
United States	t	31	37	39	41	27	27	37
Other	t	52	80	61	70	70	86	97
Total	t	4 004	3 665	3 911	3 580	3 320	3 639	3 424
Value								
Fresh, chilled or frozen	\$'000	123 856	131 533	139 041	124 187	118 896	133 282	120 311
China	\$'000	16 033	34 493	14 255	5 736	10 512	28 135	36 707
Chinese Taipei	\$'000	4 096	3 153	2 301	1 483	1 457	914	1 208
Hong Kong, China	\$'000	76 529	66 780	94 240	89 809	88 393	89 072	64 798
Japan	\$'000	24 250	23 766	24 057	21 978	15 278	12 466	14 369
United States	\$'000	502	617	1 019	1 482	959	508	741
Other	\$'000	2 447	2 724	3 169	3 700	2 298	2 188	2 489
Prepared or preserved	\$'000	139 294	114 094	106 987	93 031	89 289	83 091	91 725
Chinese Taipei	\$'000	12 806	10 553	7 836	3 971	3 252	3 300	3 878
Hong Kong, China	\$'000	70 010	46 392	54 819	49 462	47 224	42 518	46 287
Japan	\$'000	27 462	29 876	16 546	12 096	8 683	9 265	8 230
Singapore	\$'000	22 475	18 768	20 861	20 309	22 610	20 809	23 846
United States	\$'000	2 381	3 056	3 174	2 608	2 072	1 591	2 228
Other	\$'000	4 160	5 449	3 750	4 585	5 448	5 608	7 257
Total	\$'000	263 150	245 627	246 028	217 218	208 185	216 373	212 036
Imports ^a								
Quantity								
Live, fresh or chilled	t	0	0	0	0	0	0	0
New Zealand	t	0	0	0	0	0	0	0
Other	t	0	0	0	0	0	0	0
Frozen or preserved	t	6	14	15	7	17	6	13
Japan	t	0	0	0	0	0	0	0
New Zealand	t	0	0	0	0	4	3	1
Philippines	t	0	2	0	0	0	0	0
Other	t	6	12	15	7	13	3	12
Total	t	6	14	15	7	17	6	13
Value								
Live, fresh or chilled	\$'000	0	0	0	0	0	0	0
New Zealand	\$'000	0	0	0	0	0	0	0
Other	\$'000	0	0	0	0	0	0	0
Frozen or preserved	\$'000	149	252	508	120	867	111	529
Japan	\$'000	0	0	0	4	0	0	5
New Zealand	\$'000	3	0	0	9	257	13	59
Philippines	\$'000	0	9	0	0	0	0	0
Other	\$'000	146	244	508	108	610	98	465
Total	\$'000	149	252	508	120	867	111	529

^a Product weight.Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

100 Australian exports and imports of scallops, by product type and country

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Exports									
Quantity ^a									
Fresh, chilled or frozen	t	1 460	1 208	1 484	1 401	1 127	1 137	1 087	556
China	t	0	0	28	24	26	26	10	0
France	t	0	156	305	187	0	0	0	0
Hong Kong, China	t	1 096	727	764	799	736	730	667	290
Malaysia	t	54	33	61	47	86	70	69	47
Singapore	t	249	181	260	274	254	284	292	186
United States	t	1	1	1	0	0	0	15	0
Other	t	58	110	65	69	25	26	34	33
Other	t	4	0	0	0	0	0	2	11
Hong Kong, China	t	3	0	0	0	0	0	0	0
Other	t	1	0	0	0	0	0	2	11
Total	t	1 464	1 209	1 485	1 401	1 128	1 137	1 089	567
Value									
Fresh, chilled or frozen	\$'000	34 789	32 560	38 748	35 414	27 809	33 252	29 499	15 345
China	\$'000	0	0	769	445	611	627	143	2
France	\$'000	0	2 704	6 462	4 551	0	0	0	0
Hong Kong, China	\$'000	26 109	21 971	21 241	21 042	18 461	21 796	18 644	8 540
Malaysia	\$'000	1 287	949	1 563	1 130	1 909	1 927	1 608	1 170
Singapore	\$'000	5 715	5 232	7 314	7 278	6 225	8 360	8 108	5 211
United States	\$'000	74	38	19	11	11	10	260	6
Other	\$'000	1 603	1 666	1 380	956	591	533	735	416
Other	\$'000	126	6	25	3	29	1	10	77
Hong Kong, China	\$'000	93	5	24	0	0	0	0	0
Other	\$'000	34	0	1	3	29	1	10	77
Total	\$'000	34 916	32 566	38 773	35 417	27 838	33 254	29 508	15 423
Imports									
Quantity ^a									
Fresh, chilled or frozen									
China	t	928	1 398	1 355	1 583	1 114	1 071	1 291	1 387
Indonesia	t	14	8	19	194	5	7	12	1
Japan	t	664	391	523	337	720	649	662	508
New Zealand	t	1	1	1	1	1	28	1	2
Peru	t	37	0	6	7	30	47	183	110
Thailand	t	408	310	257	365	293	197	395	165
Vietnam	t	7	20	43	32	14	29	36	42
Other	t	53	29	87	243	144	133	285	190
Total	t	2 104	2 297	2 421	2 665	2 460	2 170	2 810	2 594
Value									
Fresh, chilled or frozen									
China	\$'000	8 823	15 250	16 201	16 442	11 195	13 447	14 466	16 482
Indonesia	\$'000	100	41	145	943	9	59	74	6
Japan	\$'000	7 557	6 027	7 780	4 795	9 766	10 103	9 472	8 120
New Zealand	\$'000	20	7	5	26	28	550	16	21
Peru	\$'000	316	1	41	37	263	386	1 334	1 149
Thailand	\$'000	4 547	3 490	2 860	4 695	2 796	2 258	3 497	1 287
Vietnam	\$'000	49	144	401	366	141	302	453	571
Other	\$'000	441	324	980	1 639	2 252	2 286	3 247	2 757
Total	\$'000	22 027	27 458	30 756	29 814	28 081	29 889	33 542	34 476

^a Product weight.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

101 Australian exports of fish, by product type and destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity ^a								
Live fish	t	na	na	na	na	na	na	na
Whole	t	20 406	18 534	18 489	18 413	21 829	17 710	18 692
China	t	1 734	672	743	640	1 339	639	1 975
Chinese Taipei	t	35	9	255	242	1 084	421	639
Germany	t	101	41	96	77	99	132	137
Japan	t	11 162	11 134	9 471	12 246	11 472	10 118	9 036
Saudi Arabia	t	134	75	37	0	0	133	115
Singapore	t	257	99	118	133	764	403	739
Thailand	t	2 077	1 635	1 866	826	1 268	1 520	1 691
United States	t	1 009	964	959	629	891	834	605
Other	t	3 896	3 906	4 944	3 620	4 913	3 510	3 755
Fillets	t	2 537	2 023	1 757	1 016	497	1 025	1 454
Japan	t	194	155	463	32	5	65	13
Thailand	t	140	1	31	8	1	39	119
United States	t	775	402	161	18	151	288	189
Other	t	1 427	1 466	1 102	957	340	632	1 133
Smoked, dried or salted	t	164	135	229	176	190	175	191
Prepared and preserved	t	1 234	1 204	1 291	1 972	2 400	659	620
Other	t	1 591	1 364	1 184	838	790	1 201	968
Chinese Taipei	t	139	105	58	56	71	113	112
Japan	t	380	86	89	115	94	49	49
New Zealand	t	74	129	179	32	47	649	129
Other	t	998	1 043	859	634	578	389	679
Total	t	25 931	23 260	22 949	22 414	25 707	20 769	21 926
Value								
Live fish	\$'000	34 946	40 078	40 825	42 827	46 483	40 435	33 372
Whole	\$'000	209 555	208 048	194 718	238 924	246 880	173 562	212 088
China	\$'000	4 378	1 498	1 871	1 885	5 956	2 423	13 547
Chinese Taipei	\$'000	305	156	1 446	1 217	7 161	2 613	4 811
Germany	\$'000	600	354	879	832	1 264	1 612	1 506
Japan	\$'000	172 045	178 452	156 577	207 564	185 032	128 552	146 704
Saudi Arabia	\$'000	139	78	45	0	2	226	174
Singapore	\$'000	1 253	728	1 165	1 677	4 198	2 969	6 152
Thailand	\$'000	4 729	3 725	4 819	2 459	4 006	5 287	7 123
United States	\$'000	10 794	10 268	9 046	5 919	9 531	9 224	6 310
Other	\$'000	15 311	12 789	18 869	17 370	29 728	20 656	25 762
Fillets	\$'000	18 612	14 637	12 814	5 695	4 820	10 298	10 174
Japan	\$'000	1 318	878	4 495	317	125	446	194
Thailand	\$'000	268	7	418	165	24	630	671
United States	\$'000	11 306	6 121	2 083	182	1 984	3 188	1 521
Other	\$'000	5 720	7 631	5 818	5 031	2 687	6 034	7 788
Smoked, dried or salted	\$'000	20 047	13 687	15 305	16 641	17 211	13 055	18 502
Prepared and preserved	\$'000	6 587	6 797	6 300	12 560	9 785	5 558	5 462
Other	\$'000	14 627	11 515	10 435	8 149	8 812	15 488	7 752
Chinese Taipei	\$'000	4 167	2 743	1 417	903	1 365	1 490	2 110
Japan	\$'000	4 971	2 611	2 826	2 557	3 663	1 896	2 009
New Zealand	\$'000	372	766	745	267	387	9 204	679
Other	\$'000	5 117	5 395	5 448	4 421	3 396	2 899	2 955
Total	\$'000	304 375	294 762	280 398	324 795	333 992	258 396	287 351

^a Product weight. na Not available.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

102 Australian imports of fish, by product type and source

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity ^a								
Live	t	na	na	na	na	na	na	na
Fresh, chilled or frozen	t	59 847	59 724	59 772	61 914	57 292	61 492	62 421
Whole	t	21 368	18 157	16 614	17 905	15 823	17 595	16 485
New Zealand	t	9 563	8 543	9 132	10 457	10 505	9 896	9 252
Fillets	t	38 479	41 567	43 157	44 009	41 468	43 897	45 936
Chile	t	1 192	835	241	111	443	105	46
New Zealand	t	8 444	8 628	9 811	10 252	9 688	10 007	11 325
South Africa	t	3 989	2 625	3 023	2 446	2 444	3 372	3 025
Uganda	t	803	621	778	289	146	137	69
Smoked, dried or salted	t	2 957	3 074	4 219	3 755	3 690	3 553	3 574
South Africa	t	823	846	1 130	960	774	596	864
Denmark	t	936	923	1 170	920	1 124	1 059	816
Thailand	t	29	21	56	56	62	121	114
Prepared and preserved	t	53 443	52 687	52 156	53 557	54 132	54 135	60 437
Canada	t	3 784	4 206	3 204	2 213	1 840	2 066	2 133
Thailand	t	38 872	36 952	36 373	39 326	40 442	41 727	47 814
United States	t	5 037	4 687	6 151	5 070	5 872	4 334	4 314
Other fish preparations	t	14 508	13 721	17 497	17 852	18 445	21 219	20 735
Japan	t	348	222	130	166	214	211	268
New Zealand	t	3 598	3 229	5 592	4 615	5 030	6 223	5 665
Thailand	t	5 462	4 524	4 818	5 630	5 697	6 143	5 604
Total	t	130 756	129 207	133 644	137 079	133 558	140 399	147 168
Value								
Live	\$'000	5	1	4	0	0	18	0
Fresh, chilled or frozen	\$'000	262 302	272 718	316 572	325 012	336 897	342 112	336 872
Whole	\$'000	72 742	71 421	81 424	90 255	90 700	101 425	97 563
New Zealand	\$'000	43 948	45 441	54 512	63 021	65 332	67 512	65 801
Fillets	\$'000	189 560	201 297	235 148	234 758	246 197	240 687	239 309
Chile	\$'000	3 330	2 352	809	247	1 153	275	127
New Zealand	\$'000	51 018	51 052	62 097	66 586	64 321	66 451	69 702
South Africa	\$'000	20 983	14 536	17 938	14 644	15 933	22 386	18 495
Uganda	\$'000	3 488	3 387	4 606	1 407	843	925	392
Smoked, dried or salted	\$'000	34 053	36 191	53 076	45 056	49 971	45 980	42 592
South Africa	\$'000	4 227	4 448	5 766	5 288	4 313	3 263	5 036
Denmark	\$'000	16 769	17 003	24 142	17 353	23 039	19 854	15 409
Thailand	\$'000	196	178	337	317	454	922	747
Prepared and preserved	\$'000	188 745	228 710	243 766	257 466	331 171	257 484	287 371
Canada	\$'000	19 135	23 280	19 206	12 568	11 089	11 023	12 996
Thailand	\$'000	111 617	143 119	150 631	177 728	235 443	178 715	210 921
United States	\$'000	21 322	21 577	31 946	23 486	40 111	26 180	25 202
Other fish preparations	\$'000	62 181	64 451	87 632	87 467	106 578	105 867	102 253
Japan	\$'000	3 002	1 860	1 452	1 682	2 712	2 504	2 784
New Zealand	\$'000	17 345	15 945	28 780	24 654	30 222	34 351	30 626
Thailand	\$'000	15 814	14 352	15 375	17 186	23 510	21 074	18 961
Total	\$'000	547 285	602 070	701 050	715 002	824 617	751 461	769 089

^a Product weight. na Not available.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

103 Australian exports and imports of oysters, by country

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Exports									
Quantity ^a									
China	t	0	0	1	3	0	4	56	70
Chinese Taipei	t	0	1	1	0	0	0	0	1
Hong Kong, China	t	81	103	101	178	134	148	127	191
Japan	t	26	58	63	45	29	70	38	58
Singapore	t	6	5	9	4	48	105	77	63
Other	t	5	7	13	19	16	20	22	6
Total	t	119	174	187	249	228	346	320	389
Value									
China	\$'000	0	0	12	27	3	37	609	680
Chinese Taipei	\$'000	3	8	9	0	0	3	1	5
Hong Kong, China	\$'000	692	870	784	1 560	1 182	1 480	1 189	1 875
Japan	\$'000	326	719	777	521	400	824	514	688
Singapore	\$'000	106	82	86	35	433	775	629	530
Other	\$'000	55	66	115	151	115	159	197	54
Total	\$'000	1 182	1 746	1 783	2 294	2 133	3 278	3 138	3 832
Imports									
Quantity ^a									
China	t	4	8	1	7	5	19	18	34
Hong Kong, China	t	1	1	2	1	0	1	2	0
Japan	t	41	11	0	0	2	1	3	0
Korea, Rep. of	t	28	15	0	2	0	0	10	1
New Zealand	t	674	872	673	827	717	790	791	532
Other	t	1	3	1	0	1	0	2	6
Total	t	749	910	678	837	726	811	826	573
Value									
China	\$'000	105	72	17	87	48	94	118	154
Hong Kong, China	\$'000	31	32	65	16	13	52	52	19
Japan	\$'000	440	113	1	0	46	27	32	0
Korea, Rep. of	\$'000	221	106	1	12	0	1	76	4
New Zealand	\$'000	5 981	6 631	5 710	6 725	7 128	8 675	8 399	5 499
Other	\$'000	19	21	13	0	35	18	19	87
Total	\$'000	6 797	6 975	5 808	6 841	7 270	8 867	8 696	5 763

^a Product weight.Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

104 Summary statistics for the Australian processed food industry

	Employment at 30 June a		Wages and salaries b		Sales and service income c		Industry value added	
	2005-06 '000	2006-07 '000	2005-06 \$m	2006-07 \$m	2005-06 \$m	2006-07 \$m	2005-06 \$m	2006-07 \$m
Meat								
Meat processing	31	31	1 141	1 358	11 491	12 221	1 649	1 973
Poultry processing	18	18	825	822	3 897	4 123	1 247	1 132
Bacon, ham and smallgoods	9	10	333	417	2 448	2 593	436	593
Total	57	59	2 299	2 597	17 836	18 937	3 332	3 698
Dairy								
Milk and cream processing	8	7	373	411	3 710	4 350	771	820
Ice cream	1	1	22	40	174	297	52	64
Other dairy products	10	10	626	640	6 107	6 866	1 061	1 076
Total	19	19	1 021	1 091	9 991	11 513	1 884	1 960
Fruit and vegetables	13	14	612	599	4 672	4 325	1 165	1 056
Oil and fat	2	2	102	119	1 547	1 794	238	264
Flour mill and cereal food								
Flour mill products	2	3	121	197	1 418	2 501	282	463
Cereal food and baking mixes	6	4	318	241	2 274	1 565	660	461
Total	8	8	439	438	3 692	4 066	942	924
Bakery products								
Bread	10	12	455	430	1 917	2 189	757	728
Cakes and pastry products	8	9	251	304	1 134	1 288	372	399
Biscuits	5	5	219	227	954	987	419	424
Total	23	65	925	1 657	4 005	4 464	1 548	2 662
Other food								
Sugar	5	5	261	277	2 359	2 811	518	496
Confectionery	10	12	649	743	4 097	4 570	1 494	1 529
Seafood	4	3	125	120	1 330	1 396	224	130
Prepared animal and bird feed	4	0	241	0	2 700	0	481	0
Food nec	20	21	841	1 001	5 854	8 536	1 474	1 737
Total	44	40	2 117	2 141	16 340	17 313	4 191	3 892
Beverage and malt								
Soft drink, cordial and syrup	9	9	444	464	3 804	4 393	1 289	1 526
Beer and malt	4	4	314	261	3 845	3 891	1 544	1 495
Wine	16	18	751	803	5 640	6 297	1 362	1 512
Spirits	na	na	na	na	na	na	na	na
Total d	29	31	1 509	1 528	13 289	14 581	4 195	4 533
Total food and beverages d	193	238	9 024	10 170	71 372	76 993	17 495	18 989

a Includes working proprietors. **b** Excludes drawings of working proprietors. **c** Previously turnover. **d** Excludes spirits. **na** Not available. **nec** Not elsewhere classified.

105 Value of Australian food exports, by level of transformation

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	602	594	668	752	761	924	924	873
Fish or shellfish	677	584	657	632	647	747	650	667
Horticulture								
Vegetables	161	155	149	147	137	152	150	166
Fruit and nuts	407	462	482	451	433	563	472	368
Total	568	617	631	598	571	716	622	534
Grains a	4 655	4 672	4 305	3 329	4 221	6 383	4 632	6 756
Oilseeds	550	492	412	167	346	644	657	962
Food nec	46	46	49	54	41	49	43	50
Substantially transformed								
Meat								
Meat processing	5 723	6 902	6 673	7 048	6 506	7 411	6 313	6 887
Poultry processing	20	20	21	26	32	43	36	38
Bacon, ham and smallgoods	84	107	91	43	33	47	54	57
Total	5 827	7 029	6 785	7 117	6 571	7 501	6 403	6 983
Seafood	660	689	606	548	440	417	357	350
Dairy								
Milk and cream processing	1 076	1 108	1 210	1 089	1 258	1 354	880	1 107
Ice cream	35	42	41	42	37	31	31	33
Other dairy products	1 176	1 335	1 318	1 307	1 467	1 293	1 155	1 184
Total	2 288	2 485	2 569	2 438	2 763	2 679	2 066	2 323
Fruit and vegetables	518	511	555	574	568	575	523	572
Oil and fat	147	151	150	169	239	303	289	293
Flour mill and cereal food								
Flour mill products	202	223	230	269	315	419	365	344
Cereal food and baking mixes	222	219	248	372	287	390	445	614
Total	424	441	478	642	602	809	811	958
Bakery products								
Bread, cakes and pastry products	18	18	26	27	26	25	26	22
Biscuits	106	114	107	111	118	127	135	134
Total	123	132	132	137	144	152	161	155
Other food								
Sugar a	1 000	1 127	1 503	1 551	1 035	1 374	1 924	1 420
Confectionery	271	259	208	215	237	269	260	252
Food nec	1 129	1 080	1 099	1 142	1 094	1 422	1 424	1 360
Total	2 400	2 467	2 809	2 907	2 366	3 065	3 607	3 031
Beverages and malt								
Soft drink, cordial and syrup	53	46	42	39	38	45	55	61
Beer and malt	282	241	218	273	335	447	406	318
Wine	2 497	2 721	2 768	2 894	2 700	2 493	2 188	2 009
Spirit	84	92	91	89	86	105	101	97
Total	2 915	3 100	3 120	3 294	3 159	3 091	2 750	2 485
Total food and beverages								
Minimally transformed	7 099	7 006	6 722	5 532	6 586	9 463	7 528	9 843
Substantially transformed	14 956	16 663	16 919	17 530	16 528	18 243	16 606	16 805
Elaborately transformed	347	341	286	297	324	350	362	346
Total	22 402	24 011	23 927	23 359	23 439	28 056	24 495	26 994

a Includes ABARES estimates where ABS confidentiality restrictions apply. **nec** Not elsewhere classified.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

106 Value of Australian food exports to selected regions

	Asia		European Union 27		NAFTA	
	2009-10	2010-11	2009-10	2010-11	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed						
Live animals except fish	536	354	0	0	4	1
Fish or shellfish	624	646	10	9	11	7
Horticulture						
Vegetables	80	90	17	23	0	1
Fruit and nuts	292	256	14	11	63	31
Total	372	345	31	34	64	31
Grains a	na	4 307	100	0	0	0
Oilseeds	455	144	140	791	14	6
Food nec	23	28	5	6	1	1
Substantially transformed						
Meat						
Meat processing	3 746	3 996	226	289	1 331	1 265
Poultry processing	17	16	0	0	0	0
Bacon, ham and smallgoods	44	46	0	0	0	0
Total	3 807	4 058	227	289	1 331	1 265
Seafood	267	271	10	10	42	31
Dairy						
Milk and cream processing	656	828	11	1	11	5
Ice cream	11	13	0	0	4	4
Other dairy products	812	864	23	14	76	54
Total	1 480	1 705	34	14	91	63
Fruit and vegetables	182	234	78	70	38	25
Oil and fat	163	188	27	15	14	11
Flour mill and cereal food						
Flour mill products	160	139	1	2	166	163
Cereal food and baking mixes	236	309	4	3	3	4
Total	396	448	5	4	170	167
Bakery products						
Bread, cakes and pastry products	5	7	0	0	0	0
Biscuits	16	16	4	5	11	9
Total	21	23	4	5	11	9
Other food						
Sugar a	1 552	1 754	0	0	68	101
Confectionery	92	87	7	4	12	11
Food nec	948	845	48	50	60	70
Total	2 593	2 686	55	54	139	182
Beverages and malt						
Soft drink, cordial and syrup	16	19	3	4	1	2
Beer and malt	371	284	0	0	0	0
Wine	353	423	868	728	830	731
Spirit	21	21	20	14	5	5
Total	761	747	891	745	836	739
Total food and beverage						
Minimally transformed	na	5 824	286	840	94	46
Substantially transformed	na	10 287	1 320	1 198	2 649	2 473
Elaborately transformed	83	72	10	8	22	19
Total	na	16 183	1 616	2 047	2 765	2 538

a Includes ABARES estimates where ABS confidentiality restrictions apply. **nec** Not elsewhere classified.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

107 Value of Australian food imports, by level of transformation

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	0	1	1	1	1	2	1	2
Fish or shellfish	46	46	47	57	65	67	72	73
Horticulture								
Vegetables	34	32	41	45	53	49	58	76
Fruit and nuts	140	159	191	194	216	225	262	245
Total	173	191	233	238	269	274	320	322
Grains	1	1	1	2	2	2	3	4
Oilseeds	50	25	20	78	49	49	36	36
Food nec	88	116	140	176	188	180	229	306
Substantially transformed								
Meat								
Meat processing	224	345	290	446	381	525	497	478
Poultry processing	0	0	0	0	0	0	0	0
Bacon, ham and smallgoods	40	41	43	42	50	68	82	90
Total	264	387	333	489	431	593	579	567
Seafood	868	928	998	1 151	1 095	1 249	1 201	1 231
Dairy								
Milk and cream processing	35	45	45	40	67	69	66	72
Ice cream	22	29	30	40	37	39	40	44
Other dairy products	272	310	357	401	552	522	510	578
Total	330	384	432	480	656	631	615	694
Fruit and vegetables	945	1 027	1 043	1 233	1 390	1 559	1 367	1 486
Oil and fat	373	376	417	481	489	578	485	517
Flour mill and cereal food								
Flour mill products	59	73	57	34	66	83	66	48
Cereal food and baking mixes	260	285	305	325	462	576	577	523
Total	319	358	362	358	527	659	643	572
Bakery products								
Bread, cakes and pastry products	117	120	138	163	175	197	191	222
Biscuits	160	177	199	254	267	297	305	338
Total	277	297	337	417	442	493	496	560
Other food								
Sugar	15	18	19	20	22	44	71	125
Confectionery	261	307	333	371	438	518	525	547
Food nec	963	1 038	1 075	1 186	1 270	1 492	1 450	1 525
Total	1 240	1 363	1 427	1 577	1 731	2 054	2 046	2 196
Beverages and malt								
Soft drink, cordial and syrup	502	537	571	656	697	791	798	818
Beer and malt	91	99	112	126	161	226	212	196
Wine	158	200	248	334	454	502	477	490
Spirit	354	390	414	465	491	530	538	544
Total	1 105	1 226	1 345	1 582	1 802	2 050	2 026	2 048
Total food and beverages								
Minimally transformed	359	379	441	551	574	574	661	742
Substantially transformed	5 504	6 119	6 435	7 430	8 167	9 437	9 024	9 425
Elaborately transformed	217	228	259	338	396	429	434	445
Total	6 080	6 725	7 135	8 319	9 138	10 441	10 119	10 613

nec Not elsewhere classified.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

108 Value of Australian food imports from selected regions

	Asia		European Union 27		NAFTA	
	2009-10	2010-11	2009-10	2010-11	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed						
Live animals except fish	0	0	0	0	0	0
Fish or shellfish	3	2	0	0	0	0
Horticulture						
Vegetables	24	30	4	3	12	16
Fruit and nuts	29	29	10	12	111	93
Total	53	59	14	15	124	109
Grains	1	1	0	0	0	0
Oilseeds	19	17	0	0	5	2
Food nec	82	99	4	4	6	7
Substantially transformed						
Meat						
Meat processing	0	0	215	157	255	287
Poultry processing	0	0	0	0	0	0
Bacon, ham and smallgoods	10	7	7	8	23	25
Total	10	7	222	165	278	313
Seafood	833	867	50	48	52	56
Dairy						
Milk and cream processing	3	3	1	2	1	1
Ice cream	12	9	9	15	5	6
Other dairy products	6	6	144	147	27	58
Total	22	18	154	164	32	65
Fruit and vegetables	429	486	288	282	186	197
Oil and fat	251	286	173	146	7	6
Flour mill and cereal food						
Flour mill products	39	27	12	6	7	7
Cereal food and baking mix	294	289	138	123	55	42
Total	333	315	149	129	62	49
Bakery products						
Bread, cakes and pastry products	71	77	50	64	6	15
Biscuits	111	122	75	84	7	17
Total	181	200	125	148	13	32
Other food						
Sugar	61	99	4	2	3	2
Confectionery	112	126	225	210	48	46
Food nec	605	632	318	328	148	145
Total	778	857	547	540	199	194
Beverages and malt						
Soft drink, cordial and syrup	39	368	565	262	31	28
Beer and malt	17	18	79	62	98	94
Wine	0	1	201	212	2	2
Spirit	11	13	305	297	165	176
Total	67	400	1 150	833	296	299
Total food and beverages						
Minimally transformed	158	179	19	20	134	118
Substantially transformed	2 787	3 306	2 714	2 311	1 112	1 190
Elaborately transformed	118	129	144	144	13	21
Total	3 063	3 613	2 877	2 475	1 259	1 329

nec Not elsewhere classified.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

109 Value of world food imports, by level of transformation a

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share b %
Minimally transformed						
Live animals except fish	12 525	14 311	15 482	16 858	15 909	1.8
Fish or shellfish						
Fish, live or fresh	37 180	42 198	46 765	50 572	47 130	5.3
Fish, dried, salted or smoked	3 482	3 842	4 489	4 770	4 480	0.5
Shellfish	21 701	23 362	24 353	24 971	22 396	2.8
Horticulture						
Vegetables	33 555	37 945	44 792	48 694	45 708	5.0
Fruit and nuts	51 792	56 367	64 723	74 248	69 783	7.5
Cocoa	9 805	10 000	12 153	15 230	15 929	1.5
Eggs, albumin	2 270	2 413	2 996	3 640	3 708	0.4
Grains and oilseeds						
Barley	3 894	3 899	5 948	8 654	4 623	0.6
Maize	12 785	14 258	22 720	29 336	19 997	2.3
Oilseeds, not soft oil	1 320	1 348	1 779	2 537	2 037	0.2
Oilseeds, soft oil	24 346	24 031	34 631	58 524	48 276	4.5
Rice	8 850	9 693	11 957	18 462	15 905	1.5
Wheat or meslin	18 743	21 470	32 120	45 688	30 550	3.5
Other cereal grains, nec	1 715	1 941	2 957	4 168	2 549	0.3
Substantially transformed						
Meat						
Beef, fresh, chilled or frozen	20 040	22 668	25 474	29 511	26 662	2.9
Meat, fresh, chilled or frozen	37 937	38 989	45 198	56 281	50 417	5.4
Meat or offal, preserved	2 488	2 805	3 673	4 034	3 890	0.4
Meat or offal, preserved, nec	10 180	11 281	13 117	15 474	14 554	1.5
Dairy						
Milk products, excluding butter and cheese	21 012	23 089	30 907	33 689	25 968	3.2
Butter and cheese	4 314	4 409	5 232	5 443	4 214	0.6
Cheese and curd	16 206	17 581	21 037	25 253	21 730	2.4
Fish or shellfish	13 973	15 370	16 940	19 399	17 642	2.0
Cereal products						
Flour or meal from wheat or meslin	1 597	1 700	2 416	3 745	3 120	0.3
Cereal flour or meal, nec	573	634	883	1 247	1 143	0.1
Cereal etc flour or starch	24 331	26 701	32 297	38 227	35 937	3.7
Horticulture						
Vegetables, prepared or preserved	15 058	16 663	19 831	21 933	21 168	2.2
Fruit, prepared or preserved	10 491	11 666	13 502	15 508	13 563	1.5
Fruit or vegetable juices	9 252	10 936	14 219	15 992	12 709	1.5
Sugar and confectionery						
Sugar, molasses and honey	18 972	23 160	23 727	25 458	25 297	2.8
Sugar confectionery	6 296	6 545	7 391	8 006	7 486	0.8
Chocolate and cocoa preparations	12 116	13 425	16 051	18 341	16 949	1.8

Continued

109 **Value of world food imports, by level of transformation a *continued***

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share b %
Animal and vegetable oil						
Margarine and shortening	2 171	2 468	3 284	4 473	3 684	0.4
Animal oil or fat	2 516	2 733	3 552	5 277	3 860	0.4
Vegetable oil or fat, fixed, soft	16 621	19 702	24 299	33 580	23 768	2.8
Vegetable oils, fixed, not soft	14 710	16 511	22 791	34 208	27 249	2.7
Animal or vegetable oils, processed	4 880	5 406	6 948	9 762	6 884	0.8
Other food						
Coffee and coffee substitutes	15 951	18 409	21 973	26 834	24 545	2.5
Tea and mate	3 798	4 176	4 631	5 721	5 266	0.6
Spices	3 018	3 245	4 058	4 758	4 431	0.5
Edible products, nec	32 598	36 341	42 830	49 897	48 118	5.0
Beverage						
Beverages, nonalcoholic, nec	10 035	11 717	14 304	15 510	14 054	1.6
Alcoholic beverages	46 257	51 071	60 249	65 169	56 929	6.6
Animal feed c	32 878	35 617	44 523	59 406	53 668	5.3
Total	654 232	722 096	873 201	1 058 487	923 889	100.0

a Based on over 100 reporting countries representing more than 90 per cent of world trade. **b** Average, 2005–2009. **c** Excludes unmilled cereal.

nec Not elsewhere classified.

Sources: United Nations Statistics Division; ABARES.

110 Value of world trade in processed foods, by major exporting countries a

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share b %
Meat						
Australia	5 236	5 351	5 495	6 060	5 206	6.0
Denmark	4 655	4 939	5 206	5 842	5 066	5.6
France	4 049	4 117	4 645	5 464	4 869	5.0
Netherlands	6 010	6 547	8 134	9 225	8 129	8.3
United States	6 700	7 313	9 141	12 614	11 585	10.3
Other	47 210	50 528	59 005	74 015	66 979	64.8
Total	73 859	78 796	91 627	113 221	101 834	100.0
Dairy						
Australia	1 859	1 829	2 021	2 233	1 675	3.5
France	5 378	5 574	6 893	7 833	6 647	11.8
Germany	6 795	6 993	9 050	9 944	8 042	15.0
Netherlands	4 648	4 856	5 936	7 045	5 571	10.3
New Zealand	3 662	4 046	5 550	6 589	5 063	9.1
Other	21 375	23 016	30 010	35 215	27 668	50.3
Total	43 717	46 312	59 459	68 859	54 665	100.0
Seafood						
Australia	77	72	75	76	55	0.4
China	3 177	4 216	4 490	4 917	3 419	22.5
Denmark	634	699	793	860	732	4.1
Korea, Rep. of	184	153	118	138	154	0.8
Thailand	2 497	2 994	3 168	3 875	3 719	18.1
Other	7 963	8 872	10 000	11 476	10 128	54.0
Total	14 532	17 005	18 643	21 341	18 207	100.0
Horticulture						
Australia	157	177	229	112	146	0.4
China	3 857	4 681	6 484	6 926	5 898	12.2
Italy	2 315	2 459	3 021	3 695	3 448	6.6
Netherlands	2 691	3 148	4 243	4 609	4 394	8.4
United States	2 710	3 042	3 416	4 059	3 908	7.5
Other	22 904	26 344	31 749	35 494	31 205	64.9
Total	34 634	39 851	49 142	54 894	48 998	100.0
Beverages c						
Australia	2 201	2 184	2 570	2 230	1 931	3.2
France	11 406	13 023	14 964	16 070	12 775	19.5
Germany	3 626	4 234	4 962	5 592	5 091	6.7
Italy	5 066	5 444	6 452	7 127	6 487	8.7
United Kingdom	6 360	6 858	8 193	8 428	7 667	10.7
Other	27 734	31 751	38 501	43 447	38 239	51.2
Total	56 394	63 494	75 642	82 894	72 190	100.0
Sugar and confectionery						
Australia	273	314	322	461	423	0.8
Belgium-Luxembourg	2 908	3 378	3 372	3 722	3 417	7.1
Brazil	4 275	6 513	5 433	5 874	8 753	13.1
France	2 583	2 888	3 112	3 305	3 171	6.4
Germany	3 562	3 935	4 473	5 205	5 142	9.4
Other	23 566	27 894	31 099	34 174	32 674	63.2
Total	37 166	44 923	47 812	52 742	53 580	100.0

Continued

110 Value of world trade in processed foods, major exporting countries *a continued*

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share b %
Animal and vegetable oil						
Argentina	3 307	3 896	5 517	7 087	4 506	7.8
Australia	350	338	454	623	503	0.7
Malaysia	6 701	7 729	11 801	17 759	12 823	18.2
Netherlands	2 345	2 932	3 974	6 725	4 851	6.7
United States	1 960	2 211	3 202	4 879	3 650	5.1
Other	25 671	29 611	38 980	56 070	41 776	61.5
Total	40 333	46 716	63 927	93 143	68 110	100.0
Animal feed d						
Argentina	4 032	4 660	6 197	7 798	8 625	14.8
Australia	584	642	624	943	991	1.8
Brazil	2 998	2 590	3 191	4 687	4 880	8.7
Netherlands	2 940	3 142	3 757	4 982	4 320	9.1
United States	4 203	4 701	5 720	7 897	8 039	14.5
Other	15 149	17 201	21 768	28 086	25 567	51.1
Total	29 906	32 936	41 256	54 393	52 421	100.0
Cereal products						
Australia	448	468	577	749	665	1.6
Belgium-Luxembourg	2 305	2 442	2 994	3 731	3 205	8.0
France	2 609	2 724	3 255	3 871	3 475	8.7
Germany	3 210	3 630	4 228	5 426	4 857	11.6
Italy	2 791	2 947	3 259	4 322	3 870	9.4
Other	16 710	18 442	22 764	27 856	25 647	60.7
Total	28 071	30 651	37 077	45 955	41 718	100.0
Other processed food						
Australia	330	328	349	480	502	0.6
Brazil	3 330	3 854	4 568	5 612	4 953	6.2
France	2 351	2 514	3 074	3 642	3 446	4.2
Netherlands	3 199	3 363	4 052	4 836	5 000	5.7
United States	4 752	5 347	5 567	6 346	6 287	7.9
Other	40 787	46 269	55 281	65 232	61 947	75.4
Total	54 749	61 676	72 891	86 148	82 135	100.0
All processed food						
Australia	11 514	11 702	12 716	13 966	12 096	2.3
France	32 747	35 818	41 891	47 317	40 757	7.4
Germany	34 731	38 582	45 541	55 430	50 036	8.3
Netherlands	27 645	30 844	38 388	46 231	40 460	6.8
United States	27 523	31 062	37 801	47 853	44 072	7.0
Other	279 202	314 353	381 141	462 794	406 438	68.3
Total	413 362	462 361	557 477	673 590	593 860	100.0

a Based on over 100 reporting countries representing more than 90 per cent of world trade. **b** Average, 2005-2009. **c** Alcoholic and non-alcoholic.

d Excludes unmilled cereal.

Sources: United Nations Statistics Division; ABARES.

111 Value of world trade in processed foods, by major importing countries ^a

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share ^b %
Meat						
Australia	279	287	393	417	455	0.4
Germany	6 096	6 407	7 070	8 396	7 620	8.2
Italy	4 847	5 516	5 937	6 460	5 960	6.6
Japan	9 746	8 415	8 761	10 382	9 591	10.8
United Kingdom	6 777	7 165	8 202	8 666	7 751	8.9
Other	42 902	47 952	57 099	70 978	64 145	65.1
Total	70 646	75 744	87 462	105 300	95 523	100.0
Dairy						
Australia	297	325	394	568	422	0.8
Belgium-Luxembourg	2 655	2 760	3 491	3 652	2 975	6.0
Germany	4 557	492	589	839	829	2.8
Italy	3 518	3 613	4 459	4 918	4 025	7.9
Netherlands	2 584	2 711	3 418	3 352	2 671	5.7
Other	27 923	35 179	44 826	51 056	40 988	76.9
Total	41 534	45 079	57 176	64 384	51 912	100.0
Seafood						
Australia	277	302	360	497	460	2.3
France	936	982	1 147	1 337	1 253	6.8
Japan	2 614	2 672	2 551	2 437	2 420	15.2
United Kingdom	990	1 063	1 286	1 499	1 225	7.3
United States	2 749	3 104	2 974	3 301	3 098	18.3
Other	6 407	7 246	8 622	10 327	9 186	50.2
Total	13 974	15 370	16 940	19 399	17 642	100.0
Horticulture						
Australia	501	592	717	735	616	1.4
France	2 881	3 170	3 859	4 487	4 200	8.4
Germany	4 509	4 910	5 471	6 071	5 272	11.8
Japan	3 019	3 169	3 395	3 383	3 176	7.3
United States	4 758	5 283	6 375	7 103	6 243	13.4
Other	19 133	22 142	27 734	31 654	27 934	57.8
Total	34 802	39 265	47 552	53 433	47 440	100.0
Beverages ^c						
Australia	649	789	1 002	1 247	1 165	1.4
Germany	4 599	5 024	5 527	6 105	5 539	7.8
Japan	2 231	2 461	2 543	2 647	2 320	3.5
United Kingdom	6 763	6 952	8 074	8 046	6 919	10.6
United States	13 356	15 336	16 779	16 580	14 764	22.2
Other	28 703	32 228	40 629	46 055	40 275	54.4
Total	56 302	62 788	74 553	80 679	70 983	100.0
Sugar and confectionery						
Australia	293	304	408	489	529	0.9
France	2 063	2 168	2 762	3 072	2 737	5.6
Germany	2 657	2 729	3 129	3 725	3 336	6.8
United Kingdom	2 822	2 884	3 334	3 602	3 300	7.0
United States	3 943	4 640	4 206	4 736	4 704	9.7
Other	25 627	30 406	33 331	36 181	35 126	70.1
Total	37 404	43 130	47 169	51 805	49 733	100.0

Continued

	2005 US\$m	2006 US\$m	2007 US\$m	2008 US\$m	2009 US\$m	Share ^b %
Animal and vegetable oil						
Australia	234	303	465	705	528	0.7
Germany	2 520	3 648	4 194	5 140	3 629	6.3
Italy	2 546	2 463	2 753	3 456	5 139	5.4
United Kingdom	1 314	1 599	1 967	2 799	1 859	3.2
United States	2 564	3 049	3 717	5 611	4 069	6.3
Other	31 728	35 757	47 778	69 588	50 220	78.0
Total	40 906	46 819	60 874	87 299	65 445	100.0
Animal feed ^d						
Australia	295	314	385	510	431	0.9
China	1 306	1 298	1 280	1 870	1 860	3.4
France	1 942	1 893	2 354	3 475	2 912	5.6
Germany	2 295	2 513	2 881	3 664	3 543	6.6
Japan	2 602	2 767	2 931	3 599	3 515	6.8
Other	24 459	26 833	34 692	46 287	41 406	76.8
Total	32 898	35 617	44 523	59 406	53 668	100.0
Cereal products						
Australia	332	344	375	445	452	1.1
France	2 037	2 125	2 564	3 230	2 926	7.4
Germany	2 121	2 211	2 446	2 993	2 739	7.2
United Kingdom	1 873	1 995	2 561	2 866	2 591	6.8
United States	3 181	3 541	3 959	4 458	4 333	11.2
Other	16 967	18 819	23 692	29 227	27 159	66.4
Total	26 511	29 035	35 596	43 220	40 201	100.0
Other processed food						
Australia	1 166	1 237	1 498	1 656	1 722	2.0
France	2 666	2 988	3 619	4 253	4 183	4.9
Germany	4 934	5 630	6 429	7 688	7 195	8.8
Japan	3 210	3 142	3 221	3 596	3 381	4.6
United States	6 567	7 283	8 045	9 000	8 439	10.9
Other	36 840	41 891	50 680	61 017	57 442	68.7
Total	55 382	62 171	73 492	87 210	82 361	100.0
All processed food						
Australia	4 321	4 795	5 996	7 270	6 781	1.1
Germany	34 820	39 069	44 555	51 473	44 753	8.1
Japan	27 275	26 646	28 073	31 512	28 935	5.4
United Kingdom	30 821	32 849	38 660	42 684	37 335	6.9
United States	45 471	50 153	54 395	59 147	53 238	9.9
Other	267 650	301 506	373 656	460 049	403 865	68.5
Total	410 358	455 018	545 335	652 136	574 907	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 2005–2009. ^c Alcoholic and nonalcoholic.
^d Excludes unmilled cereal.

Sources: United Nations Statistics Division.

