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Foreword

Australian Commodity Statistics is an invaluable reference book for anyone associated with Australia's agricultural and resources 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 over forty years.

In *Australian Commodity Statistics*, ABARE 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.

Australian Commodity Statistics can be used in conjunction with ABARE's *Australian Commodities*, in which the most important statistics, including forecasts, are updated throughout the year. Both of these publications provide background material for ABARE's national OUTLOOK conference 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 ABARE publications that contain mainly statistical information on commodities and, as such, complement the data presented in *Australian Commodity Statistics* are *Australian Crop Report* (quarterly), *Australian Mineral Statistics* (quarterly), *Australian Forest and Wood Products Statistics* (biannual) and *Australian Fisheries Statistics* (annual).

Phillip Glyde
Executive Director
December 2008

Definitions and explanations

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	
ct	carat	
bbl	barrel	
mbd	million barrels a day	
cif	cost, insurance and freight	
fas	free alongside ship	
fob	free on board	
fot	free on truck	
nec	not elsewhere classified	
ABARE	Australian Bureau of Agricultural and Resource Economics	
ABS	Australian Bureau of Statistics	
AGSO	Australian Geological Survey Organisation (now Geoscience Australia)	
AWB Limited	Australian Wheat Board, Australian grain marketing company	
BAE	Bureau of Agricultural Economics (now ABARE)	
BMR	Bureau of Mineral Resources, Geology and Geophysics	
DITR	Department of Industry, Tourism and Resources	
FAO	Food and Agriculture Organisation of the United Nations	

Small discrepancies in totals are generally caused by rounding.

0 is used to denote nil or a negligible amount.

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To assist users of *Australian Commodity Statistics* a 'where to find' list of commonly used or difficult to find general items is included at the back of this report.

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)

Peoples 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
Viet Nam

ASEAN – Association of South East Asian Nations

Brunei Darussalam
Cambodia
Indonesia
Laos
Malaysia
Myanmar
Philippines
Singapore
Thailand
Viet Nam

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 – Organisation of the Petroleum

Exporting Countries

Algeria	1969
Indonesia	1962
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 Cooperation 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

overview

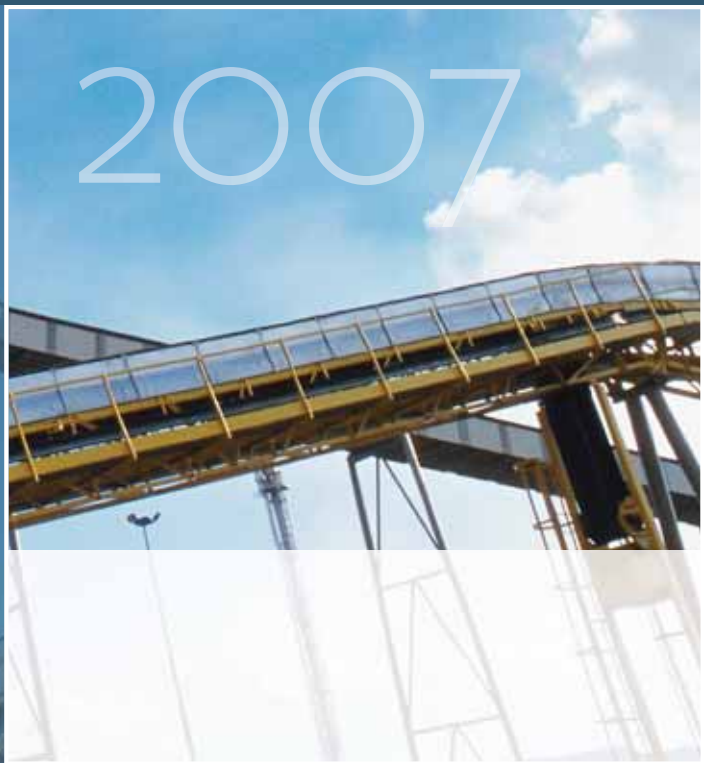
macroeconomic indicators

farm sector

resource sector

australian economy

2007



1 Australian gross product, by sector

	Chain volume measures a						Nominal prices
			Mining				
	Rural		Mining (excl. services to mining)	Services to mining		Gross domestic product	Gross domestic product
	Farm	Total b			Total		
	$m	$m	$m	$m	$m	$m	$m
1974-75	11 687	12 720	18 890	na	21 617	362 137	69 777
1975-76	12 756	13 771	18 321	na	21 062	371 932	81 710
1976-77	13 069	14 141	19 512	na	22 428	384 810	94 197
1977-78	12 613	13 677	20 005	na	22 919	388 258	102 864
1978-79	15 674	16 647	20 520	na	23 416	404 531	116 364
1979-80	13 473	14 599	20 086	na	22 631	417 213	132 056
1980-81	11 525	12 799	20 464	na	22 850	431 335	149 576
1981-82	13 776	14 893	20 301	na	22 139	445 014	172 449
1982-83	10 501	11 637	21 074	na	23 196	434 463	185 571
1983-84	15 623	16 676	22 629	na	25 177	454 784	209 475
1984-85	15 675	16 709	25 563	na	28 687	479 001	231 312
1985-86	15 257	16 258	28 631	3 881	31 696	500 292	255 244
1986-87	15 365	16 358	27 251	2 651	29 715	512 383	279 623
1987-88	14 700	15 809	31 936	3 416	35 030	538 813	319 157
1988-89	15 160	16 341	33 546	3 554	36 774	558 744	362 282
1989-90	16 483	17 637	37 432	3 157	40 462	580 741	397 358
1990-91	17 308	18 544	40 080	2 697	42 762	576 998	408 842
1991-92	16 145	17 453	42 176	2 479	44 719	577 269	417 020
1992-93	17 290	18 566	42 249	2 850	45 163	598 639	438 090
1993-94	17 994	19 190	43 007	2 868	45 952	623 194	460 125
1994-95	14 492	15 949	45 840	3 464	49 245	651 013	486 607
1995-96	18 225	19 658	49 601	3 788	53 339	677 809	518 144
1996-97	19 511	21 129	50 243	3 852	54 051	704 432	545 698
1997-98	19 314	21 014	51 932	4 047	55 961	735 995	577 373
1998-99	21 439	23 153	52 384	3 618	55 773	774 114	607 759
1999-00	22 306	24 350	56 099	3 504	59 180	804 948	645 058
2000-01	23 205	25 336	59 876	4 049	63 690	820 558	689 262
2001-02	24 029	26 134	59 747	4 164	63 733	851 465	735 714
2002-03	17 856	19 995	59 122	4 440	63 540	878 305	781 675
2003-04	23 322	25 636	57 319	4 179	61 413	913 666	841 351
2004-05	24 346	26 693	59 689	4 521	64 223	939 692	897 642
2005-06	25 077	27 458	60 401	4 527	64 928	967 454	967 454
2006-07	20 248	22 586	64 931	4 979	69 910	999 687	1 046 063
2007-08	21 748	24 014	64 955	5 528	70 483	1 037 027	1 130 443

a Reference year is 2005-06. 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. **na** Not available.

2 Australian employment, by sector a

	Rural					Total
	Farm	Total b	Mining	Manufacturing	Other	employment
	'000	'000	'000	'000	'000	'000
1960-61	448	na	na	na	na	na
1961-62	453	na	na	na	na	na
1962-63	443	496	52	na	na	4 320
1963-64	420	486	52	na	na	4 435
1964-65	414	475	53	na	na	4 555
1965-66	409	470	55	na	na	4 705
1966-67	402	461	57	na	na	4 871
1967-68	401	458	60	na	na	4 989
1968-69	396	448	63	na	na	5 112
1969-70	392	452	69	na	na	5 285
1970-71	401	450	76	na	na	5 466
1971-72	393	447	77	na	na	5 540
1972-73	388	434	77	na	na	5 680
1973-74	377	427	78	na	na	5 863
1974-75	368	414	82	na	na	5 856
1975-76	365	401	81	na	na	5 929
1976-77	360	393	81	na	na	5 966
1977-78	351	390	80	na	na	6 018
1978-79	348	388	81	1 205	4 367	6 041
1979-80	364	404	81	1 242	4 460	6 187
1980-81	367	414	88	1 246	4 600	6 348
1981-82	363	409	99	1 249	4 668	6 425
1982-83	374	417	96	1 163	4 645	6 321
1983-84	367	407	98	1 139	4 724	6 368
1984-85	361	403	94	1 139	4 927	6 563
1985-86	386	428	106	1 129	5 187	6 849
1986-87	377	422	101	1 124	5 372	7 020
1987-88	375	418	98	1 159	5 544	7 219
1988-89	384	435	98	1 201	5 803	7 537
1989-90	381	429	104	1 201	6 089	7 823
1990-91	387	435	95	1 143	6 088	7 762
1991-92	367	408	90	1 086	6 040	7 623
1992-93	360	404	87	1 087	6 024	7 601
1993-94	363	409	89	1 092	6 165	7 755
1994-95	357	403	86	1 115	6 453	8 057
1995-96	370	418	85	1 112	6 674	8 289
1996-97	375	422	86	1 129	6 717	8 355
1997-98	378	432	83	1 123	6 840	8 477
1998-99	366	422	80	1 080	7 060	8 642
1999-00	385	440	78	1 099	7 218	8 835
2000-01	373	435	79	1 113	7 389	9 016
2001-02	385	443	81	1 077	7 532	9 133
2002-03	323	375	86	1 091	7 769	9 321
2003-04	319	373	92	1 033	7 933	9 431
2004-05	310	364	93	991	8 088	9 536
2005-06	303	353	115	1 002	8 387	9 857
2006-07	308	355	120	1 003	8 644	10 123
2007-08	303	360	127	1 019	8 861	10 367

a Average employment over four quarters, based on ANZSIC and equivalent ASIC codes. **b** Includes farm, forestry, fishing and hunting. **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 Contribution to Australian employment, by sector

	Rural				
	Farm	Total a	Mining	Manufacturing	Other
	%	%	%	%	%
1962-63	10.3	11.5	1.2	na	na
1963-64	9.5	11.0	1.2	na	na
1964-65	9.1	10.4	1.2	na	na
1965-66	8.7	10.0	1.2	na	na
1966-67	8.3	9.5	1.2	na	na
1967-68	8.0	9.2	1.2	na	na
1968-69	7.7	8.8	1.2	na	na
1969-70	7.4	8.6	1.3	na	na
1970-71	7.3	8.2	1.4	na	na
1971-72	7.1	8.1	1.4	na	na
1972-73	6.8	7.6	1.4	na	na
1973-74	6.4	7.3	1.3	na	na
1974-75	6.3	7.1	1.4	na	na
1975-76	6.2	6.8	1.4	na	na
1976-77	6.0	6.6	1.4	na	na
1977-78	5.8	6.5	1.3	na	na
1978-79	5.8	6.4	1.3	19.9	72.3
1979-80	5.9	6.5	1.3	20.1	72.1
1980-81	5.8	6.5	1.4	19.6	72.5
1981-82	5.6	6.4	1.5	19.4	72.7
1982-83	5.9	6.6	1.5	18.4	73.5
1983-84	5.8	6.4	1.5	17.9	74.2
1984-85	5.5	6.1	1.4	17.4	75.1
1985-86	5.6	6.2	1.5	16.5	75.7
1986-87	5.4	6.0	1.4	16.0	76.5
1987-88	5.2	5.8	1.4	16.1	76.8
1988-89	5.1	5.8	1.3	15.9	77.0
1989-90	4.9	5.5	1.3	15.4	77.8
1990-91	5.0	5.6	1.2	14.7	78.4
1991-92	4.8	5.4	1.2	14.2	79.2
1992-93	4.7	5.3	1.1	14.3	79.2
1993-94	4.7	5.3	1.2	14.1	79.5
1994-95	4.4	5.0	1.1	13.8	80.1
1995-96	4.5	5.0	1.0	13.4	80.5
1996-97	4.5	5.0	1.0	13.5	80.4
1997-98	4.5	5.1	1.0	13.2	80.7
1998-99	4.2	4.9	0.9	12.5	81.7
1999-00	4.4	5.0	0.9	12.4	81.7
2000-01	4.1	4.8	0.9	12.3	82.0
2001-02	4.2	4.8	0.9	11.8	82.5
2002-03	3.5	4.0	0.9	11.7	83.4
2003-04	3.4	4.0	1.0	11.0	84.1
2004-05	3.3	3.8	1.0	10.4	84.8
2005-06	3.1	3.6	1.2	10.2	85.1
2006-07	3.0	3.5	1.2	9.9	85.4
2007-08	2.9	3.5	1.2	9.8	85.5

a Includes farm, forestry, fishing and hunting. **na** Not available.