112 Summary of Australian statistics for roundwood

	Logs harvested ^a			Imports ^b	Exports ^b	Apparent consumption	Apparent consumption per person
	Broadleaved	Coniferous	Total				
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	m ³
1966-67	9 144	2 183	11 327	4 110	414	15 023	1.27
1967-68	9 187	2 238	11 425	4 396	301	15 520	1.29
1968-69	8 987	2 344	11 331	4 624	342	15 613	1.27
1969-70	9 106	2 415	11 521	4 904	406	16 019	1.28
1970-71	9 256	2 555	11 811	4 999	435	16 375	1.25
1971-72	8 988	2 673	11 661	4 603	465	15 799	1.19
1972-73	9 778	2 808	12 586	5 937	2 110	16 413	1.22
1973-74	11 063	2 636	13 699	4 896	2 860	15 735	1.15
1974-75	10 921	2 850	13 771	5 404	3 145	16 030	1.15
1975-76	9 995	2 877	12 872	4 752	2 798	14 826	1.06
1976-77	11 331	3 078	14 409	5 558	3 831	16 136	1.14
1977-78	11 259	3 282	14 541	4 690	3 670	15 561	1.08
1978-79	10 595	3 381	13 976	5 478	4 156	15 298	1.05
1979-80	11 720	3 866	15 586	5 667	5 185	16 068	1.09
1980-81	11 464	4 447	15 911	6 019	4 568	17 362	1.16
1981-82	10 348	4 524	14 872	6 403	4 245	17 030	1.12
1982-83	9 217	4 442	13 659	4 694	4 206	14 147	0.92
1983-84	10 537	4 689	15 226	5 856	4 586	16 496	1.06
1984-85	10 919	5 768	16 687	7 195	4 626	19 256	1.22
1985-86	10 949	5 958	16 907	6 943	4 836	19 014	1.19
1986-87	11 222	5 516	16 738	6 333	5 845	17 226	1.06
1987-88	11 162	5 686	16 848	7 894	5 654	19 088	1.15
1988-89	11 475	6 153	17 628	8 069	5 093	20 604	1.23
1989-90	10 534	7 030	17 564	7 947	5 266	20 245	1.19
1990-91	10 037	6 553	16 590	6 836	5 522	17 904	1.04
1991-92	9 512	7 141	16 653	7 351	5 748	18 256	1.04
1992-93	9 801	7 866	17 667	7 697	6 106	19 258	1.09
1993-94	9 793	8 969	18 762	7 681	6 689	19 754	1.11
1994-95	10 857	8 703	19 560	8 915	7 976	20 499	1.13
1995-96	9 920	9 305	19 225	6 918	7 384	18 759	1.02
1996-97	9 437	10 640	20 077	7 502	8 462	19 117	1.03
1997-98	10 143	11 016	21 158	8 036	10 238	18 957	1.01
1998-99	9 878	10 960	20 838	8 116	10 013	18 941	1.00
1999-00	11 933	12 475	24 408	9 572	12 214	21 765	1.14
2000-01	11 777	12 697	24 474	8 474	13 176	19 772	1.02
2001-02	10 943	13 356	24 299	8 440	13 692	19 047	0.97
2002-03	11 908	13 911	25 819	9 246	14 911	20 154	1.01
2003-04	11 909	14 589	26 498	10 126	14 953	21 671	1.08
2004-05	12 803	14 196	26 998	10 563	15 271	22 291	1.09
2005-06	12 355	14 379	26 734	10 050	15 109	21 674	1.05
2006-07	12 602	14 590	27 192	10 377	16 635	20 934	0.99
2007-08	13 211	15 157	28 368	11 191	16 610	22 949	1.07
2008-09	12 485	13 314	25 799	9 792	15 108	20 483	0.93
2009-10	11 181	14 436	25 616	10 371	15 136	20 852	0.93
2010-11	na	na	na	11 278	16 285	na	na

^a Gross roundwood equivalent (GRWE) of industrial log removals. Excludes log removals for firewood. ^b Estimated GRWE of forest products, including sawnwood, wood based panels, pulp, paper and paperboard, and woodchips. **na** Not available.

Sources: ABARES; ABS, *International trade, Australia*, cat. no. 5465.0, Canberra; Forestry and Timber Bureau, Department of National Development, *Compendium of Australian Forest Products Statistics: 1935-36 to 1967*, Canberra.

113 Land areas, by vegetation cover ^a

	NSW	Vic.	Qld	WA	SA	Tas.	NT	ACT	Aust.
	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha
Closed forest	505	242	2 100	141	4	611	666	0	4 270
(% of land area)	0.63	1.06	1.21	0.06	0.00	8.93	0.49	0.00	0.56
Open forest	19 223	4 419	9 310	2 393	357	894	7 439	86	44 120
(% of land area)	24.01	19.43	5.38	0.95	0.36	13.07	5.51	35.38	5.74
Woodland forest	6 480	3 177	41 172	15 130	8 494	1 610	22 905	37	99 007
(% of land area)	8.09	13.97	23.79	5.98	8.64	23.54	16.98	15.22	12.87
Plantation ^b	391	431	231	413	188	309	38	8	2 009
(% of land area)	0.49	1.89	0.13	0.16	0.19	4.52	0.03	3.16	0.26
Total forest									
vegetation cover	26 599	8 269	52 813	18 077	9 043	3 424	31 048	131	149 406
(% of land area)	33.22	36.36	30.52	7.15	9.20	50.06	23.01	53.75	19.42
Total land area	80 064	22 742	173 065	252 988	98 348	6 840	134 913	243	769 202

^a The increasing availability of high-resolution, remote sensing data and better methods for determining forest continue to improve estimates of Australia's forest cover. This largely explains the change in estimated total forest area from 164 million hectares in 2003 to 149 million hectares reported here; little of the change is because of real forest loss. For a full explanation see *Australia's State of the Forests Report 2008* (Montreal Process Implementation Group for Australia). ^b As at June 2010.

Sources: Native forest: *Australia's State of the Forests Report 2008*, Montreal Process Implementation Group for Australia; National Forest Inventory, BRS, Canberra. Plantation: Gavran, M and Parsons, M, *Australian plantation statistics 2011*, ABARES, Canberra.

114 Australian prices of selected forest products

	Timber, board and joinery c	Used in manufacturing a		Produced by manufacturers b		Hardwood chips f	Softwood chips f
		Log sawmilling d	Pulp and paper products e	Log sawmilling d	Paper and paper products e		
	index	index	index	index	index	\$/bdt	\$/bdt
1980-81	50.3	na	na	51.4	58.5	na	na
1981-82	54.1	na	na	56.1	65.0	na	na
1982-83	57.7	na	na	60.5	71.1	na	na
1983-84	63.0	na	na	65.4	70.3	na	na
1984-85	70.1	na	na	71.5	73.0	na	na
1985-86	75.7	na	na	76.6	77.2	na	na
1986-87	79.2	na	na	79.4	84.5	na	na
1987-88	84.0	na	na	82.6	92.9	na	na
1988-89	93.4	na	na	92.1	96.9	144.00	101.83
1989-90	100.0	na	na	100.0	100.0	147.03	115.34
1990-91	101.9	na	na	104.3	103.3	147.89	126.74
1991-92	100.1	na	na	105.0	105.0	150.90	149.32
1992-93	103.8	na	na	112.6	105.1	148.34	149.22
1993-94	115.6	na	na	124.2	103.4	149.90	137.75
1994-95	118.8	na	na	131.9	111.0	152.76	140.65
1995-96	116.4	na	na	131.9	124.8	160.46	167.50
1996-97	116.2	127.4	91.4	130.5	108.6	161.98	138.58
1997-98	118.8	147.1	95.5	132.3	101.9	151.58	144.16
1998-99	120.6	145.6	101.6	135.3	105.4	152.02	147.52
1999-00	127.1	158.1	102.8	144.7	106.4	140.36	137.00
2000-01	133.3	196.5	117.0	152.2	113.0	146.27	158.39
2001-02	134.6	206.3	114.5	154.8	112.7	149.34	157.57
2002-03	138.1	152.6	104.9	162.3	114.2	150.81	138.71
2003-04	141.7	131.8	96.0	174.1	108.6	156.93	128.15
2004-05	144.1	142.5	91.6	183.0	104.6	158.40	132.56
2005-06	144.5	154.2	92.7	188.4	104.4	160.53	138.35
2006-07	146.5	166.0	95.5	206.1	106.8	162.87	144.97
2007-08	153.5	169.2	91.9	215.6	106.5	175.80	165.40
2008-09	160.1	226.3	96.6	229.7	108.4	188.17	196.43
2009-10	160.9	215.0	90.7	229.1	120.3	181.01	161.53
2010-11	164.3	217.4	89.6	232.6	127.9	179.04	150.73

a Price indexes of materials used in manufacturing industry; base 1989-90 = 100. **b** Price indexes of articles produced by manufacturing industries; base 1989-90 = 100. **c** Price index of materials used in house building; base 1989-90 = 100. **d** Includes log sawmilling and timber dressing. **e** Includes converted paper products. **f** Average unit fob value of Australian exports in bone dry tonnes. **na** Not available.

Sources: ABS, *Price Index of Materials Used in Building Other Than House Building*, *Eight Capital Cities*, cat. no. 6407.0, Canberra; ABS, *Producer Price Index*, cat. no. 6427.0, Canberra; ABARES.

115 Sales and service income of turnover in forest product industries ^a

	2004-05	2005-06	2006-07 ^b	2007-08	2008-09	2009-10
	\$m	\$m	\$m	\$m	\$m	\$m
ANZSIC 2006 group and class ^b						
Forestry ^c	na	na	2 813	3 254	3 189	3 567
Wood and wood products						
Log sawmilling and timber dressing						
Log sawmilling	na	na	1 430	1 633 ^d	1 441	na
Wood chipping	na	na	825	883	875	na
Timber resawing and dressing	na	na	2 268	2 630	2 479	na
Total	na	na	4 523	5 145	4 795	na
Other wood product manufacturing						
Prefabricated wooden building	na	na	147 ^d	171 ^d	166 ^d	na
Wooden structural fitting						
and component	na	na	4 626	5 236 ^d	5 124	na
Veneer and plywood	na	na	414	477 ^d	442	na
Reconstituted wood product	na	na	1 111	1 118	1 085	na
Other wood products nec	na	na	767 ^d	952 ^d	888	na
Total	na	na	7 065 ^d	7 954 ^d	7 704	na
Total wood products	12 159 ^e	12 089 ^e	11 589	13 099	12 513 ^f	12 692
Paper and paper products						
Pulp, paper and paperboard	na	na	2 582	2 763	2 584	na
Corrugated paperboard and						
paperboard container	na	na	2 980	3 185	3 033	na
Paper bag	na	na	393 ^d	260	228	na
Paper stationary	na	na	1 090	1 165	682	na
Sanitary paper product	na	na	2 175	2 147	2 235	na
Other converted paper product	na	na	370	383	779	na
Total	9 557 ^e	9 555 ^e	9 589	9 904	9 542	9 657
Total forest product industries	21 716 ^e	21 644 ^e	21 178	23 003	22 055	22 349
Total manufacturing	320 323 ^e	338 136 ^e	371 155	390 579	410 430	381 165
Forest product industries						
% of total manufacturing	6.8	6.4	5.7	5.9	5.4	5.9

^a Sales and service income is defined as follows: sales of goods whether or not manufactured by the business. They are exclusive of goods and services tax (GST). See ABS publication *Explanatory Notes* for full details. ^b 2006-07 data is the first release of estimates using the 2006 edition of ANZSIC. Because of the combined effect of this new classification and methodological changes, new series have commenced with the 2006-07 data and are not directly comparable with previous years. See ABS publication *Explanatory Notes* for full details. ^c Excludes forestry support services which are included in the category total agriculture, forestry and fishing support services. ^d Estimate has a relative standard error of 10 per cent to less than 25 per cent and should be used with caution. ^e Data collected for 2004-05 and 2005-06 (under ANZSIC 1993) has been mapped to ANZSIC 2006 and methodological changes applied to provide 'bridging' series for key totals only. ^f Components do not add to total, as total only updated not components.

na Not available.

Sources: ABS, *Manufacturing Industry, Australia*, cat. no. 8221.0, Canberra; ABS, *Manufacturing Indicators, Australia*, cat. no. 8229.0, Canberra.

116 Employment in forest product industries ^a

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000	'000	'000	'000	'000	'000	'000
Forestry							
Forestry and logging	9.1	8.4	8.1	8.4	7.5	7.0	5.6
Forestry support services	3.3	3.0	3.3	5.0	2.8	4.0	3.5
Total	12.3	11.4	11.3	13.4	10.3	11.0	9.1
Total agriculture, forestry and fishing	357.1	348.1	350.4	354.0	362.4	369.2	351.4
% forestry and logging	3.4	3.3	3.2	3.8	2.8	3.0	2.6
Total wood manufacturing industry							
Log sawmilling and timber dressing	20.0	17.8	16.8	15.3	10.8	12.0	12.5
Other wood product manufacturing	33.8	35.3	34.3	34.0	34.8	34.3	24.8
Paper and paper products	23.3	24.0	26.3	19.8	21.3	18.5	19.8
Total	76.8	76.5	77.5	69.3	67.4	64.4	56.6
Total manufacturing industries	1 050.9	1 024.7	1 023.9	1 060.0	1 027.7	1 005.6	992.0
% wood manufacturing industry	7.3	7.5	7.6	6.5	6.6	6.4	5.7
Total forestry, logging and wood manufacturing	89.1	87.9	88.8	82.7	77.7	75.3	65.7
Total employment	9 785.9	10 088.3	10 373.8	10 683.9	10 891.7	11 026.7	11 354.5
% total forestry, logging and wood manufacturing	0.9	0.9	0.9	0.8	0.7	0.7	0.6

^a Labour force annual employment data is the average of the quarterly survey data based on ANZSIC 2006. Caution should be used when utilising employment statistics at the ANZSIC subdivision and group levels due to estimates that may be subject to sampling variability and standard errors too high for most practical purposes.

Sources: ABS, *Labour Force, Detailed Quarterly*, cat. no. 6291.0. 55. 003, Canberra; ABS, *The Labour Force*, cat. no. 6203.0, Canberra.

117 Value of Australian forest products trade a

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Imports							
Roundwood	1	0	1	1	1	0	1
Sawnwood							
Coniferous roughsawn	182	150	148	186	134	140	135
Coniferous dressed	189	150	143	191	168	200	248
Broadleaved roughsawn	63	65	67	59	51	41	41
Broadleaved dressed	58	53	60	56	53	48	49
Total	492	419	418	492	405	429	473
Railway sleepers	0	0	0	0	0	0	0
Miscellaneous forest products b	586	528	567	583	651	603	682
Veneer	24	25	32	33	28	22	21
Plywood	129	134	168	153	145	138	170
Particleboard	24	14	26	34	27	20	21
Hardboard	19	27	30	28	26	30	39
Medium density fibreboard	15	22	14	33	41	37	35
Softboard and other fibreboard	5	7	7	3	4	3	3
Paper and paperboard							
Newsprint	261	267	224	185	173	158	176
Printing and writing	1 451	1 438	1 453	1 456	1 468	1 355	1 347
Household and sanitary	128	152	177	137	154	164	185
Packaging and industrial	344	330	416	470	481	499	515
Total	2 184	2 187	2 270	2 248	2 276	2 175	2 223
Paper manufactures c	396	426	470	513	590	563	557
Wastepaper	2	1	2	2	1	1	0
Pulp	225	225	265	285	263	178	180
Pulpwood	2	2	1	2	2	1	2
Total	4 104	4 017	4 271	4 412	4 459	4 200	4 408

Continued

117 Value of Australian forest products trade *a continued*

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Exports							
Roundwood	73	82	117	105	101	138	198
Sawnwood							
Coniferous roughsawn	41	63	81	63	70	76	67
Coniferous dressed	21	15	18	11	9	7	5
Broadleaved roughsawn	28	31	35	38	38	33	35
Broadleaved dressed	12	12	11	8	8	9	8
Total	102	121	145	120	125	125	115
Railway sleepers	4	4	5	3	4	2	3
Miscellaneous forest products b	74	69	63	56	51	59	65
Veneer	6	7	6	19	36	44	52
Plywood	6	5	8	9	4	3	2
Particleboard	6	6	6	4	7	3	2
Hardboard d	5	5	3	0	1	1	2
Medium density fibreboard	119	121	97	76	52	36	39
Softboard and other fibreboard	12	10	6	2	1	1	1
Paper and paperboard							
Newsprint	1	0	0	3	2	6	13
Printing and writing	183	147	149	133	128	143	88
Household and sanitary	105	98	102	106	111	97	94
Packaging and industrial	338	356	400	395	364	404	552
Total	627	601	650	635	606	649	747
Paper manufactures c	126	125	112	103	106	102	112
Wastepaper	97	140	175	252	235	228	240
Pulp	4	5	12	15	18	13	11
Woodchips	858	839	950	1 072	997	856	884
Total	2 119	2 140	2 355	2 471	2 343	2 261	2 474

a Values are value for duty for imports and 'free on board' from Australian ports for exports. **b** Includes such items as wooden doors, mouldings, packing cases, parquet flooring, builders carpentry, cork, gums, resins, eucalyptus oils and other miscellaneous wood articles. Excludes wooden furniture.

c Includes such items as boxes, bags, account books, note books, letter pads and other paper stationery. **d** Uncoated hardboard confidential from January 2007.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

118 Australian production, trade and apparent consumption of sawnwood

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Broadleaved (hardwood)							
Production	1 261	1 211	1 152	1 109 ^a	990 ^a	na	na
Imports	147	131	128	122	94	88	88
Exports	83	43	49	56	54	53	70
Apparent consumption	1 314	1 290	1 220	1 164	1 021	na	na
Coniferous (softwood)							
Production	3 679	3 821	4 012	4 263 ^a	3 740 ^a	na	na
Imports	700	541	483	661	534	660	758
Exports	165	250	367	282	301	335	279
Apparent consumption	4 214	4 112	4 128	4 643	3 973	na	na
Total broadleaved and coniferous							
Production	4 940	5 032	5 163	5 372 ^a	4 730 ^a	na	na
Imports	847	671	611	784	628	748	846
Exports	249	293	416	338	355	387	349
Apparent consumption	5 528	5 402	5 348	5 807	4 995	na	na

^a ABARES estimate. na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; state and territory forest agencies; ABARES.

119 Volume of Australian imports of sawnwood, by source and type

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Country							
Czech Republic							
Spruce pine	60	52	60	77	57	88	85
Canada							
Douglas fir	48	36	33	28	24	18	33
Western red cedar	54	42	42	44	33	30	29
Other	19	7	7	11	18	20	7
Total	121	86	83	84	74	68	69
Malaysia							
Meranti ^a	27	27	21	20	17	18	15
Other	29	28	24	30	21	21	19
Total	56	56	45	49	38	39	34
New Zealand							
Radiata pine	303	222	198	219	172	192	184
Douglas fir	47	37	33	34	24	18	23
Other	48	38	44	44	39	59	58
Total	398	298	276	297	235	269	265
United States							
Douglas fir	1	0	0	1	0	0	0
Western red cedar	0	0	0	2	1	1	1
Other	6	6	5	7	15	21	27
Total	7	7	6	10	16	23	28
Region							
Asia	114	105	105	103	74	78	83
Europe	98	80	38	153	124	178	247
North America	127	93	89	94	90	90	97
Pacific	423	319	293	316	249	279	274
South America	22	23	25	41	34	34	59
Other	63	53	61	78	58	89	86
Total	847	671	611	784	628	748	846
(value \$m)	492.0	419.4	418.2	492.3	404.8	429.2	472.8

^a Includes luan and seraya.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

120 Australian production, trade and apparent consumption of panel products

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Production ^a							
Plywood ^b	156	145	130	134	118	120	140
Particleboard	944	1 002	933	957	911	928	986
Medium density fibreboard	794	798	680	710	632	558	605
Total	1 894	1 944	1 743	1 800	1 661	1 606	1 731
Imports							
Plywood	200	205	244	237	199	228	278
Particleboard	65	37	77	100	69	64	72
Hardboard	22	30	38	32	24	33	47
Medium density fibreboard	28	52	26	69	88	70	59
Softboard and other fibreboards	12	14	14	14	11	6	7
Total	327	338	400	451	390	401	462
Exports							
Plywood	5	4	13	15	53	24	7
Particleboard	14	14	18	6	17	9	5
Hardboard	8	7	4	0	2	1	2
Medium density fibreboard	365	352	260	204	181	118	78
Softboard and other fibreboards	15	11	10	14	8	2	5
Total	406	389	306	239	260	154	97
Apparent consumption							
Plywood	351	346	361	355	265	324	411
Particleboard	995	1 025	992	1 050	963	982	1 052
Medium density fibreboard	457	497	447	575	539	510	586
Total	1 804	1 868	1 800	1 981	1 767	1 817	2 049

^a Hardboard production is confidential; there is no significant production of softboard and other fibreboards; excludes veneer. ^b Excludes laminated veneer lumber.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Engineered Wood Products Association of Australasia.

121 Volume of Australian imports of veneer and wood based panels, by source

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Veneer							
Malaysia	3.2	3.6	2.0	3.1	3.4	2.6	3.0
New Zealand	8.5	12.3	16.5	16.0	7.8	5.3	8.3
Philippines	2.5	2.6	3.6	3.7	2.1	1.3	0.2
Singapore	0.3	0.1	0.3	0.8	0.1	0.1	0.0
South Africa	0.2	0.1	0.1	0.1	0.0	0.1	0.1
Thailand	0.0	0.0	0.0	0.1	0.0	0.1	0.0
United States	0.7	1.3	1.1	1.3	1.1	0.7	0.7
Other	5.5	3.7	5.5	6.4	7.0	5.3	4.9
Total	20.9	23.7	29.0	31.5	21.4	15.4	17.4
(value, \$m)	24.3	24.9	31.5	33.4	28.3	21.7	20.9
Plywood							
Chile	7.7	10.8	11.4	19.1	22.5	35.0	54.7
China	21.5	35.4	50.6	51.7	32.7	40.5	36.8
Indonesia	49.8	42.2	42.8	37.8	28.4	33.1	41.7
Malaysia	19.4	22.4	25.4	34.1	35.4	38.1	41.9
New Zealand	82.6	74.5	86.2	61.0	50.8	50.3	59.1
Other	19.4	19.5	27.6	32.9	29.3	30.6	43.3
Total	200.3	204.8	244.0	236.6	199.1	227.7	277.5
(value, \$m)	128.6	133.6	167.7	152.7	145.4	137.7	170.3
Particleboard							
Germany	7.1	8.1	17.6	15.4	8.9	32.1	27.0
New Zealand	42.3	10.7	43.3	69.7	46.2	13.1	6.4
Other	15.9	17.9	16.5	14.5	13.6	19.0	38.2
Total	65.2	36.8	77.5	99.6	68.7	64.2	71.6
(value, \$m)	24.4	13.7	26.2	34.4	26.8	20.3	20.9
Hardboard							
Germany	6.8	16.8	19.5	7.4	4.2	6.0	5.7
Malaysia	2.5	1.7	1.6	1.7	1.9	1.7	3.3
New Zealand	7.1	4.0	1.9	0.2	0.2	0.1	0.2
Other	5.3	7.8	15.4	22.8	17.2	25.2	38.2
Total	21.7	30.2	38.4	32.1	23.5	33.0	47.4
(value, \$m)	18.8	27.3	29.9	28.1	25.7	30.4	38.8
Medium density fibreboard							
Malaysia	15.9	16.9	12.7	10.9	8.7	8.5	11.0
New Zealand	7.7	31.9	7.5	36.3	59.6	26.0	17.3
Other	4.1	3.1	6.3	21.6	20.0	35.4	30.8
Total	27.7	51.9	26.5	68.8	88.3	69.9	59.1
(value, \$m)	15.0	21.6	13.8	32.7	41.0	36.9	35.4
Softboard and other fibreboards							
Germany	0.1	0.3	0.5	0.2	2.1	0.5	0.4
New Zealand	6.9	4.7	3.5	1.6	0.0	0.0	0.0
Other	5.2	9.3	10.2	12.5	8.5	5.7	6.2
Total	12.2	14.3	14.2	14.3	10.6	6.2	6.5
(value, \$m)	4.9	7.1	7.2	2.9	4.0	2.9	3.0

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

122 Australian production, trade and consumption of paper and paper products

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt
Production							
Newsprint	443	415	411	456	444	427	na
Printing and							
writing paper	659	663	693	706	723	496	na
Household and sanitary	197	203	190	186	196	194	na
Packaging and							
industrial paper	1 945	1 926	1 907	1 933	1 915	2 058	na
Total	3 244	3 207	3 201	3 281	3 278	3 175	na
Imports							
Newsprint	314	325	263	228	198	191	222
Printing and							
writing paper	1 190	1 140	1 174	1 235	1 122	1 167	1 237
Household and sanitary	78	88	102	81	82	101	114
Packaging and							
industrial paper	184	191	258	303	254	285	314
Total	1 766	1 743	1 796	1 847	1 656	1 744	1 886
Exports							
Newsprint	2	0	0	5	2	6	19
Printing and							
writing paper	175	147	132	119	112	146	84
Household and sanitary	37	32	32	37	38	31	39
Packaging and							
industrial paper	569	632	640	630	617	708	887
Total	782	811	805	790	769	890	1 029
Total consumption							
Newsprint	755	739	673	679	639	612	na
Printing and							
writing paper	1 674	1 656	1 735	1 822	1 733	1 518	na
Household and sanitary	238	259	259	230	240	264	na
Packaging and							
industrial paper	1 560	1 485	1 525	1 606	1 552	1 636	na
Total	4 227	4 139	4 192	4 338	4 165	4 030	na
Consumption per person							
Newsprint	37	36	32	32	29	27	na
Printing and							
writing paper	82	80	82	85	79	68	na
Household and sanitary	12	13	12	11	11	12	na
Packaging and							
industrial paper	77	72	72	75	71	73	na
Total	207	200	199	202	190	180	na

na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Australian Plantation Products and Paper Industry Council (A3P); ABARES.

123 Volume of Australian imports of paper and paperboard, by type and source

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt
Newsprint a							
Finland	1.7	1.8	2.5	1.7	1.7	1.8	4.3
Indonesia	24.8	21.6	19.2	20.1	16.1	22.5	20.7
Korea, Rep. of	63.8	74.3	78.5	38.0	17.7	16.7	46.5
New Zealand	201.9	214.3	139.1	137.9	155.0	132.0	112.3
Norway	10.8	4.4	0.1	0.1	0.3	0.0	0.0
Other	21.8	12.6	23.3	29.9	7.1	17.6	37.8
Total	314.0	324.5	262.5	227.6	197.6	190.6	221.5
(value, \$m)	260.7	266.9	224.1	184.6	173.4	158.0	175.7
Printing and writing paper							
Belgium	21.3	22.8	20.1	13.7	16.3	14.7	11.7
China	29.0	58.8	98.5	108.8	84.9	87.6	63.3
Finland	226.4	181.0	181.6	208.3	211.8	123.4	107.0
France	25.6	19.9	19.4	15.9	11.1	7.5	7.4
Germany	63.8	63.7	56.9	44.0	30.8	45.7	54.3
Indonesia	70.3	65.4	52.8	44.6	48.8	58.2	24.8
Italy	50.7	44.7	58.0	55.8	45.0	45.1	45.6
Japan	41.3	31.0	33.0	53.4	55.9	88.5	65.1
Korea, Rep. of	103.3	106.9	117.6	51.8	32.7	120.7	89.5
New Zealand	31.9	41.8	43.5	44.3	38.7	39.8	42.2
Sweden	83.9	75.1	83.1	80.6	77.3	63.9	64.2
United Kingdom	12.2	12.1	17.2	13.1	13.5	11.2	18.0
United States	135.7	129.7	118.2	113.3	105.2	107.1	87.1
Other b	294.2	287.1	273.5	387.6	350.0	353.9	556.4
Total	1 189.7	1 140.1	1 173.5	1 235.3	1 122.1	1 167.4	1 236.7
(value, \$m)	1 451.1	1 438.2	1 453.2	1 456.1	1 467.8	1 354.9	1 347.1
Household and sanitary products							
China	35.5	41.7	36.5	23.3	33.3	48.6	53.5
Indonesia	16.5	15.8	32.5	23.1	13.4	13.4	16.2
New Zealand	14.5	20.3	22.0	24.4	23.3	24.9	28.4
Other	11.4	10.2	10.9	10.3	12.1	14.2	15.8
Total	77.9	87.9	101.8	81.1	82.0	101.1	113.8
(value, \$m)	127.9	151.6	177.1	137.3	154.2	163.5	185.2

Continued

123 Volume of Australian imports of paper and paperboard, by type and source *continued*

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt
Packaging and industrial							
China	15.6	20.9	26.9	29.3	26.1	34.6	41.0
Czech Republic	6.6	7.1	4.7	6.1	4.7	3.7	3.7
Finland	17.0	15.3	24.4	27.5	18.8	18.2	25.4
France	5.4	4.8	5.6	8.2	6.9	7.2	5.0
Germany	7.0	8.4	7.8	8.8	8.1	11.4	10.2
Hong Kong, China	2.9	2.1	2.0	2.5	1.8	1.4	1.7
Indonesia	7.0	7.7	11.2	16.8	12.8	13.0	10.2
Italy	6.8	6.2	5.8	5.6	1.8	5.2	3.7
Japan	8.0	5.6	6.2	6.4	4.1	5.1	4.7
Malaysia	8.5	8.6	11.1	12.2	13.5	16.2	16.7
New Zealand	30.7	35.6	76.0	92.5	73.3	73.6	97.0
Singapore	9.3	2.3	2.5	3.4	4.2	3.4	4.1
South Africa	7.3	9.3	5.8	4.3	3.5	4.4	4.2
Sweden	7.4	9.5	7.1	7.4	7.8	9.4	9.1
Thailand	8.5	12.6	17.3	12.1	10.1	14.7	7.4
United Kingdom	4.9	4.8	3.7	2.9	2.6	2.4	2.8
United States	14.6	12.9	18.0	28.4	24.4	26.8	28.2
Other	16.6	17.2	22.5	28.8	29.6	34.7	38.9
Total	184.1	190.8	258.4	303.1	254.0	285.3	314.1
(value, \$m)	344.4	330.3	416.1	470.4	481.0	498.8	515.3

a Uncoated paper (at least 60 per cent mechanical pulp) used mainly for the printing of newspapers. **b** Includes imports for which country of origin is confidential.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

124 Australian production of wood pulp and use of wastepaper

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
		kt	kt	kt	kt	kt	kt
Mechanical	381	387	371	372	445	449	397
Chemical a	781	727	782	810	750	777	907
Total pulp	1 107	1 160	1 153	1 182	1 195	1 226	1 304
Recovered paper used in domestic paper production	1 630	1 546	1 634	1 728	1 762	1 749	1 739

a Includes semichemical pulp.

Sources: ABS, *Manufacturing Production, Australia*, cat. no. 8301.0, Canberra; Australian Plantation Products and Paper Industry Council (A3P); ABARES.

125 Volume of Australian imports of wood pulp, by type and source

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt
Mechanical							
Canada	0.4	0.8	0.4	0.9	0.0	0.0	0.0
New Zealand	6.2	6.5	5.9	0.6	0.2	0.2	0.1
United States	0.0	0.0	0.0	0.2	0.3	0.2	0.2
Total	7.5	7.6	6.8	2.2	1.7	1.1	0.5
(value, \$m)	5.2	5.1	5.1	1.8	1.4	0.8	0.4
Chemical							
Brazil	59.0	78.1	113.4	82.5	81.6	63.5	38.4
Canada	58.5	65.1	64.0	72.4	77.9	61.9	72.5
Chile	45.3	36.5	45.5	85.5	55.2	26.3	30.6
Hungary	0.0	3.1	0.0	0.2	0.0	0.0	0.2
Indonesia	9.8	0.0	0.1	0.5	0.0	0.0	0.0
New Zealand	108.7	105.6	104.0	115.1	93.8	80.9	57.9
Thailand	24.7	22.3	0.0	0.0	0.0	0.5	0.0
United States	10.5	6.4	4.2	7.8	7.6	11.1	7.8
Other	0.4	3.7	10.8	5.1	9.9	4.9	11.2
Total	316.9	320.7	341.9	369.1	326.1	249.1	218.6
(value, \$m)	204.0	207.1	252.3	269.9	247.5	166.4	168.5
Semichemical							
Brazil	4.2	1.0	0.0	0.0	0.0	0.0	0.0
Canada	4.2	8.8	4.0	3.8	2.6	0.0	0.0
Chile	3.0	3.3	0.0	0.0	0.0	0.0	0.0
Indonesia	4.0	2.0	0.0	0.0	0.0	0.0	0.0
New Zealand	10.1	4.6	6.3	13.6	14.4	14.8	13.2
Other	0.4	0.1	0.0	0.0	0.0	0.0	0.0
Total	25.9	19.7	10.3	17.4	16.9	14.8	13.2
(value, \$m)	15.8	12.8	7.7	13.5	13.7	10.6	10.8
Total wood pulp	350.3	348.0	359.0	388.7	344.7	265.0	233.2
(value, \$m)	225.1	225.0	265.2	285.2	262.6	177.8	180.3

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

126 Volume of Australian roundwood and woodchip trade

	Imports		Exports		
	Roundwood a	Roundwood a	Woodchips b		Total
			Coniferous	Broadleaved	
	'000 m ³	'000 m ³	kt	kt	kt
1970-71	118.2	na	na	na	na
1971-72	122.2	na	na	na	na
1972-73	97.1	na	na	na	na
1973-74	102.1	na	na	na	na
1974-75	37.2	na	na	na	na
1975-76	46.4	na	na	na	na
1976-77	32.2	na	na	na	na
1977-78	27.6	na	na	na	1 540
1978-79	17.0	na	na	na	1 777
1979-80	0.6	na	na	na	2 213
1980-81	0.1	na	na	na	2 110
1981-82	1.7	na	na	na	1 910
1982-83	1.7	na	na	na	1 898
1983-84	0.5	na	na	na	2 222
1984-85	0.5	na	na	na	2 283
1985-86	1.0	na	na	na	2 224
1986-87	1.0	na	na	na	2 477
1987-88	1.0	na	na	na	2 749
1988-89	2.9	8	110	2 787	2 897
1989-90	6.3	16	122	2 475	2 597
1990-91	0.5	80	118	2 687	2 804
1991-92	0.3	86	317	2 454	2 770
1992-93	1.6	242	384	2 458	2 843
1993-94	6.1	421	503	2 530	3 033
1994-95	2.1	287	857	2 870	3 728
1995-96	1.6	351	820	2 531	3 351
1996-97	1.1	616	852	2 471	3 323
1997-98	6.1	391	1 045	3 270	4 315
1998-99	5.7	778	1 033	2 852	3 885
1999-00	2.3	1 150	1 046	3 582	4 628
2000-01	1.3	1 098	1 100	3 894	4 994
2001-02	0.9	1 192	849	3 872	4 721
2002-03	2.3	1 199	995	4 442	5 437
2003-04	1.7	1 335	1 099	4 165	5 264
2004-05	1.4	807	1 104	4 494	5 598
2005-06	0.6	864	989	4 374	5 363
2006-07	5.0	1 171	1 072	4 880	5 952
2007-08	0.7	1 045	1 133	5 033	6 166
2008-09	1.4	986	964	4 291	5 255
2009-10	0.9	1 377	847	3 971	4 818
2010-11	0.6	1 638	787	4 278	5 064

a Includes saw logs and pulp logs. b Bone dry tonnes. na Not available.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

127 Summary of Australian statistics for grapes and grape products

	Grape production kt	Grape use		Australian wine		Production of dried vine fruit kt	Exports of dried vine fruit kt
		Wine making kt	Drying and table kt	Domestic sales ML	Sales per person L		
1965-66	591.5	186.7	404.8	69.7	6.0	92.4	82.1
1966-67	694.7	241.5	453.2	79.8	6.8	108.4	69.0
1967-68	638.6	253.4	385.2	90.1	7.5	86.4	68.5
1968-69	553.4	299.6	253.8	100.2	8.2	55.6	62.4
1969-70	757.6	357.7	399.9	110.9	8.9	94.3	44.1
1970-71	548.0	293.6	254.4	110.5	8.5	60.4	59.9
1971-72	827.0	345.4	481.6	115.7	8.7	103.4	56.3
1972-73	606.3	330.5	275.8	130.0	9.6	57.0	72.6
1973-74	555.2	344.0	211.2	148.1	10.8	56.9	26.9
1974-75	733.6	432.5	301.1	168.0	12.1	66.9	31.6
1975-76	714.6	413.1	301.5	177.3	12.6	70.3	53.2
1976-77	728.4	458.3	270.1	187.0	13.2	64.5	44.2
1977-78	726.7	423.7	303.0	197.4	13.7	68.7	35.9
1978-79	760.4	466.1	294.3	231.1	15.9	61.8	46.1
1979-80	914.0	503.2	410.8	247.4	16.8	98.6	61.8
1980-81	754.8	486.8	268.0	264.9	17.7	60.2	52.1
1981-82	942.9	499.9	443.0	278.3	18.3	96.2	39.9
1982-83	807.3	431.3	376.0	293.7	19.1	84.5	58.1
1983-84	881.1	495.1	386.0	305.8	19.6	86.7	58.3
1984-85	890.0	559.0	331.0	320.5	20.3	77.0	56.0
1985-86	906.6	509.9	396.7	325.2	20.3	100.9	54.0
1986-87	859.2	523.5	335.7	329.8	20.3	69.8	58.2
1987-88	864.4	498.0	366.4	330.5	20.0	78.8	42.0
1988-89	977.1	640.6	336.5	309.1	18.4	64.4	51.9
1989-90	936.1	602.6	333.5	300.6	17.6	65.0	38.8
1990-91	940.0	539.0	401.0	296.3	17.1	88.7	36.4
1991-92	1 111.5	635.2	476.3	314.8	18.0	101.9	44.5
1992-93	909.5	626.2	283.3	312.1	17.7	45.4	55.1
1993-94	1 080.8	777.4	303.4	319.5	17.9	50.4	41.2
1994-95	939.7	629.8	309.8	316.3	17.5	53.5	14.7
1995-96	1 095.4	883.3	212.0	307.5	16.8	37.7	15.2
1996-97	1 161.0	798.0	363.0	332.8	18.0	69.3	25.3
1997-98	1 146.7	950.8	196.0	338.8	18.1	29.0	12.3
1998-99	1 293.8	1 101.0	192.8	348.3	18.4	44.0	13.7
1999-00	1 338.5	1 129.0	209.5	369.3	19.3	31.0	4.9
2000-01	1 590.7	1 421.9	168.8	384.8	19.8	16.7	6.4
2001-02	1 833.4	1 606.3	227.1	385.3	19.6	34.0	5.9
2002-03	1 578.7	1 411.4	167.3	402.5	20.2	17.0	9.7
2003-04	2 093.7	1 895.3	198.4	417.4	20.7	27.0	6.8
2004-05	2 146.1	1 938.0	208.1	430.1	21.1	28.5	6.6
2005-06	2 072.9	1 873.4	199.5	432.4	20.9	28.2	7.3
2006-07	1 570.1	1 410.3	159.7	446.5	21.2	17.4	6.8
2007-08	1 956.8	1 837.0	119.8	427.5	19.9	11.0	4.9
2008-09	1 797.0	1 683.6	113.4	429.9	19.6	17.1	4.3
2009-10	1 684.3	1 533.2	na	470.8	21.1	13.6	4.0
2010-11	1 674.0	1 563.0	na	455.5	na	7.4	1.8

na Not available.

Sources: ABS, *Australian Wine and Grape Industry*, cat. no. 1329.0, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra; ABS, *Vineyards Survey*; Australian Dried Fruits Corporation, *Annual Report*, Melbourne; Australian Dried Fruits Board, *Annual Report*, Melbourne; Australian Dried Fruits Association, Mildura; ABARES.

128 Australian wine exports, by type and major destination

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Type								
Table wine	ML	646.73	719.93	779.87	689.22	733.41	750.92	701.94
Red	ML	417.97	454.82	497.33	446.13	441.51	462.52	441.18
White	ML	228.76	265.11	282.54	243.10	291.90	288.40	260.76
Sparkling wine	ML	11.26	13.39	15.45	16.78	14.88	15.66	14.68
Fortified wine	ML	1.89	1.85	1.80	1.66	1.65	1.32	1.22
Other wine	ML	0.95	0.56	0.93	0.91	0.51	9.06	9.59
Total	ML	660.83	735.72	798.04	708.58	750.45	776.96	727.43
Major destination								
Canada	\$m	247.4	249.2	266.8	259.9	214.0	193.2	198.3
China	\$m	9.9	20.8	49.0	61.8	93.8	140.0	181.4
Germany	\$m	71.7	75.6	65.6	49.3	51.4	48.5	51.9
Hong Kong, China	\$m	20.0	25.1	26.4	33.8	43.1	42.0	51.4
Ireland	\$m	54.0	54.0	68.7	69.9	46.3	40.8	34.6
Japan	\$m	48.7	44.1	49.0	48.7	52.3	44.6	41.1
Netherlands	\$m	45.9	45.3	65.3	71.1	57.4	56.3	43.0
New Zealand	\$m	94.0	92.2	101.8	85.9	76.0	62.6	56.0
Singapore	\$m	33.1	37.6	42.9	46.0	41.3	40.1	44.3
Sweden	\$m	36.2	49.6	51.1	41.0	40.0	41.9	36.5
Switzerland	\$m	19.6	19.1	18.1	15.6	14.9	12.1	12.0
Thailand	\$m	7.7	7.8	10.4	13.3	12.0	12.3	14.5
United Kingdom	\$m	967.0	960.5	976.3	888.1	723.3	553.0	451.6
United States	\$m	896.7	901.3	956.1	745.5	741.2	608.3	477.8
Other	\$m	196.4	216.8	242.5	253.4	221.4	268.1	262.6
Value	\$m	2 748.2	2 799.0	2 989.9	2 683.2	2 428.4	2 163.9	1 957.1
Unit value	\$/L	4.16	3.80	3.75	3.79	3.24	2.79	2.69

Sources: ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra; Australian Wine Export Council, *Wine Export Approval Report*, Adelaide.

129 Australian domestic wine sales and imports, by type ^a

	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	ML	ML	ML	ML	ML	ML	ML
Table wine	364.84	366.80	380.67	362.00	363.27	395.91	384.18
Red	155.49	154.24	162.11	155.19	159.05	176.44	172.39
White	209.35	212.56	218.57	206.81	204.22	219.46	211.79
Sparkling wine	38.40	39.79	39.88	36.59	36.52	40.11	35.39
Bottle fermented	22.99	23.13	23.27	21.66	20.77	19.86	19.67
Bulk fermented	15.41	16.66	16.62	14.94	15.75	20.25	15.73
Carbonated wine	4.21	4.25	5.43	8.48	9.73	14.01	13.45
Total unfortified wine	407.44	410.83	425.98	407.08	409.51	450.03	433.02
Total fortified wine	19.93	18.51	17.39	17.18	16.28	16.30	17.50
Vermouth and other wine	2.76	3.03	3.12	3.26	4.09	4.45	4.95
Total domestic sales	430.13	432.37	446.49	427.52	429.88	470.78	455.47
Total wine	452.27	459.54	480.76	480.83	492.11	535.07	522.45
Wine imports							
Table wine	14.78	19.60	25.49	42.58	50.60	54.18	56.86
Sparkling wine	5.19	5.92	7.00	8.27	9.59	8.36	8.98
Fortified wine	0.25	0.13	0.12	0.16	0.19	0.36	0.13
Other	1.92	1.51	1.66	2.31	1.84	1.39	1.01
Total	22.14	27.17	34.28	53.31	6.22	6.43	6.70

^a Covers wine produced by winemakers with sales of 250 000 litres or more in the previous financial year.

Sources: ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra.

130 Australian wine grape production and prices

	Unit	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Bearing area	'000 ha	158	163	166	157 ^a	152 ^a	153 ^a
Wine grape production							
Red wine	kt	1 023.9	674.2	984.1	888.0	845.3	na
White wine	kt	772.6	658.0	796.3	795.6	687.9	na
Multipurpose	kt	76.9	78.2	56.6	na	0.0	na
Total	kt	1 873.4	1 410.3	1 837.0	1 683.6	1 533.2	1 563.0
Exports							
Wine	ML	735.7	798.0	708.6	750.5	777.0	727.4
– value	A\$m	2 799.0	2 989.9	2 683.2	2 428.4	2 163.9	1 957.1
Australian weighted average wine grape price							
Cool climate	A\$/t	1 011	1 156	1 243	1 011	959	874
Warm climate	A\$/t	379	389	546	369	298	285

^a This figure is for wine grapes only. Prior to 2008–09, this figure includes grapes used for winemaking and other purposes such as drying and table.
^{na} Not available.

Sources: ABS, *Australian Wine and Grape Industry*, cat. no. 1329.0, Canberra; ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra; Phyloxera and Grape Industry Board of South Australia, Adelaide; ABS, *Vineyards Survey*; Australian Wine Export Council, *Wine Export Annual Report*; Australian Regional Winegrape Crush Survey; ABARES.

131 Retail price indexes for alcoholic beverages ^a

	Beer	Wine	Spirits	Consumer price index ^b
1982-83	58.2	65.8	55.6	60.9
1983-84	63.8	70.7	59.7	65.0
1984-85	69.0	75.6	63.7	67.8
1985-86	75.1	77.7	69.8	73.5
1986-87	82.8	83.9	77.1	80.4
1987-88	90.4	89.0	84.1	86.3
1988-89	91.9	96.0	91.4	92.6
1989-90	100.0	100.0	100.0	100.0
1990-91	107.0	100.9	110.6	105.3
1991-92	112.0	103.7	117.3	107.3
1992-93	115.2	105.6	119.3	108.4
1993-94	119.1	110.4	122.4	110.4
1994-95	122.7	116.0	126.4	113.9
1995-96	129.4	122.0	130.0	118.7
1996-97	132.9	124.3	134.6	120.3
1997-98	103.9	128.6	134.2	120.3
1998-99	135.9	130.3	136.6	121.8
1999-00	138.8	130.7	138.5	124.7
2000-01	151.2	137.8	147.3	132.2
2001-02	155.3	141.8	151.8	136.0
2002-03	161.6	143.2	157.2	140.2
2003-04	172.8	146.6	161.4	143.5
2004-05	180.4	148.2	165.0	147.0
2005-06	188.9	150.3	171.3	151.7
2006-07	194.0	148.4	176.1	156.1
2007-08	204.3	150.4	185.7	161.4
2008-09	213.4	152.9	209.3	166.4
2009-10	225.3	154.0	217.9	170.3
2010-11	232.0	155.9	223.3	175.6

^a Weighted average for eight capital cities. ^b Base: 1989-90 = 100.

Source: ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra.

132 Production and trade of Australian dried vine fruit

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Production									
Dried weight	kt	27	29	28	17	11	17	14	7
Gross value	\$m	na	na	35	22	19	30	24	12
Gross unit value ^a	\$/t	na	na	1 235.8	1 286.5	1 752.3	1 760.2	1 741.7	1 646.3
Exports									
Volume	kt	7	7	7	7	5	4	4	2
Value	\$m	15	15	18	16	13	15	13	6

^a Weighted average based on realisations by Australian Dried Fruits Association packers (who pack over 90 per cent of Australian dried vine fruit) before deduction of packers' costs and charges. **na** Not available.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Vineyard Estimates*, cat. no. 1329.0, Canberra; Australian Dried Fruits Association, Mildura.

133 Production and export of Australian citrus, by variety

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Navel oranges									
Production	kt	208	225	256	246	236	222	264	186
Exports ^a	kt	67.09	80.87	102.88	98.19	99.40	83.48	114.80	67.09
- value	\$'000	84 646	94 458	111 674	112 990	118 027	98 227	127 844	73 952
Valencia oranges									
Production	kt	199	228	302	224	194	189	194	131
Exports ^a	kt	25.94	29.18	35.68	28.61	13.97	23.01	12.51	15.57
- value	\$'000	21 670	23 591	24 370	25 086	12 710	21 254	10 382	17 682
Mandarins									
Production	kt	97	121	92	104	94	101	91	86
Exports ^a	kt	28.58	27.37	22.76	18.22	20.51	23.25	30.72	24.35
- value	\$'000	43 284	40 594	34 837	28 782	33 619	34 486	46 465	38 970
Lemons and limes									
Production	kt	31	36	38	30	29	20	21	19
Exports ^a	kt	1.83	0.91	0.63	0.16	1.19	0.57	1.08	0.27
- value	\$'000	2 340	1 109	602	373	1 605	1 064	1 575	652
Grapefruit									
Production	kt	10	11	13	13	10	11	14	11
Exports ^a	kt	0.54	0.29	0.37	0.57	0.41	0.93	0.25	0.41
- value	\$'000	649	325	377	627	407	1 145	450	532

^a Fresh and dried.

Sources: ABS; Australian Citrus Growers Incorporated; Australian Horticultural Corporation, *Australian Horticultural Handbook*, Sydney.

134 Summary of Australian statistics for fruit and vegetables

	Fruit			Vegetables		
	Production \$m ^a	Exports \$m	Imports \$m	Production \$m ^a	Exports \$m	Imports \$m
1981-82	593	na	na	554	na	na
1982-83	632	na	na	557	na	na
1983-84	655	na	na	739	na	na
1984-85	797	na	na	629	na	na
1985-86	837	na	na	714	na	na
1986-87	926	na	na	868	na	na
1987-88	1 004	na	na	928	na	na
1988-89	1 098	340	228	1 165	180	183
1989-90	1 176	325	223	1 328	185	249
1990-91	1 267	403	215	1 285	197	219
1991-92	1 599	456	290	1 290	236	238
1992-93	1 572	499	269	1 249	296	272
1993-94	1 478	501	290	1 444	349	305
1994-95	1 579	508	317	1 492	345	298
1995-96	1 709	571	362	1 616	384	309
1996-97	1 857	640	372	1 662	390	311
1997-98	1 819	625	391	1 812	403	338
1998-99	1 990	645	461	1 864	443	373
1999-00	1 976	670	473	2 004	453	374
2000-01	2 253	745	481	2 183	509	410
2001-02	2 333	857	506	2 269	586	451
2002-03	2 408	830	565	2 258	439	497
2003-04	2 350	690	587	2 380	399	527
2004-05	2 767	791	704	2 315	340	512
2005-06	2 833	829	741	2 833	365	528
2006-07	3 739	774	846	3 165	410	621
2007-08	2 959	760	928	3 363	384	731
2008-09	3 157	898	991	3 012	397	842
2009-10	3 223	778	943	3 023	372	744
2010-11	3 453 ^s	651	1 022	3 370 ^s	460	786

^a Gross value of production. ^s ABARES estimate. na Not available.

Source: ABS, *Agricultural Commodities Australia*, cat. no. 7121.0, Canberra; ABS, *Value of Principal Agricultural Commodities Produced*, cat. no. 7501.0, Canberra; *Value of Agricultural Commodities Produced*, cat. no. 7503.0, Canberra; ABARES.

135 Summary of Australian statistics for meat

	Cattle numbers ^a million	Sheep numbers ^a million	Total red meat			Apparent consumption per person			
			Production ^b kt	Exports kt	Domestic consumption kt	Beef	Lamb	Pig	Poultry
						and veal ^c kg	and mutton kg	meat kg	meat kg
1970	23.73	171.7	1 955	775	1 120	39.6	36.4	13.6	10.4
1971	26.70	155.4	2 148	924	1 263	40.3	43.6	13.8	11.1
1972	28.44	134.1	2 283	1 168	1 240	40.4	39.2	14.6	12.3
1973	30.16	139.5	2 269	1 154	1 163	43.6	27.5	16.0	13.0
1974	32.04	145.8	1 945	665	1 278	55.0	25.6	13.1	13.4
1975	32.67	144.1	2 364	1 001	1 415	62.0	23.7	11.7	13.4
1976	30.95	131.3	2 670	1 204	1 421	66.4	21.1	12.1	14.4
1977	28.63	127.5	2 889	1 420	1 440	70.3	19.4	13.0	15.6
1978	26.41	130.5	2 824	1 449	1 370	65.9	17.0	13.3	16.6
1979	25.52	132.7	2 513	1 334	1 229	50.4	21.0	13.5	18.7
1980	25.17	131.4	2 311	1 159	1 180	45.3	19.8	15.5	20.1
1981	24.55	135.0	2 172	939	1 232	47.6	19.0	15.3	20.2
1982	22.48	130.5	2 473	1 184	1 294	49.3	20.4	14.8	19.4
1983	22.16	135.1	2 131	948	1 218	42.3	20.5	15.9	20.2
1984	22.78	145.7	2 003	709	1 301	44.3	22.1	16.4	19.8
1985	23.44	150.4	2 162	859	1 288	40.1	24.4	16.7	21.6
1986	23.67	153.2	2 341	1 032	1 306	41.4	22.5	17.2	22.8
1987	23.52	156.5	2 452	1 131	1 314	39.9	23.0	17.3	23.2
1988	24.03	164.9	2 404	1 079	1 335	41.2	21.3	17.5	23.6
1989	24.86	173.8	2 465	1 054	1 420	43.2	23.0	17.7	23.8
1990	25.37	166.6	2 705	1 318	1 368	40.1	21.3	18.3	24.6
1991	25.33	151.0	2 739	1 380	1 386	39.5	21.8	18.4	25.0
1992	25.18	140.5	2 827	1 490	1 349	37.2	20.2	19.3	25.0
1993	25.76	132.6	2 805	1 460	1 345	37.0	19.7	19.0	26.4
1994	25.74	120.9	2 863	1 475	1 429	38.8	20.8	20.0	27.3
1995	26.38	121.1	2 656	1 365	1 306	35.0	17.0	19.8	26.7
1996	26.69	120.2	2 634	1 289	1 369	39.3	16.6	18.4	27.5
1997	26.85	117.5	2 883	1 479	1 432	41.3	16.9	18.8	29.0
1998	26.58	117.5	2 973	1 590	1 406	38.3	17.0	19.3	30.8
1999	27.59	118.6	2 982	1 628	1 397	37.9	16.3	19.2	31.0
2000	27.72	110.9	3 132	1 745	1 461	37.7	18.3	19.8	32.9
2001	27.87	106.2	3 136	1 835	1 367	34.5	16.7	18.8	32.3
2002	26.66	99.3	3 131	1 787	1 441	36.9	15.4	20.7	35.8
2003	27.47	101.3	2 960	1 608	1 468	37.7	13.5	22.1	34.6
2004	28.18	100.6	3 081	1 728	1 476	37.6	13.0	22.3	36.2
2005	28.39	91.0	3 097	1 758	1 509	36.7	13.0	23.8	37.7
2006	28.04	85.7	3 240	1 855	1 559	37.7	13.8	23.2	39.0
2007	27.32	76.9	3 247	1 829	1 640	37.5	14.1	25.6	38.5
2008	27.91	72.7	3 156	1 847	1 546	34.6	12.3	24.3	36.7
2009	26.55	68.1	3 054	1 784	1 547	33.5	11.5	24.9	37.2
2010	28.81	74.3	3 008	1 723	1 573	34.5	10.1	25.5	41.7

^a Before 1987, includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$2500 or more. From 1987, the EVAO was raised to \$5000. ^b Beef and veal, mutton and lamb and pig meat production, expressed in carcass weight. ^c Includes canned beef and veal before 1976.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra; ABARES.

136 Australian saleyard prices of livestock a

	Yearling	Ox	Cow	Weighted average b	Lamb	Mutton	Pig c
	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg
1985	193.0	173.8	155.6	171.3	89.1	35.8	176.9
1986	197.5	183.2	155.2	174.3	116.1	34.8	182.2
1987	207.6	196.3	167.3	186.7	128.5	43.0	186.3
1988	232.4	210.2	179.9	203.6	132.3	61.7	201.0
1989	245.8	213.5	185.1	212.6	137.7	45.4	222.1
1990	247.4	219.2	183.3	213.4	137.0	16.5	201.4
1991	229.5	219.6	176.2	202.1	120.6	11.2	214.3
1992	227.0	225.3	174.3	203.0	131.4	28.9	196.1
1993	244.5	249.6	184.7	220.4	185.4	34.3	213.0
1994	257.8	243.9	187.0	222.6	146.3	34.1	202.3
1995	238.3	216.9	169.2	201.8	187.3	68.4	213.2
1996	185.3	163.2	130.0	155.3	237.4	67.7	247.4
1997	190.0	184.8	135.3	162.6	205.6	75.2	218.6
1998	208.2	203.2	158.3	181.0	179.4	79.3	180.5
1999	233.1	215.4	183.5	204.3	208.5	61.7	215.9
2000	261.8	246.1	219.7	237.2	170.1	71.8	249.1
2001	330.9	315.6	289.4	307.3	262.4	145.8	276.3
2002	289.3	275.4	235.3	259.1	327.5	169.7	260.3
2003	318.7	309.3	249.9	281.3	388.0	204.3	229.7
2004	343.7	324.0	281.2	309.1	375.8	182.2	229.4
2005	367.6	329.0	285.2	320.7	348.3	169.4	233.5
2006	340.7	324.4	267.5	303.4	325.7	139.9	246.0
2007	324.1	311.8	253.8	287.3	322.1	153.4	243.3
2008	332.8	318.6	267.8	297.5	385.1	173.6	276.6
2009	319.7	298.6	252.9	281.5	439.2	253.8	337.9
2010	350.1	317.5	272.4	304.3	497.0	371.6	278.1
2010							
January	311.6	290.8	245.7	274.2	471.4	313.9	328.4
February	329.8	309.5	256.6	288.6	488.9	323.9	321.0
March	345.0	317.6	270.4	301.5	479.7	357.6	310.2
April	348.9	310.7	264.5	296.5	484.0	365.8	289.6
May	343.3	318.6	271.0	299.0	504.4	384.0	265.1
June	344.3	324.3	272.2	302.3	531.4	418.5	256.1
July	343.2	318.4	271.3	302.4	518.4	417.0	252.1
August	357.9	326.0	277.1	312.1	539.4	396.7	249.6
September	364.7	327.8	290.8	321.2	514.9	390.9	253.2
October	364.9	320.3	278.0	314.3	457.1	321.0	259.0
November	367.8	320.2	282.6	316.5	473.7	356.7	270.6
December	379.4	326.4	288.1	322.8	500.8	412.8	282.4
2011							
January	383.7	339.5	297.4	332.7	552.3	410.5	281.3
February	387.9	341.7	292.8	333.0	617.8	438.5	278.7
March	402.3	357.3	306.0	346.6	636.9	462.5	276.6
April	400.6	355.4	302.8	343.7	618.6	468.4	276.2
May	375.6	323.2	277.5	316.9	579.4	437.4	276.6
June	368.4	323.7	278.5	315.2	544.3	455.5	276.1

a Prices are on an estimated dressed weight basis and, with the exception of 'yearling', are for export quality stock: ox, 500–600 kilograms; cow, 400–520 kilograms; before January 1996, lamb, 16–18 kilograms, score 3; from January 1996, lamb, 18–20 kilograms, score 3; mutton, 18–24 kilograms, score 3, from July 2003, trade lamb, 18–22 kilograms, score 2–4, mutton, 18–24 kilograms, score 2–3, from June 2006, trade lamb 18–22 kilograms, score 2–4, mutton 18–24 kilograms, score 2–3; and pig, 60–75 kilograms. Quotation is the monthly average of fat stock prices in each major state market, weighted by the monthly production of each meat in the respective states. b Weighted average saleyard price for beef and veal. c Over-the-hooks.

Sources: Meat & Livestock Australia, *Meat the Market*, Sydney; National Livestock Reporting Service; Meat & Livestock Australia, *Meat and Livestock Weekly*; ABARES.

137 Australian retail prices of meat

	Beef ^a c/kg	Lamb ^a c/kg	Pork ^a c/kg	Chicken ^b c/kg
1988	814.4	519.6	621.9	463.6
1989	908.9	554.4	679.9	504.8
1990	961.6	582.6	700.2	502.6
1991	974.0	570.7	710.0	479.7
1992	963.7	551.8	698.7	456.0
1993	963.7	620.8	716.7	448.2
1994	997.4	611.0	719.6	422.6
1995	1 008.0	655.0	732.0	453.5
1996	991.0	708.8	771.6	481.3
1997	978.0	704.7	798.1	494.2
1998	982.3	696.1	773.7	484.6
1999	1 010.8	723.3	807.7	490.0
2000	1 061.0	724.3	850.1	477.7
2001	1 226.2	857.8	945.6	496.9
2002	1 320.7	982.8	1 024.8	503.4
2003	1 367.4	1 097.2	1 021.3	509.1
2004	1 400.3	1 159.2	1 025.5	533.8
2005	1 506.4	1 189.0	1 140.5	510.0
2006	1 551.9	1 225.9	1 168.3	490.0
2007	1 532.8	1 214.0	1 194.6	505.7
2008	1 579.5	1 276.7	1 261.2	550.8
2009	1 614.1	1 389.7	1 362.5	548.6
2010	1 602.3	1 454.7	1 355.9	545.5
2007				
March	1 515.8	1 191.1	1 212.4	494.3
June	1 545.0	1 220.9	1 183.8	497.4
September	1 538.5	1 222.1	1 173.4	505.1
December	1 531.9	1 222.1	1 208.9	526.0
2008				
March	1 579.0	1 249.0	1 236.0	551.5
June	1 571.4	1 272.4	1 263.2	552.0
September	1 572.4	1 277.0	1 258.3	548.5
December	1 595.0	1 308.5	1 287.5	551.0
2009				
March	1 627.1	1 389.8	1 388.4	553.6
June	1 620.5	1 401.9	1 372.4	541.8
September	1 605.4	1 397.3	1 341.8	549.5
December	1 603.5	1 369.8	1 347.4	549.5
2010				
March	1 613.9	1 415.6	1 346.0	540.3
June	1 608.2	1 451.1	1 359.2	544.9
September	1 623.3	1 469.4	1 328.6	543.9
December	1 563.9	1 482.6	1 389.8	553.1
2011				
March	1 555.4	1 581.7	1 381.5	554.6
June	1 558.2	1 618.9	1 366.2	558.2

^a Price estimates are formed by indexing forward from actual average prices of beef, lamb and pork during December quarter 1973, based on meat subgroup indexes of the consumer price index. These indexes are based on average retail prices of selected cuts (weighted by expenditure) in state capitals. ^b Price estimates are formed by indexing from the December quarter 2007 price for fresh whole chickens.

Source: ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra; ABS, *Average Retail Prices of Selected Items*, cat. no. 6403.0, Canberra.

138 Prices for Australian meat on principal overseas markets

	Beef				Mutton	Lamb	
	United States		Japan ^a		Japan ^a	United Arab Emirates ^a	United States ^a
	Boneless frozen ^b	Boneless frozen ^b	Boneless frozen	Boneless chilled	Boneless chilled ^c	Carcasses frozen	Carcasses frozen
	US\$/kg cif	A\$/kg fas	A\$/kg fob	A\$/kg fob	A\$/kg fob	A\$/kg fob	A\$/kg fob
1986	201.0	262.0	308.0	439.0	159.0	166.0	na
1987	229.0	283.0	341.0	464.0	186.0	184.0	na
1988	245.0	270.0	336.7	477.0	172.8	188.9	238.3
1989	270.7	295.0	339.4	527.3	189.7	186.3	231.3
1990	266.5	301.0	366.8	523.5	241.2	176.9	223.2
1991	265.5	304.4	344.2	571.5	190.3	199.2	229.1
1992	248.8	301.4	335.8	567.6	246.4	239.2	244.8
1993	264.8	354.9	318.7	585.2	283.8	213.3	299.8
1994	240.1	297.7	308.9	576.4	270.8	192.5	259.6
1995	194.5	227.8	269.5	582.1	310.0	213.1	277.0
1996	173.7	187.9	228.2	473.3	298.2	217.3	327.6
1997	187.5	218.4	236.7	486.8	263.4	234.4	351.4
1998	175.1	244.3	253.9	523.9	324.9	249.2	398.8
1999	189.8	259.7	270.9	540.7	344.5	222.8	374.2
2000	195.5	308.8	311.9	566.5	559.7	272.9	380.5
2001	214.7	384.0	374.6	650.3	717.8	290.6	472.9
2002	218.7	368.9	339.7	636.5	782.5	320.4	548.6
2003	214.2	291.0	315.1	645.2	728.6	322.2	505.0
2004	272.7	339.3	378.4	710.5	766.5	349.6	539.5
2005	282.1	336.4	367.0	708.5	519.0	362.1	547.5
2006	277.4	332.8	350.4	703.8	703.9	331.2	532.1
2007	281.0	302.5	319.9	668.9	925.9	315.7	512.8
2008	329.0	357.5	367.3	780.3	883.5	325.7	618.7
2009	281.8	326.9	350.7	683.3	793.4	375.2	721.1
2010	353.5	356.1	344.5	633.8	1031.2	511.1	710.5
2009							
March	265.6	362.7	395.3	763.6	535.5	385.0	822.5
June	279.7	336.0	357.8	687.3	949.1	384.5	761.0
September	291.1	319.1	337.5	656.6	816.6	408.1	699.2
December	290.8	289.8	312.1	625.5	872.5	323.2	601.5
2010							
March	334.0	338.9	328.5	647.3	1019.0	449.4	731.7
June	360.9	376.1	357.3	651.4	1025.1	498.0	836.2
September	351.3	360.5	348.6	625.8	982.5	603.5	788.5
December	368.0	346.1	343.7	610.6	1098.3	493.6	485.8
2011							
March	429.1	405.0	364.8	646.6	1 033.5	558.5	603.0
June	420.6	371.3	360.6	630.3	1 037.0	512.9	942.3

^a Average unit value of exports. ^b Beef that is 90 per cent chemical lean. ^c Fresh, chilled. Before and including 1987, figures are for the financial year ending June of the year quoted; from 1988 figures are for the calendar year ending December. **na** Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Meat & Livestock Australia, *Meat & Livestock Weekly*, Sydney.

139 Australian exports of meat, by product ^a

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Quantity									
Beef and veal ^b	kt	860	948	892	974	930	968	899	937
Mutton ^b	kt	120	137	145	162	158	146	111	86
Lamb ^b	kt	112	123	143	150	163	156	157	157
Pig meat ^b	kt	51	43	44	41	39	32	30	31
Poultry meat ^b	kt	20	20	22	28	30	37	28	31
Live sheep ^c	'000	3 843	3 233	4 248	4 138	4 069	4 064	3 055	2 909
Live cattle ^c	'000	578	550	537	636	708	845	871	728
Value ^d									
Beef and veal ^e	\$m	3 793	4 584	4 272	4 634	4 190	4 857	3 953	4 328
Mutton ^e	\$m	380	398	432	458	443	482	433	404
Lamb ^e	\$m	602	673	767	748	803	925	916	1 026
Pig meat	\$m	181	150	143	142	128	124	109	106
Poultry meat	\$m	20	20	21	26	32	43	36	38
Live sheep ^c	\$m	266	207	291	289	286	339	297	346
Live cattle ^c	\$m	314	335	341	436	446	538	550	499
Total	\$m	5 556	6 366	6 267	6 732	6 329	7 308	6 293	6 747
Unit value ^d									
Beef and veal	\$/kg	4.41	4.83	4.79	4.76	4.51	5.01	4.38	4.62
Mutton	\$/kg	3.16	2.93	2.98	2.84	2.81	3.28	3.97	4.70
Lamb	\$/kg	5.36	5.47	5.36	4.98	4.94	5.94	5.83	6.56
Pig meat	\$/kg	3.58	3.44	3.24	3.45	3.27	3.84	3.64	3.43
Poultry meat	\$/kg	0.98	1.01	0.97	0.93	1.06	1.15	1.30	1.25
Live sheep	\$/head	69.34	63.92	68.61	69.77	70.40	83.44	97.12	119.08
Live cattle	\$/head	545.95	609.38	637.70	694.08	633.64	637.46	634.23	683.33

^a Excludes re-exports and ships' stores. ^b Fresh, chilled and frozen; shipped weight. ^c Excludes animals for breeding. ^d fob. ^e Based on quantity data from DAFF and export price data from the ABS.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra; ABARES.

140 Summary of world statistics for livestock

	Livestock numbers		Production			
	Cattle	Sheep	Beef and veal	Mutton and lamb	Pig meat	Poultry meat
	million	million	Mt	Mt	Mt	Mt
1966	820	1 042	29.7	5.1	32.4	11.7
1967	833	1 061	31.3	5.3	33.9	12.4
1968	843	1 075	32.7	5.5	34.4	12.8
1969	849	1 081	33.9	5.4	34.1	13.7
1970	858	1 064	34.3	5.6	35.8	15.1
1971	871	1 067	34.1	5.7	39.4	15.7
1972	893	1 038	35.0	5.7	40.6	16.8
1973	912	1 017	35.8	5.4	40.5	17.6
1974	943	1 030	38.2	5.2	42.4	18.3
1975	1 039	1 049	41.6	5.3	41.7	18.7
1976	1 039	1 049	43.5	5.3	40.8	20.0
1977	1 031	1 039	43.8	5.4	43.0	21.2
1978	1 027	1 051	43.5	5.4	45.6	22.7
1979	1 051	1 070	41.8	5.4	50.1	24.6
1980	1 056	1 099	42.9	5.6	52.7	26.0
1981	1 058	1 114	43.2	5.9	53.0	27.5
1982	1 069	1 133	43.3	5.9	53.2	28.5
1983	1 072	1 128	43.4	6.1	55.5	29.2
1984	1 076	1 121	44.5	6.1	57.5	29.8
1985	1 086	1 121	45.5	6.2	60.0	31.2
1986	1 084	1 128	47.5	6.2	61.5	33.3
1987	1 085	1 144	48.7	6.3	63.6	35.9
1988	1 101	1 165	48.7	6.6	67.1	37.7
1989	1 101	1 200	49.6	6.8	68.2	38.6
1990	1 098	1 207	50.5	7.0	69.9	41.0
1991	1 074	1 183	50.3	7.1	71.9	43.1
1992	1 096	1 160	50.2	7.0	74.1	45.5
1993	998	1 119	47.4	7.1	76.5	48.1
1994	994	1 108	48.2	7.2	79.2	50.8
1995	1 081	1 072	49.0	7.2	80.1	54.6
1996	1 052	1 058	50.2	7.0	79.4	56.3
1997	1 044	1 040	51.8	7.2	83.1	59.7
1998	1 038	1 043	51.8	7.3	88.4	62.3
1999	1 032	1 050	52.9	7.3	89.3	65.2
2000	1 032	1 052	53.2	7.7	89.8	68.2
2001	1 022	1 030	52.7	7.6	91.0	70.6
2002	1 024	1 023	54.1	7.6	93.2	73.3
2003	1 021	1 035	54.4	7.7	95.6	74.6
2004	1 015	1 062	55.4	7.7	96.6	77.4
2005	1 018	1 089	56.0	7.9	99.1	79.8
2006	1 023	1 092	57.6	8.2	101.3	81.8
2007	1 026	1 087	58.4	8.3	100.3	86.3
2008	1 029	1 081	58.4	8.2	104.3	90.2
2009	1 024	1 074	57.1	8.1	106.3	91.9

Sources: UN FAO, FAOSTAT, Rome.

141 Summary of US meat statistics

	Unit	2003	2004	2005	2006	2007	2008	2009	2010
Cattle numbers ^a	million	96.1	94.4	95.0	96.3	96.6	96.0	94.5	93.9
Beef and veal ^b									
Production ^c	kt	12 039	11 261	11 318	11 980	12 097	12 163	11 891	12 047
Imports	kt	1 363	1 669	1 632	1 399	1 384	1 151	1 191	1 042
Exports and shipments	kt	1 142	209	316	519	650	905	878	1 043
Total consumption	kt	12 340	12 667	12 664	12 833	12 830	12 403	12 239	12 039
Consumption per person	kg	42.4	43.1	42.7	42.8	42.4	40.7	39.8	38.8
Pork ^b									
Production ^c	kt	9 056	9 313	9 392	9 559	9 962	10 599	10 442	10 186
Imports	kt	538	499	464	449	439	377	378	390
Exports and shipments	kt	779	989	1 209	1 359	1 425	2 110	1 857	1 916
Total consumption	kt	8 818	8 822	8 660	8 643	8 965	8 813	9 013	8 653
Consumption per person	kg	30.3	30.0	29.2	28.9	29.7	28.9	29.3	27.9
Poultry ^d									
Production ^c	kt	17 225	17 727	18 334	18 473	18 890	19 357	18 470	19 089
Exports and shipments	kt	2 451	2 371	2 618	2 609	2 926	3 463	3 335	3 333
Total consumption	kt	14 850	15 356	15 681	15 974	15 994	15 869	15 309	15 775
Consumption per person	kg	51.0	52.2	52.8	53.3	52.9	52.0	49.8	50.8

^a At 1 January. ^b Carcass weight equivalent. ^c Refers to commercial production, which excludes farm slaughter. ^d Retail weight equivalent.

Sources: US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

142 Summary of New Zealand meat statistics ^a

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Livestock numbers ^b									
Cattle	million	8.6	8.6	8.5	8.6	8.6	8.5	8.7	8.6
- dairy cattle	million	3.9	4.1	4.1	4.1	4.2	4.3	4.6	4.7
- beef cattle	million	4.6	4.4	4.4	4.4	4.4	4.1	4.1	3.9
Sheep	million	39.6	39.3	39.9	40.1	38.5	34.1	32.4	32.6
Production ^c									
Beef and veal	kt	660.2	709.6	651.8	641.6	622.9	634.6	634.5	635.3
Lamb	kt	411.3	437.6	438.5	452.7	446.4	397.6	375.2	354.8
Mutton	kt	107.0	105.2	103.1	120.5	148.8	101.9	95.7	108.8
Exports of meat ^d									
Beef and veal	kt	424.8	390.2	373.0	352.4	363.2	363.6	366.0	356.6
Lamb	kt	293.2	300.0	311.6	331.1	328.9	305.2	295.6	266.1
Mutton	kt	58.4	60.4	57.0	69.5	95.9	66.6	63.1	77.7
Consumption per person ^e									
Beef and veal	kg	30.5	29.6	31.1	32.8	28.9	28.0	27.0 ^s	27.0 ^s
Lamb	kg	9.3	10.3	10.7	10.9	10.3	7.5	7.0 ^s	7.0 ^s
Mutton	kg	3.1	3.0	2.9	3.2	2.9	2.8	2.8 ^s	2.8 ^s

^a October-September year. ^b At 30 June of second year shown. ^c Carcass weight. ^d Shipped weight. ^e Excludes meat withdrawn from export stocks for local consumption. ^s Estimate.

Sources: Meat and Wool New Zealand, *Annual Report*, Wellington; Meat and Wool New Zealand, Economic Service, Wellington; Beef and Lamb New Zealand, Wellington.

143 Gross value of Australian livestock slaughterings

	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11 ^s
	\$m	\$m	\$m	\$m	\$m	\$m
Livestock slaughterings						
Cattle and calves ^a	7 280.9	7 491.0	6 812.6	6 805.7	6 566.6	7 445.5
Cattle exported live ^b	404.0	496.9	540.7	646.0	701.2	659.6
Sheep ^c	443.6	380.0	400.1	427.8	498.5	484.5
Lambs ^{cd}	1 377.6	1 387.2	1 481.4	1 725.3	1 831.8	2 029.4
Sheep exported live ^e	291.5	288.7	286.4	339.1	296.7	346.4
Pigs	890.1	943.6	901.7	894.7	902.8	812.7
Poultry	1 222.7	1 294.1	1 636.7	1 861.5	1 784.7	2 179.3
Total	11 959.9	12 334.8	12 103.7	12 752.2	12 633.8	14 009.5

^a Includes dairy cattle slaughtered. ^b Includes animals for breeding. ^c Excludes skin values. ^d 18–20 kilograms dressed weight. ^e Excludes animals for breeding. ^s ABARES estimate.

Note: The gross value of production is the value placed on recorded production at the wholesale prices realised in the market place. The point of measurement can vary between commodities. Generally the market place is the metropolitan market in each state and territory. However, where commodities are consumed locally or where they become raw material for a secondary industry, these points are presumed to be the market place. Prices used in these calculations do not include the GST.

Sources: ABS; ABARES.

144 Australian supply and use of beef and veal

	Slaughtering ^a	Average weight ^b	Production ^b	Exports ^{bc}	Apparent consumption ^b
	'000	kg	kt	kt	kt
1965	6 564	154	1 013	na	na
1966	6 231	152	946	na	na
1967	5 597	155	869	na	na
1968	5 508	165	907	na	na
1969	5 788	164	952	na	na
1970	5 727	176	1 011	510	na
1971	6 093	173	1 054	574	na
1972	7 491	159	1 192	780	na
1973	8 443	172	1 453	920	na
1974	6 988	184	1 282	530	na
1975	9 596	171	1 638	777	na
1976	11 434	166	1 899	905	917
1977	12 791	169	2 158	1 138	986
1978	12 345	173	2 131	1 199	937
1979	9 839	180	1 770	1 096	728
1980	8 833	174	1 534	883	663
1981	8 099	176	1 422	711	716
1982	9 460	177	1 678	942	754
1983	8 118	174	1 414	767	655
1984	6 824	186	1 272	581	695
1985	7 151	187	1 338	690	637
1986	7 883	188	1 481	809	668
1987	8 048	194	1 564	908	654
1988	7 723	201	1 551	868	688
1989	7 483	210	1 573	850	731
1990	8 253	211	1 738	1 052	688
1991	8 427	208	1 749	1 068	687
1992	8 731	210	1 834	1 183	653
1993	8 343	217	1 814	1 158	656
1994	8 366	221	1 845	1 160	696
1995	7 906	217	1 719	1 092	636
1996	7 968	218	1 734	1 016	723
1997	9 148	212	1 939	1 175	768
1998	9 308	213	1 987	1 268	721
1999	8 756	227	1 991	1 272	721
2000	8 734	235	2 053	1 329	726
2001	8 764	237	2 079	1 407	674
2002	9 050	231	2 090	1 362	729
2003	8 906	224	1 998	1 246	754
2004	8 803	240	2 113	1 357	762
2005	8 466	247	2 090	1 343	755
2006	8 854	247	2 188	1 408	786
2007	8 960	243	2 180	1 387	797
2008	8 771	246	2 161	1 411	752
2009	8 411	250	2 106	1 370	741
2010	8 273	257	2 129	1 358	775

^a Includes calves. Excludes on-farm slaughter from July 2007. ^b Carcass weight. ^c Includes canned and miscellaneous product. **na** Not available.

Sources: ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra; ABARES.

145 Australian cattle numbers, by state and territory ^a

	New South Wales '000	Victoria '000	Queensland '000	South Australia '000	Western Australia '000	Tasmania '000	Northern Territory '000	Australian Capital Territory '000	Australia '000
Adult female beef cattle									
2001	2 849	1 138	5 304	516	1 013	201	981	6	12 007
2002	2 852	1 158	5 762	594	1 013	199	1 069	6	12 652
2003	2 809	1 240	5 380	590	981	219	1 023	5	12 245
2004	2 873	1 185	5 638	568	1 049	233	1 019	5	12 570
2005	2 879	1 276	5 979	645	1 117	243	1 089	5	13 234
2006	2 997	1 272	5 745	591	1 199	228	1 160	5	13 197
2007	2 883	1 218	5 589	527	1 144	223	1 211	6	12 800
2008	2 982	1 206	6 113	533	1 217	224	1 193	4	13 472
2009	2 915	1 092	5 911	543	1 201	199	1 037	5	12 903
2010	2 796	1 016	5 953	489	1 214	217	1 256	5	12 946
2011	2 863	1 155	6 387	543	1 122	226	1 294	6	13 596
Total beef cattle and calves									
2001	5 786	2 435	11 088	1 050	2 001	426	1 707	11	24 504
2002	5 593	2 463	11 284	1 201	1 980	432	1 777	10	24 739
2003	5 419	2 491	10 507	1 209	1 815	482	1 683	8	23 615
2004	5 416	2 390	11 245	1 164	1 962	496	1 730	8	24 410
2005	5 464	2 601	11 655	1 253	2 060	510	1 771	9	25 323
2006	5 862	2 646	11 354	1 161	2 275	501	1 798	9	25 605
2007	5 609	2 575	11 495	1 067	2 223	481	1 912	11	25 373
2008	5 330	2 254	11 731	966	2 012	444	2 041	6	24 784
2009	5 533	2 234	12 151	1 042	2 220	426	1 681	7	25 294
2010	5 108	2 080	11 193	904	2 206	446	2 066	6	24 009
2011	5 504	2 412	12 657	1 146	1 990	468	2 020	10	26 206
Total dairy cattle and calves									
2001	428	1 971	288	192	126	210	0	0	3 217
2002	428	1 949	260	180	124	187	0	0	3 131
2003	398	1 896	233	191	130	200	0	0	3 049
2004	400	1 890	255	188	133	189	0	0	3 055
2005	373	1 843	207	150	109	179	0	0	2 860
2006	349	1 758	194	168	116	203	0	0	2 788
2007	326	1 668	189	176	104	201	0	0	2 663
2008	321	1 583	174	160	101	198	0	0	2 537
2009	323	1 619	181	165	98	226	0	0	2 612
2010	348	1 589	162	139	113	192	1	1	2 542
2011	323	1 626	172	145	112	225	0	0	2 603
Total cattle and calves									
2001	6 215	4 405	11 376	1 242	2 128	636	1 707	11	27 722
2002	6 021	4 412	11 544	1 381	2 104	619	1 777	10	27 870
2003	5 817	4 388	10 740	1 401	1 945	682	1 683	8	26 664
2004	5 816	4 281	11 500	1 352	2 095	684	1 730	8	27 465
2005	5 837	4 444	11 862	1 403	2 169	689	1 771	9	28 183
2006	6 211	4 403	11 548	1 329	2 391	704	1 798	9	28 393
2007	5 935	4 243	11 684	1 242	2 327	682	1 912	11	28 037
2008	5 651	3 837	11 905	1 126	2 113	642	2 041	6	27 321
2009	5 856	3 854	12 332	1 207	2 318	652	1 681	7	27 907
2010	5 455	3 668	11 356	1 042	2 319	637	2 066	6	26 550
2011	5 827	4 038	12 829	1 291	2 102	693	2 020	10	28 809

^a At 31 March, an establishment with an estimated value of agricultural operations (EVAO) of \$5000 or more. From 2000, at 30 June. House cows are excluded.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARES.

146 Volume of Australian exports of beef, veal and live cattle, by destination

	Unit	2003	2004	2005	2006	2007	2008	2009	2010
Beef and veal ^a									
Americas									
Canada	kt	29.0	7.5	7.6	9.6	12.3	8.5	12.3	7.4
United States	kt	367.9	347.2	317.5	295.2	296.1	234.8	251.1	185.0
Asia									
Chinese Taipei	kt	31.1	26.5	27.8	28.6	29.1	27.1	31.3	30.8
Hong Kong, China	kt	2.1	2.4	1.8	1.8	2.4	3.2	7.5	7.0
Indonesia	kt	13.0	7.1	8.8	12.2	26.8	33.0	51.8	48.4
Japan	kt	279.3	393.5	405.1	405.8	377.9	364.3	356.6	356.2
Korea, Rep. of	kt	62.3	93.3	106.4	149.6	148.9	127.2	115.5	124.2
Malaysia	kt	6.5	4.8	2.3	2.0	3.3	6.2	8.0	11.7
Philippines	kt	8.6	2.1	3.0	1.9	3.4	14.1	17.0	19.2
Singapore	kt	3.7	2.1	1.9	3.2	5.5	8.1	7.5	7.6
Europe									
European Union ^b	kt	5.5	6.7	6.5	8.5	6.0	11.9	9.2	9.8
CIS	kt	0.3	0.4	0.5	12.5	5.1	72.2	14.7	56.7
Eastern Europe	kt	1.4	0.4	0.1	0.0	0.0	0.8	0.5	0.4
Middle East									
Kuwait	kt	2.5	0.7	0.2	0.2	0.5	1.1	1.5	2.1
Saudi Arabia	kt	1.8	0.7	0.3	1.0	0.9	3.7	3.0	3.4
United Arab Emirates	kt	1.1	1.2	1.3	1.4	1.8	4.3	4.4	5.8
Oceania									
New Zealand	kt	3.5	2.3	2.0	1.7	1.6	2.2	1.6	1.7
Pacific Isles	kt	2.1	1.7	1.5	2.0	3.3	3.5	3.4	2.7
Papua New Guinea	kt	2.3	2.5	2.2	2.7	3.6	4.7	4.3	6.2
Total beef and veal	kt	840.9	913.8	909.4	953.9	941.4	957.5	927.3	922.8
Live cattle									
Slaughter cattle									
Asia									
Indonesia	'000	375.8	357.1	348.0	386.6	517.0	644.6	756.3	517.5
Japan	'000	21.0	17.1	24.2	20.2	21.1	19.8	15.7	14.7
Malaysia	'000	86.4	47.4	38.1	55.7	33.6	16.1	12.3	16.3
Philippines	'000	74.5	46.7	20.6	13.1	20.3	10.7	12.1	16.2
Middle East									
Egypt	'000	7.6	0.0	7.0	0.0	0.0	0.0	0.0	56.4
Israel	'000	43.2	20.9	32.0	79.4	36.9	51.7	36.9	40.3
Jordan	'000	23.1	34.2	17.0	5.9	4.0	0.8	27.6	19.3
Saudi Arabia	'000	15.7	0.0	17.5	27.6	11.8	16.6	16.4	16.5
Total slaughter cattle	'000	686.3	551.8	517.4	602.5	664.7	807.5	891.1	796.2
Breeding cattle									
China	'000	40.7	71.2	31.8	2.6	8.7	12.8	32.8	52.6
Indonesia	'000	11.3	2.5	0.7	1.6	0.0	0.0	16.6	3.5
Russian Federation	'000	0.0	0.0	0.0	7.4	8.5	20.1	2.4	11.8
Total breeding cattle	'000	90.5	86.0	55.4	31.8	54.8	61.0	63.0	78.7
Total live cattle	'000	776.8	637.7	572.8	634.3	719.5	868.5	954.1	874.9

^a Fresh, chilled or frozen, in shipped weight. ^b Regarded as 15 countries to May 2004, 25 countries from June 2004, then 27 countries from January 2007.

Sources: Department of Agriculture, Fisheries and Forestry, *Export Statistics, Livestock Exports*, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

147 Value of Australian exports of beef and veal, and live cattle (fob)

	2003	2004	2005	2006	2007	2008	2009	2010
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Beef and veal								
Americas								
Canada	110.9	38.1	32.6	43.8	51.2	43.7	48.2	30.5
United States	1 332.3	1 374.4	1 186.4	1 180.7	1 136.3	1 039.2	966.4	771.1
Asia								
Chinese Taipei	126.8	124.2	135.8	134.6	117.4	123.8	136.1	137.8
Hong Kong, China	15.2	27.3	18.7	13.5	21.5	20.6	42.8	44.1
Indonesia	38.4	26.7	33.5	39.0	83.3	113.1	173.8	174.3
Japan	1 384.4	2 189.9	2 244.7	2 172.1	1 844.0	2 009.2	1 810.9	1 696.5
Korea, Rep. of	250.7	434.4	494.8	734.7	725.6	636.3	479.2	558.7
Malaysia	15.9	12.1	7.8	10.0	17.1	29.7	32.4	49.9
Philippines	22.9	4.3	5.9	3.7	7.2	46.4	46.0	53.3
Singapore	22.5	17.3	15.5	19.2	29.7	39.1	39.4	42.8
Europe								
European Union ^a	47.4	62.7	56.6	77.2	61.6	117.0	87.1	88.0
CIS	0.7	2.0	4.6	61.0	32.2	293.3	65.4	240.7
Eastern Europe	4.5	1.2	0.4	0.0	0.1	3.2	1.7	1.9
Middle East								
Kuwait	9.8	3.4	1.0	0.9	2.3	5.0	5.8	9.4
Saudi Arabia	7.8	3.1	1.7	4.5	3.0	14.0	10.7	11.1
United Arab Emirates	7.8	12.0	13.7	15.6	20.4	35.3	34.9	41.3
Oceania								
New Zealand	16.0	9.8	8.7	8.0	7.8	10.6	7.0	7.5
Pacific Isles	5.4	4.5	4.0	6.3	10.0	10.8	10.3	8.0
Papua New Guinea	4.9	5.2	4.3	5.8	7.6	12.0	11.2	16.9
Total beef and veal	3 475.4	4 390.3	4 346.6	4 604.0	4 258.1	4 782.7	4 144.5	4 167.3
Live cattle								
Slaughter cattle ^b								
Asia								
Indonesia	203.4	207.5	208.8	246.0	341.4	409.5	466.4	316.5
Japan	16.6	14.6	19.6	17.3	18.4	17.4	13.3	17.2
Malaysia	38.9	25.2	20.1	30.5	19.6	11.5	8.3	10.9
Philippines	39.1	30.1	11.5	7.7	14.0	7.5	6.9	8.7
Middle East								
Egypt	5.0	0.0	3.8	0.0	0.0	0.0	0.0	48.2
Israel	22.8	11.9	20.6	58.2	23.2	30.2	20.7	25.0
Jordan	12.9	15.3	10.2	4.3	2.1	0.5	14.6	10.2
Libya	0.0	0.0	0.0	0.0	4.5	19.3	0.0	10.2
Saudi Arabia	9.4	0.0	11.0	19.3	6.4	9.0	9.8	13.0
Total slaughter cattle	376.5	327.9	318.3	399.4	440.1	512.0	551.5	531.4
Breeding cattle								
China	70.0	133.7	55.7	4.4	14.9	25.3	70.6	105.9
Indonesia	8.3	1.4	0.3	0.9	0.1	0.7	13.1	2.8
Russian Federation	0.0	0.0	0.0	11.6	14.8	53.1	8.8	26.9
Total breeding cattle	109.7	149.7	89.2	47.5	79.8	126.0	115.0	153.2
Total live cattle	486.2	477.6	407.5	446.9	520.0	638.0	666.5	684.5

^a Regarded as 15 countries to May 2004, 25 countries from June 2004, then 27 countries from January 2007. ^b Excludes animals for breeding.
Sources: Department of Agriculture, Fisheries and Forestry, *Export Statistics, Livestock Exports*, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

148 World cattle numbers, by country ^a

	2003	2004	2005	2006	2007	2008	2009	2010
	million	million	million	million	million	million	million	million
Argentina	53.1	54.0	53.8	54.3	55.7	55.7	54.3	49.1
Australia ^b	26.7	27.5	28.2	28.4	28.0	27.3	27.9	26.6
Brazil	161.5	165.5	169.6	172.1	173.8	175.4	179.5	185.2
Canada	13.5	14.6	14.9	14.7	14.2	13.9	13.2	12.9
China ^c	115.7	114.3	112.4	109.9	104.7	105.9	105.7	105.4
European Union ^d	91.6	90.4	89.3	89.7	88.5	89.0	88.8	88.3
Japan	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4
New Zealand	8.3	8.6	8.6	8.5	8.6	8.6	8.5	8.7
Russian Federation	26.8	25.1	23.2	21.6	21.6	21.5	21.0	20.7
South Africa	13.6	13.5	13.5	13.8	13.9	14.1	14.2	0.0
Ukraine	9.1	7.7	7.0	6.5	6.2	5.5	5.1	4.8
United States	96.1	94.4	95.0	96.3	96.6	96.0	94.5	93.9
Uruguay	12.3	12.6	12.5	12.3	11.9	11.9	12.0	11.8
World	1 020.6	1 015.3	1 017.6	1 023.5	1 025.9	1 029.1	1 023.8	1 010.2

^a As close as possible to 1 January. Includes dairy cattle. ^b Includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5000 or more. ^c Excludes Hong Kong. ^d Regarded as 27 countries.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; Meat and Wool Economic Service of New Zealand, *Annual Review of the New Zealand Sheep and Beef Industry*, Wellington; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

149 World beef and veal production, by country ^a

	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	2 800	3 130	3 200	3 100	3 300	3 150	3 380	2 620
Australia	1 998	2 113	2 090	2 188	2 180	2 161	2 106	2 129
Brazil	7 385	7 975	8 592	9 025	9 303	9 024	8 935	9 115
Canada	1 204	1 500	1 470	1 329	1 278	1 289	1 252	1 272
China ^b	5 425	5 604	5 681	5 767	6 134	6 132	5 764	5 600
European Union ^c	8 304	8 245	8 090	8 150	8 188	8 090	7 913	8 022
Japan	496	514	500	497	504	520	518	515
Mexico	1 950	1 900	1 725	1 550	1 600	1 667	1 700	1 751
New Zealand	660	710	652	642	623	635	635	635
Russian Federation	1 680	1 640	1 520	1 450	1 430	1 490	1 460	1 435
South Africa	613	655	679	725	680	678	684	690
United States	12 039	11 261	11 318	11 980	12 097	12 163	11 891	12 047
Uruguay	450	544	600	640	560	535	580	565
World	54 382	55 411	56 021	57 572	58 433	58 350	57 148	57 043

^a Carcass weight equivalent. ^b Excludes Hong Kong. ^c Regarded as 27 countries.