4 Value of Australian exports, by sector Balance of payments basis

	Farm a	Forest b	Fisheries c	Resource sector d	Total commodities	Total merchandise	Total goods and services
	$m	$m	$m	$m	$m	$m	$m
1962-63	1 645	13	13	na	na	2 158	2 489
1963-64	2 147	16	14	na	na	2 764	3 158
1964-65	1 927	16	18	na	na	2 605	3 050
1965-66	1 849	15	24	na	na	2 655	3 136
1966-67	2 006	23	25	na	na	2 954	3 484
1967-68	1 833	18	34	na	na	2 968	3 574
1968-69	1 868	18	39	na	na	3 242	3 897
1969-70	2 105	20	39	1 268	3 416	3 998	4 765
1970-71	2 103	25	56	1 430	3 594	4 244	5 086
1971-72	2 414	28	73	1 545	4 021	4 746	5 685
1972-73	3 316	55	72	1 809	5 208	6 086	7 016
1973-74	3 504	74	66	2 246	5 849	6 833	7 896
1974-75	3 816	87	69	3 420	7 360	8 620	10 114
1975-76	4 267	84	80	3 869	8 306	9 589	11 225
1976-77	5 189	116	135	4 813	10 154	11 572	13 425
1977-78	5 203	123	143	5 211	10 570	12 158	14 245
1978-79	6 022	142	192	5 928	12 285	14 234	16 910
1979-80	8 398	207	235	7 400	16 262	18 869	22 013
1980-81	8 179	238	230	7 480	16 177	19 018	22 605
1981-82	4 372	239	307	8 289	16 686	19 662	23 694
1982-83	4 573	261	354	10 058	17 962	21 226	25 622
1983-84	4 703	266	393	11 524	20 502	23 968	28 888
1984-85	5 470	311	399	14 952	26 146	30 102	35 741
1985-86	6 332	348	482	16 285	28 483	32 492	38 937
1986-87	7 935	429	593	17 399	30 593	36 487	44 312
1987-88	10 369	481	730	19 980	35 321	41 903	51 737
1988-89	15 097	613	674	21 195	37 264	44 187	55 322
1989-90	14 462	616	784	24 932	40 497	48 927	60 842
1990-91	13 076	706	831	28 030	42 371	52 568	66 249
1991-92	14 609	748	980	28 304	44 322	55 427	69 997
1992-93	15 980	826	1 090	29 759	47 352	60 634	77 042
1993-94	17 471	911	1 243	29 878	48 896	64 419	83 301
1994-95	18 022	1 067	1 367	30 371	50 023	67 101	88 103
1995-96	20 598	1 087	1 328	34 450	56 472	76 146	99 475
1996-97	22 318	1 198	1 305	36 052	59 740	80 934	106 091
1997-98	23 471	1 348	1 489	40 925	66 181	88 538	115 132
1998-99	23 009	1 347	1 511	39 221	63 902	85 783	114 095
1999-00	24 535	1 607	1 988	45 498	72 182	97 625	128 435
2000-01	30 076	1 846	2 169	58 006	90 643	120 231	156 163
2001-02	31 927	2 018	2 100	57 283	91 561	120 940	156 102
2002-03	27 862	2 091	1 844	57 002	86 865	115 803	151 790
2003-04	26 540	2 040	1 652	53 248	82 128	109 473	147 219
2004-05	27 902	2 119	1 542	67 665	98 019	127 867	167 562
2005-06	27 802	2 140	1 547	90 572	121 047	154 425	196 274
2006-07	27 789	2 355	1 494	104 587	135 033	169 535	215 647
2007-08	27 489	2 471	1 342	115 939	145 852	184 148	235 110

a Includes exports of wine. **b** Includes paper and paperboard. **c** Tuna captured under joint venture agreements or transhipped at sea are not included. **d** Minerals and energy resources. Before 1990-91, includes ABARE estimates for items such as bauxite, manganese and diamonds which were excluded from ABS estimates for confidentiality reasons. From July 1990, ABS estimates contain details for such items. **na** Not available.

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

5 Contribution to Australian merchandise exports, by sector Balance of payments basis

	Farm a	Forest b	Fisheries c	Resource sector d	Total commodities
	%	%	%	%	%
1961-62	75.5	0.6	0.6	na	na
1962-63	76.2	0.6	0.6	na	na
1963-64	77.7	0.6	0.5	na	na
1964-65	74.0	0.6	0.7	na	na
1965-66	69.7	0.5	0.9	na	na
1966-67	67.9	0.8	0.8	na	na
1967-68	61.7	0.6	1.1	na	na
1968-69	57.6	0.5	1.2	na	na
1969-70	52.7	0.5	1.0	31.7	85.4
1970-71	49.5	0.6	1.3	33.7	84.7
1971-72	50.9	0.6	1.5	32.6	84.7
1972-73	54.5	0.9	1.2	29.7	85.6
1973-74	51.3	1.1	1.0	32.9	85.6
1974-75	44.3	1.0	0.8	39.7	85.4
1975-76	44.5	0.9	0.8	40.3	86.6
1976-77	44.8	1.0	1.2	41.6	87.7
1977-78	42.8	1.0	1.2	42.9	86.9
1978-79	42.3	1.0	1.3	41.6	86.3
1979-80	44.5	1.1	1.2	39.2	86.2
1980-81	43.0	1.3	1.2	39.3	85.1
1981-82	22.2	1.2	1.6	42.2	84.9
1982-83	21.5	1.2	1.7	47.4	84.6
1983-84	19.6	1.1	1.6	48.1	85.5
1984-85	18.2	1.0	1.3	49.7	86.9
1985-86	19.5	1.1	1.5	50.1	87.7
1986-87	21.7	1.2	1.6	47.7	83.8
1987-88	24.7	1.1	1.7	47.7	84.3
1988-89	34.2	1.4	1.5	48.0	84.3
1989-90	29.6	1.3	1.6	51.0	82.8
1990-91	24.9	1.3	1.6	53.3	80.6
1991-92	26.4	1.3	1.8	51.1	80.0
1992-93	26.4	1.4	1.8	49.1	78.1
1993-94	27.1	1.4	1.9	46.4	75.9
1994-95	26.9	1.6	2.0	45.3	74.5
1995-96	27.1	1.4	1.7	45.2	74.2
1996-97	27.6	1.5	1.6	44.5	73.8
1997-98	26.5	1.5	1.7	46.2	74.7
1998-99	26.8	1.6	1.8	45.7	74.5
1999-00	25.1	1.6	2.0	46.6	73.9
2000-01	25.0	1.5	1.8	48.2	75.4
2001-02	26.4	1.7	1.7	47.4	75.7
2002-03	24.1	1.8	1.6	49.2	75.0
2003-04	24.2	1.9	1.5	48.6	75.0
2004-05	21.8	1.7	1.2	52.9	76.7
2005-06	18.0	1.4	1.0	58.7	78.4
2006-07	16.4	1.4	0.9	61.7	79.6
2007-08	14.9	1.3	0.7	63.0	79.2

a Includes exports of wine. **b** Includes paper and paperboard. **c** Tuna captured under joint venture agreements or transhipped at sea are not included. **d** Minerals and energy resources. Before 1990-91, includes ABARE estimates for items such as bauxite, manganese and diamonds which were excluded from ABS estimates for confidentiality reasons. From July 1990, ABS estimates contain details for such items. **na** Not available.
Sources: ABS, *Balance of Payments, Australia,* cat. nos. 5302.0 and 5303.0, Canberra; ABARE.

6 Contribution to Australian total exports, by sector Balance of payments basis

	Farm a	Forest b	Fisheries c	Resource sector d	Total commodities	Total merchandise	Services
	%	%	%	%	%	%	%
1961-62	66.2	0.5	0.5	na	na	87.7	12.3
1962-63	66.1	0.5	0.5	na	na	86.7	13.3
1963-64	68.0	0.5	0.4	na	na	87.5	12.5
1964-65	63.2	0.5	0.6	na	na	85.4	14.6
1965-66	59.0	0.5	0.8	na	na	84.7	15.3
1966-67	57.6	0.7	0.7	na	na	84.8	15.2
1967-68	51.3	0.5	1.0	na	na	83.0	17.0
1968-69	47.9	0.5	1.0	na	na	83.2	16.8
1969-70	44.2	0.4	0.8	26.6	71.7	83.9	16.1
1970-71	41.3	0.5	1.1	28.1	70.7	83.4	16.6
1971-72	42.5	0.5	1.3	27.2	70.7	83.5	16.5
1972-73	47.3	0.8	1.0	25.8	74.2	86.7	13.3
1973-74	44.4	0.9	0.8	28.4	74.1	86.5	13.5
1974-75	37.7	0.9	0.7	33.8	72.8	85.2	14.8
1975-76	38.0	0.7	0.7	34.5	74.0	85.4	14.6
1976-77	38.7	0.9	1.0	35.9	75.6	86.2	13.8
1977-78	36.5	0.9	1.0	36.6	74.2	85.3	14.7
1978-79	35.6	0.8	1.1	35.1	72.6	84.2	15.8
1979-80	38.2	0.9	1.1	33.6	73.9	85.7	14.3
1980-81	36.2	1.1	1.0	33.1	71.6	84.1	15.9
1981-82	18.5	1.0	1.3	35.0	70.4	83.0	17.0
1982-83	17.8	1.0	1.4	39.3	70.1	82.8	17.2
1983-84	16.3	0.9	1.4	39.9	71.0	83.0	17.0
1984-85	15.3	0.9	1.1	41.8	73.2	84.2	15.8
1985-86	16.3	0.9	1.2	41.8	73.2	83.4	16.6
1986-87	17.9	1.0	1.3	39.3	69.0	82.3	17.7
1987-88	20.0	0.9	1.4	38.6	68.3	81.0	19.0
1988-89	27.3	1.1	1.2	38.3	67.4	79.9	20.1
1989-90	23.8	1.0	1.3	41.0	66.6	80.4	19.6
1990-91	19.7	1.1	1.3	42.3	64.0	79.3	20.7
1991-92	20.9	1.1	1.4	40.4	63.3	79.2	20.8
1992-93	20.7	1.1	1.4	38.6	61.5	78.7	21.3
1993-94	21.0	1.1	1.5	35.9	58.7	77.3	22.7
1994-95	20.5	1.2	1.6	34.5	56.8	76.2	23.8
1995-96	20.7	1.1	1.3	34.6	56.8	76.5	23.5
1996-97	21.0	1.1	1.2	34.0	56.3	76.3	23.7
1997-98	20.4	1.2	1.3	35.5	57.5	76.9	23.1
1998-99	20.2	1.2	1.3	34.4	56.0	75.2	24.8
1999-00	19.1	1.3	1.5	35.4	56.2	76.0	24.0
2000-01	19.3	1.2	1.4	37.1	58.0	77.0	23.0
2001-02	20.5	1.3	1.3	36.7	58.7	77.5	22.5
2002-03	18.4	1.4	1.2	37.6	57.2	76.3	23.7
2003-04	18.0	1.4	1.1	36.2	55.8	74.4	25.6
2004-05	16.7	1.3	0.9	40.4	58.5	76.3	23.7
2005-06	14.2	1.1	0.8	46.1	61.7	78.7	21.3
2006-07	12.9	1.1	0.7	48.5	62.6	78.6	21.4
2007-08	11.7	1.1	0.6	49.3	62.0	78.3	21.7