Sources: ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; Meat and Wool Economic Service of New Zealand, *Annual Review of the New Zealand Sheep and Beef Industry*, Wellington; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

150 Volume of trade in beef and veal, by selected countries ^a

	2002	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports									
Argentina	345	382	616	754	552	534	423	655	298
Australia	1 362	1 246	1 357	1 343	1 408	1 387	1 411	1 370	1 358
Brazil	872	1 162	1 610	1 845	2 084	2 189	1 801	1 596	1 558
Canada	657	413	603	596	477	457	494	480	523
China ^b	37	36	52	76	85	81	58	38	51
European Union ^c	580	438	363	253	218	140	204	148	337
India	411	432	492	617	681	678	672	609	917
New Zealand	475	548	594	577	530	496	533	514	530
United States	1 110	1 142	209	316	519	650	905	878	1 043
Uruguay	225	282	354	417	460	385	361	376	347
Total	6 461	6 532	6 709	7 374	7 581	7 627	7 602	7 432	7 752
Imports									
Brazil	77	62	52	48	28	30	29	35	35
Canada	340	304	123	151	180	242	230	247	243
Chinese Taipei	91	101	82	95	104	102	103	112	130
Egypt	179	128	174	222	292	293	166	180	260
European Union ^c	532	549	641	711	717	642	466	497	437
Japan	697	833	634	686	678	686	659	697	721
Korea, Rep. of	442	457	224	250	298	308	295	315	366
Russian Federation	736	745	771	1 038	1 018	1 087	1 200	1 005	1 020
United States	1 459	1 363	1 669	1 632	1 399	1 384	1 151	1 191	1 042
Total	6 199	6 284	6 286	6 863	6 894	7 215	6 962	6 832	6 901

^a Carcass weight. ^b Excludes Hong Kong. ^c Excludes intra-EU trade. Regarded as 27 countries.

Sources: US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra.

151 Summary of Japanese beef and veal statistics

	Unit	2003	2004	2005	2006	2007	2008	2009	2010
Cattle numbers ^a									
Beef ^b	'000	2 805	2 788	2 747	2 755	2 806	2 890	2 923	2 892
Dairy ^c	'000	1 731	1 688	1 628	1 636	1 668	1 703	1 655	1 516
Total	'000	4 536	4 476	4 375	4 391	4 474	4 593	4 578	4 408
Cattle slaughtering									
Wagyu	'000	461.2	464.1	462.9	449.7	447.5	467.0	494.8	507.1
Dairy	'000	726.3	773.2	739.1	740.6	729.1	737.6	702.3	410.4
Calves	'000	7.9	10.1	9.3	7.2	8.2	11.0	10.9	9.6
Total	'000	1 195.4	1 247.4	1 211.3	1 197.5	1 184.8	1 215.6	1 208.0	927.1
Production ^d									
Wagyu beef	kt	217.1	188.4	190.9	192.5	190.9	194.6	204.0	206.2
Dairy beef	kt	313.6	300.5	313.7	297.8	296.8	298.5	304.6	252.4
Veal	kt	0.6	1.0	1.1	1.0	0.8	0.9	1.2	0.9
Total	kt	536.0	495.0	512.5	498.4	496.2	503.0	518.9	459.5
Imports									
Fresh or chilled beef and veal ^e									
Australia	kt	150.9	203.6	222.9	208.2	188.1	159.2	168.6	155.0
Canada	kt	2.3	0.0	0.0	1.7	2.2	2.0	2.5	3.7
New Zealand	kt	2.9	3.7	4.6	5.7	6.1	5.9	6.1	7.3
United States	kt	114.1	0.0	0.0	5.1	17.8	31.1	34.5	44.1
Other	kt	0.0	0.7	2.6	2.5	1.7	1.4	1.1	1.2
Total	kt	270.2	208.1	230.1	223.2	215.9	199.6	212.8	211.4
Frozen beef and veal ^e									
Australia	kt	132.7	190.4	188.5	197.4	205.7	199.1	195.3	196.1
Canada	kt	5.2	0.0	0.0	0.4	1.2	2.7	6.1	9.2
New Zealand	kt	15.2	30.2	34.6	31.1	27.2	26.2	23.0	24.3
United States	kt	153.2	1.3	0.0	2.2	16.3	23.0	34.7	47.5
Other	kt	0.5	2.5	8.4	5.0	6.8	8.9	8.7	11.1
Total	kt	306.8	224.4	231.5	236.1	257.2	259.8	267.7	288.1
Total beef and veal ^{ef}									
Australia	kt	283.7	394.1	411.3	405.6	393.8	358.2	363.9	351.1
Canada	kt	7.5	0.0	0.0	2.1	3.4	4.7	8.5	12.9
New Zealand	kt	18.1	33.9	39.2	36.8	33.3	32.1	29.1	31.6
United States	kt	267.3	1.3	0.0	7.3	34.1	54.1	69.2	91.6
Other	kt	0.6	4.3	11.3	7.7	8.7	10.3	9.8	12.3
Total	kt	577.0	432.5	461.6	459.3	473.1	459.4	480.5	499.5
Prices									
Wagyu steer ^g	¥/kg	1 462	1 640	1 844	2 000	2 069	2 075	1 980	1 745
Dairy steer ^h	¥/kg	482	584	694	856	897	914	804	821

^a At 1 February. ^b Includes dairy steers. ^c Cows only. ^d Carcass weight. ^e Product weight. ^f Total includes cheek meat, head meat and cooked meat. ^g Prices for an average of A3–A4 type steers at Tokyo Central Wholesale Meat Market. ^h Prices for an average of B2–B3 type steers at Tokyo Central Wholesale Meat Market.

Sources: Japanese Ministry of Agriculture, Forestry and Fisheries, *Meat Statistics in Japan*, Tokyo; Agriculture and Livestock Industries Corporation, *Monthly Statistics*, Tokyo.

152 Summary of Korean beef and veal statistics

	Native cattle numbers ^a	Production ^b kt	Consumption		Average prices		
			Imported beef and veal ^b kt	Total beef and veal ^b kt	Farm ^c won/kg	Wholesale ^d won/kg	Retail ^e won/kg
	'000	kt	kt	kt	won/kg	won/kg	won/kg
1970	1 284	54.0	0.0	37.3	na	na	658
1971	1 247	48.0	0.0	39.5	na	na	883
1972	1 333	42.0	0.3	40.2	na	na	1 013
1973	1 486	45.0	0.1	44.9	na	na	1 097
1974	1 778	49.0	0.0	51.5	na	na	1 315
1975	1 546	71.0	0.0	70.3	na	1 127	1 487
1976	1 451	103.0	1.0	75.5	na	1 707	2 123
1977	1 492	106.0	6.6	81.6	1 307	2 371	2 758
1978	1 624	102.0	2.2	114.7	1 712	2 729	3 460
1979	1 563	118.0	6.2	113.8	1 671	2 818	3 858
1980	1 390	127.0	10.6	100.0	1 963	3 577	4 820
1981	1 283	94.0	3.7	93.2	2 903	4 834	6 464
1982	1 526	83.0	4.5	106.5	3 539	5 437	7 432
1983	1 940	90.0	1.0	115.5	3 801	5 927	8 236
1984	2 318	122.0	1.8	106.6	3 577	5 723	8 316
1985	2 533	161.0	8.3	120.3	2 763	4 384	7 054
1986	2 370	208.0	3.6	147.9	2 487	3 875	6 234
1987	1 923	206.0	0.0	151.9	2 536	3 904	6 396
1988	1 589	175.0	14.2	141.5	3 511	5 500	8 276
1989	1 536	124.0	57.1	143.3	4 335	6 243	10 426
1990	1 622	131.0	81.9	177.0	4 811	6 629	11 450
1991	1 773	136.0	129.0	223.3	5 480	7 328	12 884
1992	2 019	137.0	127.3	226.9	6 007	7 634	14 170
1993	2 260	176.0	103.4	233.0	5 385	6 811	14 790
1994	2 393	200.0	122.5	269.8	5 835	7 244	15 438
1995	2 594	214.0	146.5	301.2	6 346	7 914	16 186
1996	2 844	236.0	149.2	322.9	5 696	6 971	16 236
1997	2 735	310.0	134.2	362.0	4 852	5 618	15 074
1998	2 383	348.0	87.1	345.5	4 014	5 438	13 822
1999	1 952	305.0	197.5	392.7	4 976	7 028	14 470
2000	1 590	278.0	237.8	402.4	5 504	7 414	17 418
2001	1 406	221.0	166.0	384.1	6 490	8 842	19 234
2002	1 410	192.0	292.0	402.7	7 853	9 127	29 478
2003	1 480	182.0	293.7	390.2	7 813	9 446	31 300
2004	1 666	186.0	132.9	327.8	7 093	8 703	30 448
2005	1 819	195.0	142.6	316.9	7 711	10 875	37 304
2006	2 020	200.0	179.4	330.6	7 426	14 345	31 601
2007	2 201	219.0	202.8	368.7	9 402	14 770	41 245
2008	2 430	246.0	224.1	365.1	7 754	14 002	40 219
2009	2 635	267.0	197.9	395.5	10 066	15 863	34 699
2010	2 922	247.0	245.1	na	7 873	16 125	42 176

^a At 1 December. ^b Boneless weight. ^c Korean native cattle, 400 kilograms. From 1995, 500 kilograms, male. ^d Beef (carcass). ^e Beef (boneless), all cities. **na** Not available.

Sources: Republic of Korea National Livestock Co-operatives Federation, *Materials on Price, Demand and Supply of Livestock Products*, Seoul; Korean Meat Trade Association; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

153 Australian supply and use of pig and poultry meats

	Unit	2002	2003	2004	2005	2006	2007	2008	2009	2010
Pig meat										
Pig numbers a	'000	2 940	2 658	2 548	2 538	2 733	2 605	2 412	2 302	2 289
Breeding sows and gilts a	'000	356	352	318	348	352	340	313	278	269
Slaughterings b	'000	5 603	5 723	5 440	5 372	5 320	5 350	4 842	4 500	4 617
Average slaughter weight c	kg	72.7	73.2	72.6	72.7	71.9	72.2	71.9	71.9	73.4
Production c	kt	407.3	418.9	394.8	390.3	382.7	386.1	348.0	323.7	338.7
Imports cd	kt	92.6	112.0	127.1	162.3	169.0	218.4	234.5	272.3	283.1
Exports cd	kt	91.5	88.3	70.4	64.7	67.2	60.8	55.3	45.4	50.1
Total consumption ce	kt	408.4	442.6	451.6	488.0	484.4	543.7	527.2	550.6	571.7
Consumption per person cd	kg	20.7	22.1	22.3	23.8	23.2	25.6	24.3	24.9	25.5
Poultry meat f										
Slaughterings	million	428.2	418.3	435.6	432.9	444.8	458.6	462.8	468.7	512.2
Average dressed weight c	kg	1.7	1.7	1.7	1.9	1.9	1.9	1.8	1.8	1.9
Production c	kt	736.6	719.3	758.5	802.7	840.1	855.9	838.9	865.0	972.0
Exports c	kt	28.1	27.1	24.6	29.0	26.8	37.3	40.3	40.7	35.3
Total consumption e	kt	708.5	692.2	733.9	773.7	813.3	818.5	798.6	824.4	936.7
Consumption per person	kg	35.8	34.6	36.2	37.7	39.0	38.5	36.7	37.2	41.7

a Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5000. **b** Excludes on-farm slaughter from July 2007. **c** Carcass weight. **d** Includes preserved pig meat. **e** Apparent consumption. **f** Includes chicken, turkey and duck.

Sources: ABS, *Apparent Consumption of Foodstuffs*, cat. no. 4306.0, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARES.

154 Australian pig numbers, by state and territory ^a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
	'000	'000	'000	'000	'000	'000	'000	'000	'000
1995-96	710	458	603	314	412	26	0	na	2 526
1996-97	729	485	600	297	417	24	2	na	2 555
1997-98	849	518	648	303	424	24	2	na	2 768
1998-99	778	521	621	277	406	22	2	na	2 626
1999-00	710	523	544	276	438	18	2	na	2 511
2000-01	845	557	597	286	438	22	2	na	2 748
2001-02	833	673	643	361	410	18	3	na	2 940
2002-03	729	555	663	309	381	19	3	na	2 658
2003-04	624	547	691	291	378	14	3	na	2 548
2004-05	732	524	666	266	335	12	2	na	2 538
2005-06	655	668	691	296	403	17	2	na	2 733
2006-07	741	463	695	326	360	19	0	na	2 605
2007-08	770	394	610	262	363	13	0	na	2 412
2008-09	649	414	596	236	390	16	0	na	2 302
2009-10	585	510	583	219	381	11	0	na	2 289
2010-11	505	508	667	263	386	13	0	na	2 343

a At 31 March. From 2000, at 30 June. Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5000 or more. **na** Not available.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARES.

155 World pig and poultry meat production in selected countries a

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Pig meat								
Australia	419	395	390	383	386	348	324	339
Canada	1 730	1 780	1 765	1 748	1 746	1 786	1 789	1 772
China b	42 386	43 410	45 553	46 505	42 878	46 205	48 905	51 070
Denmark	1 762	1 809	1 793	1 749	1 802	1 707	1 583	1 666
France	2 333	2 311	2 274	2 263	2 281	2 277	2 004	2 010
Germany	4 239	4 308	4 500	4 662	4 985	5 114	5 241	5 443
Netherlands	1 253	1 287	1 297	1 265	1 290	1 318	1 275	1 288
Russian Federation	1 481	1 433	1 334	1 444	1 640	1 736	1 844	1 920
United States	9 056	9 313	9 392	9 559	9 962	10 599	10 442	10 186
Poultry meat								
Australia	719	758	803	840	856	839	865	972
Brazil	7 917	8 723	9 710	9 708	10 763	11 498	11 489	12 797
Canada	1 078	1 091	1 132	1 135	1 176	1 197	1 178	1 182
China b	9 902	10 002	10 204	10 354	11 296	11 845	12 105	12 556
France	1 871	1 840	1 797	1 722	1 716	1 706	1 670	1 712
Italy	966	1 001	1 013	919	1 029	1 116	1 143	1 180
Japan	1 127	1 124	1 166	1 258	1 250	1 255	1 282	1 290
Russian Federation	653	779	961	1 196	1 440	1 719	2 091	2 380
Thailand	1 340	900	950	1 100	1 050	1 170	1 200	1 280
United States	17 225	17 727	18 334	18 473	18 890	19 357	18 470	19 089

a Carcass weight equivalent. **b** Excludes Hong Kong.

Sources: ABS, *Livestock Products, Australia*, cat.no. 7215.0, Canberra; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington, DC; Meat and Livestock Commission, *European Handbook*, Milton Keynes, UK. European Commission, *Eurostat*, Luxembourg.

156 Volume of world pig meat trade for selected countries a

	2002 kt	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Exports b									
Australia	92	88	70	65	67	61	55	45	50
Canada	864	975	972	1 084	1 081	1 033	1 129	1 123	1 159
China c	307	397	537	502	544	350	223	232	278
European Union d	993	1 140	1 302	1 143	1 285	1 286	1 727	1 415	1 754
United States	731	779	989	1 209	1 359	1 425	2 110	1 857	1 916
Imports b									
Australia	93	112	127	162	169	218	234	272	283
Hong Kong, China	237	260	285	263	277	302	346	369	347
Japan	1 108	1 091	1 269	1 314	1 154	1 210	1 267	1 138	1 198
European Union d	31	44	53	99	125	34	56	38	25
United States	486	538	499	464	449	439	377	378	390

a Carcass weight equivalent. **b** Excludes intra-EU trade. **c** Excludes Hong Kong. **d** Regarded as 27 countries.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

157 Australian supply and use of mutton and lamb

	Slaughterings ^a '000	Average weight ^b kg	Production ^b kt	Exports ^{bc} kt	Apparent Consumption ^b kt
Mutton					
1988	13 130	19.9	261.3	153.0	111.8
1989	13 698	20.6	282.6	149.3	131.9
1990	17 254	20.7	358.0	212.8	122.6
1991	18 750	21.0	394.6	262.5	146.5
1992	18 186	20.7	376.6	251.4	124.7
1993	18 047	21.5	387.9	234.4	149.4
1994	17 991	20.9	375.3	242.3	154.2
1995	15 228	20.5	312.1	208.6	101.4
1996	14 447	21.1	304.1	198.4	108.6
1997	15 552	20.5	319.6	209.2	113.1
1998	15 316	20.6	316.2	208.9	108.1
1999	14 723	21.0	309.8	209.4	94.0
2000	16 379	21.1	345.7	235.5	110.2
2001	15 789	20.6	325.5	226.6	98.9
2002	14 873	20.0	296.7	217.6	82.2
2003	10 522	20.3	213.7	150.4	63.7
2004	11 145	20.9	233.0	169.7	53.4
2005	11 636	20.7	241.1	180.0	61.1
2006	13 113	20.5	269.4	204.7	64.7
2007	11 661	21.0	245.2	189.0	56.2
2008	11 235	21.4	240.1	200.9	39.2
2009	9 411	21.2	199.8	170.9	28.9
2010	6 159	22.6	139.1	128.6	10.5
Lamb					
1988	16 675	17.4	289.9	47.2	244.1
1989	16 864	17.8	299.6	41.5	257.4
1990	16 549	17.5	289.0	43.5	243.8
1991	15 818	17.4	274.3	42.0	232.7
1992	15 595	17.6	274.7	45.5	230.5
1993	14 668	17.6	258.7	56.2	200.5
1994	15 718	17.9	281.3	64.5	220.1
1995	14 680	17.9	263.0	55.1	207.7
1996	14 069	18.5	260.8	62.6	197.2
1997	14 924	18.8	279.9	78.3	201.6
1998	15 659	19.2	300.8	88.1	212.2
1999	16 346	19.5	318.8	101.1	216.9
2000	18 507	19.9	368.2	125.2	243.0
2001	17 897	19.7	352.6	124.9	227.8
2002	17 086	19.8	337.6	116.1	221.6
2003	16 430	20.1	329.8	122.5	207.3
2004	16 675	20.4	340.2	131.3	208.9
2005	18 228	20.6	374.8	169.8	205.0
2006	19 483	20.5	399.8	175.9	223.8
2007	20 971	20.8	435.6	192.6	243.0
2008	19 970	20.4	406.6	179.3	227.3
2009	20 493	20.7	424.5	197.9	226.5
2010	18 609	21.6	401.9	186.4	215.4

^a Excludes on-farm slaughter from July 2007. ^b Carcass weight. ^c Excludes canned and miscellaneous product.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra; ABARES.

158 Australian sheep numbers, by state and territory ^a

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Australian Capital Territory	Australia
	million	million	million	million	million	million	million	million
Total sheep and lambs								
1989	59.907	29.387	15.184	17.779	37.335	5.196	0.119	164.908
1990	62.946	30.643	17.014	18.748	38.674	5.618	0.130	173.776
1991	60.571	28.789	17.795	17.513	36.708	5.059	0.128	166.566
1992	54.231	26.081	15.338	16.445	34.289	4.499	0.112	150.995
1993	48.906	24.430	13.495	16.009	33.195	4.403	0.106	140.542
1994	46.531	23.439	11.548	14.679	31.951	4.324	0.097	132.569
1995	40.515	21.371	11.577	13.249	30.217	3.853	0.078	120.862
1996	41.091	21.974	10.706	13.575	29.834	3.862	0.073	121.116
1997	42.388	22.325	10.528	13.106	27.821	3.977	0.084	120.228
1998	40.821	21.122	10.992	13.136	27.476	3.869	0.076	117.491
1999	40.821	20.994	10.556	13.065	26.378	3.801	0.080	117.490
2000	40.583	22.664	10.556	13.065	26.109	3.801	0.080	118.552
2001	40.887	22.272	8.660	12.585	23.129	3.284	0.110	110.928
2002	38.491	21.350	6.752	13.043	23.063	3.380	0.088	106.166
2003	33.706	20.388	4.815	13.060	23.887	3.299	0.098	99.252
2004	35.227	19.978	4.824	12.917	25.063	3.183	0.095	101.287
2005	34.802	20.851	5.016	12.643	25.936	3.146	0.088	100.602
2006	32.146	17.908	4.466	11.331	22.129	2.963	0.084	91.028
2007	28.607	17.174	4.378	11.641	21.136	2.717	0.058	85.711
2008	26.378	16.765	3.960	9.983	17.654	2.137	0.061	76.938
2009	25.546	15.082	4.285	9.955	15.719	2.092	0.061	72.740
2010	24.366	14.378	3.622	8.989	14.692	1.991	0.051	68.118
2011	27.028	15.380	3.724	11.214	14.452	2.426	0.058	74.282

^a At 31 March. From 2000, as at 30 June. Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5000 or more.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARES.

159 Volume of Australian exports of sheep meat and live sheep, by destination

	Unit	2003	2004	2005	2006	2007	2008	2009	2010
Mutton ab									
Canada	kt	1.1	1.6	1.6	1.9	0.8	0.6	0.5	0.5
China	kt	1.3	1.7	3.3	3.3	4.5	7.9	12.6	12.2
Chinese Taipei	kt	10.2	13.1	11.3	9.4	7.9	7.8	8.0	4.7
European Union c	kt	5.5	8.4	9.2	8.6	8.3	8.5	5.3	4.2
Japan	kt	6.6	9.0	8.3	7.0	6.9	6.9	5.8	3.9
Korea, Rep. of	kt	0.8	1.0	1.1	0.9	0.8	1.1	0.8	0.9
Malaysia	kt	5.2	6.6	5.9	7.7	6.4	7.1	7.3	7.3
Papua New Guinea	kt	4.6	5.9	3.9	3.2	4.3	4.4	5.1	1.5
Russian Federation	kt	0.5	1.9	5.4	11.5	8.1	10.0	4.7	4.1
Saudi Arabia	kt	22.5	19.5	22.7	23.9	23.2	20.6	21.5	12.1
Singapore	kt	6.2	6.4	5.6	6.0	5.9	6.2	7.1	5.1
South Africa	kt	9.3	12.6	15.0	19.9	15.3	13.5	4.9	2.0
United States	kt	20.1	14.6	16.1	18.8	16.5	13.4	10.9	8.9
Other	kt	30.3	36.9	38.9	45.2	46.1	52.5	45.5	40.7
Total	kt	124.1	139.2	148.4	167.1	155.0	160.5	140.0	107.9
Lamb a									
European Union c	kt	16.4	15.0	12.4	13.4	14.2	13.4	14.6	11.9
China	kt	6.1	9.5	13.6	12.3	16.4	16.4	16.2	18.3
Japan	kt	6.0	7.7	11.7	12.1	8.7	9.8	9.2	8.0
Papua New Guinea	kt	9.6	11.6	12.4	11.9	11.6	9.9	10.0	9.2
South Africa	kt	1.6	2.3	3.8	5.3	4.3	3.6	2.8	2.9
United Arab Emirates	kt	7.1	5.8	6.9	10.7	12.6	13.3	13.4	12.5
United States	kt	31.0	31.9	40.8	40.8	44.0	35.9	38.7	33.6
Other	kt	32.1	34.7	42.9	46.0	54.2	53.0	65.4	63.7
Total	kt	109.7	118.5	144.5	152.4	166.0	155.3	170.3	160.0
Live sheep									
Slaughter sheep	'000	4 738	3 394	4 184	4 163	3 772	4 213	3 563	2 963
Middle East	'000	4 634	3 356	4 144	4 137	3 744	4 153	3 538	2 615
Bahrain	'000	411	490	521	557	562	716	748	499
Egypt	'000	16	0	0	0	0	0	0	0
Jordan	'000	499	930	885	685	268	384	471	266
Kuwait	'000	1 499	1 260	891	962	930	956	948	1 076
Oman	'000	259	289	359	320	540	741	289	69
Qatar	'000	181	137	180	192	192	269	353	321
Saudi Arabia	'000	1 411	0	1 072	1 193	1 032	874	576	263
United Arab Emirates	'000	225	196	231	209	186	176	130	79
Other	'000	134	53	5	20	35	37	23	42
Singapore	'000	7	9	16	9	6	9	7	6
Other	'000	98	29	24	17	22	51	17	342
Breeding sheep	'000	4	3	1	4	1	2	5	5
Total	'000	4 742	3 397	4 185	4 167	3 773	4 215	3 568	2 969

a Shipped weight. b Includes young sheep and hoggets. c Regarded as 27 countries.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

160 Value of Australian exports of sheep meat and live sheep (fob)

	2003	2004	2005	2006	2007	2008	2009	2010
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Mutton a								
Canada	3.6	5.8	5.4	7.1	2.9	2.4	2.1	2.6
China	1.3	1.6	3.0	3.1	5.0	10.1	22.2	25.3
Chinese Taipei	32.2	41.9	34.8	29.8	23.2	23.3	27.9	17.4
European Union b	28.1	43.3	48.9	47.7	40.9	45.3	30.9	33.4
Japan	29.9	47.1	38.1	31.5	29.9	32.8	30.4	24.3
Korea, Rep. of	2.2	3.1	3.1	2.9	2.6	3.6	3.2	4.4
Malaysia	15.9	22.6	18.5	25.1	21.8	24.9	27.2	32.9
Papua New Guinea	6.1	5.1	5.2	4.2	6.5	7.4	10.7	3.6
Russian Federation	1.3	5.7	13.5	33.1	23.4	33.0	17.3	19.5
Saudi Arabia	65.0	53.0	63.9	67.3	58.9	59.9	72.2	54.2
Singapore	20.4	22.0	18.6	19.5	19.3	21.8	26.5	24.3
South Africa	11.1	14.1	18.7	29.2	21.8	21.9	8.4	5.3
United States	67.9	48.6	44.4	50.2	43.2	39.2	36.9	39.7
Other	90.3	111.9	116.0	137.3	129.7	160.8	164.1	199.2
Total	375.3	426.0	432.0	487.9	429.2	486.2	480.0	486.3
Lamb								
European Union b	96.9	93.6	84.1	85.9	82.3	92.8	100.9	86.8
China	11.0	15.9	21.5	20.7	33.7	38.8	44.9	54.1
Japan	42.3	53.5	79.1	83.0	56.0	61.1	60.8	61.3
Papua New Guinea	14.4	17.3	19.4	20.0	23.8	22.1	29.9	29.0
South Africa	2.1	3.5	5.3	9.0	7.5	6.7	4.1	4.9
United Arab Emirates	29.9	27.0	32.8	47.1	56.4	65.6	73.2	81.3
United States	257.5	259.9	324.2	319.0	328.4	296.0	325.0	295.0
Other	148.7	168.6	211.4	208.3	234.2	250.5	336.7	374.6
Total	602.9	639.3	777.8	793.2	822.3	833.6	975.5	987.1
Live sheep c								
Middle East	330	223	275	287	259	316	318	286
Bahrain	29	33	35	38	38	56	66	54
Egypt	1	0	0	0	0	0	0	0
Jordan	35	58	53	47	18	26	38	28
Kuwait	105	84	60	64	59	68	78	112
Oman	19	20	25	23	40	57	27	8
Qatar	13	10	12	13	13	27	41	41
Saudi Arabia	104	0	74	88	76	68	55	30
United Arab Emirates	16	13	15	14	12	12	11	9
Other	8	3	4	2	2	5	3	35
Total	338	225	279	289	261	320	322	321

a Includes young sheep and hoggets. b Regarded as 27 countries. c Excludes animals for breeding.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

161 World sheep numbers, by country ^a

	2002	2003	2004	2005	2006	2007	2008	2009	2010
	million	million	million	million	million	million	million	million	million
Argentina	12.4	12.5	12.5	12.5	12.4	12.5	15.2	13.4	15.0
Australia	106.2	99.3	101.3	100.6	91.0	85.7	76.9	72.7	68.1
China ^b	135.9	143.8	157.3	170.9	173.9	146.0	136.4	128.6	128.0
France	9.3	9.3	9.2	9.1	8.9	8.5	7.7	7.5	6.9
Greece	9.1	9.1	9.0	8.8	8.8	8.8	9.0	9.0	9.0
India	60.8	61.5	62.2	62.9	63.6	64.3	65.0	65.7	77.4
Iran	53.9	53.9	54.0	52.2	52.2	52.2	53.8	26.0	26.5
Iraq	6.2	6.2	6.2	4.4	13.8	14.6	7.7	7.8	na
Italy	8.3	8.1	8.0	8.1	8.0	8.2	8.2	8.0	7.0
Morocco	16.3	16.7	17.0	16.9	16.9	16.4	17.1	17.5	17.7
New Zealand	39.5	39.3	40.0	39.9	40.1	38.5	34.2	32.4	32.6
Romania	7.3	7.3	7.5	7.4	7.6	7.7	8.9	9.1	8.3
Russian Federation	13.0	13.7	14.7	15.5	16.1	17.5	18.7	19.6	19.8
South Africa	28.9	28.8	29.1	25.3	25.0	25.0	25.2	25.0	24.6
Spain	23.8	23.5	24.0	22.7	22.5	21.8	20.0	19.7	18.6
Turkey	27.0	25.2	25.0	25.2	25.3	25.4	24.0	24.0	23.1
United Kingdom	35.8	35.7	35.5	35.3	34.7	33.6	21.9	21.3	21.3
United States	6.6	6.3	6.1	6.1	6.2	6.2	7.3	7.1	5.6
Uruguay	10.8	10.0	9.8	10.8	11.1	11.0	10.4	9.4	8.9
Total	1 022.7	1 035.2	1 062.3	1 089.1	1 092.4	1 086.9	1 080.8	1 073.8	na

^a Mostly at 1 December of year shown. Data for Australia are at 31 March to 1999, and from 2000 as at 30 June. ^b Excludes Hong Kong. **na** Not available.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; European Commission, EUROSTAT, Luxembourg; UN FAO, FAOSTAT, Rome; International Wool Textile Organisation, IWTO Market Information, London; Meat and Wool New Zealand, Statistical Information Service, Wellington; Beef and Lamb New Zealand, Wellington; US Department of Agriculture, *Sheep and Goats Report*, Washington DC.

162 World mutton and lamb production, by country a

	2002	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	50	52	52	52	52	52	52	86	72
Australia	634	543	573	616	669	681	647	624	541
China b	1 675	1 730	1 764	1 800	1 938	2 000	1 978	2 014	na
France	128	129	102	99	99	119	110	83	83
Italy	58	58	59	59	59	59	57	40	36
New Zealand	528	547	519	543	553	580	602	479	470
Romania	51	62	67	49	42	50	47	71	na
Russian Federation	115	114	125	124	138	150	156	164	170
Spain	237	236	231	224	214	196	157	124	131
Ukraine	8	8	8	8	8	8	8	9	na
United Kingdom	307	306	314	310	330	325	326	303	281
United States	101	92	90	85	84	83	79	78	74
Uruguay	31	27	27	34	31	32	27	35	21
Total	7 623	7 675	7 708	7 881	8 155	8 330	8 248	8 109	na

a Carcass weight. **b** Excludes Hong Kong. **na** Not available.

Sources: ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; European Commission, EUROSTAT, Luxembourg; UN FAO, FAOSTAT, Rome; Meat and Wool New Zealand, Statistical Information Service, Wellington; Meat and Wool New Zealand, Annual Report, Wellington; Beef and Lamb New Zealand, Wellington; US Department of Agriculture, *Livestock, Dairy and Poultry Outlook*, Washington DC.

163 Volume of trade in sheep meat, by selected countries a

	2003	2004	2005	2006	2007	2008	2009	2010
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Australia	234	258	293	320	321	316	310	268
New Zealand	378	367	381	390	419	442	389	354
Imports								
France	133	135	135	137	128	128	127	115
– from Australia	2	3	2	2	1	3	3	1
– from New Zealand	33	32	30	30	32	29	30	28
Germany	33	32	38	40	39	38	35	33
– from Australia	1	1	1	1	1	1	1	1
– from New Zealand	27	26	30	31	32	31	28	25
Saudi Arabia	54	52	60	52	58	50	48	57
– from Australia	24	20	26	26	25	18	18	17
– from New Zealand	15	13	14	13	21	25	17	20
United Kingdom	111	116	110	114	116	112	116	100
– from Australia	9	12	13	14	13	12	13	11
– from New Zealand	81	82	79	83	85	83	88	74
United States	76	82	82	86	92	83	78	75
– from Australia	47	52	60	64	69	56	56	49
– from New Zealand	29	30	22	22	23	26	21	26

a Shipped weight.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Meat and Wool New Zealand, Annual Report, Wellington; Beef and Lamb New Zealand, Wellington; United Nations Commodity Trade Statistics Database. US Department of Agriculture, *Livestock, Dairy and Poultry Outlook*, Washington DC.

164 Volume of New Zealand sheep meat exports, by destination ^a

	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 kt	2008-09 kt	2009-10 kt	2010-11 kt
Mutton								
Canada	0.4	0.7	0.9	2.0	2.3	2.1	2.1	2.5
European Union ^b	26.0	28.8	26.8	26.6	27.7	29.2	18.3	21.4
Japan	1.7	1.3	1.5	0.6	0.9	0.8	1.5	1.2
Korea, Rep. of	0.1	0.1	0.0	0.1	0.2	0.3	0.2	0.3
Papua New Guinea	0.9	1.7	1.1	1.9	2.1	2.1	1.4	0.8
Russian Federation	0.2	0.5	0.8	1.2	3.5	0.8	0.8	1.5
United States	3.2	1.1	0.9	1.2	6.4	2.8	4.5	7.5
Other	23.1	24.3	24.9	35.7	52.8	28.5	34.5	42.5
Total	58.4	60.4	57.0	69.5	95.9	66.6	63.1	77.7
Lamb								
Canada	9.7	9.0	9.1	10.7	10.2	10.3	9.6	9.7
Germany	20.5	21.5	23.0	22.3	22.9	19.0	18.4	15.2
Japan	11.3	11.0	13.1	6.3	7.0	7.5	6.3	6.7
Korea, Rep. of	1.1	1.2	0.7	0.9	0.8	0.6	0.3	0.5
Jordan	3.2	1.5	1.3	2.5	4.9	7.6	7.3	7.3
Papua New Guinea	7.5	7.6	7.9	8.4	6.3	7.1	5.6	5.2
Saudi Arabia	13.0	13.6	12.4	20.6	20.4	17.3	18.0	12.9
United Kingdom	69.8	68.3	75.4	77.6	71.7	73.3	66.3	54.7
United States	25.0	19.4	19.7	20.9	18.3	16.5	19.5	17.4
Other	131.9	147.0	148.8	160.7	166.2	146.0	144.5	136.5
Total	293.2	300.0	311.6	331.1	328.9	305.2	295.6	266.1

^a For October–September year. Shipped weight. ^b Regarded as 12 countries to 2002–03, then 25 countries from 2003–04.

Source: Meat and Wool New Zealand, *Annual Report*, Wellington; Beef and Lamb New Zealand, Wellington; Meat and Wool New Zealand, Economic Service, Wellington; Beef and Lamb New Zealand, Wellington.

165 Summary of Australian statistics for oilseed ^a

	Area	Yield	Production	Exports ^b	Domestic use ^c
	'000 ha	t/ha	kt	kt	kt
1965-66	58	0.76	44	0	44
1966-67	81	1.00	81	6	75
1967-68	93	0.63	59	9	50
1968-69	95	0.58	55	12	43
1969-70	161	0.96	155	6	149
1970-71	269	0.76	204	9	195
1971-72	528	0.70	371	103	268
1972-73	447	0.60	268	48	220
1973-74	306	0.84	258	17	241
1974-75	402	0.86	345	48	297
1975-76	292	0.83	243	82	161
1976-77	271	0.88	240	5	235
1977-78	444	0.94	416	8	408
1978-79	511	1.02	520	65	455
1979-80	497	0.97	484	141	343
1980-81	400	1.12	450	6	444
1981-82	411	1.24	509	26	483
1982-83	386	0.91	349	3	346
1983-84	529	1.04	549	20	529
1984-85	710	1.30	925	51	874
1985-86	686	1.27	872	183	689
1986-87	552	1.28	708	125	583
1987-88	633	1.35	856	91	765
1988-89	569	1.47	838	217	621
1989-90	458	1.67	763	172	590
1990-91	599	1.74	1 040	187	852
1991-92	638	1.78	1 136	231	905
1992-93	541	1.60	864	241	623
1993-94	708	1.49	1 055	288	768
1994-95	807	1.14	920	253	667
1995-96	861	1.56	1 342	523	818
1996-97	1 048	1.69	1 776	523	1 253
1997-98	1 300	1.52	1 980	909	1 071
1998-99	2 123	1.47	3 113	1 708	1 405
1999-00	2 666	1.45	3 867	2 449	1 419
2000-01	2 144	1.45	3 098	2 194	904
2001-02	1 915	1.56	2 982	1 920	1 063
2002-03	1 627	0.94	1 523	887	636
2003-04	1 553	1.55	2 409	1 235	1 174
2004-05	1 839	1.44	2 641	1 261	1 379
2005-06	1 450	1.67	2 424	1 107	1 317
2006-07	1 257	0.84	1 050	354	695
2007-08	1 436	1.09	1 565	548	1 018
2008-09	1 983	1.25	2 478	1 020	1 459
2009-10	2 006	1.30	2 609	1 357	1 251
2010-11	2 759	1.37	3 782	1 728	2 054

^a Oilseeds comprise canola, cottonseed, linseed, peanuts, safflowerseed, soybeans and sunflowerseed. ^b Seed only. On a financial year basis.

^c Includes any imports of seed, stocks carried over to the next season, feed and seed use, and any processing, of which some may be exported.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; Australian Oilseeds Federation, AOF Oilseeds, Sydney; ABARES.

166 Australian oilseeds area, yield and production, by state and type

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Canola								
Area								
2004-05	'000 ha	434.0	284.0	0.0	428.0	230.0	1.0	1 377.0
2005-06	'000 ha	194.0	191.0	1.0	437.0	147.0	1.0	971.0
2006-07	'000 ha	283.0	179.0	2.0	411.0	177.0	1.0	1 052.0
2007-08	'000 ha	310.0	196.0	2.0	595.0	173.0	1.0	1 277.0
2008-09	'000 ha	300.0	285.0	3.0	920.0	184.0	2.0	1 693.0
2009-10	'000 ha	303.0	232.0	3.0	988.0	184.0	1.0	1 712.0
2010-11	'000 ha	487.0	323.0	2.0	1 058.0	222.0	1.0	2 093.0
Yield								
2004-05	t/ha	1.1	1.2	0.0	1.1	1.1	1.0	1.1
2005-06	t/ha	1.6	1.4	1.0	1.4	1.4	1.0	1.5
2006-07	t/ha	0.2	0.2	0.5	1.0	0.5	1.0	0.5
2007-08	t/ha	0.3	1.1	0.0	1.3	0.9	1.0	1.0
2008-09	t/ha	0.8	0.8	0.7	1.3	1.1	1.0	1.1
2009-10	t/ha	0.9	1.4	0.3	1.0	1.4	2.0	1.1
2010-11	t/ha	1.7	1.5	1.5	0.7	1.7	1.0	1.1
Production								
2004-05	kt	468.0	342.0	0.0	488.0	242.0	1.0	1 542.0
2005-06	kt	314.0	272.0	1.0	617.0	213.0	1.0	1 419.0
2006-07	kt	54.0	42.0	1.0	392.0	84.0	1.0	573.0
2007-08	kt	79.0	221.0	0.0	752.0	162.0	1.0	1 214.0
2008-09	kt	228.0	233.0	2.0	1 175.0	204.0	2.0	1 844.0
2009-10	kt	281.0	335.0	1.0	1 037.0	263.0	2.0	1 920.0
2010-11	kt	822.0	477.0	3.0	711.0	369.0	1.0	2 382.0
Cottonseed								
Area								
2004-05	'000 ha	162.8	0.0	158.1	0.0	0.0	0.0	320.9
2005-06	'000 ha	214.3	0.0	121.2	0.0	0.0	0.0	335.5
2006-07	'000 ha	108.7	0.0	34.9	0.0	0.0	0.0	143.6
2007-08	'000 ha	41.2	0.0	21.4	0.0	0.0	0.0	62.7
2008-09	'000 ha	88.0	0.0	76.0	0.0	0.0	0.0	164.0
2009-10	'000 ha	123.8	0.0	84.5	0.0	0.0	0.0	208.3
2010-11	'000 ha	347.7	0.0	242.5	0.0	0.0	0.0	590.2
Yield								
2004-05	t/ha	3.0	0.0	2.7	0.0	0.0	0.0	2.8
2005-06	t/ha	2.7	0.0	2.3	0.0	0.0	0.0	2.5
2006-07	t/ha	2.9	0.0	2.2	0.0	0.0	0.0	2.7
2007-08	t/ha	3.2	0.0	2.6	0.0	0.0	0.0	3.0
2008-09	t/ha	2.9	0.0	2.8	0.0	0.0	0.0	2.8
2009-10	t/ha	2.9	0.0	2.2	0.0	0.0	0.0	2.6
2010-11	t/ha	2.3	0.0	1.9	0.0	0.0	0.0	2.2
Production								
2004-05	kt	491.8	0.0	420.5	0.0	0.0	0.0	912.3
2005-06	kt	570.6	0.0	273.8	0.0	0.0	0.0	844.4
2006-07	kt	311.1	0.0	76.7	0.0	0.0	0.0	387.8
2007-08	kt	131.3	0.0	56.5	0.0	0.0	0.0	187.8
2008-09	kt	252.0	0.0	213.6	0.0	0.0	0.0	465.5
2009-10	kt	361.9	0.0	185.1	0.0	0.0	0.0	547.0
2010-11	kt	805.2	0.0	464.2	0.0	0.0	0.0	1 269.4

Continued

166 Australian oilseeds area, yield and production, by state and type *continued*

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Sunflowerseed								
Area								
2004-05	'000 ha	29.0	0.0	17.0	0.0	0.0	0.0	46.0
2005-06	'000 ha	74.6	0.1	4.4	0.0	0.3	0.0	79.0
2006-07	'000 ha	12.9	0.0	4.1	0.0	0.0	0.0	21.9
2007-08	'000 ha	28.3	0.0	20.1	0.0	0.0	0.0	48.4
2008-09	'000 ha	33.8	0.0	17.4	0.5	0.0	0.0	51.8
2009-10	'000 ha	18.9	0.0	7.7	0.0	0.0	0.0	26.6
2010-11	'000 ha	18.0	0.0	11.0	0.0	0.0	0.0	29.0
Yield								
2004-05	t/ha	1.6	0.0	0.9	0.0	0.0	0.0	1.3
2005-06	t/ha	1.0	1.0	0.6	0.0	0.6	0.0	1.0
2006-07	t/ha	1.0	0.0	2.0	0.0	1.0	0.0	1.0
2007-08	t/ha	1.5	0.0	1.6	0.0	0.0	0.0	1.5
2008-09	t/ha	1.1	0.0	1.1	0.1	0.0	0.0	1.1
2009-10	t/ha	1.7	0.0	1.2	0.0	0.0	0.0	1.5
2010-11	t/ha	1.7	0.0	1.1	0.0	0.0	0.0	1.5
Production								
2004-05	kt	47.0	0.0	15.0	0.0	0.0	0.0	62.0
2005-06	kt	73.4	0.2	2.7	0.0	0.2	0.0	76.5
2006-07	kt	12.9	0.0	8.2	0.0	0.0	0.0	21.1
2007-08	kt	41.1	0.0	32.0	0.0	0.0	0.0	73.0
2008-09	kt	35.8	0.0	19.5	0.1	0.0	0.0	55.3
2009-10	kt	31.4	0.0	9.6	0.0	0.0	0.0	41.0
2010-11	kt	31.2	0.0	12.5	0.0	0.0	0.0	43.7
Peanuts								
Area								
2004-05	'000 ha	0.2	0.0	14.0	0.0	0.0	0.0	14.0
2005-06	'000 ha	0.8	0.0	23.4	0.0	0.0	0.0	12.0
2006-07	'000 ha	0.7	0.0	11.6	0.0	0.0	0.0	12.0
2007-08	'000 ha	0.5	0.0	10.4	0.0	0.0	0.0	17.0
2008-09	'000 ha	0.0	0.0	9.9	0.0	0.0	0.0	10.0
2009-10	'000 ha	0.4	0.0	11.4	0.0	0.0	0.0	12.0
2010-11	'000 ha	0.4	0.0	11.2	0.0	0.0	0.0	11.0
Yield								
2004-05	t/ha	4.6	0.0	2.2	0.0	0.0	0.0	2.3
2005-06	t/ha	0.6	0.0	0.7	0.0	0.0	0.0	1.5
2006-07	t/ha	0.4	0.0	2.1	0.0	0.0	0.0	2.0
2007-08	t/ha	0.5	0.0	2.3	0.0	0.0	0.0	2.4
2008-09	t/ha	3.9	0.0	1.9	0.0	0.0	0.0	1.9
2009-10	t/ha	2.8	0.0	2.3	0.0	0.0	0.0	2.3
2010-11	t/ha	2.8	0.0	2.3	0.0	0.0	0.0	2.2
Production								
2004-05	kt	0.8	0.0	30.7	0.0	0.0	0.0	32.0
2005-06	kt	0.5	0.0	17.2	0.0	0.0	0.0	17.7
2006-07	kt	0.3	0.0	24.0	0.0	0.0	0.0	24.3
2007-08	kt	0.3	0.0	24.0	0.0	0.0	0.0	40.3
2008-09	kt	0.1	0.0	19.1	0.0	0.0	0.0	19.3
2009-10	kt	1.1	0.0	26.3	0.0	0.0	0.0	28.0
2010-11	kt	1.1	0.0	25.8	0.0	0.0	0.0	24.6

Continued

166 Australian oilseeds area, yield and production, by state and type *continued*

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Safflowerseed								
Area								
2004-05	'000 ha	19.7	16.4	2.6	0.4	5.9	0.0	45.0
2005-06	'000 ha	13.4	3.9	0.1	0.8	0.0	0.0	18.1
2006-07	'000 ha	4.3	1.7	0.1	0.0	0.0	0.0	6.2
2007-08	'000 ha	4.3	1.7	0.1	0.0	4.0	0.0	6.2
2008-09	'000 ha	10.9	0.4	0.8	0.0	0.0	0.0	12.1
2009-10	'000 ha	1.2	2.7	0.1	0.0	3.9	0.0	7.8
2010-11	'000 ha	1.2	2.8	0.1	0.0	4.0	0.0	9.0
Yield								
2004-05	t/ha	0.7	0.5	0.4	0.0	0.7	0.0	0.6
2005-06	t/ha	0.8	0.6	1.2	0.5	0.0	0.0	0.8
2006-07	t/ha	0.4	0.0	0.8	0.0	0.0	0.0	0.3
2007-08	t/ha	2.2	3.7	6.3	0.0	0.7	0.0	1.2
2008-09	t/ha	0.5	0.2	1.3	0.0	0.0	0.0	0.5
2009-10	t/ha	0.7	0.5	1.0	0.0	0.7	0.0	0.6
2010-11	t/ha	0.7	0.5	1.0	0.0	0.7	0.0	0.7
Production								
2004-05	kt	14.1	8.9	0.9	0.0	4.1	0.0	28.0
2005-06	kt	11.1	2.3	0.1	0.4	0.0	0.0	13.9
2006-07	kt	1.9	0.0	0.1	0.0	0.0	0.0	2.1
2007-08	kt	9.4	6.3	0.8	0.0	2.9	0.0	7.5
2008-09	kt	5.0	0.1	1.1	0.0	0.0	0.0	6.2
2009-10	kt	0.8	1.4	0.1	0.0	2.7	0.0	4.9
2010-11	kt	0.8	1.4	0.1	0.0	2.8	0.0	6.0
Soybeans								
Area								
2004-05	'000 ha	17.0	1.2	8.0	0.0	0.0	0.0	26.2
2005-06	'000 ha	16.6	0.3	7.0	0.0	0.0	0.0	23.8
2006-07	'000 ha	8.5	0.0	5.1	0.0	0.0	0.0	13.6
2007-08	'000 ha	6.9	0.0	8.0	0.0	0.0	0.0	14.9
2008-09	'000 ha	23.4	0.0	18.9	0.0	0.0	0.0	42.3
2009-10	'000 ha	17.2	0.6	13.5	0.0	0.0	0.0	31.3
2010-11	'000 ha	16.0	1.0	2.0	0.0	0.0	0.0	19.0
Yield								
2004-05	t/ha	2.2	0.9	2.0	0.0	0.0	0.0	2.1
2005-06	t/ha	2.2	2.9	0.8	0.0	0.0	0.0	1.8
2006-07	t/ha	2.4	0.0	2.7	0.0	0.0	0.0	2.5
2007-08	t/ha	2.0	0.0	2.6	0.0	0.0	0.0	2.3
2008-09	t/ha	1.7	0.0	2.2	0.0	0.0	0.0	1.9
2009-10	t/ha	2.4	2.5	1.2	0.0	0.0	0.0	1.9
2010-11	t/ha	2.7	1.0	1.5	0.0	0.0	0.0	2.5
Production								
2004-05	kt	37.6	1.1	15.6	0.0	0.0	0.0	54.4
2005-06	kt	35.7	0.9	5.4	0.0	0.0	0.0	42.0
2006-07	kt	20.1	0.0	13.5	0.0	0.0	0.0	34.0
2007-08	kt	13.8	0.0	20.9	0.0	0.0	0.0	34.7
2008-09	kt	38.7	0.0	41.4	0.0	0.0	0.0	80.1
2009-10	kt	41.7	1.5	16.4	0.0	0.0	0.0	59.6
2010-11	kt	43.0	1.0	3.0	0.0	0.0	0.0	47.0

Continued

166 Australian oilseeds area, yield and production, by state and type *continued*

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia ^a
Total oilseeds								
Area								
2004-05	'000 ha	662.7	301.7	199.6	428.4	235.9	1.0	1 839.1
2005-06	'000 ha	513.6	196.2	157.1	437.8	147.3	1.0	1 449.5
2006-07	'000 ha	418.1	181.4	57.8	411.0	177.0	1.0	1 257.2
2007-08	'000 ha	391.2	198.2	62.1	595.0	177.0	1.0	1 436.1
2008-09	'000 ha	456.2	285.4	126.1	920.5	184.0	2.0	1 982.6
2009-10	'000 ha	464.5	235.7	120.2	988.0	187.9	1.0	2 006.5
2010-11	'000 ha	870.3	327.2	268.8	1 058.0	226.0	1.0	2 759.2
Yield								
2004-05	t/ha	1.6	1.2	2.4	1.1	1.0	1.0	1.4
2005-06	t/ha	2.0	1.4	1.9	1.4	1.4	1.0	1.7
2006-07	t/ha	1.0	0.2	2.1	1.0	0.5	1.0	0.8
2007-08	t/ha	0.7	1.1	2.2	1.3	0.9	1.0	1.1
2008-09	t/ha	1.2	0.8	2.4	1.3	1.1	1.0	1.3
2009-10	t/ha	1.5	1.4	2.0	1.0	1.4	2.0	1.3
2010-11	t/ha	2.0	1.5	1.9	0.7	1.6	1.0	1.4
Production								
2004-05	kt	1 059.3	352.0	482.8	488.0	246.1	1.0	2 640.6
2005-06	kt	1 005.4	275.4	300.1	617.4	213.2	1.0	2 423.5
2006-07	kt	400.2	42.0	123.6	392.0	84.0	1.0	1 049.9
2007-08	kt	274.8	227.3	134.3	752.0	164.9	1.0	1 565.2
2008-09	kt	559.7	233.1	296.6	1 175.1	204.0	2.0	2 478.5
2009-10	kt	717.9	337.9	238.5	1 037.0	265.7	2.0	2 608.5
2010-11	kt	1 703.2	479.4	508.6	711.0	371.8	1.0	3 781.7

^a Australian totals include some crops that are not divided by the states.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARE, *Australian Crop Report*, Canberra; Australian Oilseeds Federation, AOF Oilseeds, Sydney.

167 Australian exports of oilseeds, vegetable oils and meals, by type

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	1 048.82	1 018.56	884.27	237.60	519.14	972.98	1 238.41	1 453.46
Cottonseed	166.57	214.35	204.44	104.08	17.84	37.09	105.51	267.94
Linseed	0.02	0.21	0.16	0.02	0.00	0.00	0.09	0.02
Peanuts	10.25	12.42	2.55	3.80	5.83	5.41	4.88	3.46
Safflowerseed	3.62	5.63	7.76	3.05	0.17	0.07	0.02	0.10
Soybeans	4.54	6.88	4.08	3.36	1.92	1.91	6.75	2.09
Sunflowerseed	1.39	3.17	3.46	2.52	2.76	2.46	1.63	0.94
Total a	1 235.20	1 261.23	1 106.72	354.43	547.66	1 019.92	1 357.30	1 728.01
(value, \$m)	541.23	484.44	404.46	161.42	337.89	641.80	652.91	954.01
Oils								
Canola	46.91	47.19	34.42	28.33	56.82	76.33	87.13	104.21
Cottonseed	1.99	2.19	2.77	4.66	5.62	9.98	5.35	18.24
Linseed	0.02	0.01	0.10	0.01	0.01	0.00	0.03	0.04
Palm	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Peanut	0.53	0.26	0.19	0.57	0.11	0.13	0.93	0.08
Safflowerseed	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Soybeans	1.74	0.16	0.57	1.65	0.96	2.19	3.27	0.97
Sunflowerseed	1.06	3.52	7.76	5.58	1.76	1.86	0.04	0.20
Olive	0.39	0.68	2.52	2.75	3.03	4.92	6.90	6.11
Total	62.64	63.06	61.03	59.71	93.37	112.01	117.65	146.71
(value, \$m)	67.08	73.05	81.11	90.35	163.42	223.28	211.69	225.78
Oilseed meals								
Canola	0.01	0.01	0.02	0.01	2.04	1.29	19.03	31.50
Cottonseed and sunflowerseed	10.15	6.79	11.99	9.04	9.15	10.72	12.70	33.49
Linseed	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Soybeans	4.66	10.30	3.79	3.97	2.98	1.38	2.19	3.51
Other b	1.18	5.83	5.55	6.67	4.73	6.25	27.16	35.40
Total	15.99	22.94	21.36	19.70	18.90	19.64	61.08	103.90
(value, \$m)	6.65	10.84	7.29	8.88	7.86	10.73	28.38	36.18

a Excludes sesame seed and other oleaginous fruit. **b** Includes flour, meal of oilseeds, and oleaginous fruit. Excludes peanut meal.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

168 **Volume of Australian exports of selected oilseeds products, by destination**

	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 kt	2008-09 kt	2009-10 kt	2010-11 kt
Oilseeds								
Canola								
Bangladesh	100.57	67.95	41.30	15.23	3.55	3.39	75.88	8.88
China	2.19	39.62	0.00	3.23	0.00	43.54	0.00	0.00
Japan	545.84	495.23	370.27	190.47	121.54	96.47	214.16	70.84
Pakistan	284.28	387.24	97.46	25.00	166.78	120.55	552.61	1.87
Other	115.94	28.53	375.24	3.67	227.27	709.04	395.77	1 371.87
Total ^a	1 048.82	1 018.56	884.27	237.60	519.14	972.98	1 238.41	1 453.46
Cottonseed								
Chinese Taipei	0.42	0.61	0.87	0.49	0.00	0.07	0.03	0.02
Japan	134.12	144.67	162.72	86.39	17.36	29.70	69.49	71.89
Korea, Rep. of	28.42	56.04	39.64	16.21	0.00	6.11	13.32	51.84
Saudi Arabia	0.00	10.58	0.00	0.00	0.00	0.72	0.00	0.00
United States	1.34	1.00	0.00	0.00	0.00	0.02	22.50	0.00
Other	2.26	1.47	1.20	1.00	0.49	0.47	0.17	144.18
Total ^a	166.57	214.35	204.44	104.08	17.84	37.09	105.51	267.94
Canola oil								
China	12.58	0.26	0.29	0.28	4.21	0.14	0.07	0.54
Japan	10.02	18.42	9.34	3.10	2.01	4.17	1.84	6.46
New Zealand	12.29	14.19	15.73	15.49	13.12	20.09	21.24	19.41
Other	12.02	14.33	9.07	9.47	37.49	51.94	63.98	77.80
Total	46.91	47.19	34.42	28.33	56.82	76.33	87.13	104.21
Cottonseed and sunflowerseed meal								
Korea, Rep. of	8.16	4.64	9.93	7.26	8.17	10.09	10.84	20.62
New Zealand	0.25	0.43	0.31	0.51	0.00	0.04	1.22	10.14
Other	1.74	1.72	1.75	1.28	0.97	0.60	0.64	2.74
Total	10.15	6.79	11.99	9.04	9.15	10.72	12.70	33.49

^a Excludes sesame seed and other oleaginous fruit.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

169 Volume of Australian imports of oilseeds, vegetable oils and meals, by type

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	0.23	0.11	0.14	57.27	0.28	0.44	0.37	0.55
Copra	0.05	1.17	1.11	5.65	7.51	11.95	5.31	0.91
linseed	1.45	1.22	0.00	2.77	3.48	2.04	0.46	0.25
Peanuts	16.42	7.43	4.95	17.20	19.36	13.09	11.34	13.24
Soybeans	39.60	0.62	0.72	10.39	1.30	0.84	1.12	1.12
Sunflowerseed	1.07	1.85	1.84	25.16	2.78	2.26	2.21	2.07
Other a	7.84	7.06	7.03	8.25	8.21	6.01	8.39	7.94
Total	66.66	19.46	15.78	126.69	42.92	36.64	29.21	26.07
(value, \$m)	50.05	26.69	20.94	79.21	50.45	52.99	42.80	44.47
Oils								
Canola	8.45	9.99	13.10	13.29	10.92	9.45	12.05	12.42
Cottonseed	6.91	3.16	2.14	11.79	6.54	18.37	4.17	2.98
linseed	3.09	3.93	2.08	3.56	3.55	2.09	2.47	1.78
Maize	2.92	3.41	3.29	2.49	2.37	1.91	1.77	4.23
Peanut	2.87	0.94	1.21	0.36	0.14	0.52	0.32	0.38
Safflowerseed and sunflowerseed	31.19	29.71	24.81	36.61	34.76	31.42	33.94	48.86
Soybean	12.58	15.46	12.59	38.12	17.65	23.47	21.75	24.01
Castor	1.40	1.34	1.28	1.38	1.96	1.70	1.65	1.85
Coconut	14.16	11.77	10.56	12.63	14.45	10.72	10.54	12.68
Olive	29.41	29.76	30.81	40.97	32.22	24.24	35.74	35.41
Palm	8.48	10.52	20.59	23.13	19.24	24.97	47.78	43.80
Palm kernel	13.13	12.49	15.12	11.28	10.61	11.18	8.91	9.27
Palm olein	78.66	76.18	83.48	88.99	87.78	85.46	61.27	63.10
Palm stearin	25.94	21.34	20.78	20.65	19.71	24.51	22.03	21.41
Tung	0.25	0.32	0.27	0.29	0.27	0.18	0.23	0.30
Other b	73.36	34.87	38.83	242.35	230.25	129.23	98.28	32.33
Total oils	312.80	265.17	280.93	547.88	492.42	399.43	362.90	314.81
(value, \$m)	362.39	378.31	419.16	526.50	538.66	639.55	541.88	577.18
Oilseed meals								
Soybeans	312.15	377.16	329.64	617.85	528.38	482.05	512.64	520.70
Other c	73.36	34.87	38.83	242.35	230.25	129.23	98.28	32.33
Total	385.50	412.02	368.47	860.20	758.63	611.28	610.92	553.04
(value, \$m)	125.07	113.64	108.03	202.07	217.44	252.59	242.77	212.04

a Oilseeds, oleaginous fruit, used for extraction of vegetable oils, not elsewhere specified. **b** Includes fixed vegetable oils not elsewhere specified, including mixtures; boiled, oxidised and dehydrated vegetable oils not elsewhere specified; vegetable oils and fats not elsewhere specified. **c** Includes flours.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABARES.

170 Summary of world statistics for oilseeds ^a

	Area ^b million ha	Production Mt	Use ^c Mt	Closing stocks		Stocks to use ratio %	Exports Mt	Use per person kg	Price ^e US\$/t
				World Mt	Exporters ^d Mt				
1971-72	69.3	78.1	80.2	4.3	3.2	5.3	15.3	28.4	na
1972-73	97.3	102.2	104.1	4.3	2.9	4.1	18.5	28.5	267.0
1973-74	100.7	116.6	115.2	7.5	5.7	6.5	19.2	30.7	260.0
1974-75	99.1	107.9	110.7	8.7	6.8	7.8	16.1	29.3	249.0
1975-76	97.9	116.4	117.9	11.3	8.7	9.6	20.4	30.8	215.0
1976-77	94.8	104.9	114.7	5.1	3.7	4.4	20.4	30.1	288.0
1977-78	104.1	125.9	126.0	8.4	6.1	6.6	24.3	32.3	259.0
1978-79	108.1	131.3	134.6	9.4	6.9	7.0	26.7	33.8	295.0
1979-80	112.6	145.8	141.5	16.8	13.6	11.8	30.9	35.8	278.0
1980-81	110.8	132.1	139.6	13.6	10.9	9.7	27.0	35.0	310.0
1981-82	114.0	148.3	151.4	12.2	9.2	8.1	32.5	36.9	253.0
1982-83	114.8	154.9	154.8	14.5	11.2	9.4	31.9	37.2	260.0
1983-84	111.1	138.6	147.8	9.2	5.6	6.2	27.8	35.3	301.1
1984-85	117.6	161.9	163.0	14.6	10.6	8.9	25.6	38.1	223.0
1985-86	117.1	170.2	169.0	20.3	16.8	12.0	30.0	38.6	210.8
1986-87	126.3	189.9	191.9	23.5	19.7	12.2	32.3	39.4	208.7
1987-88	133.4	205.2	202.0	24.8	19.9	12.3	38.9	40.9	282.3
1988-89	140.1	199.7	201.2	24.1	19.5	12.0	31.6	39.7	292.3
1989-90	140.3	210.5	209.2	25.4	20.7	12.2	35.5	40.3	246.9
1990-91	139.5	214.0	215.2	25.1	21.1	11.6	33.5	40.7	241.4
1991-92	145.1	222.7	224.3	23.4	19.5	10.4	34.2	41.7	237.4
1992-93	144.1	226.3	225.2	25.5	21.9	11.3	35.4	41.2	246.2
1993-94	147.4	227.2	230.7	22.5	18.7	9.8	36.0	41.6	258.8
1994-95	155.5	261.1	255.1	29.1	25.0	11.4	41.5	45.3	247.6
1995-96	161.4	257.6	262.9	24.3	19.3	9.2	41.5	46.0	304.0
1996-97	157.0	261.4	263.7	21.0	14.9	8.0	46.1	45.5	304.0
1997-98	164.1	286.7	275.2	31.3	23.9	11.4	49.3	46.8	257.0
1998-99	171.2	294.6	292.0	34.7	27.5	11.9	51.1	49.0	209.0
1999-00	174.4	304.3	300.1	38.6	28.7	12.9	59.4	49.7	210.0
2000-01	173.9	313.9	310.9	40.1	29.2	12.9	67.0	50.9	200.9
2001-02	177.2	324.8	323.9	42.4	33.6	13.1	62.3	52.3	201.0
2002-03	175.6	331.5	326.4	48.8	39.3	15.0	69.7	52.0	244.8
2003-04	190.9	335.8	336.8	45.1	36.8	13.4	66.8	53.0	320.6
2004-05	196.8	381.3	366.7	57.9	44.1	15.8	74.4	57.0	274.5
2005-06	198.3	391.3	384.4	64.3	50.4	16.7	75.8	59.0	260.9
2006-07	198.2	404.3	392.8	73.5	61.1	18.7	83.3	59.6	335.4
2007-08	193.2	391.9	401.0	61.7	50.9	15.4	92.7	60.1	549.4
2008-09	202.3	396.3	401.6	55.1	36.8	13.7	94.5	59.4	420.8
2009-10	205.0	442.0	420.0	71.2	46.3	17.0	108.1	61.4	429.2
2010-11	212.1	452.8	440.1	80.0	56.2	18.2	107.8	62.3	550.0

^a October–September years, except where otherwise noted. Oilseeds comprise canola, copra, cottonseed, palm kernels, peanuts, soybeans and sunflowerseed. ^b Area for 2008–09 does not include copra or palm kernels. ^c Consumption, includes losses etc. ^d Stocks are indicative for the year in question. Soybeans: United States, Brazil, Argentina; cottonseed: United States; peanuts: United States, China; sunflowerseed: United States, Argentina; canola: Canada; copra: the Philippines; palm kernels: Malaysia. ^e US soybeans, cif Rotterdam, marketing year October–September. ^{na} Not available. Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ISTA mielke GmbH, *Oil World*, Hamburg, Germany.

171 World oilseeds production, by country ^a

	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 kt	2008-09 kt	2009-10 kt	2010-11 kt
Africa								
South Africa	1 041	1 020	1 067	615	1 292	1 462	1 190	1 691
Americas								
Argentina	36 840	43 425	45 030	53 360	51 886	35 507	57 944	53 741
Brazil	53 576	55 580	59 120	62 009	64 234	60 283	71 423	79 281
Canada	9 184	10 776	12 733	12 616	12 422	16 091	16 511	17 233
Paraguay	4 144	4 255	3 875	6 175	7 180	4 366	7 353	8 573
United States	76 604	95 944	95 670	96 843	82 453	89 201	98 902	100 378
Asia								
China	51 307	58 349	56 799	55 230	53 350	58 116	57 841	57 693
India	29 692	29 404	30 701	29 916	33 953	33 399	32 369	34 849
Indonesia	6 623	7 238	7 690	7 918	8 231	9 132	9 437	9 747
Malaysia	3 595	4 073	4 083	3 973	4 562	4 476	4 476	4 552
Pakistan	4 032	5 472	5 052	5 253	4 615	4 795	5 192	4 812
Philippines	2 346	2 496	2 447	2 248	2 550	2 572	2 573	2 652
Turkey	2 062	2 105	2 012	2 262	1 826	1 645	1 500	1 835
Turkmenistan	370	360	380	470	510	530	490	625
Uzbekistan	1 800	2 250	2 500	2 300	2 330	1 800	1 525	1 600
Europe								
European Union ^b	18 793	23 720	23 470	24 500	24 523	27 328	29 687	28 935
Russian Federation	5 435	5 631	7 442	8 080	6 932	8 846	8 034	7 242
Ukraine	4 535	3 562	5 595	6 790	5 950	10 700	9 281	9 919
Oceania								
Australia	2 409	2 641	2 424	1 050	1 565	2 478	2 609	3 782
Other countries	21 367	22 967	23 177	22 722	21 536	23 604	23 670	23 640
Total	335 755	381 268	391 267	404 330	391 900	396 331	442 007	452 780

^a Oilseeds comprise soybeans, cottonseed, peanuts, sunflowerseed, canola, palm kernels and copra. ^b Regarded as 27 countries.

Sources: ABARE, *Australian Crop Report*, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat no. 7121.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

173 Volume of world oilseeds trade, by type and country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola	5.15	5.02	6.68	7.01	7.56	12.13	10.78	10.20
China	0.42	0.32	0.68	0.96	0.81	3.03	2.10	0.83
European Union b	0.17	0.07	0.38	0.43	0.69	3.34	2.20	2.57
Japan	2.28	2.23	2.28	2.17	2.26	2.12	2.28	2.35
Copra	0.07	0.13	0.07	0.09	0.11	0.10	0.10	0.95
European Union b	0.04	0.04	0.02	0.01	0.00	0.00	0.00	0.00
Linseed	2.22	1.70	0.79	1.01	0.90	0.82	0.98	0.77
European Union c	0.62	0.49	0.55	0.71	0.61	0.55	0.48	0.52
Japan	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Soybeans	54.00	63.47	64.13	69.07	78.12	77.17	86.70	88.59
China	16.93	25.80	28.32	28.73	37.82	41.10	50.34	52.00
European Union b	14.68	14.54	13.94	15.29	15.12	13.21	12.30	12.90
Japan	4.69	4.30	3.96	4.09	4.01	3.40	3.40	3.10
Mexico	3.80	3.64	3.67	3.84	3.58	3.33	3.52	3.45
Sunflowerseed	2.19	1.13	1.38	1.76	1.25	1.79	1.46	1.55
European Union b	1.07	0.41	0.63	0.57	0.30	0.62	0.27	0.36
Israel	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.05
Mexico	0.04	0.01	0.02	0.01	0.01	0.01	0.01	0.01
Turkey	0.66	0.53	0.41	0.50	0.53	0.45	0.74	0.70
Other oilseeds d	0.45	1.21	2.37	1.91	2.03	1.67	2.50	2.68
Total	64.07	72.66	75.42	80.84	89.96	93.67	102.52	104.74
Exports								
Canola	5.49	4.90	6.98	6.62	8.12	12.02	10.80	10.41
Australia	1.05	1.02	0.88	0.24	0.52	0.97	1.24	1.45
Canada	3.76	3.49	5.41	5.45	5.78	7.90	7.17	7.00
Copra	0.07	0.14	0.10	0.13	0.13	0.12	0.18	0.12
Papua New Guinea	0.02	0.03	0.01	0.02	0.04	0.04	0.04	0.04
Philippines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Linseed	0.82	0.65	0.80	1.05	0.87	0.81	0.98	0.76
Canada	0.71	0.51	0.65	0.84	0.74	0.66	0.73	0.76
Soybeans	56.02	64.75	63.80	71.32	79.59	77.25	92.60	91.68
Argentina	6.74	9.57	7.25	9.56	13.84	5.59	13.10	8.50
Brazil	20.42	20.14	25.91	23.49	25.36	29.99	28.58	29.95
United States	24.13	29.86	25.58	30.39	31.54	34.82	40.79	40.82
Sunflowerseed	2.27	1.23	1.52	1.90	1.48	2.15	1.56	1.62
Argentina	0.05	0.11	0.05	0.06	0.05	0.07	0.07	0.06
Ukraine	0.93	0.01	0.22	0.34	0.08	0.77	0.36	0.44
United States	0.17	0.14	0.18	0.18	0.20	0.18	0.18	0.16
Other oilseeds d	2.10	2.70	2.58	2.27	2.48	2.13	1.95	3.17
Total	66.77	74.37	75.78	83.28	92.67	94.48	108.07	107.76

^a Imports may not equal exports in any given period as a result of lags in shipping time. **b** Regarded as 27 countries; excludes intra-EU trade. **c** Regarded as 15 countries for all years; excludes intra-EU trade. **d** Cottonseed, palm kernels and peanuts.

Sources: ISTA Mielke GmbH, Oil World, Hamburg, Germany; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

174 Volume of world protein meals trade, by type and country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Copra meal	0.68	0.73	0.67	0.57	0.70	0.59	0.80	0.69
European Union b	0.14	0.08	0.05	0.03	0.02	0.02	0.03	0.03
Korea, Rep. of	0.40	0.43	0.41	0.39	0.52	0.38	0.53	0.42
Fish meal	3.13	3.59	2.95	2.69	3.01	3.11	2.62	2.49
China	1.13	1.58	0.98	0.97	1.35	1.31	1.00	0.95
Chinese Taipei	0.24	0.23	0.21	0.15	0.15	0.18	0.16	0.16
European Union b	0.60	0.65	0.57	0.54	0.49	0.56	0.42	0.45
Peanut meal	0.27	0.11	0.20	0.15	0.13	0.05	0.10	0.09
European Union b	0.03	0.00	0.03	0.06	0.01	0.01	0.03	0.03
Thailand	0.04	0.02	0.02	0.01	0.01	0.00	0.02	0.00
Soybean meal	44.89	45.92	51.17	52.55	54.07	51.18	53.01	56.19
European Union b	22.01	21.91	22.83	22.21	24.07	20.98	20.73	22.00
Indonesia	1.67	1.85	2.07	2.24	2.43	2.34	2.50	2.88
Korea, Rep. of	1.31	1.46	1.77	1.87	1.76	1.81	1.73	1.68
Philippines	1.16	1.38	1.37	1.36	1.21	1.30	1.60	1.85
Other meals c	8.82	8.99	10.12	10.64	10.98	11.85	11.80	13.64
Total	57.79	59.34	65.09	66.60	68.89	66.78	68.33	73.10
Exports								
Fish meal	3.20	3.67	2.73	2.59	2.85	2.95	2.26	2.49
European Union b	0.19	0.23	0.20	0.14	0.18	0.24	0.19	0.45
South America	2.32	2.76	1.93	1.85	2.15	2.24	1.49	1.71
Peanut meal	0.29	0.15	0.24	0.20	0.18	0.09	0.12	0.14
India	0.25	0.11	0.16	0.08	0.13	0.04	0.04	0.05
Senegal	0.01	0.00	0.03	0.08	0.01	0.01	0.02	0.04
Sudan	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02
Soybean meal	45.82	48.13	52.38	54.62	56.16	52.82	55.56	58.26
Argentina	19.22	20.65	24.22	25.63	26.82	24.03	24.91	27.36
Brazil	14.79	14.26	12.90	12.72	12.14	13.11	12.98	13.99
European Union b	0.40	0.53	0.70	0.55	0.41	0.47	0.47	0.57
United States	4.69	6.66	7.30	7.99	8.38	7.71	10.12	8.26
Other meals d	9.54	9.77	11.10	11.50	12.64	13.41	11.27	14.87
Total	58.85	61.72	66.44	68.91	71.83	69.27	69.21	75.76

a Imports may not equal exports in any given period, as a result of lags in shipping time. **b** Regarded as 27 countries; includes intra-EU trade. **c** Canola, cottonseed, palm kernel and sunflowerseed. **d** Canola, copra, cottonseed, palm kernel and sunflowerseed.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

175 Volume of world vegetable oils trade, by type and country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola oil	1.36	1.20	1.47	2.20	2.02	2.43	2.93	3.34
European Union b	0.03	0.03	0.32	0.73	0.30	0.45	0.44	0.48
India	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.02
Coconut oil	1.68	1.86	1.99	1.87	1.89	1.65	2.24	1.99
European Union b	0.68	0.77	0.77	0.79	0.70	0.65	0.81	0.70
United States	0.36	0.42	0.50	0.42	0.54	0.44	0.60	0.53
Palm oil	21.93	24.31	26.23	26.74	30.27	33.66	34.75	35.58
European Union b	3.41	4.03	4.27	4.33	4.96	5.50	5.40	5.00
India	3.49	3.53	2.90	3.65	5.02	6.87	6.60	6.80
Pakistan	1.30	1.55	1.85	1.62	2.22	1.95	2.04	2.10
Singapore	0.32	0.14	0.22	0.22	0.29	0.33	0.35	0.48
Soybean oil	8.39	8.88	9.09	9.92	10.38	8.92	8.66	9.31
China	2.73	1.73	1.52	2.40	2.73	2.49	1.54	1.55
European Union b	0.06	0.18	0.72	0.99	1.04	0.79	0.55	0.90
India	0.91	2.03	1.73	1.45	0.73	1.06	1.60	0.92
Russian Federation	0.10	0.09	0.05	0.02	0.12	0.02	0.02	0.02
Sunflowerseed oil	1.95	2.16	3.30	3.33	2.73	3.97	3.84	3.90
European Union b	0.52	0.86	1.24	1.21	1.18	1.01	0.97	0.80
Other vegetable oils c	2.41	2.45	2.50	2.99	3.49	3.54	3.06	3.20
Total	37.71	40.86	44.59	47.04	50.78	54.17	55.48	57.32
Exports								
Canola oil	1.33	1.29	1.65	2.03	1.91	2.42	2.74	3.50
Canada	0.98	0.97	1.09	1.27	1.31	1.53	1.81	2.50
European Union b	0.14	0.10	0.09	0.05	0.14	0.14	0.11	0.21
Coconut oil	1.80	2.07	2.08	1.74	1.92	1.49	2.17	1.88
Philippines	1.06	1.00	1.20	0.83	0.96	0.74	1.39	1.02
Cottonseed oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
United States	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Palm oil	22.12	25.03	27.59	27.54	32.19	34.57	35.63	36.50
Indonesia	7.86	9.62	11.70	11.42	13.97	15.96	16.57	17.15
Malaysia	11.60	12.68	12.93	12.90	14.64	15.49	15.53	15.61
Soybean oil	8.79	9.17	9.84	10.56	10.89	9.12	9.12	9.66
Argentina	4.24	4.76	5.60	5.97	5.79	4.70	4.40	4.75
Brazil	2.72	2.41	2.47	2.46	2.39	1.91	1.44	1.70
European Union b	0.56	0.53	0.27	0.24	0.33	0.40	0.38	0.43
United States	0.43	0.60	0.52	0.85	1.32	1.00	1.54	1.45
Sunflowerseed oil	2.68	2.57	3.91	4.04	3.48	4.59	4.55	4.46
Argentina	1.01	1.18	1.22	0.85	1.22	0.85	0.58	0.95
European Union b	0.23	0.18	0.13	0.15	0.11	0.14	0.14	0.16
Other vegetable oils c	2.58	2.69	2.80	3.17	3.27	3.60	3.43	2.83
Total	39.30	42.82	47.87	49.08	53.67	55.80	57.64	58.83

^a Imports may not equal exports in any given period, as a result of lags in shipping time. **b** Regarded as 27 countries; excludes intra-EU trade. **c** Olive, palm kernel and peanut.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

176 Selected oilseed, oilseed meal and vegetable oil import price quotations, by country a

	Canola b	Palm oil c	Soybeans d	Soybean meal e	Soybean oil f
	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t
1974-75	na	na	249.0	163.0	616.0
1975-76	na	na	215.0	169.0	418.0
1976-77	na	na	288.0	237.0	570.0
1977-78	na	na	259.0	205.0	581.0
1978-79	na	na	295.0	238.0	655.0
1979-80	na	na	278.0	242.0	609.0
1980-81	308.0	na	310.0	273.0	545.0
1981-82	292.0	na	253.0	225.0	463.0
1982-83	303.0	406.0	260.0	224.0	463.0
1983-84	351.0	767.0	301.1	221.0	722.0
1984-85	303.0	569.0	223.0	155.0	625.0
1985-86	239.0	274.0	210.8	183.0	377.0
1986-87	180.0	310.0	208.7	191.0	324.0
1987-88	222.0	402.0	282.3	254.0	443.0
1988-89	218.5	357.7	292.3	262.8	435.0
1989-90	213.3	270.8	246.9	204.3	437.5
1990-91	199.3	317.6	241.4	198.3	454.4
1991-92	203.8	365.2	237.4	202.8	437.3
1992-93	234.1	382.3	246.2	207.3	453.3
1993-94	284.3	445.6	258.8	201.5	580.2
1994-95	288.9	659.7	247.6	183.6	641.8
1995-96	297.6	523.3	304.0	256.3	574.9
1996-97	284.4	525.1	304.0	277.7	535.6
1997-98	296.1	604.7	257.0	196.8	633.4
1998-99	227.3	484.0	209.0	149.7	482.9
1999-00	190.1	315.3	210.0	179.7	356.0
2000-01	202.0	243.8	200.9	187.9	335.9
2001-02	220.4	340.6	201.0	174.3	411.6
2002-03	284.0	420.0	244.8	191.0	537.0
2003-04	317.0	481.0	320.6	256.0	633.0
2004-05	262.0	392.0	274.5	212.0	545.0
2005-06	292.0	416.0	260.9	203.0	573.0
2006-07	375.0	654.0	335.4	264.0	771.0
2007-08	644.0	1 058.0	549.4	445.0	1 327.0
2008-09	393.0	633.0	420.8	385.0	826.0
2009-10	419.0	793.0	429.2	390.0	905.0
2010-11	644.0	1 154.0	550.0	418.0	1 300.0

a October–September average. b Cif Hamburg; Europe '00' rapeseed. c Malaysia fob; RBD. d Cif Rotterdam. e Cif Rotterdam; Arg. 44/45 per cent.

f Dutch fob; ex mill. na Not available.

Sources: ISTA mielke GmbH, *Oil World*, Hamburg, Germany.

177 Summary of Australian statistics for pulses

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Lupins									
Area	'000 ha	851.0	845.0	808.9	736.4	752.2	577.0	692.0	567.9
Yield	t/ha	1.4	1.1	1.6	0.6	0.9	1.2	1.2	1.1
Production	kt	1 180.0	937.0	1 285.0	470.3	661.9	708.0	823.0	618.0
Exports a	kt	645.6	418.5	469.5	173.7	76.2	157.1	377.2	289.2
Value of exports a	\$m	147.7	88.8	99.4	37.8	31.4	61.4	114.7	90.4
Average unit value	\$/t	235.7	205.9	195.4	265.6	334.6	279.8	248.5	328.0
Gross value of production	\$m	278.1	192.9	251.1	124.9	221.5	198.1	204.5	202.7
Field peas									
Area	'000 ha	354.0	413.0	365.7	383.8	292.5	299.8	285.1	291.9
Yield	t/ha	1.4	0.7	1.6	0.4	0.9	0.8	1.2	1.5
Production	kt	487.0	289.0	584.6	140.4	267.5	238.1	356.0	434.0
Exports ab	kt	209.3	116.1	156.1	247.7	142.0	118.1	163.0	254.0
Value of exports ab	\$m	55.6	33.4	43.2	80.1	60.8	62.5	60.0	85.1
Average unit value	\$/t	231.6	234.6	222.2	282.8	407.3	344.5	241.3	229.2
Gross value of production	\$m	112.8	67.8	129.9	39.7	109.0	82.0	85.9	99.5
Chickpeas									
Area	'000 ha	151.5	113.3	131.3	284.1	306.0	338.2	429.0	546.0
Yield	t/ha	1.2	1.0	1.1	0.8	1.0	1.3	1.1	0.7
Production	kt	178.0	115.6	149.7	229.2	313.0	442.5	487.0	379.4
Exports a	kt	163.8	151.2	211.4	244.1	218.3	466.8	458.8	407.6
Value of exports a	\$m	70.6	65.3	106.4	168.2	139.3	274.9	254.5	213.4
Average unit value	\$/t	326.7	310.3	460.6	658.7	621.6	450.0	397.8	479.1
Gross value of production	\$m	58.2	35.9	68.9	151.0	194.5	199.1	193.7	181.8
Total legumes c									
Area	'000 ha	1 700.1	1 764.0	1 741.6	1 871.7	1 677.9	1 524.4	1 707.3	1 780.5
Yield	t/ha	1.4	1.0	1.6	0.6	0.9	1.1	1.2	1.2
Production	kt	2 396.1	1 683.3	2 731.3	1 044.8	1 581.2	1 648.1	2 095.7	2 100.2
Exports ad	kt	2 041.7	1 328.7	1 706.9	1 146.7	692.2	1 118.1	1 678.8	1 659.8
Value of exports ad	\$m	588.0	397.1	533.0	483.9	415.2	662.2	797.6	770.7
Average unit value	\$/t	239.1	234.2	221.6	378.6	518.2	374.5	327.4	400.8
Gross value of production	\$m	572.8	394.2	605.4	395.6	819.4	617.3	686.2	841.8

a Exports are on a financial year basis. **b** Includes only field peas and cow peas. **c** Lupins, field peas, chickpeas, faba beans, mung beans, navy beans, vetch and lentils. **d** Also includes cow peas, pigeon peas and some other minor legumes on a financial year basis.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; Pulse Australia, Sydney; ABARE, *Australian Crop Report*, Canberra.