a Includes exports of wine. **b** Includes paper and paperboard. **c** Tuna captured under joint venture agreements or transhipped at sea are not included. **d** Minerals and energy resources. Before 1990-91, includes ABARE estimates for items such as bauxite, manganese and diamonds which were excluded from ABS estimates for confidentiality reasons. From July 1990, ABS estimates contain details for such items. **na** Not available.
Sources: ABS, *Balance of Payments, Australia,* cat. nos. 5302.0 and 5303.0, Canberra; ABARE.

7 Value of Australian exports, by sector a Chain volume measures

	Rural products b	Resource sector products c	Other merchandise	Total merchandise d	Services d	Total goods and services d
	$m	$m	$m	$m	$m	$m
1974-75	9 311	13 821	8 130	31 262	7 004	38 246
1975-76	11 344	13 630	8 064	33 038	6 667	39 745
1976-77	12 757	14 712	8 228	35 697	6 772	42 584
1977-78	12 828	15 400	8 168	36 396	7 076	43 542
1978-79	12 885	16 464	9 022	38 371	8 317	46 634
1979-80	14 107	16 426	10 832	41 365	8 522	49 926
1980-81	12 640	16 120	9 436	38 196	9 311	47 507
1981-82	12 901	17 001	9 193	39 095	9 547	48 631
1982-83	12 111	18 558	8 662	39 331	9 495	48 882
1983-84	12 024	21 270	9 288	42 582	9 986	52 641
1984-85	14 000	25 389	10 343	49 732	10 808	60 759
1985-86	14 956	26 110	10 437	51 503	11 319	63 049
1986-87	15 754	28 206	12 946	56 906	12 626	69 773
1987-88	15 505	31 172	14 114	60 791	15 077	76 086
1988-89	14 659	31 009	14 985	60 653	16 390	77 207
1989-90	14 960	34 824	14 383	64 167	16 628	81 005
1990-91	16 269	40 252	15 465	71 986	18 218	90 459
1991-92	17 617	44 087	17 609	79 312	19 054	98 620
1992-93	18 991	45 238	19 583	83 812	21 293	105 463
1993-94	21 009	45 604	24 720	91 333	24 250	116 033
1994-95	19 928	47 145	26 692	93 764	27 453	121 892
1995-96	21 928	51 340	30 342	103 611	29 761	134 086
1996-97	24 727	57 277	34 425	116 428	31 729	148 861
1997-98	26 134	62 909	32 227	121 270	33 055	155 058
1998-99	26 923	63 095	33 150	123 167	34 811	158 476
1999-00	29 833	72 638	33 686	136 158	37 035	172 012
2000-01	31 087	76 521	36 709	144 318	41 214	185 032
2001-02	32 491	85 757	26 656	144 904	39 268	183 266
2002-03	28 419	88 510	27 857	144 787	39 100	182 461
2003-04	29 515	87 887	29 164	146 566	40 241	186 357
2004-05	30 599	89 569	30 783	150 951	41 076	192 045
2005-06	30 476	90 571	33 378	154 425	41 849	196 275
2006-07	29 669	95 046	34 330	159 045	44 550	203 595
2007-08	27 212	99 584	37 570	164 367	47 547	211 914

a Reference year 2005-06. **b** Before 1989-90, wine and paper and paperboard are excluded. **c** Minerals and energy resources. Before 1990-91, bauxite, diamonds and manganese are excluded. **d** 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

8 Australian unit export returns

	Rural			Minerals			
	Farm	Forest and fisheries products	Total	Energy minerals	Metals and other minerals	Total	Total commodities
Annual indexes a							
1989-90	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1990-91	84.5	101.2	85.9	111.5	96.6	102.0	96.3
1991-92	87.8	105.0	89.2	103.6	88.1	93.7	92.0
1992-93	89.9	109.6	91.6	109.7	92.1	98.5	96.0
1993-94	90.2	124.9	93.1	100.2	88.6	92.8	92.8
1994-95	100.7	127.2	102.9	94.3	92.3	93.0	96.3
1995-96	106.1	123.7	107.6	101.5	95.3	97.5	100.9
1996-97	95.3	123.5	97.5	103.2	86.9	92.9	94.4
1997-98	102.4	124.1	104.1	106.0	94.8	98.9	100.6
1998-99	93.4	120.7	95.6	96.8	92.4	94.0	94.5
1999-00	90.7	132.1	94.0	110.4	98.0	102.7	99.5
2000-01	108.9	144.5	111.8	141.0	115.6	125.4	120.4
2001-02	117.8	143.4	119.9	140.8	110.3	122.2	121.2
2002-03	115.0	137.7	116.8	135.1	106.2	117.5	117.0
2003-04	105.7	126.6	107.4	120.2	105.5	111.3	109.8
2004-05	105.0	128.4	106.9	166.0	126.1	141.7	130.1
2005-06	104.4	131.5	106.7	224.9	162.6	186.9	160.3
2006-07	109.7	136.0	111.8	205.1	200.6	203.0	172.8
2007-08	120.9	140.7	122.4	233.5	200.4	213.7	183.2
Quarterly indexes b							
2005-06							
September	102.3	102.6	102.4	231.3	161.0	188.7	158.0
December	104.9	103.9	103.8	241.1	168.2	197.0	164.1
March	102.3	104.5	102.4	242.1	181.6	205.7	169.1
June	105.4	102.5	106.0	239.7	193.8	212.5	174.3
2006-07							
September	106.2	111.0	106.6	236.1	210.6	221.8	181.0
December	108.8	105.5	107.5	217.4	217.8	218.6	179.5
March	110.7	106.1	109.5	212.2	222.4	219.2	180.5
June	110.0	104.9	111.2	204.6	218.2	213.6	176.5
2007-08							
September	112.0	111.2	112.7	212.8	212.0	213.0	176.9
December	120.6	109.6	118.2	221.1	207.7	213.7	179.6
March	123.0	112.2	121.8	235.2	212.3	222.1	186.0
June	122.8	109.0	121.4	315.9	235.0	267.6	216.5

9 Australian main macroeconomic indicators

	Growth of real gross domestic product	Interest rates			Consumer price index d
		Short term a	Long term b	Inflation c	
	%	%	%	%	
1964-65	6.7	na	na	3.5	14.8
1965-66	1.7	na	na	3.7	15.3
1966-67	6.6	na	na	2.6	15.7
1967-68	4.5	na	na	3.5	16.3
1968-69	8.1	na	na	2.6	16.7
1969-70	6.0	6.7	6.1	3.1	17.2
1970-71	3.9	7.1	6.8	4.5	18.0
1971-72	3.8	6.0	6.2	6.9	19.3
1972-73	3.5	5.1	5.9	6.1	20.4
1973-74	5.1	11.3	8.2	12.9	23.1
1974-75	1.1	10.5	9.5	16.8	26.9
1975-76	2.7	8.6	10.0	12.9	30.4
1976-77	3.2	9.8	10.2	13.9	34.6
1977-78	0.8	10.4	9.6	9.5	37.9
1978-79	5.5	9.6	9.2	8.2	41.0
1979-80	2.4	11.2	10.7	10.2	45.2
1980-81	3.2	13.4	12.6	9.3	49.4
1981-82	3.1	17.0	15.1	10.5	54.6
1982-83	- 2.6	14.0	14.6	11.5	60.9
1983-84	5.3	11.9	13.8	6.7	65.0
1984-85	5.1	13.4	13.4	4.3	67.8
1985-86	4.2	16.8	13.7	8.4	73.5
1986-87	2.5	15.7	13.5	9.4	80.4
1987-88	5.4	11.8	12.5	7.3	86.3
1988-89	4.0	15.7	12.8	7.3	92.6
1989-90	3.7	16.9	13.3	8.0	100.0
1990-91	- 0.1	12.2	12.2	5.3	105.3
1991-92	0.3	8.1	10.0	1.9	107.3
1992-93	3.7	5.6	8.3	1.0	108.4
1993-94	3.9	4.9	7.4	1.8	110.4
1994-95	4.3	7.2	9.9	3.2	113.9
1995-96	4.2	7.5	8.7	4.2	118.7
1996-97	3.8	6.3	7.6	1.3	120.3
1997-98	4.5	5.0	6.0	0.0	120.3
1998-99	5.3	4.9	5.5	1.2	121.8
1999-00	3.8	5.6	6.5	2.4	124.7
2000-01	2.0	5.8	5.8	6.0	132.2
2001-02	3.9	4.6	5.9	2.9	136.0
2002-03	3.2	4.8	5.4	3.1	140.2
2003-04	4.1	5.3	5.7	2.4	143.5
2004-05	2.8	5.5	5.4	2.4	147.0
2005-06	3.0	5.7	5.4	3.2	151.7
2006-07	3.2	6.3	5.8	2.9	156.1
2007-08	3.7	7.3	6.2	3.4	161.4

a 90 day bank bills, average of end-of-month 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, *Balance of Payments, Australia,* cat. no. 5302.0, Canberra; ABS, *Consumer Price Index,* cat. no. 6401.0, Canberra; ABS, *Quarterly Index of Industrial Production, Australia,* cat. no. 8125.0, Canberra; Reserve Bank of Australia, *Bulletin,* Sydney.