178 Australian area sown, yields and production of selected pulses, by state

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Lupins							
Area							
2004-05	'000 ha	63.0	35.0	0.3	677.0	69.0	845.0
2005-06	'000 ha	36.6	27.1	0.1	672.3	72.4	808.9
2006-07	'000 ha	73.6	43.3	0.0	529.8	89.3	736.4
2007-08	'000 ha	80.2	48.3	0.8	546.1	76.5	752.2
2008-09	'000 ha	44.0	36.0	0.0	444.0	53.0	577.0
2009-10	'000 ha	102.0	36.0	0.0	500.0	53.0	692.0
2010-11	'000 ha	134.0	43.0	0.0	541.0	64.0	783.0
Yield							
2004-05	t/ha	0.87	0.57	1.67	1.17	0.99	1.11
2005-06	t/ha	1.70	1.33	1.20	1.58	1.68	1.59
2006-07	t/ha	0.21	0.26	1.29	0.77	0.38	0.64
2007-08	t/ha	0.37	0.63	1.47	0.98	0.88	0.88
2008-09	t/ha	0.84	0.50	na	1.35	0.98	1.23
2009-10	t/ha	0.82	0.92	na	1.26	1.40	1.19
2010-11	t/ha	2.01	1.60	na	0.75	1.50	1.07
Production							
2004-05	kt	55.0	20.0	0.5	792.0	68.0	937.0
2005-06	kt	62.3	36.1	0.1	1 064.2	121.4	1 285.0
2006-07	kt	15.5	11.2	0.0	409.1	34.2	470.3
2007-08	kt	29.3	30.6	1.2	533.1	67.0	661.9
2008-09	kt	37.0	18.0	0.0	600.0	52.0	708.0
2009-10	kt	84.0	33.0	0.0	631.0	74.0	823.0
2010-11	kt	269.0	69.0	0.0	407.0	96.0	841.0
Field peas							
Area							
2004-05	'000 ha	28.0	142.0	0.0	99.0	143.0	413.0
2005-06	'000 ha	37.3	98.8	0.9	84.7	143.2	365.7
2006-07	'000 ha	42.4	102.0	0.6	75.2	163.4	383.8
2007-08	'000 ha	45.5	67.0	0.0	50.0	130.0	292.5
2008-09	'000 ha	29.1	68.0	0.0	81.2	121.1	299.8
2009-10	'000 ha	46.1	52.0	0.0	60.0	127.0	285.1
2010-11	'000 ha	56.9	45.0	0.0	72.0	118.0	291.9
Yield							
2004-05	t/ha	0.54	0.35	0.00	0.73	1.05	0.70
2005-06	t/ha	1.50	1.68	0.50	1.21	1.80	1.60
2006-07	t/ha	0.11	0.08	1.00	0.70	0.46	0.37
2007-08	t/ha	0.21	0.90	0.00	1.10	1.10	0.91
2008-09	t/ha	0.57	0.37	0.04	1.01	0.94	0.79
2009-10	t/ha	0.72	1.44	0.25	1.08	1.44	1.25
2010-11	t/ha	1.34	1.68	0.00	0.70	1.96	1.49
Production							
2004-05	kt	15.0	50.0	0.0	72.0	150.0	289.0
2005-06	kt	56.2	165.6	0.4	102.6	257.7	584.6
2006-07	kt	4.7	7.8	0.6	52.4	74.5	140.4
2007-08	kt	9.5	60.0	0.0	55.0	143.0	267.5
2008-09	kt	16.5	25.3	0.0	81.7	113.9	238.1
2009-10	kt	33.0	75.0	0.0	65.0	183.0	356.0
2010-11	kt	76.2	75.6	0.0	50.4	231.8	434.0

Continued

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Chickpeas							
Area							
2004-05	'000 ha	63.0	4.0	41.0	4.0	1.3	113.3
2005-06	'000 ha	62.4	24.3	39.2	3.8	1.6	131.3
2006-07	'000 ha	176.1	42.4	60.4	1.7	3.4	284.1
2007-08	'000 ha	214.5	17.0	66.0	0.8	7.7	306.0
2008-09	'000 ha	199.3	44.0	85.5	3.3	6.1	338.2
2009-10	'000 ha	252.3	38.7	124.9	3.3	9.8	429.0
2010-11	'000 ha	334.7	25.0	168.0	8.8	9.5	546.0
Yield							
2004-05	t/ha	1.37	1.00	0.51	0.88	0.88	1.02
2005-06	t/ha	1.17	1.29	1.01	0.92	1.39	1.14
2006-07	t/ha	0.91	0.13	1.00	0.89	0.33	0.81
2007-08	t/ha	0.94	1.12	1.26	0.25	1.20	1.02
2008-09	t/ha	1.46	0.38	1.47	1.18	0.65	1.31
2009-10	t/ha	1.20	0.65	1.17	0.90	0.96	1.14
2010-11	t/ha	0.60	1.90	0.66	0.40	1.68	0.69
Production							
2004-05	kt	86.0	4.0	21.0	3.5	1.1	115.6
2005-06	kt	72.9	31.4	39.7	3.5	2.2	149.7
2006-07	kt	160.5	5.5	60.6	1.5	1.1	229.2
2007-08	kt	201.5	19.0	83.0	0.2	9.3	313.0
2008-09	kt	291.8	16.9	126.0	4.0	3.9	442.5
2009-10	kt	303.8	25.2	145.8	2.9	9.4	487.0
2010-11	kt	200.7	47.5	111.7	3.5	16.0	379.4
Faba beans							
Area							
2004-05	'000 ha	40.0	60.0	0.0	7.5	87.0	194.5
2005-06	'000 ha	33.0	55.0	0.0	6.0	89.0	183.0
2006-07	'000 ha	38.1	61.2	1.6	4.8	80.5	186.6
2007-08	'000 ha	9.5	34.0	0.0	2.0	87.0	132.5
2008-09	'000 ha	28.9	36.3	0.0	2.3	57.6	125.3
2009-10	'000 ha	44.5	22.0	2.0	3.5	57.0	129.0
2010-11	'000 ha	39.9	45.0	2.5	2.5	55.0	144.9
Yield							
2004-05	t/ha	1.75	0.33	0.00	1.00	0.80	0.86
2005-06	t/ha	2.12	1.38	0.00	1.33	1.97	1.80
2006-07	t/ha	1.43	0.08	1.54	0.55	0.52	0.57
2007-08	t/ha	0.89	0.94	0.00	1.25	1.09	1.04
2008-09	t/ha	1.21	0.75	0.00	1.53	1.19	1.08
2009-10	t/ha	1.46	1.59	1.25	1.43	1.93	1.68
2010-11	t/ha	2.10	1.82	2.00	1.10	2.06	1.98
Production							
2004-05	kt	70.0	20.0	0.0	7.5	70.0	167.5
2005-06	kt	70.0	76.0	0.0	8.0	175.0	329.0
2006-07	kt	54.3	5.0	2.4	2.6	41.8	107.0
2007-08	kt	8.5	32.0	0.0	2.5	95.0	138.0
2008-09	kt	35.1	27.1	0.0	3.6	68.5	134.7
2009-10	kt	64.8	35.0	2.5	5.0	110.0	217.3
2010-11	kt	83.7	81.7	5.0	2.8	113.4	286.6

Continued

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Australian area sown, yields and production of selected pulses, by state *continued*

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia ^a
Mung beans							
Area							
2004-05	'000 ha	25.0	0.0	25.0	0.0	0.0	49.8
2005-06	'000 ha	18.0	0.2	25.8	0.0	0.0	44.0
2006-07	'000 ha	3.2	26.9	13.9	0.0	0.2	44.3
2007-08	'000 ha	19.8	0.0	25.2	0.0	0.0	45.0
2008-09	'000 ha	8.5	0.0	36.2	0.0	0.1	44.8
2009-10	'000 ha	19.1	0.2	25.7	0.0	0.0	44.9
2010-11	'000 ha	19.5	0.2	28.0	0.0	0.0	48.0
Yield							
2004-05	t/ha	0.87	0.00	1.25	0.00	0.00	1.07
2005-06	t/ha	1.09	0.00	1.10	0.00	0.00	1.09
2006-07	t/ha	1.14	0.62	0.59	0.00	0.25	0.65
2007-08	t/ha	0.93	0.00	1.07	0.00	0.00	1.01
2008-09	t/ha	1.00	0.00	0.85	0.00	0.89	0.88
2009-10	t/ha	1.08	0.00	1.19	0.00	0.00	0.97
2010-11	t/ha	0.90	0.00	1.00	0.00	0.00	1.04
Production							
2004-05	kt	21.7	0.0	31.2	0.0	0.0	53.2
2005-06	kt	19.6	0.0	28.5	0.0	0.0	48.1
2006-07	kt	3.7	16.6	8.2	0.0	0.1	28.6
2007-08	kt	18.4	0.0	27.0	0.0	0.0	45.5
2008-09	kt	8.5	0.0	30.8	0.0	0.1	39.5
2009-10	kt	20.6	0.0	30.5	0.0	0.0	43.5
2010-11	kt	17.6	0.0	28.0	0.0	0.0	50.0
Total pulses ^b							
Area							
2004-05	'000 ha	223.0	303.5	66.3	791.5	378.3	1 764.0
2005-06	'000 ha	190.4	323.1	66.2	778.1	382.4	1 741.6
2006-07	'000 ha	334.4	405.6	76.4	615.6	438.5	1 871.7
2007-08	'000 ha	370.4	240.3	92.0	600.4	374.6	1 677.9
2008-09	'000 ha	310.9	262.9	121.7	533.1	303.2	1 524.4
2009-10	'000 ha	465.0	208.4	152.7	568.7	319.4	1 707.3
2010-11	'000 ha	542.9	224.8	198.5	475.7	346.1	1 780.5
Yield							
2004-05	t/ha	1.13	0.45	0.79	1.11	0.95	0.95
2005-06	t/ha	1.50	1.53	1.04	1.53	1.81	1.57
2006-07	t/ha	0.72	0.15	0.94	0.76	0.45	0.56
2007-08	t/ha	0.72	0.87	1.21	0.99	1.06	0.94
2008-09	t/ha	1.25	0.44	1.29	1.30	0.96	1.08
2009-10	t/ha	1.09	1.13	1.17	1.25	1.59	1.23
2010-11	t/ha	1.02	1.76	0.73	0.74	1.97	1.18
Production							
2004-05	kt	251.7	136.0	52.7	880.0	359.1	1 683.3
2005-06	kt	284.7	493.2	68.8	1 191.2	690.4	2 731.3
2006-07	kt	240.1	62.9	71.8	470.5	197.9	1 044.8
2007-08	kt	268.2	210.0	111.3	592.5	398.5	1 581.2
2008-09	kt	389.8	116.8	156.9	690.9	291.1	1 648.1
2009-10	kt	508.4	234.6	178.8	708.1	506.9	2 095.7
2010-11	kt	555.1	396.7	144.7	353.6	680.2	2 100.2

^a Includes data for Tasmania and the Northern Territory. ^b Lupins, field peas, chickpeas, faba beans, mung beans, vetch and lentils.Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Queensland*, cat. no. 7321.3, Brisbane; ABS, *Summary of Crops, Australia*, cat. no. 7330, Canberra; Pulse Australia, Sydney; ABARES, *Australian Crop Report*, Canberra.

179 World pulses production, by region and country

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt	2010 kt
Africa								
Ethiopia	983	1 318	1 320	1 374	1 573	1 774	1 840	na
Niger	568	352	598	722	1 036	1 593	1 572	na
Nigeria	2 559	2 738	2 929	3 091	2 853	2 969	2 412	na
Tanzania	962	928	979	1 108	1 137	1 066	1 245	na
Uganda	694	627	653	602	618	629	648	na
Americas								
Brazil	3 321	2 992	3 040	3 477	3 189	3 486	3 514	na
Canada	2 840	4 298	4 590	3 764	4 181	4 948	5 185	na
Mexico	1 699	1 394	1 098	1 691	1 292	1 413	1 324	na
United States	1 394	1 553	2 141	1 923	2 139	1 880	2 267	na
Asia								
Burma	2 623	2 739	3 132	3 558	3 997	4 522	4 406	na
China	5 892	4 925	5 234	4 545	4 483	4 896	4 331	na
India	12 737	13 545	12 876	13 999	15 088	14 394	14 480	na
Pakistan	1 066	956	1 171	825	1 246	845	1 103	na
Europe								
France	1 943	2 091	1 752	1 354	877	796	1 020	na
Russian Federation	1 666	1 887	1 645	1 769	1 302	1 829	1 559	na
Ukraine	571	812	758	747	357	550	624	na
United Kingdom	923	876	861	795	745	612	829	na
Middle East								
Turkey	1 558	1 584	1 565	1 606	1 385	960	1 237	na
Oceania								
Australia ^a	1 296	2 396	1 683	2 731	1 045	1 581	1 648	2 096
Total ^b	59 197	59 697	60 990	60 582	61 177	62 647	64 050	na

^a On a fiscal year basis; for example, 1992-93 = 1993. ^b Includes some unspecified countries. **na** Not available.

Sources: ABARE, *Australian Crop Report*, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; UN FAO, *Production Yearbook*, Rome; FAOSTAT database, UN FAO.

180 **Volume of world pulses trade, by region and country**

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt
Imports							
Africa							
Algeria	172.8	157.7	196.9	163.6	187.9	173.0	na
Egypt	393.0	433.0	533.0	571.0	417.8	434.7	na
South Africa	122.9	77.4	74.6	97.4	118.4	103.8	na
Sudan	53.4	59.3	104.3	116.7	103.5	121.6	na
Americas							
Brazil	137.5	113.5	138.4	112.3	143.7	264.1	na
Colombia	119.9	127.2	148.6	140.1	154.4	123.7	na
Cuba	212.9	223.6	216.5	217.5	241.3	176.8	na
Mexico	129.4	109.4	127.1	184.5	147.0	142.9	na
United States	249.9	255.0	252.4	262.7	272.3	279.1	na
Venezuela	142.4	121.5	70.4	100.3	159.8	82.5	na
Asia							
China	138.7	163.0	341.6	438.6	365.7	392.7	na
India	1 953.9	1 471.9	1 870.0	2 490.6	2 951.8	2 593.7	na
Japan	158.9	162.2	141.7	144.1	146.7	143.6	na
Pakistan	394.4	261.4	364.0	478.7	520.9	336.0	na
Sri Lanka	144.9	159.3	141.0	127.1	154.5	167.2	na
Europe							
France	121.2	100.1	101.3	100.5	125.8	115.9	na
Belgium	284.4	406.1	431.8	382.5	212.9	154.5	na
Italy	436.9	420.8	430.7	449.7	290.6	275.8	na
Netherlands	324.0	262.0	253.7	209.0	149.8	93.8	na
Spain	419.3	939.5	1 256.7	877.2	247.5	199.3	na
United Kingdom	184.8	170.5	194.6	210.2	237.1	276.7	na
Middle East							
United Arab Emirates	105.9	86.5	90.9	228.8	223.2	316.0	na
Total a	8 921.5	8 790.9	10 132.0	10 624.9	10 493.0	9 861.6	na

Continued

180 Volume of world pulses trade, by region and country *continued*

	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt	2008 kt	2009 kt
Exports							
Americas							
Argentina	230.0	183.4	219.0	293.8	322.0	272.6	na
Canada	1 777.2	2 330.0	3 260.1	3 437.5	3 509.6	3 125.9	na
Mexico	158.6	102.3	102.7	155.9	113.4	133.1	na
United States	562.1	559.1	825.8	948.1	949.1	1 117.6	na
Asia							
Burma	1 073.6	902.8	670.3	1 188.9	1 452.9	758.0	na
China	1 041.5	795.8	868.3	801.9	860.1	1 031.7	na
India	157.4	256.5	451.6	255.1	170.6	136.8	na
Europe							
Belgium	46.4	60.4	62.4	62.1	98.6	129.9	na
France	747.2	773.6	656.7	696.6	555.7	490.2	na
United Kingdom	498.0	422.1	375.8	301.8	216.3	232.7	na
Ukraine	44.3	175.9	179.4	271.3	82.2	77.6	na
Middle East							
Turkey	449.5	323.7	245.6	410.7	259.0	165.2	na
Oceania							
Australia b	947.6	2 041.7	1 328.7	1 706.9	1 146.7	692.2	1 118.1
New Zealand	22.2	19.5	18.3	13.1	15.9	13.4	na
Total a	8 488.1	8 956.9	9 808.7	11 104.1	10 660.3	9 677.3	na

a Includes some unspecified countries. **b** On a fiscal year basis; for example 1992-93 = 1993. **na** Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; FAOSTAT database, UN FAO.

181 Summary of Australian statistics for rice ^a

	Area '000 ha	Yield ^b t/ha	Production		Exports		Apparent consumption ^f kt
			Volume ^b kt	Unit value ^c \$/t	Volume ^d kt	Unit value ^e \$/t	
1970-71	40.7	7.4	299.8	45.8	95.9	137.6	32.6
1971-72	40.5	6.1	248.4	48.1	169.3	114.6	33.1
1972-73	45.2	6.8	308.6	81.0	152.0	139.5	29.0
1973-74	67.5	6.1	408.8	123.4	124.8	229.2	27.4
1974-75	75.6	5.1	386.7	92.8	159.8	268.5	32.2
1975-76	74.8	5.6	417.0	98.8	215.2	238.8	33.5
1976-77	92.0	5.8	529.8	112.0	254.4	224.4	33.3
1977-78	91.4	5.4	490.3	124.6	273.2	241.9	34.8
1978-79	110.2	6.3	692.2	141.2	239.4	276.1	35.5
1979-80	116.4	5.3	613.1	153.0	449.6	288.9	37.1
1980-81	103.9	7.3	759.8	181.9	276.0	362.3	43.0
1981-82	123.0	7.0	857.0	120.8	558.0	349.5	43.9
1982-83	84.8	6.1	519.8	170.1	384.0	312.5	46.3
1983-84	119.1	5.3	634.2	140.2	241.0	381.7	50.5
1984-85	121.8	7.1	864.1	142.5	327.0	357.8	57.1
1985-86	105.1	6.5	687.5	117.1	464.6	398.2	58.6
1986-87	94.9	5.8	549.2	154.8	394.0	352.8	60.0
1987-88	105.4	7.2	761.1	152.0	314.6	391.0	80.2
1988-89	97.0	8.3	805.0	182.1	160.6	452.5	89.4
1989-90	105.0	8.8	924.0	152.6	149.8	486.7	97.6
1990-91	89.0	8.8	787.0	176.0	223.5	427.4	103.0
1991-92	127.0	8.8	1 122.0	164.0	449.3	461.6	90.6
1992-93	125.0	7.6	955.0	172.0	484.5	477.6	86.9
1993-94	132.7	8.2	1 082.0	241.7	533.8	506.5	98.7
1994-95	129.2	8.8	1 137.0	190.1	584.4	585.4	108.5
1995-96	149.7	6.4	951.2	237.6	606.0	554.9	118.2
1996-97	166.7	8.3	1 388.0	223.6	520.3	559.9	133.7
1997-98	141.2	9.4	1 330.9	255.9	680.9	582.8	135.5
1998-99	151.7	9.2	1 389.8	259.4	581.9	667.5	133.0
1999-00	133.3	8.2	1 096.0	263.9	672.1	616.4	136.4
2000-01	177.0	9.3	1 643.0	213.2	601.8	636.4	130.8
2001-02	144.0	8.3	1 192.0	274.2	580.3	583.9	139.1
2002-03	46.0	9.5	438.0	348.2	664.4	644.8	147.3
2003-04	66.0	8.4	553.0	325.1	216.5	620.4	155.5
2004-05	51.4	6.6	339.0	296.8	298.8	634.6	163.7
2005-06	102.0	9.8	1 002.6	283.3	167.3	653.2	171.9
2006-07	20.0	8.2	163.0	337.4	598.2	698.4	196.5
2007-08	2.2	8.2	17.6	414.4	92.3	876.7	183.1
2008-09	7.2	8.5	60.9	566.0	124.1	1 382.6	172.6
2009-10	18.9	10.4	196.7	457.1	50.6	1 146.8	201.0
2010-11	75.0	9.7	726.0	239.9	64.9	935.2	204.4

^a Crop year basis. For example, the 1985-86 data are for the Queensland summer crop harvested from December 1985, the New South Wales crop harvested from April 1986, and the Queensland winter crop harvested from June 1986. ^b Paddy. ^c Unit gross value of production. ^d Based on ABS data; April-March marketing year basis; generally exports of the crop harvested in the previous year - that is, 1998-99 exports are sourced from the 1997-98 crop harvest. Milled. Includes ABARE estimates from 2000 as confidentiality restrictions apply. ^e Unit gross value of exports. Between 1952-53 and 1987-88, calculated from financial year total export values. From 1988-89, calculated from marketing year (April-March) total export values. ^f Table rice until 1999-2000 and excludes rice used for feed, breakfast cereals and rice used for other purposes; includes imports. Financial year basis. From 1999-2000, ABARES estimate of apparent consumption.

Sources: ABS, *Apparent Consumption of Foodstuffs and Nutrients Australia*, cat. no. 4306.0, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Value of Principal Agricultural Commodities Produced, Australia, Preliminary, 2009-10*, cat. no. 7501.0, Canberra; ABS, *Value of Australian Commodities Produced*, cat. no. 7503.0, Canberra; ABS, *Agricultural Commodities*, cat. no. 7121.0, Canberra; Ricgrowers Limited, *Annual Report*, Leeton; Rice Marketing Board for the State of New South Wales, *Annual Report*, Leeton; ABARES.

182 Australian rice trade and payments to growers

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Exports ^a									
Quantity	kt	216	299	167	598	92	124	51	65
Total export value ^b	\$m	134	190	109	418	81	172	58	61
Imports ^{ac}									
Quantity	kt	80	91	103	107	141	171	201	180
Total import value	\$m	56	59	69	78	106	201	226	179
Indicator price									
Thai white rice ^d	US\$/t	220.33	278.33	301.42	320.17	551.25	608.50	531.92	518.17
Thai white rice ^e	A\$/t	309.49	370.19	404.28	408.09	615.31	813.76	601.99	524.80
California medium grain ^f	US\$/t	532.8	404.4	484.2	537.8	693.8	1118.7	790.9	839.6
Average returns to growers ^g									
Average return	\$/t	325.1	296.8	283.3	337.4	414.4	566.0	457.1	239.9

^a Milled equivalent; marketing year (April–March) basis. Includes ABARES estimates from 2000 as confidentiality restrictions apply. ^b Free on board (fob).

^c Excludes broken rice. ^d US Department of Agriculture sourced nominal quote for Thai white rice, 100 per cent, grade B/2nd grade, fob Bangkok

(August–July basis). ^e Derived. ^f USA California medium grain 4 per cent, fob Oakland. ^g Gross unit value.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Value of Principal Agricultural Commodities Produced, Australia*, Preliminary, 2009-10, cat. no. 7501.0, Canberra; ABS, *Value of Australian Commodities Produced*, cat. no. 7503.0, Canberra; Queensland Rice Marketing Board, *Annual Report*, Home Hill; Rice Marketing Board, New South Wales, *Annual Report*, Leeton; Ricegrowers Co-operative Mills Ltd; US Department of Agriculture, *Rice News*, Little Rock, Arkansas; Sunrice, *Annual Report*; ABARES.

183 Summary of world statistics for rice ^a

	Area harvested million ha	Production ^b Mt	Total use Mt	Closing stocks ^{bc} Mt	Stocks to use ratio %	Trade ^d Mt	Export price ^e US\$/t
1968-69	129	195	191	25	13	7	187
1969-70	131	201	198	26	13	8	161
1970-71	133	213	210	29	14	9	132
1971-72	135	216	216	29	13	9	134
1972-73	133	209	213	24	11	8	187 ^f
1973-74	136	228	223	29	13	8	594 ^g
1974-75	138	226	227	29	13	7	439
1975-76	143	243	232	39	17	8	303
1976-77	141	235	235	39	17	10	275
1977-78	143	250	244	45	18	10	361
1978-79	143	262	252	55	22	12	340
1979-80	141	256	256	54	21	12	410
1980-81	144	270	270	53	19	12	493
1981-82	144	278	278	51	18	11	380
1982-83	141	285	278	57	20	11	280
1983-84	145	307	293	69	24	12	278
1984-85	144	317	298	88	29	11	211
1985-86	145	318	307	98	32	12	191
1986-87	145	316	308	103	34	13	190
1987-88	141	315	312	105	34	11	273
1988-89	147	332	323	112	35	14	292
1989-90	148	345	335	121	36	12	292
1990-91	147	351	344	127	37	12	296
1991-92	147	353	351	127	36	14	287
1992-93	146	354	356	123	35	15	244
1993-94	145	355	359	119	33	17	294
1994-95	147	364	364	118	32	21	290
1995-96	148	369	367	118	32	20	362
1996-97	150	381	377	120	32	19	338
1997-98	152	387	378	128	34	28	302
1998-99	153	395	388	134	35	25	284
1999-00	156	409	398	143	36	23	231
2000-01	152	399	394	147	37	28	184
2001-02	151	400	413	133	32	28	192
2002-03	147	378	406	103	25	27	199
2003-04	149	392	414	81	19	27	220
2004-05	152	401	409	73	18	30	278
2005-06	154	418	415	76	18	29	301
2006-07	154	420	419	77	18	32	320
2007-08	155	432	429	80	19	29	551
2008-09	157	447	436	92	21	29	609
2009-10	155	440	437	95	22	31	532
2010-11	157	451	448	97	22	33	518

^a Based on United States Department of Agriculture data until 2002-03 and International Grains Council data from 2003-04. ^b Milled.

^c Closing stocks data are based on an aggregate of different local marketing years and should not be taken as representing world stock

levels at a particular point in time. ^d Calendar year basis, 1960-61 = 1961; excludes intra-EU trade from 2003-04. ^e Thai white rice, 100 per cent, 2nd grade/grade B, fob Bangkok (August-July basis). From 1960-61 to 1983-84, prices are nominal quotes from Thailand Board of Trade. From 1984-85, prices are nominal quotes from the US Department of Agriculture. ^f August-March average. ^g January-July average.

Sources: Australian Bureau of Statistics; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *Rice Market News*, Arkansas; US Department of Agriculture, *Rice Outlook*, (<http://www.ers.usda.gov/Briefing/Rice/marketoutlook.html/>); International Grains Council; ABARES.

184 World rice production, by country or region ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	0.6	0.3	1.0	0.2	0.0	0.1	0.2	0.7
Bangladesh	26.2	25.6	28.8	29.0	28.8	31.0	31.0	32.7
Brazil	8.7	9.0	7.9	7.7	8.2	8.6	7.9	9.3
China	112.5	125.4	126.4	127.2	130.2	134.3	136.6	137.1
European Union ^b	1.7	1.9	1.7	1.7	1.8	1.6	1.9	1.8
India	88.5	83.1	91.8	93.3	96.7	99.2	89.1	95.3
Indonesia	35.0	34.8	35.0	35.3	37.1	38.3	36.4	37.5
Japan	7.1	7.9	8.2	7.8	7.9	8.0	7.7	7.7
Korea, Rep. of	4.5	5.0	4.8	4.7	4.4	4.8	4.9	4.3
Myanmar	10.7	9.6	10.4	10.6	10.7	10.2	10.6	10.7
Pakistan	4.8	5.0	5.5	5.5	5.7	6.9	6.8	4.7
Philippines	9.2	9.4	9.8	9.8	10.5	10.8	9.8	10.5
Thailand	18.0	17.4	18.2	18.3	19.6	20.0	20.3	20.4
United States	6.4	7.5	7.1	6.3	6.3	6.5	7.1	7.6
Vietnam	22.1	22.7	22.8	22.9	24.4	24.4	25.0	25.9
World	392.3	401.0	418.1	419.8	432.4	447.4	440.0	451.0

^a Crop year (milled basis). ^b Regarded as 27 countries.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; International Grains Council; ABARES.

185 Volume of world rice trade, by country ^a

	2003	2004	2005	2006	2007	2008	2009	2010
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Bangladesh	0.80	0.65	0.79	0.54	1.49	1.30	0.01	0.73
Brazil	0.83	0.69	0.50	0.61	0.71	0.41	0.65	0.73
China	1.12	0.73	0.53	0.69	0.50	0.27	0.35	0.35
European Union ^b	1.18	1.10	1.19	1.27	1.34	1.37	1.09	1.25
India	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indonesia	0.65	0.24	0.25	0.49	1.62	0.28	0.25	1.00
Iran	0.95	1.03	1.10	1.31	1.13	1.18	1.26	1.10
Iraq	0.89	0.98	0.81	1.31	0.84	0.90	1.15	1.15
Japan	0.71	0.70	0.86	0.70	0.63	0.52	0.76	0.68
Malaysia	0.70	0.86	0.81	0.91	0.74	0.94	0.84	0.85
Nigeria	1.37	1.44	1.84	1.57	1.51	1.80	2.00	2.03
Philippines	1.10	0.89	1.96	1.79	2.01	2.50	1.91	2.45
Russian Federation	0.35	0.43	0.31	0.39	0.23	0.25	0.22	0.23
Saudi Arabia	1.50	1.26	1.05	0.97	1.01	1.08	1.13	1.15
World ^c	27.25	27.10	29.74	28.98	31.83	29.34	29.22	31.41
Exports								
Australia	0.35	0.28	0.20	0.48	0.24	0.12	0.07	0.06
China	0.88	0.88	0.66	1.21	1.31	0.94	0.76	0.60
European Union ^b	0.19	0.19	0.20	0.14	0.14	0.15	0.15	0.28
India	3.17	3.53	5.02	4.45	6.17	3.46	2.13	2.14
Myanmar	0.13	0.12	0.19	0.11	0.07	0.40	0.87	0.48
Pakistan	1.99	1.96	3.48	3.66	2.72	3.05	3.21	4.20
Thailand	10.14	10.12	7.30	7.42	9.56	10.17	8.62	8.88
United States	3.09	3.09	3.86	3.31	3.03	3.30	2.95	3.85
Vietnam	4.30	4.09	5.20	4.75	4.51	4.65	5.99	6.67
World ^c	27.25	27.10	29.74	28.98	31.83	29.34	29.22	31.41

^a Milled basis. ^b Regarded as 27 countries. Excludes intra-EU trade. ^c Excludes intra-EU trade.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; International Grains Council; UN Comtrade database; ABARES.

186 US rice supply and disposal ^a

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Area harvested	million ha	1.21	1.35	1.36	1.14	1.11	1.20	1.26	1.46
Yield	t/ha	5.29	5.54	5.22	5.49	5.65	5.44	5.68	5.16
Opening stocks ^b	Mt	0.83	0.74	1.21	1.37	1.27	0.94	0.98	1.18
Production ^b	Mt	6.42	7.28	7.10	6.27	6.29	6.55	7.13	7.59
Total supply ^{bc}	Mt	7.73	8.45	8.86	8.29	8.31	8.09	8.71	9.36
Exports	Mt	4.67	5.01	5.21	4.12	4.77	4.28	4.91	5.06
Long grain	Mt	3.66	3.85	4.18	3.27	3.60	3.08	3.37	3.54
Medium-short grain	Mt	1.01	1.16	1.03	0.85	1.17	1.20	1.54	1.52
Domestic and residual use ^b	Mt	3.66	3.94	3.83	4.10	4.04	4.08	4.02	4.36
Closing stocks	Mt	0.76	1.21	1.37	1.27	0.94	0.98	1.18	1.51
Total use	Mt	9.88	10.50	10.65	9.93	10.53	10.07	10.56	11.32
Target price	US\$/t	231	231	231	231	231	231	231	231
Statutory loan rate	US\$/t	143	143	143	143	143	143	143	143
Farm price	US\$/t	178	162	169	220	282	370	317	280

^a August-July marketing year, rough basis unless otherwise specified. ^b Milled basis. ^c Includes imports.

Sources: US Department of Agriculture, *Rice Outlook*, Washington DC; US Department of Agriculture, *Rice Situation and Outlook Report*, Washington DC; US Department of Agriculture, *World Grain Situation and Outlook: Foreign Agriculture Circular*, Washington DC; ABARES.

187 Rice export price quotations, by country a

	Thailand Nominal price quote-US b US\$/t	Arkansas c US\$/t	California d US\$/t
1985-86	191.13	355.77	345.46
1986-87	189.66	259.68	286.41
1987-88	272.63	441.47	371.11
1988-89	292.44	344.65	368.26
1989-90	292.06	354.85	357.51
1990-91	296.09	344.84	354.67
1991-92	287.30	368.17	396.09
1992-93	244.25	312.04	395.17
1993-94	293.98	442.48	486.35
1994-95	289.76	317.91	391.51
1995-96	362.42	420.07	464.80
1996-97	337.83	458.22	432.27
1997-98	302.25	419.83	412.52
1998-99	283.75	373.83	483.96
1999-00	230.58	283.06	474.55
2000-01	184.17	280.28	338.09
2001-02	191.67	220.16	293.60
2002-03	199.42	221.83	326.83
2003-04	220.33	359.83	532.83
2004-05	278.33	312.17	404.42
2005-06	301.42	334.00	484.17
2006-07	320.17	407.42	537.83
2007-08	551.25	620.50	693.83
2008-09	608.50	610.30	1 118.67
2009-10	531.92	506.15	790.94
2010-11	518.17	524.02	839.60
2010			
January	596.00	547.00	772.00
February	576.00	562.00	772.00
March	538.00	509.00	732.00
April	502.00	486.39	727.52
May	478.00	466.00	719.26
June	463.00	450.57	738.55
July	465.00	427.15	728.00
August	472.00	413.37	722.01
September	494.00	449.74	740.75
October	501.00	540.13	793.66
November	534.00	584.22	851.53
December	550.00	595.25	870.82
2011			
January	534.00	578.71	870.82
February	538.00	540.13	870.82
March	509.00	509.27	870.82
April	500.00	497.42	871.00
May	498.00	501.55	871.00
June	531.00	521.76	871.00

a Key prices from major markets (August–July years) that are used as world indicators. b Thai white rice, 100 per cent 2nd grade, fob Bangkok, nominal price quote, USDA. c US no. 2 long grain milled. d US no.1 medium grain milled.

Sources: US Department of Agriculture, *Rice Market News*, Little Rock, Arkansas; US Department of Agriculture, *Rice Outlook*; (<http://www.ers.usda.gov>); ABARES.

188 Rice supply and disposal in major exporting countries a

	Area harvested million ha	Yield t/ha	Production b Mt	Domestic use Mt	Exports c Mt	Closing stocks d Mt
China						
2005-06	28.85	4.38	126.41	128.40	0.66	34.94
2006-07	28.94	4.40	127.20	127.50	1.21	33.82
2007-08	28.92	4.50	130.20	127.70	1.31	35.64
2008-09	29.25	4.59	134.33	132.75	0.94	36.81
2009-10	29.70	4.60	136.57	133.70	0.76	39.43
2010-11	29.82	4.60	137.06	134.80	0.60	41.89
Vietnam						
2005-06	7.31	3.11	22.77	18.40	5.20	1.25
2006-07	7.20	3.18	22.90	18.80	4.75	1.28
2007-08	7.41	3.29	24.37	19.41	4.51	1.87
2008-09	7.33	3.33	24.39	18.90	4.65	1.81
2009-10	7.40	3.38	25.00	19.20	5.99	1.34
2010-11	7.58	3.42	25.90	19.50	6.67	1.41
Pakistan						
2005-06	2.62	2.12	5.55	1.87	3.48	0.23
2006-07	2.58	2.12	5.45	2.21	3.66	0.62
2007-08	2.55	2.24	5.70	2.75	2.72	0.55
2008-09	2.90	2.37	6.88	3.44	3.05	0.90
2009-10	2.83	2.41	6.80	2.80	3.21	0.87
2010-11	2.15	2.21	4.75	2.47	4.20	0.42
Thailand						
2005-06	10.22	1.78	18.20	9.54	7.30	3.50
2006-07	10.27	1.78	18.25	9.80	7.42	2.41
2007-08	10.63	1.85	19.64	9.65	9.56	2.26
2008-09	10.80	1.85	19.97	9.59	10.17	4.31
2009-10	10.90	1.86	20.30	10.10	8.62	5.90
2010-11	10.70	1.90	20.36	10.35	8.88	5.71
United States						
2005-06	1.36	5.22	7.10	3.83	3.86	1.37
2006-07	1.14	5.49	6.27	4.10	3.31	1.27
2007-08	1.11	5.65	6.29	4.04	3.03	0.94
2008-09	1.20	5.44	6.55	4.08	3.30	0.98
2009-10	1.26	5.68	7.13	4.02	2.95	1.19
2010-11	1.46	5.16	7.55	4.36	3.85	1.48
World						
2005-06	153.63	2.72	418.06	414.64	29.74	76.15
2006-07	154.42	2.72	419.79	419.30	28.98	76.63
2007-08	154.99	2.79	432.35	428.72	31.83	80.27
2008-09	157.32	2.84	447.36	436.01	29.34	91.61
2009-10	155.25	2.83	440.01	436.85	29.22	94.76
2010-11	157.06	2.87	450.97	448.31	31.41	97.42

a Simple aggregation of different crop years. The marketing period in each country is: United States, August–July; Thailand, January–October; China, July–June; Pakistan, November–October; Vietnam, January–December. b Milled basis. c Calendar year basis: 1999–2000 = 2000; excludes intra-EU trade. d Closing stocks are based on an aggregate of different local marketing years and should not be taken as representing world stock levels at a particular point in time.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *World Grain Situation and Outlook: Foreign Agriculture Circular*, Washington DC; US Department of Agriculture, *World Agricultural Production*, Washington DC; International Grains Council; ABARES.

189 Summary of Australian statistics for sugar

	Area harvested '000 ha	Cane crushed kt	Sugar production ^a kt	No. 1 pool price \$/t	Exports kt
1965-66	204	14 382	1 924	85.7	na
1966-67	226	16 953	2 307	76.0	na
1967-68	224	17 025	2 300	83.1	na
1968-69	230	18 708	2 684	88.2	na
1969-70	213	15 784	2 146	100.3	na
1970-71	221	17 645	2 448	102.8	na
1971-72	234	19 391	2 708	111.8	na
1972-73	242	18 928	2 732	118.7	na
1973-74	226	19 278	2 449	129.9	na
1974-75	253	20 418	2 761	252.7	na
1975-76	257	21 959	2 769	232.2	na
1976-77	288	23 344	3 194	214.1	na
1977-78	295	23 493	3 240	196.4	na
1978-79	252	21 457	2 812	213.2	na
1979-80	267	21 151	2 871	281.7	na
1980-81	288	23 976	3 227	376.0	na
1981-82	316	25 094	3 329	275.0	na
1982-83	318	24 817	3 428	223.0	na
1983-84	307	24 190	3 073	259.0	na
1984-85	313	25 512	3 439	226.0	na
1985-86	304	24 414	3 275	223.3	na
1986-87	310	25 413	3 268	275.0	na
1987-88	317	25 669	3 334	287.0	na
1988-89	313	28 073	3 566	333.0	2 824
1989-90	332	27 622	3 681	370.0	2 799
1990-91	339	25 200	3 407	341.0	2 649
1991-92	341	21 367	3 016	303.4	2 276
1992-93	339	29 461	4 133	301.0	3 127
1993-94	340	32 008	4 234	345.0	3 415
1994-95	365	34 943	4 931	382.0	4 111
1995-96	377	35 889	4 837	371.0	3 979
1996-97	390	38 633	5 301	335.0	4 309
1997-98	415	39 531	5 567	335.0	4 670
1998-99	402	38 534	4 998	352.0	4 098
1999-00	428	38 165	5 448	255.0	4 131
2000-01	403	28 117	4 162	253.0	3 087
2001-02	426	31 424	4 987	331.6	3 644
2002-03	448	36 995	5 398	276.7	4 167
2003-04	448	36 993	5 045	231.9	4 060
2004-05	434	37 822	5 234	255.8	4 271
2005-06	398	37 128	5 063	322.2	4 067
2006-07	409	36 397	5 026	368.0	3 719
2007-08	381	32 621	4 763	275.8	3 493
2008-09	391	31 457	4 634	333.6	3 268
2009-10	389	31 235	4 472	510.9	3 506
2010-11	334	27 443	3 610	444.0	2 514

^a Raw tonnes actual.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; Australian Sugar Milling Council, *Annual Review*, Brisbane; Queensland Sugar Limited, *Annual Report*, Brisbane; Rural Press Ltd, *Australian Sugar Year Book*, Brisbane; ABARES.

190 Australian cane and sugar production

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Area harvested for crushing	'000 ha	434	398	409	381	391	389	334
Cane yield	t/ha harvested	87.1	93.3	89.0	85.6	80.5	80.3	82.2
Cane crushed	kt	37 822	37 128	36 397	32 621	31 457	31 235	27 443
Commercial cane sugar	%	13.90	13.39	13.70	13.80	13.82	13.84	13.85
Sugar production ^a	kt	5 234	5 063	5 026	4 763	4 634	4 472	3 610
Sugar yield	t/ha harvested	12.1	12.7	12.3	12.5	11.9	11.5	10.8
Cane to sugar ratio		7.23	7.33	7.24	6.85	6.79	6.98	7.60
Gross value of sugar cane cut for crushing	\$m	980	1 032	1 221	861	1 021	1 382	1 128

^a Raw tonnes actual.

Sources: ABS, *Value of Agricultural Commodities Produced, Australia*, cat. no. 7503.0, Canberra; Australian Sugar Milling Council, *Annual Review*, Brisbane; Rural Press Ltd, *Australian Sugar Year Book*, Brisbane; ABARES.

191 Volume of Australian exports of sugar, by destination

	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 kt	2008-09 kt	2009-10 kt	2010-11 p kt
Raw sugar in bulk								
Canada	381.2	332.9	110.0	50.0	0.0	26.0	0.0	0.0
China	99.8	179.0	192.9	59.8	43.0	0.0	0.0	48.0
Chinese Taipei	133.6	279.0	306.0	238.0	209.8	74.0	147.1	108.0
Indonesia	152.3	362.2	529.8	536.9	758.5	592.8	749.0	578.0
Iran	0.0	0.0	227.5	0.0	0.0	0.0	0.0	0.0
Japan	518.1	434.7	493.2	610.5	480.0	440.0	366.0	316.0
Korea, Rep. of	980.3	1 003.5	1 066.5	1 004.5	1 038.3	1 043.0	1 200.9	713.0
Malaysia	1 015.6	1 026.9	469.0	520.0	402.5	532.0	548.5	341.0
New Zealand	220.4	243.6	192.2	220.6	218.4	222.5	192.8	156.0
Philippines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	219.5	132.0	132.0	132.0	0.0	0.0	0.0	0.0
United States	108.3	83.5	126.7	130.0	86.1	106.5	104.3	106.0
Other countries	102.2	76.1	50.1	17.8	35.2	26.0	0.0	0.0
Total	3 931	4 153	3 896	3 520	3 272	3 063	3 298	2 366
Raw sugar in bags	7.0	3.7	1.9	2.4	2.1	6.4	6.9	12.9
Refined sugar	121.6	113.7	169.5	196.1	219.0	198.3	201.5	245.2
Total	4 060	4 271	4 067	3 719	3 493	3 268	3 506	2 624
(value, \$m)	982	1 098	1 454	1 510	1 006	1 338	1 887	1 376

p Preliminary.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Queensland Sugar Limited, *Annual Report*, Brisbane; ABARES.

192 World sugar supplies, consumption, trade and prices ^a

	Production	Total supply	Consumption	Closing stocks	Ratio ^b	Trade ^c	World price ^d	
							US	Australian
	Mt	Mt	Mt	Mt	%	Mt	terms US\$/lb	terms ^e A\$/t
1967-68	97.9	87.0	na	na	na	na	na	na
1968-69	68.4	89.0	na	na	na	na	na	na
1969-70	74.2	93.8	na	na	na	na	na	na
1970-71	71.0	92.0	72.8	18.8	(25.8)	na	3.3	84.7
1971-72	72.2	91.0	74.3	16.9	(22.7)	na	6.2	115.7
1972-73	75.6	92.5	76.4	16.4	(21.5)	na	8.7	143.1
1973-74	78.5	94.9	78.3	16.2	(20.7)	na	18.5	274.6
1974-75	78.0	94.2	75.9	17.7	(23.3)	na	30.3	499.5
1975-76	81.1	98.8	78.5	20.6	(26.2)	na	13.6	239.7
1976-77	86.7	107.3	81.3	25.1	(30.9)	na	8.3	162.0
1977-78	91.2	116.3	85.2	30.5	(35.8)	na	7.5	146.1
1978-79	91.0	121.5	89.3	31.7	(35.5)	na	8.2	159.9
1979-80	85.1	116.8	90.1	25.9	(28.7)	na	21.0	412.5
1980-81	88.7	114.6	89.8	25.6	(28.5)	28.6	22.7	433.5
1981-82	100.9	126.5	92.2	33.3	(36.1)	31.6	9.9	205.5
1982-83	100.6	133.9	94.4	38.7	(41.0)	29.6	7.9	190.5
1983-84	98.0	136.7	96.3	39.5	(41.0)	29.6	6.3	155.1
1984-85	100.4	139.9	98.0	42.0	(42.9)	29.2	3.8	112.9
1985-86	98.6	140.6	100.0	39.0	(39.0)	28.8	5.9	193.2
1986-87	104.2	143.2	105.9	35.8	(33.8)	28.7	6.3	203.8
1987-88	104.7	140.5	107.2	33.4	(31.1)	27.9	9.4	275.8
1988-89	104.6	138.0	107.0	31.1	(29.0)	35.2	11.9	326.5
1989-90	109.1	140.2	109.5	30.6	(28.0)	34.7	13.7	386.7
1990-91	115.7	146.3	110.4	35.0	(31.8)	34.4	9.2	261.5
1991-92	116.9	151.9	111.0	40.0	(36.0)	32.2	9.2	268.2
1992-93	112.7	152.7	111.9	39.8	(35.6)	32.6	9.6	306.7
1993-94	111.4	151.2	112.2	37.6	(33.5)	34.1	11.2	351.1
1994-95	116.1	153.7	114.7	38.2	(33.3)	35.5	13.7	408.9
1995-96	125.7	163.9	119.2	40.4	(33.9)	36.1	12.3	351.9
1996-97	123.7	164.1	122.1	41.9	(34.3)	35.6	11.3	319.2
1997-98	127.8	169.7	125.1	44.7	(35.7)	36.9	9.9	339.6
1998-99	135.3	180.0	125.6	54.3	(43.3)	39.3	6.6	228.5
1999-00	131.7	186.0	127.4	58.7	(46.0)	37.1	7.2	260.8
2000-01	130.7	189.4	131.1	58.6	(44.5)	44.2	9.3	393.3
2001-02	137.3	195.6	135.6	56.9	(44.2)	48.1	6.8	281.8
2002-03	148.3	208.3	140.8	49.4	(46.9)	43.7	7.5	270.4
2003-04	142.2	209.1	144.5	63.8	(44.7)	45.0	6.6	201.4
2004-05	140.3	209.0	146.9	58.0	(41.6)	48.1	9.0	258.8
2005-06	150.4	220.7	152.6	55.5	(40.2)	48.1	14.7	439.2
2006-07	166.3	222.6	156.9	65.0	(38.3)	48.9	10.4	284.8
2007-08	166.3	225.4	159.7	71.4	(37.0)	47.9	12.4	333.7
2008-09	150.6	228.7	161.0	61.3	(36.0)	47.9	15.4	458.1
2009-10	158.8	219.7	163.8	56.4	(34.4)	52.9	20.4	498.8
2010-11	165.2	221.2	166.1	57.3	(35.2)	51.8	26.5	571.5

^a Raw sugar equivalent; October–September year. ^b Figures in parentheses show closing stocks as a percentage of consumption. ^c Trade is defined as world gross exports including those exports made under special arrangements, such as between Comecon countries and through the Lomé Convention. Individual countries of the former Soviet Union are treated as separate trading entities from 1983–84. ^d Average of monthly averages of International Sugar Agreement (ISA) price; fob and stowed Caribbean ports basis, in bulk. ^e Australian currency equivalents of ISA price. **na** Not available.

Sources: International Sugar Organization, *Statistical Bulletin*, London; F.O. Licht, *International Sugar and Sweetener Report*, World Sugar Balances, Ratzeburg, Germany; F.O. Licht, *International Sugar and Sweetener Report*, Ratzeburg, Germany; ABARES.

193 World sugar production, by region and country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Europe	27.12	29.84	29.22	28.01	25.19	25.03	26.59	24.52
Eastern Europe	4.79	5.67	6.16	7.71	6.83	6.81	6.26	6.02
Russian Federation	2.19	2.63	2.83	3.52	3.42	3.78	3.46	2.94
Ukraine	1.68	1.95	2.06	2.70	2.03	1.70	1.38	1.73
Other	0.92	1.09	1.28	1.50	1.39	1.33	1.43	1.36
Western Europe	20.26	24.17	23.05	20.29	18.36	18.21	20.32	18.41
European Union ^b	16.83	21.87	20.52	18.14	16.26	15.60	17.29	15.73
Turkey	1.98	2.03	2.23	1.96	1.84	2.35	2.75	2.46
Other	1.46	0.28	0.30	0.20	0.26	0.27	0.28	0.22
Africa	9.44	9.11	9.17	9.40	9.10	9.33	7.90	8.45
Mauritius	0.55	0.55	0.54	0.47	0.45	0.51	0.50	0.47
South Africa	2.30	2.46	2.25	2.54	2.39	2.34	2.13	2.05
Other	6.59	6.10	6.37	6.39	6.26	6.48	5.27	5.93
Americas	55.00	54.95	58.43	59.79	58.92	62.12	67.51	65.52
Brazil	25.92	27.62	32.19	32.33	31.44	35.75	40.88	38.59
Colombia	2.72	2.73	2.42	2.34	2.16	2.37	2.26	2.42
Cuba	2.50	1.42	1.24	1.19	1.45	1.38	1.25	1.45
Guatemala	2.00	2.10	1.91	2.28	2.16	2.33	2.51	2.23
Mexico	5.36	6.00	5.50	5.55	5.75	5.17	5.16	5.50
United States	7.85	7.20	6.71	7.67	7.39	6.60	7.23	7.10
Other	8.67	7.88	8.45	8.43	8.58	8.53	8.22	8.25
Asia	45.30	41.49	47.97	63.93	67.94	48.62	53.14	62.69
China	10.78	9.95	9.59	13.04	16.13	13.59	11.65	11.48
India	14.70	13.77	20.94	30.10	28.88	15.29	20.56	26.00
Indonesia	2.01	2.30	2.45	2.84	2.85	2.85	2.48	2.54
Pakistan	4.30	3.31	3.21	3.88	5.10	3.50	3.35	4.40
Philippines	2.41	2.24	2.23	2.31	2.55	2.06	2.08	2.45
Thailand	6.94	5.43	5.08	7.01	8.06	7.48	7.13	10.06
Other	4.17	4.50	4.48	4.76	4.38	3.86	5.90	5.77
Oceania	6.19	4.92	5.62	5.17	5.13	5.55	3.71	4.01
Australia	5.81	4.51	5.29	4.83	4.83	5.31	3.50	3.80
Fiji	0.32	0.37	0.29	0.31	0.26	0.20	0.17	0.17
Other	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04
Total	142.20	140.32	150.40	166.30	166.28	150.64	158.84	165.18

^a Raw sugar equivalent, October-September year. ^b Regarded as 27 countries.

Source: International Sugar Organization, *Quarterly Market Outlook*, London

194 Volume of world sugar trade, by country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Australia	3.85	4.30	3.87	3.82	3.34	3.34	4.01	2.48
Brazil	15.98	19.15	16.87	21.53	18.85	23.98	27.42	27.07
China	0.04	0.32	0.20	0.12	0.06	0.08	0.09	0.08
Colombia	1.26	1.17	0.89	0.95	0.63	0.67	1.02	0.85
Cuba	1.94	0.77	0.73	0.80	0.88	0.78	0.55	0.53
Dominican Republic	0.18	0.18	0.19	0.21	0.17	0.19	0.25	0.29
European Union ^b	8.04	9.47	12.54	6.21	6.91	6.59	8.58	6.86
Fiji	0.26	0.32	0.27	0.24	0.23	0.21	0.10	0.14
Guatemala	1.51	1.10	1.55	1.32	1.19	1.47	1.90	1.48
Guyana	0.32	0.26	0.24	0.24	0.22	0.22	0.21	0.24
India	0.49	0.08	1.46	2.66	6.10	0.23	0.23	2.30
Korea, Rep. of	0.35	0.32	0.32	0.40	0.33	0.31	0.37	0.40
Mauritius	0.59	0.57	0.54	0.45	0.46	0.47	0.40	0.53
Mexico	0.10	0.28	0.87	0.18	0.70	1.26	0.75	1.56
South Africa	0.97	1.05	1.14	0.69	0.93	0.89	0.57	0.28
Swaziland	0.56	0.70	0.63	0.62	0.62	0.61	0.58	0.61
Thailand	5.11	3.39	2.13	4.56	4.93	4.99	5.64	6.31
Ukraine	0.31	0.05	0.03	0.01	0.00	0.04	0.00	0.02
United States	0.13	0.21	0.20	0.38	0.28	0.15	0.26	0.38
Other countries	9.86	10.07	11.15	11.01	9.72	10.13	10.22	9.60
Total ^c	52.35	53.78	55.82	56.39	56.55	56.60	63.17	61.97
Imports								
Algeria	1.04	1.13	1.13	1.11	1.10	1.18	1.38	1.36
Canada	1.41	1.35	1.24	1.19	1.42	1.28	1.09	1.30
China	1.20	1.32	1.20	1.43	0.95	1.05	1.49	2.10
Egypt	1.18	1.21	1.03	0.82	1.17	1.03	1.13	1.09
European Union ^b	7.52	7.50	9.54	7.99	8.27	9.13	9.58	9.82
Indonesia	2.31	1.86	1.64	2.78	1.90	2.39	3.14	2.86
Iran	0.61	0.59	1.45	1.75	0.80	0.97	1.64	1.40
Israel	0.62	0.61	0.64	0.64	0.67	0.60	0.55	0.61
Japan	1.43	1.33	1.39	1.41	1.44	1.28	1.20	1.33
Korea, Rep. of	1.62	1.61	1.55	1.49	1.60	1.65	1.63	1.68
Malaysia	1.52	1.47	1.38	1.75	1.41	1.50	1.67	1.78
Morocco	0.59	0.63	0.66	0.72	0.75	0.99	0.76	0.79
Nigeria	1.36	1.40	1.38	1.26	1.47	1.38	1.40	1.38
Pakistan	0.07	0.85	1.98	0.65	0.20	0.29	0.83	0.85
Russian Federation	4.14	3.80	3.37	3.20	2.80	1.86	2.03	2.38
Saudi Arabia	1.13	1.24	1.26	1.29	1.60	1.42	1.38	1.42
Syria	1.16	1.12	1.09	0.95	0.88	1.07	1.16	1.18
Ukraine	0.55	0.35	0.07	0.02	0.08	0.08	0.35	0.40
United States	1.54	1.82	3.17	1.94	2.38	2.79	3.00	3.35
Other countries	16.75	19.68	18.85	18.89	19.81	21.13	25.50	20.27
Total ^c	49.28	50.85	54.03	51.26	50.71	53.07	60.90	57.34

^a Includes both raw and white sugar measured in raw sugar equivalents, October–September year. ^b 27 countries; includes intra-EU trade. ^c Totals for exports and imports may not be equal as a result of losses in transit, sugar being at sea at the end of each year, and discrepancies in the official statistics of individual countries.

Sources: F.O. Licht, *International Sugar and Sweetener Report*, *World Sugar Balances*, Ratzeburg, Germany.

195 Average rainfall for principal Australian cropping districts a

	1913-2010	1931-40	1941-50	1951-60	1961-70	1971-80	1981-90	1991-90	2001-10
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Queensland									
Central Highlands (35)	51	46	52	59	46	54	53	48	51
Maranoa (43)	46	41	50	51	42	47	51	48	47
West Darling Downs (42)	47	46	48	52	45	47	52	47	47
East Darling Downs (41)	57	57	63	61	56	59	63	54	52
Moreton South Coast (40)	93	95	100	99	89	97	97	80	74
New South Wales									
North West Plains (W) (52)	43	38	47	47	44	44	40	49	46
North West Plains (E) (53)	50	44	51	51	49	50	50	53	52
North West Slopes (N) (54)	57	52	58	59	55	59	55	61	57
North West Slopes (S) (55)	55	51	57	58	56	56	57	59	56
Northern Tablelands (N) (56)	67	65	73	69	65	70	66	68	67
Central West Plains (S) (50)	39	37	39	43	39	44	38	43	38
Central West Plains (N) (51)	40	36	43	44	37	43	38	44	41
Central West Slopes (N) (64)	53	48	56	57	51	56	52	58	52
Central West Slopes (S) (65)	50	46	53	55	49	52	48	53	48
Central Tablelands (N) (62)	54	50	60	57	52	53	52	58	56
Central Tablelands (S) (63)	73	69	77	83	75	78	79	70	62
Riverina (W) (75)	30	29	27	34	29	34	29	33	29
Riverina (E) (74)	39	40	36	45	37	41	37	41	36
South West Slopes (N) (73)	50	50	53	56	49	48	47	53	47
South West Slopes (S) (72)	68	67	61	79	63	69	70	78	65
Southern Tablelands (GM)(70)	55	55	58	62	51	55	51	56	53
Victoria									
North Mallee (76)	26	23	24	28	25	30	25	28	26
South Mallee (77)	29	27	27	33	28	34	29	31	29
North Wimmera (78)	34	33	35	38	31	37	32	34	31
South Wimmera (79)	42	39	41	45	37	46	42	44	42
Lower North (80)	35	35	32	41	33	40	34	36	33
Upper North (81)	43	42	40	48	39	48	42	45	40
Lower North East (82)	66	65	59	72	59	67	69	78	69
Upper North East (83)	90	89	89	106	81	91	92	91	77
North Central (88)	60	57	57	68	56	66	64	62	55
Central Western (89)	52	51	54	59	48	54	50	52	51

Continued

195 **Average rainfall for principal Australian cropping districts a** *continued*

	1913-2010	1931-40	1941-50	1951-60	1961-70	1971-80	1981-90	1991-90	2001-10
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Western Australia									
North Coast (8)	32	32	31	32	33	28	32	33	26
Central Coast (9)	67	72	73	69	70	60	63	62	48
Northern Central (10)	29	29	30	30	31	25	28	31	25
South Coast (9A)	72	75	80	75	75	68	67	66	57
South Central (10A)	35	37	36	37	36	32	32	34	31
South East (12)	22	18	19	22	22	23	23	29	22
South Australia									
Upper South East (25B)	35	34	37	38	33	37	33	34	34
Murray Mallee (25A)	25	24	27	26	24	27	23	27	25
Murray River (24)	27	26	28	28	25	30	26	29	27
East Central (23)	48	48	50	52	45	51	47	48	44
West Central (22)	35	35	37	36	33	35	32	37	37
Lower North (21)	36	34	37	38	32	40	34	37	32
Upper North (19)	27	25	27	29	25	34	29	29	23
Western (18)	27	28	28	30	27	31	27	27	24
Victoria									
North Mallee (76)	82	83	82	90	71	85	72	82	90
South Mallee (77)	45	46	45	51	39	45	41	45	48

a Average rainfall is the simple arithmetic average of rainfall over the period
Source: Bureau of Meteorology monthly district rainfall reports (various issues).

196 Agriculture water use, Australia

	Unit	New South Wales ^a	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Agricultural businesses									
2005-06	no.	48 937	37 146	32 212	16 455	14 526	4 745	659	154 680
2006-07	no.	47 869	37 429	30 650	15 835	13 608	4 783	643	150 817
2007-08	no.	44 521	34 177	29 121	14 996	13 084	4 200	605	140 704
2008-09	no.	43 212	32 973	28 142	14 454	12 658	4 000	558	135 997
2009-10	no.	43 228	32 741	27 578	14 097	12 465	3 935	510	134 554
Water use									
Irrigation									
2005-06	GL	4 534	2 448	2 325	897	306	204	22	10 737
2006-07	GL	2 605	1 649	1 840	966	293	263	20	7 636
2007-08	GL	1 677	1 332	1 843	880	285	252	16 ^b	6 285
2008-09	GL	1 910	1 195	2 058	827	226	262	22	6 501
2009-10	GL	2 003	1 505	1 824	712	252	282	19	6 596
Other agricultural uses									
2005-06	GL	262	193	256	78	121	26	15	951
2006-07	GL	240	174	244	69	119	25	14	885
2007-08	GL	179	139	196	54	85	19	33 ^b	704
2008-09	GL	198	139	237	74	92	23	21	785
2009-10	GL	202	139	213	60	88	23	36	763
Total water use									
2005-06	GL	4 796	2 641	2 581	976	428	230	38	11 689
2006-07	GL	2 845	1 823	2 084	1 035	412	288	34	8 521
2007-08	GL	1 856	1 471	2 039	934	370	271	49 ^b	6 989
2008-09	GL	2 108	1 334	2 296	902	318	285	43	7 286
2009-10	GL	2 205	1 644	2 037	772	340	305	55	7 359

Continued

196 Agriculture water use, Australia *continued*

		Murray–Darling Basin					Non Murray–Darling Basin
		New South Wales ^a	Victoria	Queensland	South Australia	Total	Total
Agricultural businesses							
2005-06	no.	29 902	18 496	7 881	4 753	61 032	93 648
2006-07	no.	28 967	18 934	7 535	4 429	59 865	90 952
2007-08	no.	27 438	17 408	7 472	4 269	56 587	84 117
2008-09	no.	26 488	16 729	6 924	3 957	54 098	81 899
2009-10	no.	26 529	16 627	6 730	3 795	53 681	80 872
Water use							
Irrigation							
2005-06	GL	4 294	2 055	612	408	7 370	3 368
2006-07	GL	2 385	1 381	302	391	4 458	3 178
2007-08	GL	1 484	938	406	314	3 142	3 143
2008-09	GL	1 735	797	665	295	3 492	3 008
2009-10	GL	1 820	1 042	414	288	3 564	3 032
Other agricultural uses							
2005-06	GL	na	na	na	na	na	na
2006-07	GL	na	na	na	na	na	na
2007-08	GL	na	na	na	na	na	na
2008-09	GL	143	54	46	18	260	525
2009-10	GL	na	na	na	na	272	490
Total water use							
2005-06	GL	na	na	na	na	na	na
2006-07	GL	na	na	na	na	na	na
2007-08	GL	na	na	na	na	na	na
2008-09	GL	1 878	851	711	313	3 753	3 533
2009-10	GL	na	na	na	na	3 837	3 522

^a Includes ACT. ^b Estimate has a relative standard error of 10 per cent to less than 25 per cent and should be used with caution. **na** Not available.

Source: ABS, *Water Use on Australian Farms, Australia*, cat. no. 4618.0, Canberra.

197 Irrigation activity, Australia

	Unit	South Wales ^a	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Agricultural businesses irrigating									
2005-06	no.	11 604	11 621	9 861	6 298	3 173	1 919	351	44 827
2006-07	no.	10 689	10 557	8 757	6 447	2 935	2 060	342	41 787
2007-08	no.	8 974	10 309	9 047	6 114	2 720	2 185	288	39 637
2008-09	no.	10 128	10 080	8 805	5 821	2 865	1 962	278	39 939
2009-10	no.	10 070	10 579	9 402	5 624	2 881	2 027	234	40 817
Area under pasture or crop									
2005-06	'000 ha	62 164	12 314	145 519	55 408	98 653	1 739	59 127	434 925
2006-07	'000 ha	58 661	13 250	143 871	50 065	96 742	1 659	61 202	425 449
2007-08	'000 ha	58 154	12 536	141 058	47 076	93 035	1 541	63 888	417 288
2008-09 ^b	'000 ha	57 309	12 091	141 210	49 126	93 646	1 630	54 016	409 029
2009-10 ^b	'000 ha	58 588	12 852	129 668	45 747	94 391	1 647	55 687	398 580
Area irrigated									
2005-06	'000 ha	994	648	539	217	60	81	7	2 546
2006-07	'000 ha	680	438	458	201	53	87	6	1 923
2007-08	'000 ha	525	428	513	226	63	92	5 ^c	1 851
2008-09	'000 ha	504	371	548	196	48	88	6	1 761
2009-10	'000 ha	550	440	503	186	51	105	5	1 840
Volume applied									
2005-06	GL	4 534	2 448	2 325	897	306	204	22	10 737
2006-07	GL	2 605	1 649	1 840	966	293	263	20	7 636
2007-08	GL	1 677	1 332	1 843	880	285	252	16 ^c	6 285
2008-09	GL	1 910	1 195	2 058	827	226	262	22	6 501
2009-10	GL	2 003	1 505	1 824	712	252	282	19	6 596
Average application rate									
2005-06	ML/ha	4.6	3.8	4.3	4.1	5.1	2.5	3.1	4.2
2006-07	ML/ha	3.8	3.8	4.0	4.8	5.5	3.0	3.2	4.0
2007-08	ML/ha	3.2	3.1	3.6	3.9	4.5	2.8	3.2	3.4
2008-09	ML/ha	3.8	3.2	3.8	4.2	4.7	3.0	3.6	3.7
2009-10	ML/ha	3.6	3.4	3.6	3.8	5.0	2.7	3.7	3.6

Continued

197 Irrigation activity, Australia *continued*

		Murray-Darling Basin d	Non Murray-Darling Basin d
Agricultural businesses irrigating			
2005-06	no.	18 634	26 192
2006-07	no.	17 062	24 725
2007-08	no.	15 479	24 158
2008-09	no.	15 077	24 863
2009-10	no.	15 120	25 696
Area under pasture or crop			
2005-06	'000 ha	88 828	346 097
2006-07	'000 ha	97 160	328 289
2007-08	'000 ha	95 562	321 726
2008-09	'000 ha	96 041 b	312 988 b
2009-10	'000 ha	95 195 b	303 385 b
Area irrigated			
2005-06	'000 ha	1 654	893
2006-07	'000 ha	1 101	822
2007-08	'000 ha	958	893
2008-09	'000 ha	929	832
2009-10	'000 ha	976	865
Volume applied			
2005-06	GL	7 370	3 368
2006-07	GL	4 458	3 178
2007-08	GL	3 142	3 143
2008-09	GL	3 492	3 008
2009-10	GL	3 564	3 032
Average application rate			
2005-06	ML/ha	4.5	3.8
2006-07	ML/ha	4.0	3.9
2007-08	ML/ha	3.3	3.5
2008-09	ML/ha	3.8	3.6
2009-10	ML/ha	3.7	3.5

a Includes ACT. **b** Total includes area of agricultural land. **c** Estimate has a relative standard error of 10 per cent to less than 25 per cent and should be used with caution. **d** Based on Natural Resource Management (NRM) regions. .

Source: ABS, *Water Use on Australian Farms, Australia*, cat. no. 4618.0, Canberra.

198 Sources of agricultural water, Australia

	Unit	New South Wales ^a	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Water supplied by irrigation schemes									
2005-06	GL	na	na	na	na	na	na	na	na
2006-07	GL	1 073.1	1 051.6	757.4	221.8	133.5	na	na	3 237.4
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	588.3	755.5	949.2	182.4	90.2 b	39.1 b	0.3 c	2 604.9
2009-10	GL	765.7	978.1	825.2	174.9	107.1 b	51.9 b	0.5 c	2 903.4
Surface water									
2005-06	GL	na	na	na	na	na	na	na	na
2006-07	GL	677.4	338.5	682.2	183.8	138.8	225.4	10.8	2 256.9
2007-08	GL	na	na	na	na	na	na	na	na
2008-09 d	GL	602.5	231.8	714.0	129.8 b	83.2	207.0	7.9	1 976.1
2009-10 d	GL	607.1	227.1	621.5	100.4 b	80.2	217.5	17.0	1 870.8
Groundwater									
2005-06	GL	810.1	297.1	673.6	459.3	112.0	14.8	24.9	2 391.8
2006-07	GL	1 027.3	337.1 b	607.6	592.7	131.0	22.5 b	22.0	2 740.0
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	851.3	297.0	577.2	559.4	137.7	32.9 b	34.8	2 490.3
2009-10	GL	761.0	349.9	537.7	463.0	146.2	30.1 b	37.1	1 870.8
Town or country reticulated mains supply									
2005-06	GL	23.7	30.0	8.1	45.2	15.0	3.5	0.2 b	125.7
2006-07	GL	10.9 b	9.8 b	2.4 b	18.8 c	2.9 b	na	na	44.8
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	16.7 b	16.4 b	2.3 b	15.9 b	4.8	2.5 b	0.0 b	58.6
2009-10	GL	14.3 b	13.5 b	2.5 b	21.6 b	2.7	na	na	57.2
Recycled / re-used water from off-farm sources									
2005-06	GL	23.5	40.8	36.8	11.7	0.4	na	na	113.3
2006-07	GL	13.3 b	58.1 b	21.1 b	9.5 b	1.0 c	1.4 c	0.2	104.5
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	33.6 b	26.6 c	34.2 b	12.1 c	0.4	2.9 b	na	109.7
2009-10	GL	45.8 b	68.2 c	29.8 b	9.8 c	0.5	na	na	156.8
Other									
2005-06	GL	17.4	19.0	8.7	11.2	2.5	na	na	58.8
2006-07	GL	43.1 b	28.2 b	13.5 b	8.2 c	4.9	185.0	na	98.1
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	15.8 b	6.6 c	18.9 c	2.1 b	2.1 c	0.5 b	20.0	46.1
2009-10	GL	11.1 b	7.3 c	20.5 c	2.6 b	2.7 c	na	na	45.2
Total all sources									
2005-06	GL	na	na	na	na	na	na	na	na
2006-07	GL	2 845.1	1 823.3	2 084.2	1 034.8	412.0	249.5	33.0	8 481.8
2007-08	GL	na	na	na	na	na	na	na	na
2008-09	GL	2 108.1	1 333.9	2 295.7	901.6	318.4	284.9	43.0	7 285.6
2009-10	GL	2 204.9	1 644.1	2 037.3	772.3	340.3	305.4	54.6	7 358.8

Continued

198 Sources of agricultural water, Australia *continued*

	Unit	Murray-Darling Basin ^d	Non Murray-Darling Basin ^d
Water supplied by irrigation schemes			
2005-06	GL	na	na
2006-07	GL	2 329.5	946.5
2007-08	GL	na	na
2008-09	GL	1 572.8	1 032.2
2009-10	GL	1 829.5	1 073.8
Surface water			
2005-06	GL	na	na
2006-07	GL	994.0	1 262.9
2007-08	GL	na	na
2008-09 ^d	GL	1 032.2	943.9
2009-10 ^d	GL	927.6	943.2
Groundwater			
2005-06	GL	1 068.9	1 323.0
2006-07	GL	1 337.5	1 402.5
2007-08	GL	na	na
2008-09	GL	1 068.9	1 421.4
2009-10	GL	989.2	1 336.2
Town or country reticulated mains supply			
2005-06	GL	59.2	66.5
2006-07	GL	9.5	36.6
2007-08	GL	na	na
2008-09	GL	16.8	41.7
2009-10	GL	13.8	43.4
Recycled / re-used water from off-farm sources			
2005-06	GL	55.6	59.1
2006-07	GL	41.3	63.0
2007-08	GL	na	na
2008-09	GL	40.9	68.8
2009-10	GL	58.1	98.7
Other			
2005-06	GL	37.3	22.7
2006-07	GL	60.3	37.8
2007-08	GL	na	na
2008-09	GL	21.0	25.1
2009-10	GL	18.7	26.5
Total all sources			
2005-06	GL	na	na
2006-07	GL	4 772.2	3 749.2
2007-08	GL	na	na
2008-09	GL	3 752.5	3 533.1
2009-10	GL	3 836.9	3 522

^a Includes ACT. ^b Estimate has a relative standard error of 10 per cent to less than 25 per cent and should be used with caution. ^c Estimate has a relative standard error of 25 per cent to less than 50 per cent and should be used with caution. ^d Based on Natural Resource Management (NRM) regions. **na** Not available.

199 Irrigation expenditure, Australia

	Unit	New South Wales ^a	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Water license and annual irrigation charges									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	74.9	79.9	36.1	25.4	6.9 b	2.1	0.6 b	225.9
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	91.6	88.4	60.8	45.6 b	9.0 b	3.6	0.1 c	299.2
2009-10	\$m	na	na	na	na	na	na	na	na
Purchase of extra water on a temporary basis									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	45.4	51.7 b	8.5 c	14.9 b	na	0.8 b	na	na
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09 ^d	\$m	29.7 b	71.7	3.3 b	41.0	0.1	0.9	0.0	146.7
2009-10 ^d	\$m	na	na	na	na	na	na	na	na
Purchase of extra water on a permanent basis									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	20.3 b	40.7	na	20.7 c	na	na	na	na
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	35.7 b	49.6	10.6	4.7 c	0.6	6.0 b	0.0	107.2
2009-10	\$m	na	na	na	na	na	na	na	na
Other irrigation operating expenses									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	165.0	78.6	103.6	80.5	26.0	21.1	2.8	477.7
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	137.1	74.8	111.4	69.0	23.3	22.1	2.6	440.4
2009-10	\$m	na	na	na	na	na	na	na	na
Purchase of irrigation equipment									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	71.0 b	56.0 b	59.9	50.6 b	26.5 c	19.5	2.8 c	286.4
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	70.7 b	65.0 b	64.1 b	43.2 b	10.6 b	32.9 b	2.1	288.6
2009-10	\$m	na	na	na	na	na	na	na	na
Capital construction of earthworks and structures									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	78.2 c	27.9 b	50.5 b	6.6 b	8.1 b	10.8 b	0.5 b	182.6
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	20.0 b	55.6 c	16.7	5.5 b	2.4 c	10.9 b	0.0	110.9
2009-10	\$m	na	na	na	na	na	na	na	na
Total irrigation expenditure									
2005-06	\$m	na	na	na	na	na	na	na	na
2006-07	\$m	454.9	334.8	na	198.9	na	na	na	na
2007-08	\$m	na	na	na	na	na	na	na	na
2008-09	\$m	384.7	405.2	266.8	209.0	46.0	76.4	4.8	1 393.0
2009-10	\$m	na	na	na	na	na	na	na	na

^a Includes ACT. ^b Estimate has a relative standard error of 10 per cent to less than 25 per cent and should be used with caution. ^c Estimate has a relative standard error of 25 per cent to less than 50 per cent and should be used with caution. ^d Not available.

Source: ABS, *Water Use on Australian Farms, Australia*, cat. no. 4618.0, Canberra.

200 Summary of Australian statistics for wheat a

			Production		Exports b		Domestic	Closing
			Volume c	Unit value	Volume	Unit value e	use fg	stocks gh
	Area cd	Yield	Volume c	Unit value	Volume	Unit value e	use fg	stocks gh
	'000 ha	t/ha	kt	\$/t	kt	\$/t	kt	kt
1971-72	7 137	1.19	8 510	54.4	7 760	50.0	na	2 503
1972-73	7 604	0.87	6 590	54.1	4 137	51.0	na	1 530
1973-74	8 948	1.34	11 987	109.4	7 418	102.0	na	2 934
1974-75	8 307	1.37	11 357	110.6	8 550	132.0	3 031	2 710
1975-76	8 555	1.40	11 982	104.3	8 233	122.0	2 742	3 717
1976-77	8 956	1.30	11 667	90.1	9 763	109.0	2 432	3 189
1977-78	9 955	0.94	9 370	99.8	8 098	93.0	2 629	1 832
1978-79	10 249	1.77	18 090	126.9	11 693	116.0	2 531	5 698
1979-80	11 152	1.45	16 188	153.1	13 197	146.0	3 369	5 320
1980-81	11 283	0.96	10 856	155.1	9 614	164.0	3 466	3 096
1981-82	11 885	1.38	16 360	158.9	11 068	158.0	2 457	5 931
1982-83	11 520	0.77	8 876	176.5	7 280	168.0	4 190	3 337
1983-84	12 800	1.72	22 016	163.8	14 159	172.0	2 641	8 553
1984-85	12 045	1.55	18 665	171.6	14 659	183.0	3 081	9 478
1985-86	11 736	1.39	16 259	165.7	16 331	185.0	2 526	6 880
1986-87	11 135	1.46	16 308	145.9	15 658	147.0	2 825	4 705
1987-88	9 005	1.37	12 368	161.9	9 993	145.0	3 479	3 600
1988-89	8 827	1.59	14 061	209.8	11 427	214.4	2 888	3 346
1989-90	9 004	1.58	14 214	195.2	10 993	213.0	2 416	4 151
1990-91	9 218	1.63	15 066	132.0	12 002	136.5	3 239	3 976
1991-92	7 183	1.47	10 557	200.2	7 136	202.4	4 095	3 303
1992-93	9 101	1.78	16 184	165.9	10 359	206.8	4 186	4 942
1993-94	8 383	1.97	16 479	174.0	13 818	174.7	3 900	3 703
1994-95	7 891	1.14	8 972	237.1	6 351	234.1	3 883	2 441
1995-96	9 221	1.79	16 504	260.8	13 319	286.4	4 111	1 514
1996-97	10 936	2.10	22 924	212.8	19 224	226.9	3 543	1 671
1997-98	10 439	1.84	19 224	197.7	15 725	240.9	4 111	1 058
1998-99	11 543	1.86	21 464	186.9	16 450	203.3	4 449	1 624
1999-00	12 168	2.03	24 758	195.1	17 838	205.4	4 786	3 758
2000-01	12 141	1.82	22 108	232.1	16 142	267.9	4 889	4 835
2001-02	11 529	2.11	24 298	261.6	16 318	277.9	5 020	7 798
2002-03	11 170	0.91	10 132	265.7	9 107	283.1	5 818	3 308
2003-04	13 067	2.00	26 132	215.7	17 868	231.1	5 359	6 217
2004-05	13 399	1.63	21 905	197.1	14 675	213.7	6 028	7 424
2005-06	12 443	2.02	25 150	202.8	15 969	221.6	6 627	9 982
2006-07	11 798	0.92	10 822	242.0	8 685	266.5	7 420	4 705
2007-08	12 578	1.08	13 569	390.0	7 444	450.6	6 517	4 319
2008-09	13 530	1.58	21 420	281.1	14 707	347.8	7 306	3 738
2009-10	13 881	1.57	21 834	218.3	14 791	255.4	4 999	5 798
2010-11	13 645	2.04	27 891	272.9	18 639	314.8	6 089	8 973

a Crop years: up to and including 1981-82: 1 December to 30 November; 1982-83 and subsequent years: 1 October to 30 September. **b** For wheat including flour, in wheat equivalent (conversion 1:1.29). **c** Details for establishments with an estimated value of agricultural operations (EVAO) of \$2500 or more until 1985-86; EVAO of \$5000 or more from 1986-87 to 1988-89; EVAO of \$20 000 or more from 1989-90 to 1990-91; EVAO of \$22 500 or more from 1991-92 to 1992-93; and EVAO of \$5000 or more from 1993-94. **d** Planted area. **e** Export unit value based on financial year exports until 1987-88 and crop year exports thereafter. **f** Calculated as Opening stocks plus imports plus production less exports less closing stocks. Includes wastage. **g** Some ABARES estimates have been revised based on additional industry information. ABARES is continuing to investigate data. **h** Historical data include AWB limited Pool and Trading Division closing stocks.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Value of Principal Agricultural Commodities Produced, Preliminary, 2009-10*, cat. no. 7501.0, Canberra; ABS, *Value of Australian Commodities Produced*, cat. no. 7503.0, Canberra; ABARES.

201 Australian wheat area, yield and production, by state

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia a
Area bc								
1997-98	'000 ha	2 936	857	999	4 205	1 439	3	10 439
1998-99	'000 ha	3 174	949	1 139	4 515	1 762	4	11 543
1999-00	'000 ha	3 425	1 235	1 096	4 556	1 850	6	12 168
2000-01	'000 ha	3 671	1 143	885	4 460	1 976	7	12 141
2001-02	'000 ha	3 446	1 136	604	4 350	1 987	6	11 529
2002-03	'000 ha	2 996	1 239	514	4 458	1 957	7	11 170
2003-04	'000 ha	3 983	1 409	790	4 917	1 960	8	13 067
2004-05	'000 ha	4 256	1 327	711	5 118	1 979	7	13 399
2005-06	'000 ha	3 554	1 315	778	4 753	2 035	8	12 443
2006-07	'000 ha	3 596	1 347	638	4 037	2 173	7	11 798
2007-08	'000 ha	4 009	1 514	669	4 258	2 121	7	12 578
2008-09	'000 ha	4 322	1 534	1 020	4 542	2 104	9	13 530
2009-10	'000 ha	3 983	1 801	962	5 006	2 122	7	13 881
2010-11	'000 ha	3 823	1 821	937	4 698	2 357	9	13 645
Yield								
1997-98	t/ha	2.01	1.75	1.39	1.84	1.87	4.00	1.84
1998-99	t/ha	2.07	1.54	1.70	1.81	1.88	4.38	1.86
1999-00	t/ha	2.51	2.14	1.74	1.98	1.40	3.14	2.03
2000-01	t/ha	2.14	2.69	1.31	1.30	2.11	3.71	1.82
2001-02	t/ha	2.33	2.46	1.49	1.78	2.40	4.17	2.11
2002-03	t/ha	0.83	0.72	1.17	0.91	1.06	3.57	0.91
2003-04	t/ha	1.83	2.23	1.41	2.25	1.78	3.19	2.00
2004-05	t/ha	1.77	1.45	1.65	1.68	1.32	4.29	1.63
2005-06	t/ha	2.26	2.21	1.57	1.91	1.89	4.10	2.02
2006-07	t/ha	0.71	0.65	1.22	1.27	0.67	2.57	0.92
2007-08	t/ha	0.62	1.32	1.43	1.37	1.08	3.86	1.08
2008-09	t/ha	1.61	1.14	1.98	1.82	1.13	3.89	1.58
2009-10	t/ha	1.34	1.66	1.40	1.62	1.89	3.82	1.57
2010-11	t/ha	2.80	2.47	1.71	1.06	2.57	3.78	2.04
Production b								
1997-98	kt	5 906	1 503	1 389	7 725	2 689	12	19 224
1998-99	kt	6 563	1 462	1 941	8 170	3 310	18	21 464
1999-00	kt	8 602	2 642	1 904	9 004	2 586	20	24 758
2000-01	kt	7 867	3 080	1 157	5 814	4 162	26	22 108
2001-02	kt	8 043	2 791	901	7 760	4 778	25	24 298
2002-03	kt	2 497	890	601	4 047	2 072	25	10 132
2003-04	kt	7 288	3 145	1 110	11 070	3 490	26	26 132
2004-05	kt	7 537	1 927	1 170	8 619	2 621	30	21 905
2005-06	kt	8 049	2 909	1 218	9 088	3 853	34	25 150
2006-07	kt	2 568	879	777	5 134	1 446	18	10 822
2007-08	kt	2 477	1 995	954	5 820	2 296	27	13 569
2008-09	kt	6 963	1 756	2 016	8 274	2 376	35	21 420
2009-10	kt	5 350	2 995	1 346	8 114	4 001	27	21 834
2010-11	kt	10 700	4 493	1 605	4 999	6 060	34	27 891

a Includes data for the Australian Capital Territory and the Northern Territory. State totals may not add to Australian totals as a result of rounding.

b Excludes establishments with an EVAO less than \$5000. c Planted area.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABARES.

202 Volume of Australian exports of wheat and flour, by destination ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Egypt	2 534	752	1 818	251	284	449	501	730
Ethiopia	29	0	8	0	0	5	8	0
South Africa	247	183	85	0	0	77	46	90
Asia								
Bangladesh	141	162	179	3	65	337	443	1 049
China	755	1 893	303	183	2	231	745	530
India	4	0	93	1 593	9	1	240	137
Indonesia	2 647	2 720	3 016	2 574	1 608	2 728	2 854	3 892
Japan	1 250	1 171	1 106	1 114	878	791	1 110	1 175
Korea, Rep. of	1 065	1 213	1 002	989	694	712	826	1 197
Malaysia	737	888	780	629	623	793	756	928
Pakistan	140	653	146	0	0	0	1	0
Singapore	48	118	68	70	75	85	83	95
Sri Lanka	132	66	46	0	5	50	99	77
Thailand	422	478	545	192	255	336	442	661
Middle East								
Bahrain	6	3	0	5	0	23	52	43
Iran	0	0	425	41	0	1 577	61	0
Iraq	1 111	1 550	715	362	198	531	635	906
Kuwait	259	305	341	250	233	251	338	372
Oman	91	63	86	0	0	42	0	159
Qatar	0	0	61	64	72	42	12	0
United Arab Emirates	196	241	525	99	144	256	207	353
Yemen	198	314	499	385	408	714	648	779
Oceania								
Fiji	122	134	131	146	132	123	158	149
New Zealand	314	339	313	350	275	266	280	349
Papua New Guinea	99	134	155	148	153	135	160	190
Total	15 074	15 780	15 168	11 196	7 408	13 410	13 725	18 448
(value, \$m)	3 475	3 488	3 296	2 765	2 990	5 028	3 692	5 526

^a July-June year. Exports are of wheat (including spelt, groats, meal and pellets) and meslin (mixed grain, especially rye mixed with wheat), plus plain white flour, wholemeal flour and self-raising white flour in wheat equivalent (conversion 1:1.29).

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

203 Australian wheat supply and disposal ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Opening stocks	3 310	6 219	7 424	9 982	4 705	4 319	3 738	5 798
Production	26 132	21 905	25 150	10 822	13 569	21 420	21 834	27 891
Total domestic use ^b	5 359	6 028	6 627	7 420	6 517	7 306	4 999	6 089
Flour	2 406	2 296	2 245	2 286	2 337	2 470	2 490	2 510
Residual (incl. feed) ^c	2 281	3 108	3 792	4 505	3 503	4 142	1 826	2 873
Seed	670	622	590	629	677	694	682	705
Exports								
Wheat	17 582	14 349	15 670	8 406	7 197	14 568	14 661	18 567
Flour ^d	286	325	298	279	247	140	130	72
Total	17 868	14 675	15 969	8 685	7 444	14 707	14 791	18 639
Closing stocks ^b	6 217	7 424	9 982	4 705	4 319	3 738	5 798	8 973

^a 1 October to 30 September. ^b Some ABARES estimates have been revised based on additional industry information. ABARES is continuing to investigate data. ^c Calculated as opening stocks plus production plus imports less exports less closing stocks less flour and seed use. ^d Wheat equivalent (conversion 1:1.29).

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Manufacturing Production, Australia*, cat. no. 8301.0, Canberra; ABARES.

204 Australian wheat prices ^a

	ASW export quote ^a		Stock feed wheat ^b	Unit GVP
	US\$/t	A\$/t	A\$/t	A\$/t
1968-69	na	na	62.83	49.40
1969-70	na	na	63.38	50.36
1970-71	57.05	51.00	63.93	51.15
1971-72	57.38	49.00	54.75	54.35
1972-73	91.00	70.00	56.97	54.11
1973-74	195.00	132.00	71.00	109.45
1974-75	167.00	122.00	83.40	110.63
1975-76	147.00	116.00	99.32	104.26
1976-77	113.00	99.00	105.40	90.06
1977-78	119.00	105.00	111.60	99.77
1978-79	142.00	126.00	116.61	126.91
1979-80	169.00	152.00	140.50	153.07
1980-81	181.00	155.00	151.37	155.13
1981-82	165.00	149.00	149.78	158.89
1982-83	163.00	175.00	184.11	176.45
1983-84	153.83	170.00	175.24	163.77
1984-85	150.33	194.00	204.36	171.60
1985-86	132.50	190.00	193.82	165.67
1986-87	110.00	166.00	170.12	145.90
1987-88	125.11	172.00	189.54	161.93
1988-89	171.90	212.00	221.84	209.82
1989-90	167.60	218.00	169.08	195.24
1990-91	126.73	161.07	132.33	131.96
1991-92	160.25	208.77	159.67	200.16
1992-93	157.05	225.45	143.50	165.94
1993-94	153.25	223.10	137.58	173.97
1994-95	174.37	235.75	232.75	237.09
1995-96	232.39	306.30	236.24	260.83
1996-97	207.47	265.89	188.38	212.79
1997-98	167.50	246.67	185.93	197.75
1998-99	147.43	235.92	155.38	186.87
1999-00	136.44	217.53	153.63	195.14
2000-01	153.57	286.17	171.83	232.06
2001-02	157.09	300.51	211.97	261.60
2002-03	185.97	320.49	309.69	265.68
2003-04	183.56	258.57	220.74	215.67
2004-05	175.70	234.07	194.77	197.06
2005-06	194.60	261.08	191.84	202.75
2006-07	231.66	295.64	286.76	241.96
2007-08	302.01	357.21	425.49	390.00
2008-09	226.24	320.69	314.47	281.09
2009-10	202.11	229.79	236.83	218.26
2010-11	280.11	283.27	263.13	272.89

^a Until September 2007, average of daily asking prices for Australian standard white wheat fob eastern states for the financial year. Unavailable from October 2007 to October 2008. ^b Administered pricing of domestic wheat ceased after the 1988-89 season. General Purpose wheat delivered Sydney. **na** Not available.

Sources: International Grains Council, *Grain Market Report*, London; ABARES.

205 Summary of world statistics for wheat

	Area million ha	Production Mt	Use Mt	Closing stocks		Stocks- to-use ratio %	Trade c Mt	Use per person kg	Price d US\$/t
				World a	Exporters b				
				Mt	Mt				
1965-66	219	265	284	67	34	24	62	85	58.00
1966-67	219	311	286	92	35	32	56	84	66.00
1967-68	223	300	294	98	43	33	51	85	62.00
1968-69	227	332	308	122	62	40	46	87	63.00
1969-70	220	315	329	108	65	33	51	91	52.00
1970-71	210	319	342	85	51	25	54	93	60.00
1971-72	215	354	349	90	49	26	52	93	60.00
1972-73	213	348	366	71	28	19	68	96	91.00
1973-74	221	376	363	87	26	24	63	93	177.00
1974-75	223	364	368	83	30	23	63	93	164.00
1975-76	227	359	364	80	38	22	66	90	152.00
1976-77	234	425	380	121	56	32	62	93	113.00
1977-78	228	386	413	98	53	24	72	98	116.00
1978-79	230	451	428	120	56	28	72	101	141.00
1979-80	229	429	440	101	49	23	86	103	175.00
1980-81	237	445	452	114	47	25	94	101	183.00
1981-82	240	454	454	118	59	26	101	99	170.00
1982-83	239	483	465	137	70	30	96	101	160.00
1983-84	231	489	473	151	66	32	100	104	154.00
1984-85	232	513	495	176	73	36	103	105	148.00
1985-86	231	500	491	189	85	38	84	103	128.00
1986-87	229	531	518	201	83	39	90	108	110.50
1987-88	221	505	528	180	61	34	107	108	123.40
1988-89	220	500	529	151	40	29	98	106	165.75
1989-90	226	537	532	157	38	29	101	102	160.83
1990-91	230	592	567	182	55	32	100	106	117.94
1991-92	221	543	552	174	50	31	110	103	150.96
1992-93	221	562	548	187	55	34	111	101	141.33
1993-94	220	557	557	188	45	34	99	101	141.52
1994-95	215	527	545	170	32	31	92	97	156.42
1995-96	219	541	549	163	30	30	96	96	215.33
1996-97	231	582	579	167	36	29	100	100	178.50
1997-98	228	610	583	195	42	33	99	99	141.75
1998-99	225	587	579	203	55	35	99	98	119.08
1999-00	217	585	582	206	54	35	109	95	113.17
2000-01	218	582	584	205	55	35	102	94	128.50
2001-02	213	581	585	201	52	34	107	93	127.51
2002-03	213	566	601	166	40	28	106	95	160.46
2003-04	208	557	596	127	49	21	103	93	160.49
2004-05	217	628	613	141	67	23	110	94	153.87
2005-06	217	621	623	139	66	22	110	95	176.28
2006-07	211	597	609	127	48	21	111	91	211.91
2007-08	215	607	602	132	48	22	110	90	362.08
2008-09	223	685	645	172	69	27	137	94	270.78
2009-10	222	678	652	199	77	30	128	94	209.02
2010-11	218	653	656	196	70	30	126	94	316.63

Note: Area is harvested area. **a** Sum of individual closing stocks at the end of respective national crop years. China not included before 1983-84. **b** Argentina, Australia, Canada, European Union and United States. Includes Kazakhstan, Russian Federation and Ukraine from 2003-04. **c** July-June year. Excludes intra-EU trade. **d** US Hard Red Winter no.2 fob Gulf.