10 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 GDP		Level	Share of GDP
	$m	$m	$m	%		$m	%
1965-66	3 683	3 136	-889	-4.0	85.6	na	0.0
1966-67	3 770	3 484	-659	-2.7	85.1	na	0.0
1967-68	4 224	3 574	-1 131	-4.3	81.7	na	0.0
1968-69	4 360	3 897	-980	-3.3	83.8	na	0.0
1969-70	4 871	4 765	-688	-2.2	85.4	na	0.0
1970-71	5 214	5 086	-749	-2.1	80.0	na	0.0
1971-72	5 351	5 685	-293	-0.8	75.0	na	0.0
1972-73	5 512	7 016	754	1.4	89.2	na	0.0
1973-74	7 996	7 896	-921	-1.6	95.9	na	0.0
1974-75	10 510	10 114	-1 195	-1.8	87.3	na	0.0
1975-76	11 163	11 225	-1 423	-1.8	83.2	3 133	4.0
1976-77	14 106	13 425	-2 451	-2.6	80.6	5 160	5.7
1977-78	15 342	14 245	-3 067	-3.0	73.3	7 434	7.5
1978-79	18 260	16 910	-3 708	-3.2	73.8	9 553	8.5
1979-80	21 444	22 013	-2 168	-1.6	76.5	7 923	6.2
1980-81	25 530	22 605	-5 763	-3.9	75.9	9 361	6.4
1981-82	29 660	23 694	-9 057	-5.3	74.7	18 378	11.0
1982-83	29 667	25 622	-6 864	-3.7	73.6	25 169	14.0
1983-84	32 162	28 888	-7 836	-3.7	75.4	31 850	15.7
1984-85	40 790	35 741	-11 281	-4.9	74.2	53 055	23.6
1985-86	47 199	38 937	-15 499	-6.1	67.2	78 396	31.5
1986-87	49 032	44 312	-12 547	-4.5	63.3	87 971	32.3
1987-88	54 080	51 737	-11 545	-3.6	68.3	98 767	30.2
1988-89	62 296	55 322	-19 017	-5.2	77.7	117 240	31.5
1989-90	68 771	60 842	-22 795	-5.7	77.8	130 620	32.9
1990-91	66 948	66 249	-17 470	-4.3	73.5	142 065	35.0
1991-92	69 175	69 997	-13 238	-3.2	71.3	162 466	39.0
1992-93	79 139	77 042	-15 002	-3.4	68.3	177 453	40.5
1993-94	85 504	83 301	-15 869	-3.4	66.4	171 313	37.2
1994-95	97 896	88 103	-28 233	-5.8	68.1	190 790	39.2
1995-96	101 407	99 475	-21 401	-4.1	70.1	193 872	37.4
1996-97	104 008	106 091	-17 089	-3.1	72.1	208 628	38.2
1997-98	119 246	115 132	-22 183	-3.8	72.1	227 782	39.5
1998-99	127 519	114 095	-32 603	-5.4	68.6	230 689	38.0
1999-00	141 389	128 435	-30 985	-4.8	72.1	272 639	42.3
2000-01	154 325	156 163	-16 867	-2.4	73.9	302 467	43.9
2001-02	155 078	156 102	-18 553	-2.5	75.3	324 147	44.1
2002-03	167 736	151 790	-38 186	-4.9	76.9	356 995	45.7
2003-04	168 714	147 219	-45 590	-5.4	82.1	389 487	46.3
2004-05	190 188	167 562	-56 325	-6.3	90.2	435 324	48.5
2005-06	210 794	196 274	-52 839	-5.5	100.0	502 918	52.0
2006-07	227 808	215 647	-58 360	-5.6	106.7	547 412	52.3
2007-08	253 018	235 110	-68 246	-6.2	112.9	599 953	54.2

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: 2005-06 =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; Reserve Bank of Australia, *Bulletin,* Sydney.

11 Average Australian exchange rates with selected countries a

	Japan ¥/A$	United States US$/A$	New Zealand NZ$/A$	Korea, Rep. of b won/A$	United Kingdom £/A$	Euro €/A$	Trade weighted index c
1962-63	402.46	1.1185	0.805	na	0.399	na	na
1963-64	404.76	1.1168	0.805	na	0.399	na	na
1964-65	402.18	1.1137	0.805	287.6	0.399	na	na
1965-66	404.03	1.1163	0.805	303.4	0.399	na	na
1966-67	403.88	1.1144	0.805	301.6	0.399	na	na
1967-68	403.87	1.1155	0.912	304.4	0.466	na	na
1968-69	398.92	1.1124	1.000	312.5	0.466	na	na
1969-70	399.88	1.1160	1.000	335.1	0.466	na	na
1970-71	400.22	1.1185	1.000	357.6	0.466	na	99.6
1971-72	371.74	1.1710	1.000	443.9	0.462	na	98.8
1972-73	367.32	1.2835	1.032	513.9	0.524	na	104.4
1973-74	408.19	1.4743	1.034	587.0	0.617	na	115.5
1974-75	404.94	1.3700	1.016	611.2	0.584	na	107.7
1975-76	379.39	1.2613	1.193	610.3	0.633	na	105.3
1976-77	330.52	1.1531	1.193	557.4	0.674	na	96.3
1977-78	273.88	1.1276	1.127	545.9	0.618	na	89.3
1978-79	227.36	1.1365	1.079	550.0	0.568	na	83.2
1979-80	259.57	1.1143	1.132	594.3	0.499	na	83.8
1980-81	248.28	1.1612	1.233	759.7	0.508	na	87.6
1981-82	257.36	1.1048	1.374	776.6	0.601	na	91.0
1982-83	232.66	0.9383	1.333	705.5	0.581	na	81.8
1983-84	211.95	0.9057	1.382	718.7	0.623	na	81.5
1984-85	192.55	0.7741	1.611	643.2	0.634	na	75.5
1985-86	140.21	0.6979	1.291	625.7	0.485	na	62.3
1986-87	100.84	0.6609	1.231	567.4	0.433	na	53.8
1987-88	97.11	0.7262	1.122	565.9	0.415	na	54.8
1988-89	106.55	0.8139	1.302	560.8	0.474	na	61.6
1989-90	112.49	0.7667	1.302	529.4	0.470	na	60.0
1990-91	107.01	0.7824	1.304	564.4	0.422	na	58.9
1991-92	100.45	0.7664	1.380	584.6	0.436	na	55.4
1992-93	82.57	0.6968	1.306	552.9	0.447	na	52.3
1993-94	73.01	0.6889	1.224	568.4	0.460	na	51.4
1994-95	69.96	0.7390	1.169	584.8	0.468	na	52.8
1995-96	77.02	0.7553	1.130	589.5	0.488	na	54.8
1996-97	89.90	0.7801	1.126	666.7	0.483	na	58.7
1997-98	85.56	0.6797	1.142	850.8	0.412	na	58.3
1998-99	77.55	0.6257	1.181	784.1	0.381	na	56.0
1999-00	67.88	0.6295	1.248	726.1	0.395	0.628	55.2
2000-01	61.42	0.5391	1.266	653.2	0.371	0.604	50.3
2001-02	65.90	0.5238	1.215	677.2	0.363	0.585	50.6
2002-03	69.75	0.5838	1.121	705.2	0.368	0.558	53.4
2003-04	78.56	0.7113	1.130	841.0	0.409	0.597	61.4
2004-05	80.14	0.7513	1.077	807.4	0.404	0.590	62.7
2005-06	85.45	0.7457	1.113	753.7	0.418	0.610	63.3
2006-07	92.72	0.7840	1.144	749.2	0.405	0.599	64.8
2007-08	98.58	0.8958	1.165	858.6	0.447	0.608	69.7

a Period average. As at 2 October 2007, the five most important currencies and their weights in the trade weighted index for the Australian dollar were the Japanese yen (16.33 per cent), European Euro (12.20 per cent), Chinese renminbi (13.94 per cent), US dollar (10.98 per cent) and Korean won (6.14 per cent). **b** Average of end-of-month data. **c** Base: May 1970=100. Period average. **na** Not available.

Sources: ABS, *Average Monthly Exchange Rates*, cat. no. 5654.0, Canberra; Reserve Bank of Australia, *Bulletin*, Sydney.

12 Exchange rates of selected countries a

					Real effective exchange rates b		
	Australia	Japan	Euro	United Kingdom	United States	Japan	Germany
	A$/US$	¥/US$	€/US$	£/US$			
1962	0.8923	360.00	na	0.3568	na	na	na
1963	0.8948	360.00	na	0.3576	na	na	na
1964	0.8973	360.00	na	0.3584	na	na	na
1965	0.8961	360.00	na	0.3568	na	na	na
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	350.68	na	0.3918	na	na	na
1972	0.8389	303.17	na	0.4259	na	na	na
1973	0.7027	271.70	na	0.4304	na	na	na
1974	0.6938	292.08	na	0.4258	na	na	na
1975	0.7636	296.79	na	0.4942	117.6	88.0	80.1
1976	0.8163	296.55	na	0.5874	120.6	87.1	81.1
1977	0.9016	268.51	na	0.5247	118.6	93.3	85.3
1978	0.8736	210.44	na	0.4915	103.8	76.8	76.5
1979	0.8945	219.14	na	0.4496	102.5	67.7	77.8
1980	0.8772	226.74	na	0.4193	104.3	60.6	76.5
1981	0.8702	220.54	na	0.5241	115.2	65.2	69.4
1982	0.9842	249.08	na	0.6194	127.6	57.6	70.5
1983	1.1094	237.51	na	0.6894	129.3	61.4	72.9
1984	1.1384	237.52	na	0.8647	136.4	62.8	71.8
1985	1.4298	238.54	na	0.6923	141.5	62.3	72.8
1986	1.4972	168.52	na	0.6782	117.0	78.4	81.5
1987	1.4316	144.64	na	0.5343	102.3	82.3	88.4
1988	1.2799	128.15	na	0.5526	96.4	87.5	89.5
1989	1.2663	137.96	na	0.6229	97.4	83.7	89.3
1990	1.2842	144.79	na	0.5187	89.7	75.4	96.3
1991	1.2884	134.71	na	0.5346	87.1	80.9	95.5
1992	1.4189	126.65	na	0.6614	85.3	83.4	100.3
1993	1.4739	111.20	na	0.6751	88.4	99.4	106.6
1994	1.3729	102.21	na	0.6400	86.7	105.5	110.3
1995	1.3555	94.06	na	0.6452	80.0	110.6	119.7
1996	1.2828	108.78	na	0.5889	81.8	94.2	118.6
1997	1.3485	120.99	na	0.6047	86.3	89.7	111.2
1998	1.5935	130.91	na	0.6011	91.6	83.6	108.8
1999	1.5507	113.91	0.939	0.6187	90.6	94.4	106.4
2000	1.7178	107.77	1.085	0.6702	100.0	100.0	100.0
2001	1.9285	121.53	1.118	0.6895	103.6	89.3	100.0
2002	1.8388	125.39	1.063	0.6204	105.2	79.8	99.1
2003	1.5347	115.00	0.880	0.5603	94.8	76.9	101.9
2004	1.3607	108.00	0.800	0.5178	85.4	77.4	100.2
2005	1.3138	110.00	0.800	0.5808	83.8	74.8	98.2
2006	1.3309	116.00	0.790	0.5094	82.1	69.3	97.1
2007	1.1934	118.00	0.730	0.4992	78.6	63.7	97.2

a Period average. **b** The nominal exchange rate, trade weighted against 44 world currencies, adjusted for relative wholesale prices. Base: 2000 = 100. **na** Not available.

Sources: ABS, *Average Monthly Exchange Rates*, cat. no. 5654.0, Canberra; International Monetary Fund, *International Financial Statistics Yearbook*, Washington DC; International Monetary Fund, *International Financial Statistics*

13 Growth of real gross domestic product in selected countries

	Australia	United States	European Union	Japan	OECD a	China b	Korea, Rep. of
	%	%	%	%	%	%	%
1961	0.7	2.3	5.2	11.7	4.4	- 29.7	5.9
1962	6.2	6.1	4.9	8.9	5.1	- 6.5	2.1
1963	6.2	4.4	4.7	8.4	4.8	10.7	9.1
1964	6.8	5.8	5.7	11.4	6.1	16.5	9.7
1965	5.2	6.4	4.2	- 5.1	5.3	16.9	5.7
1966	2.8	6.5	4.1	10.4	5.5	17.0	12.2
1967	6.8	2.5	3.4	10.4	3.7	- 7.2	5.9
1968	5.8	4.8	5.2	12.5	5.4	- 6.5	11.3
1969	6.0	3.1	6.0	12.1	5.1	19.3	13.8
1970	6.5	0.2	5.1	9.4	3.5	23.3	8.8
1971	4.7	3.4	3.3	4.3	3.3	7.0	9.2
1972	2.5	5.3	4.5	8.4	5.2	2.9	5.9
1973	5.5	5.8	5.8	7.9	5.8	8.3	14.4
1974	2.6	- 0.5	2.1	- 1.2	0.8	1.1	7.9
1975	2.7	- 0.2	- 0.5	2.6	- 0.1	8.3	7.1
1976	3.9	5.3	4.5	4.8	4.7	- 2.7	12.8
1977	1.3	4.6	2.7	5.3	3.8	7.8	10.1
1978	3.0	5.6	3.0	5.1	3.9	12.3	9.7
1979	5.2	3.2	3.4	5.2	3.7	7.6	7.6
1980	1.9	- 0.2	1.3	3.6	1.2	7.8	- 2.2
1981	3.9	2.5	0.3	3.0	2.0	4.5	6.7
1982	- 0.1	- 1.9	0.9	2.8	- 0.1	8.3	7.3
1983	0.0	4.5	1.8	1.6	3.0	10.4	11.5
1984	6.9	7.2	2.5	3.1	4.9	14.6	8.7
1985	5.1	4.1	2.5	5.1	3.6	16.2	6.5
1986	2.1	3.5	2.7	3.0	3.1	8.9	11.6
1987	4.9	3.4	2.8	3.7	3.6	11.6	11.5
1988	4.5	4.1	4.2	6.8	4.6	11.3	11.3
1989	4.4	3.5	3.6	5.3	3.8	4.1	6.4
1990	1.4	1.9	3.1	5.3	3.1	3.8	7.8
1991	- 0.7	- 0.2	1.8	3.3	1.2	9.2	9.2
1992	2.4	3.3	1.2	1.0	2.1	14.2	5.4
1993	3.8	2.7	- 0.3	0.2	1.4	13.5	5.5
1994	4.7	4.0	2.8	1.1	3.2	12.7	8.3
1995	4.0	2.5	2.5	1.9	2.5	10.5	8.9
1996	4.0	3.7	1.7	3.5	3.0	9.6	7.0
1997	3.6	4.5	2.6	1.8	3.5	8.8	4.7
1998	5.5	4.2	2.9	- 1.0	2.7	7.8	- 6.9
1999	4.5	4.4	2.6	- 0.1	3.1	7.1	9.5
2000	3.2	3.7	3.6	2.4	3.9	8.0	8.5
2001	2.5	0.8	3.3	0.2	0.7	7.5	3.8
2002	3.8	1.6	0.8	- 0.3	1.6	8.3	7.0
2003	3.0	2.7	0.6	1.4	1.7	9.3	3.1
2004	2.3	4.2	1.7	2.3	3.1	10.1	4.6
2005	2.7	3.1	1.6	1.9	2.6	10.4	4.2
2006	2.4	2.9	2.9	2.4	3.1	11.6	5.1
2007	3.9	2.2	3.0	2.1	2.7	11.9	5.0

a Regarded as nineteen countries for all years. **b** Gross national product. Excludes Hong Kong.

Sources: ABS, *Australian National Accounts, National Income, Expenditure and Product,* cat. no. 5206.0, Canberra; Asian Development Bank, *Key Indicators of Developing Asian and Pacific Countries,* Manila; OECD, *Main Economic Indicators,* Paris; International Monetary Fund, *International Financial Statistics Yearbook,* Washington DC.

14 Growth of industrial production in selected countries

	Australia	United States	Japan	Germany a	United Kingdom	OECD	China	Korea, Rep. of
	%	%	%	%	%	%	%	%
1961	- 6.0	0.7	19.5	6.3	0.5	na	- 41.6	5.0
1962	12.2	8.3	8.3	4.2	1.0	6.5	- 15.4	16.7
1963	5.7	5.9	11.3	3.4	3.9	6.2	12.6	14.3
1964	11.2	6.7	15.9	8.3	7.2	7.7	24.6	7.1
1965	4.7	10.0	3.8	5.5	3.0	6.6	27.8	8.3
1966	1.7	8.8	13.2	1.7	1.2	7.1	24.9	23.1
1967	5.6	2.1	19.4	- 2.1	- 0.7	3.7	- 15.7	26.2
1968	5.7	5.6	15.4	12.3	5.1	6.8	- 9.0	31.7
1969	6.6	4.6	16.0	13.1	3.4	8.1	35.9	19.5
1970	4.6	- 3.3	13.8	6.5	0.5	3.1	38.5	11.9
1971	3.9	1.4	2.6	0.9	- 0.6	2.0	13.4	15.2
1972	1.2	7.3	7.2	3.7	1.8	7.1	6.5	14.6
1973	10.2	8.2	15.0	6.4	9.0	9.2	8.7	33.6
1974	3.1	- 0.4	- 4.0	- 1.7	- 2.0	- 0.3	- 0.4	27.4
1975	- 7.6	- 8.9	- 11.0	- 6.2	- 5.4	- 8.1	15.0	19.0
1976	5.1	7.8	11.1	6.7	3.2	8.3	- 3.8	29.8
1977	- 1.6	7.7	4.1	2.6	5.2	4.7	14.8	19.9
1978	1.5	5.5	6.3	- 1.9	2.8	4.1	17.1	22.9
1979	5.2	3.0	7.4	5.0	2.1	4.8	8.1	11.7
1980	0.6	- 2.6	4.7	- 0.0	- 6.9	0.2	10.9	- 1.8
1981	3.0	1.3	1.0	- 1.8	- 4.1	0.5	1.7	12.7
1982	- 0.5	- 5.1	0.3	- 3.3	0.3	- 2.5	6.0	5.0
1983	- 2.9	2.6	3.0	0.7	2.6	1.8	9.9	15.8
1984	6.9	9.1	9.5	3.0	0.6	6.5	14.9	15.0
1985	8.0	1.3	3.7	4.8	5.1	3.0	19.6	4.4
1986	- 0.2	1.0	- 0.2	1.8	2.2	0.9	9.6	20.9
1987	4.8	5.0	3.4	0.4	4.1	3.7	13.0	19.2
1988	5.5	5.0	9.6	3.6	5.2	5.4	17.4	13.3
1989	4.6	0.9	5.9	4.9	2.1	3.3	6.0	3.2
1990	2.4	0.9	4.0	5.2	0.0	1.6	5.5	8.9
1991	- 3.6	- 1.5	1.7	3.5	- 3.3	- 0.4	12.8	9.6
1992	- 0.0	2.8	- 6.1	- 2.4	0.4	- 0.3	21.2	5.9
1993	2.9	3.3	- 3.9	- 7.9	2.2	- 0.5	21.9	4.4
1994	5.0	5.4	1.0	3.2	5.3	4.6	21.4	11.1
1995	1.2	4.9	2.2	0.8	1.8	3.4	16.1	11.9
1996	3.7	4.3	2.3	0.2	1.4	2.5	15.1	8.6
1997	2.0	7.2	3.5	3.1	1.4	4.8	13.2	4.9
1998	3.0	5.8	- 6.5	3.7	0.2	1.8	9.6	- 6.4
1999	3.3	4.3	0.3	1.2	2.2	3.0	9.8	24.5
2000	5.4	4.2	5.4	5.6	1.9	4.9	11.2	16.9
2001	0.1	- 3.4	- 6.3	0.1	- 1.5	- 2.6	9.9	0.6
2002	2.9	- 0.1	- 1.1	- 1.0	- 2.0	- 0.4	12.7	8.0
2003	0.5	1.2	3.3	0.4	- 0.3	0.7	16.7	5.5
2004	0.0	2.5	4.7	3.0	0.8	3.6	16.3	10.4
2005	1.1	3.3	1.4	3.3	- 1.8	2.4	15.9	6.3
2006	- 0.4	2.2	4.3	5.9	- 0.6	3.1	15.4	8.4
2007	3.2	1.7	2.8	6.1	0.3	2.5	na	6.8

a West Germany until 1990; unified Germany from 1991. **na** Not available.

Sources: ABS, *Quarterly Index of Industrial Production,* cat. no. 8125.0, Canberra; International Monetary Fund, *International Financial Statistics*

15 Inflation and interest rates in selected countries

	Inflation rates a			Interest rates b			
				United States		Japan	
	United States	Japan	Total Euro Area c	Short term	Long term	Short term	Long term
	%	%	%	%	%	%	%
1964	1.3	3.8	2.6	3.6	4.2	na	na
1965	1.7	6.6	3.3	3.9	4.3	na	na
1966	3.0	5.1	3.2	4.9	4.9	na	6.9
1967	2.8	4.0	3.1	4.3	5.1	na	6.9
1968	4.2	5.4	4.2	5.3	5.6	na	7.0
1969	5.4	5.2	4.7	6.7	6.7	na	7.1
1970	5.9	7.7	5.6	6.4	7.3	na	7.2
1971	4.3	6.4	5.3	4.3	6.2	na	7.3
1972	3.3	4.8	5.0	4.1	6.2	na	6.7
1973	6.2	11.6	7.8	7.0	6.8	na	7.3
1974	11.0	23.2	13.9	7.9	7.6	na	9.3
1975	9.1	11.8	11.4	5.8	8.0	na	9.2
1976	5.7	9.3	9.0	5.0	7.6	na	8.7
1977	6.5	8.2	10.1	5.3	7.4	na	7.3
1978	7.6	4.2	8.7	7.2	8.4	na	6.1
1979	11.3	3.7	11.1	10.0	9.4	8.1	7.7
1980	13.5	7.8	14.5	11.6	11.5	10.9	9.2
1981	10.3	4.9	11.3	14.1	13.9	7.6	8.7
1982	6.2	2.7	9.6	10.7	13.0	7.0	8.1
1983	3.2	1.9	8.7	8.6	11.1	6.7	7.4
1984	4.3	2.3	7.8	9.6	12.4	6.5	6.8
1985	3.6	2.0	4.9	7.5	10.6	6.6	6.3
1986	1.9	0.6	2.4	6.0	7.7	5.1	4.9
1987	3.7	0.1	2.4	5.8	8.4	4.2	4.2
1988	4.0	0.6	2.7	6.7	8.8	4.5	4.3
1989	4.8	2.3	4.0	8.1	8.5	5.4	5.1
1990	5.4	3.1	4.6	7.5	8.6	7.7	7.4
1991	4.2	3.3	5.0	5.4	7.9	7.4	6.5
1992	3.0	1.7	4.6	3.5	7.0	4.4	4.9
1993	3.0	1.3	4.0	3.0	5.9	2.4	3.7
1994	2.6	0.7	3.2	4.3	7.1	2.2	3.7
1995	2.8	- 0.1	2.9	5.5	6.6	1.2	2.5
1996	2.9	0.1	2.2	5.0	6.4	0.6	2.2
1997	2.3	1.8	1.6	5.1	6.4	0.6	1.7
1998	1.6	0.7	1.1	4.8	5.3	0.7	1.1
1999	2.2	- 0.3	1.1	4.7	5.6	0.2	1.8
2000	3.4	- 0.7	2.3	5.8	6.0	0.2	1.7
2001	2.8	- 0.8	2.1	3.5	5.0	0.0	1.3
2002	1.6	- 0.9	2.2	1.6	4.6	0.0	1.3
2003	2.3	- 0.2	2.1	1.0	4.0	0.0	1.0
2004	2.7	- 0.0	2.1	1.4	4.3	0.0	1.5
2005	3.4	- 0.3	2.2	3.2	4.3	0.0	1.4
2006	3.2	0.2	na	4.7	4.8	0.4	1.7
2007	2.9	0.2	na	4.4	4.6	0.7	1.7

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 average government bond yield. **c** Prior to 1985 based on total OECD statistical definition. Post 1985 based on Euro area statistical definition. **na** Not available.