Sources: International Grains Council, *Grain Market Report*, London; International Grains Council, *World Grain Statistics*, London; ABARES.

206 World wheat production, by country

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Algeria	3.0	2.7	2.4	2.7	2.8	1.3	3.6	3.1
Egypt	6.8	7.2	8.1	8.3	7.4	8.0	8.5	7.5
Morocco	5.1	5.5	3.0	6.3	1.6	3.7	6.4	4.9
South Africa	1.5	1.7	1.9	2.1	1.9	2.1	2.0	1.4
Americas								
Argentina	14.6	16.0	12.6	14.5	16.3	8.4	8.8	14.7
Brazil	5.9	6.0	4.9	2.2	3.8	6.0	5.0	5.9
Canada	23.6	25.9	26.8	25.3	20.1	28.6	26.8	23.2
Mexico	2.9	2.9	3.0	3.4	3.5	4.0	4.3	3.7
United States	63.8	58.7	57.2	49.2	55.8	68.0	60.4	60.1
Asia								
China	86.5	92.0	97.5	108.5	109.3	112.5	115.1	115.2
India	65.1	72.1	68.6	69.4	75.8	78.6	80.7	80.8
Japan	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6
Kazakhstan	11.5	9.9	11.0	12.5	16.5	13.0	16.5	10.0
Pakistan	19.2	19.5	21.7	21.7	23.3	21.0	24.0	23.9
Uzbekistan	5.4	4.7	6.1	5.8	6.2	6.0	6.2	6.5
Europe								
European Union ^a	90.1	136.1	122.7	125.1	118.0	150.7	138.3	136.8
Bulgaria	1.7	3.6	3.5	3.2	2.3	4.6	4.0	4.0
Czech Republic	2.6	5.0	4.1	3.5	1.9	4.7	4.4	4.2
Hungary	2.9	6.0	5.1	4.4	4.0	5.6	4.4	3.8
France	30.5	39.7	37.0	35.4	32.8	39.0	38.3	38.1
Germany	19.3	25.4	23.7	22.4	20.8	26.0	25.2	24.0
Italy	6.2	8.6	7.3	6.5	7.2	8.9	6.3	6.9
Poland	7.9	9.9	8.8	7.1	8.3	9.3	9.8	9.5
Romania	2.5	7.8	7.6	5.0	3.0	7.2	5.2	6.0
Slovakia	0.9	1.7	1.6	1.4	1.4	1.8	1.5	1.2
Spain	6.1	6.8	3.3	5.6	6.4	6.8	4.8	5.7
Sweden	2.3	2.4	2.3	2.0	2.3	2.2	2.3	2.2
United Kingdom	14.3	15.5	14.9	14.7	13.2	17.3	14.1	14.9
Russian Federation	34.1	45.4	47.7	44.9	49.4	63.8	61.7	41.5
Serbia and Montenegro	1.4	2.8	2.0	1.9	2.0	2.1	2.1	1.7
Ukraine	3.6	16.5	18.7	13.8	13.9	25.9	20.9	16.8
Middle East								
Iran	13.5	14.0	14.5	14.8	15.0	10.0	12.0	15.5
Saudi Arabia	2.0	2.1	2.2	2.7	2.6	1.8	0.9	1.3
Syria	4.7	4.5	4.7	4.9	4.1	2.1	4.0	3.6
Turkey	18.5	18.5	18.0	17.5	15.5	17.0	18.5	17.5
Oceania								
Australia	26.1	21.9	25.2	10.8	13.6	21.4	21.8	27.9
Total ^b	557.0	627.6	620.7	597.5	607.4	685.0	678.5	652.6

^a Regarded as 15 countries to 2002-03, 25 countries from 2003-04, then 27 countries from 2005-06. ^b Includes some unspecified countries.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities*, cat. no. 7121.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; International Grains Council, *Grain Market Report*, London; ABARES.

207 Volume of world wheat trade, by country ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	4.0	5.3	5.5	4.9	5.8	6.3	5.1	6.4
Egypt	7.2	7.9	7.7	7.1	7.6	9.8	10.2	10.4
Morocco	2.4	2.3	2.4	1.8	4.1	3.7	2.3	3.9
Nigeria	2.4	3.1	3.7	3.2	2.6	3.6	4.0	4.1
Tunisia	0.8	1.0	1.0	1.4	2.3	1.8	1.5	1.8
Americas								
Brazil	5.7	5.5	6.2	7.9	7.1	6.3	6.7	6.6
Cuba	0.7	0.8	0.8	0.7	0.9	0.8	0.7	0.8
Mexico	3.6	3.6	3.4	3.6	3.1	3.3	3.1	3.4
Peru	1.4	1.4	1.7	1.4	1.4	1.4	1.6	1.8
Venezuela	1.6	1.5	1.6	1.8	1.4	1.4	1.5	1.4
Asia								
Bangladesh	2.0	1.8	2.1	1.7	1.4	2.7	3.5	3.4
China	3.7	6.8	1.0	0.4	0.2	0.5	1.4	1.0
Chinese Taipei	1.1	1.1	1.2	1.1	1.3	1.1	1.2	1.4
India	0.0	0.0	0.1	6.7	2.0	0.0	0.3	0.2
Indonesia	4.4	4.8	5.1	5.8	5.2	5.5	5.4	6.6
Japan	5.7	5.4	5.4	5.6	5.7	4.9	5.5	6.0
Korea, Rep. of	3.6	3.6	3.8	3.2	3.0	3.3	4.4	4.9
Pakistan	0.2	1.4	0.9	0.1	1.5	3.0	0.2	0.1
Philippines	3.0	2.5	2.9	2.7	2.3	3.2	3.0	3.2
Europe								
European Union ^b	5.8	7.1	7.1	5.3	6.4	7.9	5.1	4.7
Russian Federation	1.0	1.1	1.3	0.8	0.3	0.1	0.1	0.0
Ukraine	3.6	0.0	0.0	0.1	0.3	0.1	0.0	0.0
Middle East								
Iran	0.2	0.2	1.0	0.3	0.1	8.9	3.0	0.2
Iraq	1.9	3.1	4.9	3.0	3.5	3.9	3.9	3.4
Turkey	1.1	0.4	0.1	1.8	2.2	3.6	3.3	3.6
Yemen	1.5	2.0	2.3	2.5	2.0	2.8	2.7	2.6
Exports								
Americas								
Argentina	7.4	13.2	8.1	11.9	10.0	8.5	5.1	7.6
Canada	15.6	15.4	15.5	19.4	16.4	18.3	18.2	16.4
United States	31.5	29.0	27.3	24.9	34.3	27.6	23.9	35.1
Europe								
European Union ^b	10.4	15.2	15.7	14.3	12.6	25.9	22.5	24.0
Russian Federation	4.0	7.9	10.6	10.9	12.1	18.3	18.8	4.0
Ukraine	0.1	4.3	6.5	3.3	1.2	12.9	9.3	4.3
Asia								
China	2.4	0.8	1.0	2.4	2.4	0.2	0.4	0.4
India	5.4	1.7	0.4	0.1	0.1	0.0	0.0	0.0
Japan	0.4	0.4	0.4	0.4	0.3	0.2	0.3	na
Kazakhstan	4.3	3.0	3.8	8.1	8.2	5.8	8.0	5.6
Turkey	0.7	2.1	3.0	2.0	1.5	2.2	4.0	2.4
Oceania								
Australia ^c	15.1	15.8	15.2	11.2	7.4	13.4	13.7	18.4
Total ^d	103.1	110.2	110.0	110.8	110.4	136.8	127.7	126.5

^a Local marketing years; wheat equivalent. ^b Regarded as 15 countries to 2002-03, 25 countries from 2003-04, then 27 countries from 2005-06. Excludes intra-EU trade. ^c Fiscal year. ^d Includes some unspecified countries.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; International Grains Council; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

208 US wheat supply and disposal ^a

	Unit	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11 ^b
Area									
- planted	million ha	25.1	24.1	23.2	23.2	24.5	25.6	23.9	21.7
- harvested	million ha	21.4	20.2	20.3	18.9	20.6	22.5	20.2	19.3
Yield	t/ha	2.99	2.90	2.82	2.60	2.70	3.02	2.99	3.12
Opening stocks	Mt	13.4	14.9	14.7	15.5	12.4	8.3	17.9	26.6
Production	Mt	63.8	58.7	57.2	49.2	55.8	68.0	60.4	60.1
Imports	Mt	1.7	1.9	2.2	3.3	3.1	3.5	3.2	2.6
Total supply	Mt	78.9	75.5	74.1	68.1	71.3	79.8	81.5	89.3
Domestic use	Mt	32.5	31.8	31.3	30.9	28.6	34.3	31.0	30.7
- food	Mt	24.8	24.8	25.0	25.5	25.8	25.2	25.0	25.2
- feed	Mt	5.5	4.9	4.3	3.2	0.4	6.9	4.1	3.6
- seed	Mt	2.2	2.1	2.1	2.2	2.4	2.1	1.9	1.9
Exports	Mt	31.5	29.0	27.3	24.9	34.3	27.6	23.9	35.1
Closing stocks	Mt	14.9	14.7	15.5	12.4	8.3	17.9	26.6	23.5
- Commodity Credit Corporation	Mt	1.7	1.5	1.2	1.1	0.0	0.0	0.0	0.0
- Free	Mt	13.2	13.2	14.4	11.3	8.3	17.9	26.6	23.5
Total use	Mt	64.0	60.8	58.6	55.9	62.9	61.9	54.9	65.8
Farm price	US\$/bus	3.40	3.40	3.42	4.26	6.48	6.78	4.87	5.70
Loan rate	US\$/bus	2.80	2.75	2.75	2.75	2.75	2.75	2.94	2.94
Export price ^c	US\$/t	160.49	153.87	176.28	211.91	362.08	270.78	209.02	316.63

^a June–May year. ^b US Department of Agriculture estimate. ^c US Hard Red Winter no.2 fob Gulf; July–June average.

Sources: US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC; US Department of Agriculture, *Agricultural Outlook*, Washington DC; US Department of Agriculture, *Wheat Yearbook*, Washington DC; ABARES.

209 Wheat export price quotation, by country and category

	Australian standard white (eastern states) US\$/i	Canadian no. 1 western red spring 12.5% (Vancouver) ^a US\$/i	US no. 2 hard red winter (Gulf) US\$/i	Argentinean bread wheat US\$/i	EU standard (Rouen) US\$/i	US no. 2 soft red winter (Gulf) US\$/i
1987-88	125.11	164.00	123.40	101.00	84.00	120.00
1988-89	171.90	224.92	165.75	151.17	146.75	161.42
1989-90	167.60	193.75	160.83	138.58	142.17	152.83
1990-91	126.73	160.67	117.94	86.75	89.92	112.67
1991-92	160.25	188.42	150.96	117.67	119.00	147.08
1992-93	157.05	192.83	141.33	124.17	132.83	142.17
1993-94	153.25	222.25	141.52	117.50	95.58	133.83
1994-95	174.37	209.17	156.42	132.83	128.11	146.75
1995-96	232.39	254.83	215.33	215.92	212.30	180.17
1996-97	207.47	216.58	178.50	153.33	169.55	159.00
1997-98	167.50	197.28	141.75	134.31	133.80	130.91
1998-99	147.43	183.87	119.08	116.65	101.00	102.01
1999-00	136.44	179.00	113.17	112.17	99.67	99.33
2000-01	153.57	183.90	128.50	125.04	109.16	102.94
2001-02	157.09	148.54	127.51	116.71	110.85	116.10
2002-03	185.97	211.80	160.46	144.54	113.50	140.16
2003-04	183.56	203.39	160.49	153.50	174.23	152.45
2004-05	175.70	205.83	153.87	123.82	138.66	142.30
2005-06	194.60	216.25	176.28	138.75	132.18	142.02
2006-07	231.66	242.64	211.91	187.75	198.73	180.55
2007-08	302.01	477.50	362.08	325.97	361.45	328.41
2008-09	226.24	337.02	270.78	232.70	214.03	209.84
2009-10	202.11	245.84	209.02	222.67	179.15	190.44
2010-11	280.11	411.78	316.63	313.21	322.15	298.99
2010						
January	204.04	234.75	213.74	234.00	179.00	203.65
February	192.31	234.25	206.30	218.00	168.00	195.57
March	187.07	229.75	204.39	211.00	165.50	194.56
April	182.15	238.20	199.50	226.00	173.60	194.17
May	182.18	224.50	194.76	242.25	171.25	191.55
June	178.22	226.50	181.34	203.09	170.75	185.97
July	198.41	245.00	215.38	216.00	218.00	229.81
August	261.33	291.00	275.62	285.75	290.25	275.28
September	290.36	371.00	303.91	298.75	304.00	301.51
October	286.00	394.00	294.03	295.60	304.00	285.63
November	287.50	392.25	292.97	297.50	305.25	287.32
December	316.69	448.20	325.84	301.60	327.20	317.50
2011						
January	301.40	456.00	343.56	324.00	352.25	324.95
February	302.75	465.50	363.88	351.25	368.00	340.75
March	284.21	437.75	334.61	348.75	343.25	307.02
April	285.05	466.40	359.12	348.33	361.80	318.09
May	278.19	487.00	361.55	350.00	358.50	312.94
June	271.09	487.25	334.32	341.05	333.25	287.07

^a Prior to October 1994 export price quotation for Canadian no. 1 western red spring wheat 13.5 per cent (Vancouver).

Note: All prices quoted free on board.

Sources: International Grains Council, *World Grains Statistics*, London; International Grains Council, *Grain Market Report*, London; US Department of Agriculture, *Wheat Yearbook*, Washington DC; ABARES.

210 Wheat supply and disposal in major exporting countries a

	Area million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports b Mt	Closing stocks Mt
Argentina (December–November)						
2004-05	6.1	2.64	16.0	4.2	11.9	4.3
2005-06	5.2	2.42	12.6	4.0	9.6	3.3
2006-07	5.5	2.63	14.5	4.1	10.7	3.1
2007-08	5.9	2.75	16.3	4.2	11.2	4.0
2008-09	4.3	1.96	8.4	4.2	6.8	1.5
2009-10	3.0	2.91	8.8	4.2	5.3	0.7
2010-11	4.4	3.34	14.7	4.3	9.2	1.9
Australia (October–September)						
2004-05	13.4	1.63	21.9	6.0	14.7	7.4
2005-06	12.4	2.02	25.2	6.6	16.0	10.0
2006-07	11.8	0.92	10.8	7.4	8.7	4.7
2007-08	12.6	1.08	13.6	6.5	7.4	4.3
2008-09	13.5	1.58	21.4	7.3	14.7	3.7
2009-10	13.9	1.57	21.8	5.0	14.8	5.8
2010-11	13.6	2.04	27.9	6.1	18.6	9.0
Canada (August–July)						
2004-05	9.8	2.63	25.9	9.2	14.8	7.9
2005-06	9.8	2.72	26.8	9.3	15.8	9.7
2006-07	9.7	2.61	25.3	8.8	19.4	6.8
2007-08	8.6	2.32	20.1	6.7	15.9	4.4
2008-09	10.0	2.85	28.6	7.8	18.7	6.5
2009-10	9.6	2.79	26.8	7.2	18.5	7.8
2010-11	8.3	2.80	23.2	7.7	16.2	7.2
European Union (July–June) c						
2004-05	23.0	5.91	136.1	116.7	15.2	23.0
2005-06	22.4	5.48	122.7	119.6	15.7	17.6
2006-07	24.7	5.06	125.1	123.6	14.3	14.0
2007-08	24.8	4.75	118.0	108.7	12.6	17.0
2008-09	26.5	5.68	150.7	126.0	25.9	23.6
2009-10	25.5	5.44	138.3	128.5	22.5	16.1
2010-11	25.9	5.28	136.8	122.5	24.0	11.0
Kazakhstan (July–June)						
2004-05	11.8	0.84	9.9	7.2	3.0	4.0
2005-06	11.5	0.96	11.0	7.5	3.8	3.7
2006-07	12.0	1.04	12.5	6.2	8.1	1.9
2007-08	12.9	1.28	16.5	7.8	8.2	2.3
2008-09	13.0	1.00	13.0	7.5	5.8	2.2
2009-10	14.0	1.18	16.5	7.2	8.0	3.4
2010-11	14.0	0.71	10.0	6.0	5.6	1.9

Continued

210 Wheat supply and disposal in major exporting countries ^a *continued*

	Area million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports ^b Mt	Closing stocks Mt
Russian Federation (July–June)						
2004-05	22.9	1.98	45.4	38.0	7.9	3.0
2005-06	25.4	1.88	47.7	37.6	10.6	3.8
2006-07	23.0	1.95	44.9	35.6	10.9	3.1
2007-08	23.5	2.10	49.4	36.4	12.1	4.2
2008-09	26.0	2.45	63.8	38.8	18.3	11.0
2009-10	27.7	2.23	61.7	39.4	18.8	14.7
2010-11	22.5	1.84	41.5	39.0	4.0	13.2
Ukraine (July–June)						
2004-05	5.7	2.93	16.5	10.9	4.3	2.5
2005-06	6.6	2.85	18.7	12.8	6.5	2.0
2006-07	5.2	2.65	13.8	10.6	3.3	1.9
2007-08	6.0	2.33	13.9	11.9	1.2	3.0
2008-09	7.0	3.71	25.9	13.5	12.9	2.5
2009-10	6.8	3.09	20.9	11.8	9.3	2.3
2010-11	6.3	2.68	16.8	11.4	4.3	3.5
United States (June–May)						
2004-05	20.2	2.90	58.7	31.8	29.0	14.7
2005-06	20.3	2.82	57.2	31.3	27.3	15.5
2006-07	18.9	2.60	49.2	30.9	24.9	12.4
2007-08	20.6	2.70	55.8	28.6	34.3	8.3
2008-09	22.5	3.02	68.0	34.3	27.6	17.9
2009-10	20.2	2.99	60.4	31.0	23.9	26.6
2010-11	19.3	3.12	60.1	30.7	35.1	23.5
Total ^{cd}						
2004-05	112.9		330.5	224.0	100.9	66.9
2005-06	113.6		321.8	228.7	105.2	65.7
2006-07	110.9		296.2	227.3	100.3	47.8
2007-08	115.0		303.5	210.8	103.0	47.6
2008-09	122.9		379.7	239.4	130.8	68.9
2009-10	120.6		355.3	234.2	121.1	77.4
2010-11	114.3		331.0	227.6	117.0	69.9

^a The marketing period in each country is shown in parentheses. ^b Includes wheat equivalent of flour and other wheat products. ^c Regarded as 15 countries from 1998–99, 25 countries from 2004–05, then 27 countries from 2006–07. Excludes intra-EU trade. EU stock figures include intervention stocks. ^d Simple aggregation of different crop years.

Sources: ABS, *Principal Agricultural Commodities Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia, Preliminary*, cat. no. 7121.0, Canberra; ABS, *Summary of Crops*, cat. no. 7330.0, Canberra; International Grains Council, *World Grain Statistics*, London; US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC; US Department of Agriculture, *Agricultural Outlook*, Washington DC; US Department of Agriculture, *Wheat Yearbook*, Washington DC; International Grains Council, *Grain Market Report*, London; ABARES.

211 Summary of Australian statistics for wool

	Sheep numbers ^{ab}	Wool production (greasy) ^c		Clean yield ^{ac}	Closing stocks		Average price	
		Shorn	Total		(at 30 June) ^d		Eastern market indicator (clean) ^e	Auction (greasy)
	million	kt	kt	%	'000 bales	kt	c/kg	c/kg
1973-74	139.5	644.3	700.9	60.3	176.5	26.0	361.2	181.2
1974-75	145.8	725.3	793.5	62.3	1 616.2	239.2	252.8	127.0
1975-76	144.1	681.4	754.3	62.5	1 326.7	197.4	271.8	143.3
1976-77	131.3	623.9	702.7	61.8	1 094.1	162.6	348.0	182.7
1977-78	127.5	605.5	677.0	62.3	896.6	137.7	354.7	187.1
1978-79	130.5	643.6	705.7	62.9	353.8	55.8	391.7	205.2
1979-80	132.7	642.4	708.5	62.9	208.5	33.2	462.0	243.6
1980-81	131.4	637.9	701.2	62.8	188.3	30.3	478.8	256.0
1981-82	135.0	661.0	717.2	63.0	509.3	81.5	501.9	264.7
1982-83	130.5	581.3	641.5	62.3	928.1	150.0	516.3	269.9
1983-84	135.1	614.8	671.2	63.2	1 233.9	207.0	540.3	293.8
1984-85	145.7	691.1	752.7	64.2	979.6	168.1	586.0	317.8
1985-86	150.4	694.2	762.1	64.3	924.3	159.1	594.9	342.1
1986-87	153.2	740.5	813.7	64.4	381.5	65.7	697.4	395.5
1987-88	156.5	771.4	842.7	64.9	9.2	1.5	1 117.4	632.7
1988-89	164.9	838.8	898.9	65.3	188.3	31.8	1 091.7	647.3
1989-90	173.8	959.8	1 030.9	65.8	3 064.7	542.0	969.2	555.3
1990-91	166.6	912.3	989.2	65.6	4 607.4	820.1	699.6	413.8
1991-92	151.0	727.5	801.2	65.1	4 068.8	724.3	592.6	358.8
1992-93	140.5	760.8	815.1	66.0	3 950.1	703.0	519.2	313.5
1993-94	132.6	775.8	828.3	65.8	3 667.0	653.0	547.0	330.1
1994-95	120.9	679.4	727.9	64.6	3 113.7	557.0	788.0	504.4
1995-96	121.1	640.9	684.9	65.7	3 226.4	573.6	658.1	386.7
1996-97	120.2	685.1	731.4	65.9	2 556.6	452.3	669.8	403.0
1997-98	117.5	639.8	689.6	65.6	2 173.1	383.7	733.2	444.3
1998-99	117.5	639.9	687.6	65.5	2 104.0	375.6	550.2	323.4
1999-00	115.4	642.3	666.0	65.6	1 476.4	263.4	627.0	357.3
2000-01	110.9	589.9	645.1	65.8	796.5	141.4	764.0	512.0
2001-02	106.2	536.9	587.2	66.1	429.8	81.0	841.0	526.7
2002-03	99.3	503.0	551.1	64.8	123.9	105.0	1 049.0	682.0
2003-04	101.3	467.6	509.5	64.4	707.7	156.3	820.0	533.0
2004-05	101.1	465.7	519.7	64.2	888.3	157.0	766.6	484.9
2005-06	91.0	472.5	519.9	64.1	896.7	157.6	713.3	463.7
2006-07	85.7	450.2	502.3	62.9	na	0.0	864.1	543.5
2007-08	76.9	407.9	458.7	62.6	na	na	945.0	599.1
2008-09	72.7	370.6	420.3	62.8	na	na	793.8	499.3
2009-10	68.1	352.7	422.5	63.2	na	na	871.7	550.9
2010-11	74.3	368.3	429.1	64.9	na	na	1 131.5	734.3

a Sheep and lambs. **b** Before 1982, includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$1500 or more. Between 1982 and 1986, includes livestock holdings on establishments with an EVAO of \$2500 or more and from 1987, an EVAO of \$5000.

c July-June years. **d** Australian wool held by the Australian Wool Corporation from 1972-73 to 1990-91 and by the Australian Wool Realisation Commission from 1 July 1991 to December 1993. From July 1993 to 2004, includes stocks held on farms and unsold wool held in brokers' stores. From 2005, stocks held on farms is unavailable therefore the value is derived. **e** Wool International eastern market indicator from 1973-74 to 1994-95.

Australian Wool Exchange eastern market indicator from 1995-96 onward. [Original market indicators for the period 1991-92 to 1993-94 can be calculated by dividing by 1.064. For the years between 1983-84 to 1990-91, divide by 1.114. For 1982-83 and earlier years, divide by 1.136].

na Not available.

Sources: ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Principal Agricultural Commodities, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Livestock, Australia*, cat. no. 7203.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra; National Council of Wool Selling Brokers of Australia, *Statistics*, Melbourne; Australian Wool Exchange, Melbourne; Australian Wool Innovation Wool Production Forecasting Committee; ABARES.

212 Australian shorn wool production, by state

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia a
Number of sheep shorn (million)							
2000-01	48.80	24.15	10.84	27.94	14.89	3.89	127.00
2001-02	42.83	27.08	8.92	25.06	14.77	3.92	117.50
2002-03	43.77	24.42	5.38	24.86	14.28	3.97	117.50
2003-04	36.34	22.49	4.50	24.51	13.71	3.52	105.12
2004-05	38.91	24.23	5.84	23.88	12.70	2.89	108.44
2005-06	37.09	23.06	5.48	27.90	13.88	3.85	104.64
2006-07	34.00	25.12	5.44	25.99	15.35	4.21	110.08
2007-08	32.10	20.65	3.72	21.27	13.74	3.04	94.86
2008-09	27.91	18.44	4.05	21.08	12.29	2.71	86.31
2009-10	27.30	21.81	2.02	18.35	11.02	2.63	82.94
2010-11 s	24.89	24.70	1.95	18.68	12.09	2.63	84.83
Average cut per head (kg greasy)							
2000-01	4.50	4.58	4.51	4.33	5.09	3.61	4.31
2001-02	4.51	4.15	4.01	4.33	4.84	4.01	4.38
2002-03	4.35	4.16	3.84	4.43	4.50	3.74	4.28
2003-04	4.49	4.17	4.12	4.51	4.84	3.93	4.45
2004-05	4.26	4.11	4.40	4.51	5.03	4.17	4.29
2005-06	4.25	4.07	4.28	4.27	4.59	3.68	4.52
2006-07	4.09	3.80	4.15	4.07	4.83	3.13	4.09
2007-08	4.42	4.18	4.64	4.05	4.75	3.55	4.30
2008-09	4.40	4.20	4.10	4.10	4.60	3.90	4.29
2009-10	4.25	4.10	4.35	4.17	4.67	3.91	4.25
2010-11 s	4.53	4.21	4.21	4.23	4.45	4.04	4.34
Shorn wool production (kt greasy)							
2000-01	219.35	110.54	48.82	120.91	75.79	14.04	589.86
2001-02	193.00	112.50	35.80	108.39	71.45	15.73	536.87
2002-03	190.48	101.47	20.68	110.04	64.30	14.83	503.02
2003-04	163.10	93.79	18.55	110.61	66.41	13.87	467.58
2004-05	165.83	99.55	25.67	107.80	63.90	12.04	465.70
2005-06	157.58	93.90	23.45	119.22	63.77	14.17	472.53
2006-07	139.06	95.45	22.56	105.80	74.16	13.19	450.22
2007-08	141.88	86.32	17.27	86.15	65.26	10.78	407.88
2008-09	122.79	77.43	16.61	86.44	56.54	10.57	370.60
2009-10	116.08	89.53	8.82	76.60	51.44	10.28	352.74
2010-11	112.72	103.91	8.21	79.07	53.81	10.62	368.33
Clean yield (%)							
2000-01	67.60	67.50	65.00	62.40	63.40	70.20	65.80
2001-02	67.20	67.70	65.30	61.90	63.00	71.10	66.10
2002-03	65.40	66.30	63.00	61.00	61.80	70.80	64.80
2003-04	63.90	65.80	61.60	62.90	62.70	71.00	64.40
2004-05	63.50	65.90	62.30	62.00	62.00	70.60	64.20
2005-06	63.60	65.70	61.30	63.90	61.20	70.20	64.10
2006-07	62.60	64.20	61.00	61.50	61.70	69.60	62.90
2007-08	62.90	64.10	61.40	60.60	60.90	68.40	62.60
2008-09	63.20	63.70	62.60	61.70	60.50	67.20	62.80
2009-10	63.60	64.40	63.50	61.00	61.40	68.70	63.20
2010-11	65.50	66.80	63.50	61.00	63.70	70.40	64.90

a Includes the Northern Territory and the Australian Capital Territory. s ABARES estimate.

Sources: ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Principal Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia, Preliminary*, cat. no. 7121.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra; Australian Wool Innovation Wool Production Forecasting Committee; Australian Wool Testing Authority, *Key Test Data Summary*; ABARES.

213 Australian sheep disposal and wool production

	Unit	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Sheep disposal								
Opening number a	million	101.3	100.6	91.0	85.7	76.9	72.7	68.1
Lambs marked	million	37.2	35.1	34.1	33.1	32.5	31.9	33.2
Lambs slaughtered b	million	17.3	18.7	20.2	20.5	20.4	19.5	17.9
Sheep slaughtered b	million	11.4	11.8	13.3	11.2	10.5	7.3	5.3
Live sheep exports	million	3.2	4.2	4.1	4.1	4.1	3.1	2.9
Sheep deaths c	million	5.3	9.9	1.8	6.2	1.8	6.7	0.8
Closing number d	million	101.1	91.0	85.7	76.9	72.7	68.1	74.3
Wool production								
Number shorn	million	108.4	104.6	110.1	94.9	86.3	82.9	84.3 s
Cut per head	kg	4.29	4.52	4.09	4.30	4.29	4.25	4.37 s
Wool production (greasy)								
- shorn	kt	465.7	472.5	450.2	407.9	370.6	352.7	368.3
- on skins	kt	54.0	47.4	52.1	50.9	49.7	69.8	60.8 s
- total	kt	519.7	519.9	502.3	458.7	420.3	422.5	429.1
- clean yield	%	64.2	64.1	62.9	62.6	62.8	63.2	64.9

a Sheep and lambs at 1 July on enterprises with estimated value of agricultural operations (EVAO) of \$5000 or more. **b** For human consumption only, excludes slaughterings on farms since July 2007. **c** Calculated residually. **d** Sheep and lambs at 30 June on enterprises with an EVAO of \$5000 or more. **s** ABARES estimate. **na** Not available.

Sources: ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Principal Agricultural Commodities, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra; ABARES.

214 **Average prices for greasy wool in principal exporting countries**

	Australia ^a	New Zealand ^{ab}	South Africa ^{ac}
	c/kg	c/kg	c/kg
1971-72	na	na	na
1972-73	na	na	na
1973-74	361.20	na	na
1974-75	252.80	na	na
1975-76	271.80	180.01	na
1976-77	348.00	na	na
1977-78	354.70	na	na
1978-79	391.70	na	na
1979-80	462.00	na	na
1980-81	478.80	279.85	na
1981-82	501.90	na	na
1982-83	516.30	na	na
1983-84	540.30	na	na
1984-85	586.00	na	na
1985-86	594.90	358.09	na
1986-87	697.40	450.29	na
1987-88	1 117.40	532.70	na
1988-89	1 091.70	522.89	na
1989-90	969.20	467.83	na
1990-91	699.60	321.35	na
1991-92	592.60	313.76	na
1992-93	519.20	329.13	474.02
1993-94	547.00	338.13	507.48
1994-95	788.00	474.14	761.09
1995-96	658.05	433.23	592.35
1996-97	669.81	394.43	629.34
1997-98	733.15	389.82	666.87
1998-99	550.25	344.35	466.18
1999-00	627.00	352.11	487.54
2000-01	764.00	410.75	560.82
2001-02	841.00	418.87	627.20
2002-03	1 049.00	490.43	822.57
2003-04	820.00	413.23	629.95
2004-05	766.58	373.92	549.98
2005-06	713.33	326.12	513.18
2006-07	864.14	325.98	638.71
2007-08	945.00	324.52	948.23
2008-09	793.80	313.60	733.71
2009-10	871.70	301.19	898.04
2010-11	1 131.50	348.05	1 042.11

a Clean equivalent. Annual average prices for July–June years, converted to Australian cents using average exchange rates. **b** Average weighted price of private and auction sales. **c** SA market indicator price. **na** Not available.

Sources: Australian Wool Exchange, Melbourne; Meat and Wool New Zealand Economics Service, Wellington; International Wool Textile Organisation, *Market Information*, London; Reserve Bank of Australia; Cape Wools, Port Elizabeth; Ministry of Agriculture and Fisheries, Wellington.

215 Average world prices for synthetic fibres

	US polyester price ^a USc/lb	Chinese Taipei polyester price ^{bc} USc/lb	Chinese Taipei acrylic price ^{bd} USc/lb
1983-84	78.00	0.00	79.00
1984-85	72.00	0.00	80.00
1985-86	64.00	0.00	82.00
1986-87	62.00	0.00	83.00
1987-88	70.00	55.14	82.80
1988-89	79.00	75.39	77.00
1989-90	88.00	61.90	72.65
1990-91	77.00	50.54	70.76
1991-92	73.00	46.95	77.00
1992-93	73.00	47.07	74.68
1993-94	72.00	55.08	68.06
1994-95	81.70	76.85	93.20
1995-96	88.00	71.64	88.00
1996-97	72.00	57.24	78.00
1997-98	69.00	43.69	70.00
1998-99	53.00	35.27	54.00
1999-00	54.00	43.09	57.00
2000-01	59.75	40.99	59.00
2001-02	60.25	37.76	54.00
2002-03	62.20	42.00	na
2003-04	60.08	44.57	na
2004-05	66.25	50.78	na
2005-06	66.58	55.18	na
2006-07	73.17	58.76	na
2007-08	74.00	71.81	na
2008-09	82.70	61.98	na
2009-10	85.75	63.33	na
2010-11	97.77	85.46	na

^a Prior to 2008-09, reported average market price for 1.5 denier polyester staple for cotton blending, landed group B mill points fob producing plants. From 2008-09 price for polyester reported by Cotlook Ltd. Simple averages of weekly prices. ^b Simple averages of monthly prices. ^c Chinese Taipei staple, 1.5 denier. ^d Chinese Taipei staple, 3 denier. **na** Not available.

Sources: Cotlook Ltd, *Cotton Outlook*, Liverpool; Osaka Senken Ltd, *JTN Weekly*, Osaka; US Department of Agriculture, *Cotton and Wool, Situation and Outlook Report*, Washington DC.

216 Australian wool exports, by destination, recorded trade basis ^a

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Volume (kt greasy equivalent)								
China	211	267	325	384	309	323	331	325
Chinese Taipei	21	21	17	11	0	3	7	9
European Union ^b								
Czech Republic	14	13	19	15	18	9	11	15
France	19	11	2	0	0	0	0	0
Germany	16	10	7	3	2	1	1	1
Italy	62	63	47	41	37	23	11	21
United Kingdom	3	3	2	1	0	1	2	2
Other	15	17	16	7	2	1	1	1
Total	129	115	93	69	61	35	26	40
India	27	31	35	30	24	25	29	29
Japan	11	7	7	8	4	4	3	5
Korea, Rep. of	10	9	7	7	6	8	9	7
Thailand	13	11	8	5	5	3	5	6
Turkey	12	6	6	5	3	2	2	3
United States	3	4	4	5	2	1	2	2
Other	67	84	49	51	69	42	14	18
Total	504	554	551	576	482	445	428	443
Value (\$m)								
China	1 175	1 382	1 485	2 031	1 748	1 654	1 779	2 235
Chinese Taipei	108	93	73	66	1	12	41	63
European Union ^b								
Czech Republic	69	55	81	68	97	38	57	87
France	114	53	6	1	2	0	0	0
Germany	82	42	27	14	12	5	4	7
Italy	347	343	257	260	285	175	81	178
United Kingdom	17	12	8	7	2	3	9	9
Other	75	81	71	31	14	6	5	7
Total	703	585	450	382	412	227	155	287
India	154	154	156	162	144	131	155	209
Japan	59	34	34	42	22	17	17	33
Korea, Rep. of	60	47	34	28	30	37	41	36
Thailand	80	63	45	37	32	17	24	43
Turkey	81	29	27	22	14	8	10	15
United States	18	22	21	19	11	8	12	14
Other	340	410	206	272	383	209	67	110
Total	2 778	2 818	2 532	3 060	2 798	2 319	2 302	3 047

^a Includes skins and hides. ^b Regarded as 27 countries.

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

217 Volume of Australian exports of semi-processed shorn wool

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Scoured								
China	4.2	1.9	2.0	3.1	0.0	3.8	6.1	0.5
India	3.6	3.1	3.0	2.9	0.0	1.3	3.9	2.4
Italy	4.7	5.8	3.0	2.2	1.2	1.1	0.7	1.8
Japan	4.3	2.4	2.5	3.0	1.4	1.0	1.1	1.1
Korea, Rep. of	1.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0
Malaysia	1.4	3.1	5.2	3.0	0.0	0.3	1.3	2.1
Thailand	8.1	6.2	5.2	3.5	2.5	0.7	2.0	3.3
Total	33.3	30.7	29.8	25.7	21.9	20.9	17.6	14.3
Carbonised								
China	7.0	6.8	5.5	4.1	2.0	3.5	2.6	2.2
Hong Kong	0.1	0.2	0.1	0.0	0.0	0.0	0.0	0.0
Italy	2.8	3.7	2.8	3.0	0.5	0.9	0.4	1.4
Japan	1.4	0.9	0.8	0.9	0.2	0.2	0.4	1.3
Korea, Rep. of	2.9	3.9	3.9	3.9	3.3	4.6	5.1	4.2
Turkey	1.3	1.3	1.1	1.1	0.9	0.3	0.6	0.6
Total	18.7	19.0	16.0	15.9	10.5	12.6	10.8	11.9
Tops and sliver								
China	1.1	0.2	0.2	0.1	1.1	0.6	0.0	0.0
Chinese Taipei	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	1.0	0.1	0.1	0.2	1.3	1.2	0.7	0.4
Iran	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Japan	0.3	0.0	0.1	0.1	0.1	0.0	0.0	0.0
Korea, Rep. of	0.7	0.0	0.0	0.0	0.3	0.4	0.2	0.0
Mexico	0.2	0.0	0.0	0.0	0.0	0.3	0.2	0.0
No country detail	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	20.3	16.4	8.3	7.1	7.2	3.8	2.3	1.5
Noils and waste								
China	0.2	0.2	0.0	0.0	0.1	0.0	0.1	0.0
France	0.1	0.9	0.4	0.3	0.1	0.0	0.0	0.0
Germany	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Italy	1.9	0.6	1.0	0.8	0.8	0.6	0.3	0.1
Japan	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Korea, Rep. of	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total	3.5	2.1	1.5	1.4	1.0	0.7	0.5	0.2

Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

218 World wool production, by country and type

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	kt	kt	kt	kt	kt	kt	kt	kt
Greasy								
Country or region								
Afghanistan	11	11	11	10	10	15	15	na
Algeria	19	19	19	23	24	23	23	na
Argentina	76	80	78	71	65	54	54	na
Australia	509	520	520	502	459	420	423	429 s
Chile	15	14	14	10	10	11	11	na
China a	374	393	395	399	365	368	387	na
Ethiopia	11	11	12	12	12	7	7	na
France	17	17	17	22	22	9	9	na
Greece	14	13	13	9	9	7	7	na
India	48	45	45	46	46	43	40	na
Iran	54	54	54	75	75	74	75	na
Ireland	18	16	16	13	12	14	14	na
Italy	11	11	11	9	na	na	na	na
Mongolia	15	15	15	18	21	21	21	na
Morocco	38	38	38	40	40	53	55	na
New Zealand	218	216	225	217	206	158	183	195
Pakistan	40	40	40	46	41	41	42	na
Peru	12	11	11	11	11	10	10	na
Romania	18	18	18	18	18	18	18	na
Russian Federation	146	148	145	166	172	178	173	na
Azerbaijan	12	13	14	14	15	15	15	na
Kazakhstan	28	30	32	34	35	36	35	na
Kyrgyzstan	10	10	11	10	11	11	11	na
Russia	46	48	49	51	52	55	53	na
Turkmenistan	18	18	18	20	21	21	18	na
Uzbekistan	19	20	21	22	24	25	24	na
Other CIS	13	13	13	14	14	15	16	na
South Africa b	46	46	46	47	48	48	48	49 s
Spain	36	36	36	30	32	28	29	na
Sudan	45	45	45	46	47	53	55	na
Syria	22	22	22	34	36	34	34	na
Turkey	54	46	46	46	47	40	44	na
United Kingdom	43	43	43	37	37	33	32	na
United States	19	19	19	18	17	16	16	na
Uruguay	37	38	46	47	43	39	39	36
Other producers	154	151	150	195	196	153	130	na
World	2 132	2 144	2 156	2 216	2 120	1 967	1 992	na
Clean								
Wool type								
Fine wool (<=24.5um)	464	466	469	444	428	408	398	na
Medium wool (24.6-32.5um)	260	260	263	264	262	235	236	na
Coarse wool (>32.5um)	496	493	502	495	501	461	486	na
World	1 220	1 218	1 235	1 229	1 191	1 104	1 119	1 123 s

a Includes Manchuria, Sinkiang and Tibet. b Excluding Lesotho and Namibia. s ABARES estimate. na Not available.

Sources: Beef and Lamb New Zealand, Wellington; Uruguayan Wool Secretariat; Cape Wools, Port Elizabeth; Argentine Wool Board; International Wool Textile Organisation, *Market Information*, London; Chinese Statistical Year Book; ABARES.

219 Volume of raw wool exports by main producing countries a

	Australia kt	Zealand kt	Argentina b kt	Uruguay c kt	Africa kt	Total kt
1988-89	877	329	85	80	83	1 454
1989-90	758	257	104	103	72	1 293
1990-91	719	254	94	107	86	1 261
1991-92	931	302	81	109	89	1 513
1992-93	868	240	81	92	66	1 347
1993-94	911	299	109	115	66	1 500
1994-95	815	291	95	68	63	1 332
1995-96	770	186	77	82	29	1 145
1996-97	858	200	83	17	19	1 176
1997-98	798	192	25	9	24	1 048
1998-99	682	171	24	10	25	912
1999-00	799	182	30	14	21	1 046
2000-01	848	179	21	12	17	1 077
2001-02	700	163	22	10	21	916
2002-03	536	148	24	10	21	739
2003-04	504	153	18	9	24	708
2004-05	554	144	20	8	28	754
2005-06	551	161	12	19	28	771
2006-07	576	155	15	25	31	801
2007-08	482	147	28	25	31	714
2008-09	445	154	16	13	32	660
2009-10	428	164	24	22	40	678
2010-11	443	152	na	20	34	na

a Greasy equivalent. Includes raw, semiprocessed and wool on skins. For New Zealand and South Africa, does not include wool exported on skins.

b October–September years to 1993–94; July–June years from 1994–95. c October–September years. na Not available.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Banco Central del Uruguay; Cape Wools SA, South Africa; Commonwealth Secretariat, *Wool Quarterly*, London; Federation Lanera Argentina, *Informe Mensual Estadístico*, Buenos Aires; International Wool Textile Organisation, *International Wool Textile Overview*, London; Ministry of Agriculture, *Situation and Outlook for New Zealand Agriculture*, Wellington; New Zealand Wool Board, *Statistical Handbook*, Wellington; Beef and Lamb New Zealand, Wellington; Secretario Uruguayo de la Lana based on Banco de la Republica Oriental del Uruguay data; South African Wool Board, *Statistical Review of the Wool Season*, South Africa; Woolmark.

220 **Market prices for Australian wool, by category a**

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg
19 micron	966.3	951.7	888.0	1 057.0	1 180.0	994.2	1 047.1	1 400.9
20 micron	913.4	839.8	776.0	955.0	1 033.0	809.5	923.6	1 164.0
21 micron	887.8	779.1	723.0	900.0	965.0	774.4	902.5	1 118.7
22 micron	865.1	742.5	702.0	861.0	924.0	759.2	879.5	1 080.9
23 micron	841.6	715.4	689.0	832.0	890.0	747.4	854.6	1 034.0
24 micron	811.4	673.8	669.0	766.0	828.0	719.7	800.8	925.0
25 micron	762.7	620.8	615.0	656.0	693.0	599.7	686.6	792.0
30 micron	430.9	451.7	426.0	415.0	359.0	414.2	399.3	502.9
Eastern market indicator	820.0	766.6	713.3	864.1	945.0	793.8	871.7	1 131.5
Western market indicator	821.3	746.5	691.7	855.9	946.9	761.7	863.2	1 092.4

a Clean basis. Micron prices are averages of the Australian Wool Exchange northern and southern region indicators from 1998–99.

Sources: Wool International, *Wool Market Weekly*, Annual Price Summary, Melbourne; Australian Wool Exchange, *Weekly Wool Market Review*, Melbourne.

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