Sources: International Monetary Fund, *International Financial Statistics Yearbook,* Washington DC; OECD, *Main Economic Indicators,* Paris.

16 Population in selected countries and regions a

	Australia	United States	European Union b	Japan	China	Other East Asia c	India	World
	million	million	million	million	million	million	million	million
1962	10.8	191.8	380.5	95.9	682.4	195.3	464.2	3 102.9
1963	11.0	194.4	384.0	96.9	696.6	200.4	473.8	3 164.0
1964	11.3	197.0	387.3	97.9	712.1	205.6	483.7	3 227.0
1965	11.5	199.4	390.4	98.9	729.2	211.0	493.9	3 292.0
1966	11.8	201.7	393.3	99.9	747.8	216.4	504.3	3 358.8
1967	12.0	203.9	395.9	100.9	767.7	222.0	515.1	3 427.3
1968	12.3	206.0	398.3	101.9	788.5	227.6	526.1	3 497.4
1969	12.5	208.1	400.6	103.1	809.7	233.3	537.6	3 568.7
1970	12.7	210.1	402.9	104.3	830.7	239.2	549.3	3 641.0
1971	12.9	212.1	405.2	105.7	851.4	245.1	561.4	3 714.2
1972	13.1	214.1	407.5	107.2	871.8	251.1	573.9	3 788.3
1973	13.3	216.1	409.7	108.7	891.6	257.2	586.8	3 862.7
1974	13.4	218.1	411.8	110.2	910.3	263.3	600.0	3 937.1
1975	13.6	220.2	413.8	111.5	927.8	269.4	613.8	4 011.0
1976	13.8	222.2	415.7	112.8	943.9	275.5	627.9	4 084.3
1977	14.0	224.3	417.5	113.9	958.6	281.7	642.6	4 157.1
1978	14.2	226.5	419.2	114.9	972.4	287.9	657.6	4 229.9
1979	14.4	228.7	420.7	115.9	985.7	294.1	672.9	4 303.8
1980	14.6	230.9	422.1	116.8	998.9	300.3	688.6	4 379.1
1981	15.1	233.2	423.3	117.7	1 012.0	306.6	704.5	4 456.1
1982	15.3	235.6	424.3	118.6	1 025.0	312.9	720.7	4 534.5
1983	15.5	238.1	425.2	119.4	1 038.2	319.2	737.3	4 614.5
1984	15.7	240.6	426.2	120.1	1 052.1	325.4	754.1	4 696.2
1985	15.9	243.1	427.3	120.8	1 066.9	331.7	771.1	4 779.7
1986	16.1	245.6	428.4	121.5	1 082.8	337.9	788.4	4 865.0
1987	16.4	248.2	429.7	122.1	1 099.5	344.0	806.0	4 952.0
1988	16.7	250.8	431.0	122.6	1 116.7	350.2	823.8	5 039.7
1989	16.9	253.4	432.5	123.1	1 133.4	356.3	841.9	5 127.1
1990	17.2	256.1	434.0	123.5	1 149.1	362.4	860.2	5 213.5
1991	17.4	258.9	435.6	124.0	1 163.6	368.4	878.8	5 289.1
1992	17.6	261.7	437.3	124.4	1 177.0	374.5	897.6	5 379.9
1993	17.8	264.5	439.0	124.8	1 189.6	380.5	916.5	5 464.2
1994	18.0	267.4	440.5	125.1	1 201.7	386.6	935.5	5 545.8
1995	18.2	270.2	441.8	125.5	1 213.7	392.6	954.3	5 627.1
1996	18.4	273.1	442.9	125.8	1 225.7	398.6	973.0	5 707.9
1997	18.6	276.0	443.7	126.2	1 237.4	404.7	991.5	5 788.2
1998	18.8	279.0	444.5	126.5	1 248.9	410.7	1 009.9	5 867.9
1999	19.0	281.9	445.4	126.8	1 259.7	416.7	1 028.2	5 946.9
2000	19.3	284.9	446.6	127.0	1 270.0	422.6	1 046.2	6 025.0
2001	19.5	287.8	448.2	127.3	1 279.5	428.5	1 064.2	6 102.2
2002	19.8	290.8	450.0	127.5	1 288.4	434.3	1 081.9	6 178.7
2003	20.0	293.8	452.0	127.7	1 296.8	440.1	1 099.5	6 254.7
2004	20.3	296.8	453.9	127.8	1 305.0	445.8	1 117.0	6 330.5
2005	20.5	299.8	455.7	127.9	1 313.0	451.5	1 134.4	6 406.5
2006	20.8	302.8	457.1	128.0	1 320.9	457.1	1 151.8	6 477.0
2007	21.2	305.8	458.3	128.0	1 328.6	462.7	1 169.0	6 553.2

a Midyear. **b** Regarded as twenty five countries for all years. **c** Chinese Taipei, Indonesia, Malaysia, the Philippines, Republic of Korea, Singapore, Thailand.

Sources: ABS, *Estimated Resident Population by Sex and Age: States and Territories of Australia,* cat. no. 3201.0, Canberra; Asian Development Bank, *Key*

17 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 ab	Index of prices received c	Index of prices paid c	Farmers' terms of trade cd	Consumer price index b
1967-68	3 342	2 472	870	189	26.7	13.5	198.5	10.1
1968-69	3 947	2 673	1 274	272	26.0	13.5	193.4	10.3
1969-70	3 732	2 668	1 064	218	25.4	13.5	188.4	10.7
1970-71	3 569	2 713	856	166	23.9	13.9	171.6	11.2
1971-72	3 971	2 793	1 178	216	26.0	14.9	175.3	11.9
1972-73	4 962	3 103	1 859	324	35.6	16.2	219.9	12.7
1973-74	6 412	3 594	2 818	438	43.1	18.4	234.3	14.3
1974-75	5 874	4 196	1 678	221	36.9	23.4	158.0	16.7
1975-76	6 170	4 832	1 338	156	39.0	27.0	144.3	18.8
1976-77	6 755	5 278	1 477	150	42.5	30.1	141.1	21.5
1977-78	6 984	5 742	1 242	115	44.5	33.3	133.8	23.5
1978-79	10 204	6 629	3 575	316	54.0	35.5	152.1	25.4
1979-80	11 764	7 761	4 003	316	64.3	39.5	162.7	28.0
1980-81	11 580	8 739	2 841	205	68.4	44.9	152.2	30.6
1981-82	12 704	10 205	2 499	162	67.7	49.9	135.7	33.8
1982-83	11 708	11 403	305	14	71.1	55.3	128.6	37.7
1983-84	15 396	12 255	3 141	177	74.6	59.8	124.8	40.3
1984-85	15 377	12 896	2 481	138	76.6	63.4	121.0	42.0
1985-86	15 381	14 051	1 330	70	76.6	68.3	112.2	45.5
1986-87	17 282	15 386	1 896	77	82.8	74.2	111.5	49.8
1987-88	19 962	16 727	3 235	139	99.5	77.4	128.5	53.4
1988-89	22 846	18 330	4 516	187	112.4	84.4	133.2	57.4
1989-90	23 591	20 008	3 583	136	109.3	90.1	121.3	62.0
1990-91	21 207	20 168	1 039	31	93.6	90.9	102.9	65.2
1991-92	21 168	19 392	1 776	47	94.5	90.8	104.1	66.5
1992-93	22 709	19 340	3 370	89	93.7	89.5	104.7	67.2
1993-94	24 516	20 187	4 329	109	97.4	91.1	106.8	68.4
1994-95	24 035	21 708	2 327	72	112.0	95.0	118.0	70.6
1995-96	27 785	22 913	4 872	144	111.2	99.5	111.8	73.6
1996-97	28 718	23 910	4 808	147	101.6	99.4	102.2	74.5
1997-98	28 820	23 885	4 935	144	100.0	100.0	100.0	74.5
1998-99	29 159	24 511	4 648	135	96.1	100.6	95.6	75.5
1999-00	30 775	25 223	5 552	149	96.3	104.7	92.0	77.3
2000-01	34 779	26 657	8 123	217	108.5	110.1	98.5	81.9
2001-02	39 906	27 258	12 648	297	122.6	112.9	108.6	84.2
2002-03	33 235	27 766	5 469	115	122.7	121.5	101.0	86.8
2003-04	37 371	28 991	8 380	171	116.8	123.0	95.0	88.9
2004-05	36 537	29 243	7 294	137	115.9	126.3	91.7	91.1
2005-06	38 547	31 276	7 271	100	117.7	129.4	91.0	94.0
2006-07	35 918	31 339	4 578	131	127.8	135.8	94.1	96.7
2007-08	41 206	35 881	5 324	na	140.5	151.6	92.6	100.0

a Obtained by deflating the net value of farm production by the consumer price index. **b** base year 2007-08 = 100. **c** 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. **d** Ratio of index of prices received by farmers to index of prices paid by farmers.

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; ABARE.

18 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
1964-65	34.6	30.4	31.4	47.0	87.2	64.1	45.3
1965-66	25.8	29.7	27.1	45.1	84.2	61.0	41.9
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	116.8	116.9	110.7	106.5	109.1	113.4
2001-02	130.1	115.5	121.7	108.0	106.9	107.6	115.2
2002-03	59.2	96.6	78.0	109.8	94.7	103.8	90.6
2003-04	138.6	102.6	116.7	104.4	92.4	99.6	108.6
2004-05	113.2	111.7	111.3	109.3	93.3	103.1	107.8
2005-06	133.1	112.1	119.7	108.5	94.6	103.0	111.7
2006-07	58.2	105.1	84.3	115.5	89.5	105.5	95.2
2007-08	77.0	108.6	95.5	113.9	83.6	102.0	99.3

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; ABARE.

19 Gross value of Australian farm production

	Crops			Livestock			
	Grains and oilseeds	Other crops	Total crops	Livestock slaughterings	Livestock products	Total livestock	Total farm
	$m	$m	$m	$m	$m	$m	$m
1961-62	492	516	1 008	551	1 174	1 726	2 734
1962-63	580	557	1 136	634	1 242	1 876	3 013
1963-64	603	625	1 228	702	1 495	2 196	3 424
1964-65	662	656	1 319	806	1 324	2 131	3 450
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	3 240	6 692	11 708
1983-84	5 188	3 239	8 426	3 484	3 485	6 969	15 396
1984-85	4 785	3 083	7 867	3 725	3 784	7 510	15 377
1985-86	4 074	3 278	7 352	3 903	4 125	8 028	15 381
1986-87	3 748	3 987	7 735	4 633	4 915	9 547	17 282
1987-88	3 520	4 119	7 639	5 077	7 247	12 324	19 962
1988-89	4 685	4 959	9 643	5 308	7 894	13 203	22 846
1989-90	4 462	5 455	9 917	5 867	7 806	13 673	23 591
1990-91	3 467	5 654	9 121	5 732	6 354	12 086	21 207
1991-92	4 021	6 143	10 164	5 751	5 253	11 004	21 168
1992-93	4 621	6 836	11 457	6 046	5 207	11 252	22 709
1993-94	5 157	7 317	12 474	6 874	5 167	12 041	24 516
1994-95	3 997	7 362	11 359	6 680	5 995	12 676	24 035
1995-96	7 470	8 177	15 647	6 431	5 707	12 138	27 785
1996-97	8 133	8 455	16 588	6 376	5 754	12 130	28 718
1997-98	6 715	9 155	15 870	6 992	5 958	12 950	28 820
1998-99	7 134	9 357	16 491	7 256	5 412	12 667	29 159
1999-00	8 082	9 269	17 351	7 944	5 481	13 425	30 775
2000-01	8 701	10 358	19 059	9 738	5 983	15 721	34 779
2001-02	10 875	10 738	21 613	11 434	6 859	18 293	39 906
2002-03	5 449	10 605	16 054	10 676	6 505	17 181	33 235
2003-04	9 837	11 001	20 838	10 896	5 637	16 533	37 371
2004-05	7 364	11 353	18 717	12 033	5 788	17 820	36 537
2005-06	8 824	11 928	20 752	11 960	5 836	17 796	38 547
2006-07	5 080	12 585	17 665	12 336	5 917	18 253	35 918
2007-08	9 012	12 348	21 360	12 112	7 734	19 846	41 206

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; ABARE.

20 Value of Australian agricultural exports (fob)

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Grains and oilseeds								
Wheat (including flour)	4 197	4 612	3 109	3 475	3 488	3 296	2 765	2 997
Barley (including malt)	1 101	1 278	955	1 239	1 275	1 108	833	1 496
Oats	22	37	44	38	36	47	20	37
Sorghum	59	109	17	61	96	33	13	76
Rice	369	354	371	145	173	171	348	86
Lupins	166	109	57	148	89	99	38	48
Peas **a**	112	157	43	56	33	43	80	61
Chickpeas	113	167	52	71	65	106	168	139
Canola	544	572	289	453	397	331	108	303
Cottonseed	138	148	82	62	55	53	31	8
Other oilseeds **b**	28	20	21	26	33	21	22	27
Total	6 849	7 564	5 040	5 773	5 739	5 308	4 426	5 278
Industrial crops								
Raw cotton **c**	1 958	1 547	1 153	982	771	1 137	823	466
Sugar	1 178	1 430	1 220	982	1 098	1 454	1 510	956
Wine	1 614	1 970	2 386	2 545	2 748	2 799	2 988	2 657
Total	4 751	4 948	4 759	4 509	4 617	5 391	5 321	4 078
Other crops	3 220	3 575	3 499	3 213	3 322	3 270	3 226	3 623
Total crops	14 819	16 087	13 299	13 496	13 679	13 968	12 974	12 979
Meat and live animals for slaughter								
Beef and veal	4 007	4 189	3 756	3 793	4 584	4 272	4 634	4 190
Live cattle	482	526	569	318	374	358	437	451
Mutton	416	492	442	380	398	432	458	443
Lamb	504	577	533	602	673	767	748	803
Live sheep	258	392	408	266	207	291	289	286
Pig meat	186	265	256	181	150	143	142	128
Poultry meat	26	26	22	20	20	21	26	32
Canned meat	50	76	49	12	12	12	12	7
Total	5 878	6 467	5 987	5 560	6 405	6 284	6 734	6 333
Wool								
Greasy **d**	2 310	2 270	2 265	1 850	1 994	1 868	2 316	2 122
Semiprocessed	1 289	1 119	991	632	505	389	393	362
Skins	298	297	288	296	339	287	356	319
Total **d**	3 897	3 687	3 545	2 778	2 838	2 544	3 065	2 803
Dairy products								
Butter	291	297	224	183	188	225	179	195
Cheese	951	1 035	800	739	877	837	824	968
Casein	100	123	128	123	116	89	113	125
Skim milk powder	694	698	408	388	420	529	505	533
Wholemilk powder	580	571	380	322	324	334	275	392
Other dairy products	459	553	555	534	559	556	542	550
Total	3 076	3 277	2 496	2 288	2 485	2 569	2 438	2 763
Other livestock exports	2 405	2 409	2 535	2 419	2 496	2 436	2 577	2 611
Total livestock exports	15 256	15 840	14 563	13 045	14 223	13 833	14 815	14 510
Total farm exports	30 076	31 927	27 862	26 540	27 902	27 802	27 789	27 489

Continued

20 Value of Australian agricultural exports (fob) continued

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Africa								
Egypt	543	721	333	657	229	474	151	175
South Africa	200	138	134	128	124	122	130	105
Other	549	685	441	389	391	439	343	351
Total	1 292	1 544	908	1 174	743	1 034	624	631
Americas								
United States	2 891	3 338	2 954	3 021	3 134	2 996	2 948	2 508
Canada	545	488	519	384	494	537	444	421
Other	428	426	369	377	262	302	231	265
Total	3 864	4 252	3 843	3 781	3 890	3 835	3 623	3 194
North Asia								
China	2 193	2 340	2 138	2 224	2 749	3 108	3 064	2 873
Chinese Taipei	806	782	763	677	708	758	638	504
Japan	4 890	4 404	4 022	4 416	5 373	5 110	4 676	4 275
Korea, Rep. of	1 441	1 401	1 321	1 299	1 690	1 841	1 982	1 633
Other	598	628	536	225	365	400	355	401
Total	9 928	9 555	8 781	8 840	10 884	11 216	10 716	9 686
South East Asia								
Indonesia	1 566	1 610	1 472	1 424	1 517	1 546	1 690	1 556
Malaysia	1 076	781	629	858	1 001	1 009	836	650
Phillipines	697	633	536	393	359	280	235	243
Singapore	585	630	565	464	547	514	548	591
Thailand	672	600	551	511	499	550	474	351
Other	294	297	247	215	257	248	301	142
Total	4 890	4 550	4 001	3 865	4 179	4 146	4 084	3 532
South Asia	1 215	1 230	652	774	815	733	1 058	628
Middle East	2 898	3 276	2 085	2 140	1 960	2 213	1 610	2 069
Europe								
European Union **e**	3 391	3 070	2 880	2 646	2 653	2 515	2 411	2 448
Russian Federation	74	88	66	76	116	189	207	367
Other	12	17	58	34	55	50	13	21
Total	3 477	3 175	3 003	2 756	2 824	2 753	2 631	2 835
Oceania	1 170	1 260	1 349	1 296	1 419	1 446	1 561	1 632
New Zealand	815	900	982	972	1 073	1 113	1 196	1 247
Other **f**	1 342	3 086	3 240	1 913	1 188	424	1 882	3 281
Total	30 076	31 927	27 862	26 540	27 902	27 802	27 789	27 489

22 Indexes of prices received by farmers in Australia

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
Crops sector									
Grains and oilseeds									
Wheat	69.0	103.8	93.4	88.3	124.9	136.3	107.5	100.0	94.5
Barley	75.3	86.2	92.8	79.0	135.1	143.7	116.6	100.0	87.7
Sorghum	80.3	83.7	94.1	85.9	112.3	119.0	106.7	100.0	88.1
Oats	72.1	78.8	78.9	65.6	131.3	112.9	100.3	100.0	63.7
Lupins	115.0	88.8	106.1	96.2	95.3	106.7	111.8	100.0	72.9
Canola	62.3	61.8	69.7	77.3	80.0	81.4	75.6	100.0	98.7
Total	75.7	95.3	94.2	89.9	120.9	126.1	105.1	100.0	92.0
Cotton	104.6	88.3	91.8	98.6	123.5	121.3	103.1	100.0	88.4
Sugar	102.6	90.4	89.6	102.8	112.7	110.2	100.0	100.0	93.2
Hay	95.1	95.6	77.3	78.3	108.8	102.3	93.6	100.0	98.4
Fruit	90.6	95.1	85.4	87.0	101.1	103.0	109.6	100.0	108.7
Wine grapes	46.7	53.8	52.5	58.0	72.8	82.4	88.5	100.0	109.7
Vegetables	86.5	89.8	94.3	100.6	115.1	115.2	100.9	100.0	108.2
Total crops sectors	84.9	93.4	91.9	92.5	115.2	118.2	104.1	100.0	96.9
Livestock sector									
Livestock for slaughter									
Cattle	123.2	117.9	117.0	134.1	126.1	104.9	93.0	100.0	105.6
Lambs	52.8	58.4	85.2	97.6	89.9	116.9	121.4	100.0	101.9
Sheep	8.8	21.4	39.0	48.4	58.3	85.9	85.0	100.0	83.7
Live sheep for export	34.7	47.8	55.7	66.8	82.8	98.5	92.7	100.0	94.0
Pigs	114.0	101.0	98.4	95.3	96.4	122.4	123.2	100.0	94.2
Poultry	100.7	93.6	97.7	101.7	98.2	99.6	107.2	100.0	94.1
Total	102.9	99.1	102.4	113.9	109.9	106.5	101.0	100.0	100.9
Livestock products									
Wool	99.7	86.7	75.1	75.2	115.4	93.3	91.9	100.0	79.2
Milk	90.7	93.2	102.3	99.2	96.5	108.2	103.4	100.0	95.5
Eggs	96.4	92.0	95.3	91.4	88.6	101.7	105.2	100.0	85.3
Honey	71.1	80.8	82.3	76.8	81.7	90.2	101.6	100.0	101.1
Total	98.1	90.6	87.4	86.1	105.8	100.8	98.1	100.0	87.5
Store and breeding stock	82.0	79.7	78.8	95.0	96.7	96.1	89.4	100.0	100.9
Total livestock sector	99.1	93.7	93.6	99.9	107.0	103.2	98.8	100.0	95.2
Total prices received	93.6	94.5	93.7	97.4	112.0	111.2	101.6	100.0	96.1

Continued

22 Indexes of prices received by farmers in Australia continued

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Crops sector									
Grains and oilseeds									
Wheat	98.7	117.4	132.3	134.4	109.1	99.6	102.5	122.4	200.2
Barley	107.9	125.1	130.8	159.9	105.9	100.1	93.9	153.3	167.7
Sorghum	72.6	85.1	102.2	120.9	93.8	79.4	84.6	126.1	111.6
Oats	77.5	96.5	128.2	160.3	101.1	98.1	107.8	176.6	148.5
Lupins	74.3	104.9	127.7	149.0	120.4	105.2	99.8	135.8	137.1
Canola	80.1	79.6	99.7	100.9	104.4	84.5	86.5	102.8	136.8
Total	94.5	108.7	123.7	134.0	105.2	95.8	97.2	126.9	172.2
Cotton	97.4	106.1	92.7	100.1	88.2	87.0	85.0	86.2	93.6
Sugar	72.2	70.4	88.5	83.2	76.3	84.1	90.9	105.0	87.4
Hay	100.0	110.7	104.2	155.0	125.0	128.0	143.7	151.8	165.1
Fruit	100.0	102.0	117.8	108.9	123.9	114.3	127.6	169.8	136.9
Wine grapes	99.3	108.7	110.2	100.5	100.8	88.2	76.5	79.8	85.2
Vegetables	100.4	107.5	104.3	123.8	124.6	122.2	137.3	145.0	157.7
Total crops sectors	94.9	104.7	113.6	118.8	106.7	99.9	103.3	123.2	133.4
Livestock sector									
Livestock for slaughter									
Cattle	119.3	144.2	167.7	145.0	160.4	177.2	181.3	174.3	170.3
Lambs	94.8	104.1	167.2	176.7	190.1	184.5	177.7	165.7	164.0
Sheep	69.5	117.9	204.7	185.4	230.3	196.1	202.7	156.4	178.9
Live sheep for export	95.3	111.4	156.1	179.3	178.0	164.1	176.1	179.1	180.7
Pigs	110.2	113.7	123.6	109.7	109.4	117.8	115.6	124.8	117.8
Poultry	90.2	90.1	93.0	98.5	97.7	91.9	83.5	84.5	93.0
Total	108.4	126.0	151.5	139.1	149.2	157.4	157.5	152.6	151.5
Livestock products									
Wool	81.4	98.3	113.9	153.2	116.5	107.4	97.7	115.5	153.9
Milk	87.9	97.0	110.5	90.7	93.4	105.7	111.0	111.1	166.2
Eggs	84.0	79.1	82.8	92.4	89.2	85.4	86.3	95.2	100.3
Honey	94.3	94.3	115.0	130.5	131.3	129.4	134.5	139.9	145.5
Total	84.5	95.8	109.3	114.3	101.6	104.6	104.0	111.5	155.7
Store and breeding stock	105.0	126.0	151.5	139.1	149.3	157.4	157.6	152.6	151.5
Total livestock sector	97.9	113.1	133.5	128.2	129.3	135.4	135.2	135.1	150.2
Total prices received	96.3	108.5	122.6	122.7	116.8	115.9	117.7	127.8	140.5

Note: ABARE revised the method for calculating these indexes in October 1999. The indexes for commodity groups are now 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: ABARE.

23 Farm land use and livestock numbers in Australia

	Area used for a		Total	Livestock numbers b		
	Wheat	Other crops c	area of farms	Beef cattle	Dairy cattle	Sheep
	million ha	million ha	million ha	million	million	million
1968-69	10.8	3.5	490.6	15.93	4.09	168.95
1969-70	9.5	3.7	494.7	17.54	4.01	174.26
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	115.46
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	10.3	434.9	25.61	2.79	91.03
2006-07	11.8	9.8	425.4	25.37	2.66	85.71
2007-08	12.7	11.4	na	25.28	2.57	79.23

a Year ended 31 March. From 1999-00, year ended 30 June. Details for establishments with estimated value of agricultural operations (EVAO) of $2 500 or more until 1985-86; EVAO of $5 000 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 $5 000 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 $2 500 or more. From 1987, the EVAO has been raised to $5 000. **c** Includes barley, canola, chickpeas, fiels 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; ABARE.

24 Number of agricultural estalishments and rural employment in Australia

	Agricultural establishments a	Rural employment b: Employers and self-employed	Wage and salary earners	Contributing family workers	Total
	no.	'000	'000	'000	'000
1965-66	199 750	na	na	na	na
1966-67	198 400	251.9	139.4	25.7	417.0
1967-68	197 050	250.0	143.0	23.2	416.1
1968-69	195 700	242.4	142.2	25.4	409.9
1969-70	192 550	237.7	146.9	21.8	406.4
1970-71	189 400	243.0	148.9	22.8	414.6
1971-72	187 650	239.6	144.8	22.8	407.1
1972-73	185 900	236.0	143.3	22.1	401.4
1973-74	184 150	238.3	136.9	16.0	391.2
1974-75	182 250	238.7	127.0	16.1	381.9
1975-76	180 411	243.4	118.5	16.7	378.6
1976-77	173 625	248.3	107.1	17.6	373.0
1977-78	176 155	237.0	107.1	19.8	363.9
1978-79	177 218	233.1	113.9	14.1	361.1
1979-80	179 084	239.5	124.4	14.7	378.6
1980-81	175 756	243.9	124.9	13.6	382.4
1981-82	174 466	236.0	132.1	11.9	379.9
1982-83	178 025	253.4	120.6	16.8	390.8
1983-84	175 412	249.0	121.5	12.2	382.6
1984-85	173 061	248.1	116.8	11.2	376.0
1985-86	171 180	261.3	124.9	18.4	404.6
1986-87	169 568	250.1	118.6	25.4	394.1
1987-88	168 339	242.0	122.3	26.8	391.1
1988-89	167 934	245.9	133.1	25.5	404.5
1989-90	163 416	236.2	149.4	16.9	402.5
1990-91	158 898	238.3	143.4	26.8	408.5
1991-92	154 380	230.4	128.8	23.8	383.0
1992-93	151 966	227.7	122.4	27.2	377.2
1993-94	150 389	227.5	128.7	26.8	383.0
1994-95	147 115	228.2	148.3	26.8	403.3
1995-96	146 612	228.2	163.7	26.6	418.4
1996-97	145 083	225.6	171.0	25.3	421.9
1997-98	144 836	236.0	174.5	20.3	430.8
1998-99	145 226	214.4	188.6	18.7	421.7
1999-00	146 371	221.3	195.4	23.3	440.0
2000-01	140 516	212.0	201.1	22.2	435.2
2001-02	135 377	213.7	216.2	13.0	442.9
2002-03	132 983	181.4	183.3	10.2	374.9
2003-04	130 526	174.5	189.1	9.7	373.2
2004-05	129 934	168.6	185.3	10.0	363.8
2005-06	154 472	163.8	180.1	10.1	354.0
2006-07	150 403	168.3	181.3	7.1	356.7
2007-08	na	173.9	178.4	7.5	359.8

a Represents total establishments engaged in agricultural activities. **b** Census date is at 30 June from 2000 onwards. Prior to 2000 the census date was 31 March. Average over four quarters. Before 1994-95, the data represents agriculture and services to agriculture. From 1994-95 onwards, the data represents agriculture, forestry, fishing and hunting, and services to these industries. **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. 6291.0.55.001, 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; ABARE.

25 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	934	2 270	5 984	4 053	16 069
1989-90	3 288	1 104	2 936	3 753	4 484	15 565
1990-91	2 436	948	3 173	2 887	4 897	14 341
1991-92	2 352	747	3 434	3 829	5 657	16 019
1992-93	2 954	1 072	3 750	3 367	6 450	17 593
1993-94	3 205	1 315	4 043	3 369	7 087	19 019
1994-95	2 523	1 730	3 654	4 216	7 529	19 652
1995-96	4 926	1 712	3 292	3 664	8 428	22 022
1996-97	5 954	1 694	2 957	3 744	9 339	23 688
1997-98	5 094	1 939	3 731	4 020	10 472	25 256
1998-99	5 046	1 472	4 008	2 583	11 572	24 681
1999-00	4 941	1 229	4 467	2 963	13 084	26 684
2000-01	5 937	1 330	5 796	3 897	15 677	32 637
2001-02	6 481	1 610	6 246	3 687	16 254	34 278
2002-03	4 487	1 363	5 655	3 545	14 813	29 863
2003-04	5 093	1 123	5 758	2 778	14 128	28 880
2004-05	5 159	1 292	6 937	2 838	14 128	30 354
2005-06	4 852	1 763	6 709	2 544	14 607	30 475
2006-07	4 171	1 673	7 078	3 065	14 460	30 447
2007-08	4 998	1 061	6 548	2 803	14 502	29 913

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.

26 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	13 845	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	14 906	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	35 071	1 431	4 374
1997-98	18 260	31 116	1 335	3 823
1998-99	19 582	34 159	1 741	5 097
1999-00	19 763	36 981	1 591	5 025
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	43 395	1 211	3 679
2004-05	22 444	34 711	1 340	3 887
2005-06	20 728	40 985	1 442	4 369
2006-07	20 117	17 613	912	2 181
2007-08	20 431	22 525	1 063	3 610

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

27 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								
1998-99	'000 ha	4 927	2 454	1 420	7 419	3 376	27	19 582
1999-00	'000 ha	4 955	2 670	1 337	7 464	3 342	25	19 763
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	1 067	7 689	4 034	25	21 982
2004-05	'000 ha	6 456	3 131	878	9 112	4 718	23	22 444
2005-06	'000 ha	5 556	2 907	967	7 390	3 882	24	20 728
2006-07	'000 ha	5 603	3 041	792	6 471	4 141	21	20 117
2007-08	'000 ha	6 115	3 212	748	6 255	4 073	30	20 431
Production								
1998-99	Kt	9 718	3 495	2 322	12 232	6 305	74	34 159
1999-00	Kt	11 495	5 139	2 222	13 311	4 751	61	36 981
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	7 450	70	43 395
2004-05	Kt	10 724	4 203	1 383	12 472	5 849	77	34 711
2005-06	Kt	11 867	6 170	1 426	13 922	7 518	82	40 985
2006-07	Kt	3 840	1 788	907	8 253	2 793	40	17 613
2007-08	Kt	3 145	3 893	1 160	8 865	4 911	85	22 525
Summer b								
Area								
1998-99	'000 ha	885	3	721	3	2	2	1 741
1999-00	'000 ha	742	3	771	3	0	0	1 591
2000-01	'000 ha	825	4	816	3	0	0	1 761
2001-02	'000 ha	777	3	794	1	1	0	1 633
2002-03	'000 ha	509	1	521	1	0	0	1 097
2003-04	'000 ha	436	4	708	2	0	0	1 211
2004-05	'000 ha	493	2	773	1	0	0	1 340
2005-06	'000 ha	760	2	615	4	0	0	1 442
2006-07	'000 ha	332	2	520	1	0	0	912
2007-08	'000 ha	349	4	640	4	0	0	1 063
Production								
1998-99	Kt	3 228	8	1 712	10	0	2	5 097
1999-00	Kt	2 882	8	2 031	2	0	0	5 025
2000-01	Kt	3 366	14	1 786	4	0	0	5 286
2001-02	Kt	3 146	14	1 772	0	0	0	4 933
2002-03	Kt	1 582	8	1 199	0	0	0	2 868
2003-04	Kt	1 766	10	1 806	1	0	0	3 679
2004-05	Kt	1 984	3	1 788	0	0	0	3 887
2005-06	Kt	2 765	8	1 512	9	1	0	4 369
2006-07	Kt	1 036	3	1 079	1	0	0	2 181
2007-08	Kt	1 440	11	2 046	8	0	0	3 610

a Includes lentils, lupins, chickpeas, faba beans, field peas, canola, linseed, safflower, wheat, barley, oats and triticale. **b** Includes 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; ABARE.

28 Summary of operations of mineral resource establishments a

	Number of establishments at 30 June	Employment at 30 June b	Wages and salaries c	Turnover	Stocks Opening	Stocks Closing	Purchases, transfers in and selected expenses	Value added
	no.	no.	$m	$m	$m	$m	$m	$m
Mining d								
1975-76	1 271	67 609	783	4 257	346	479	1 340	3 050
1976-77	1 277	67 888	928	5 062	473	548	1 589	3 548
1977-78	1 352	66 312	1 018	5 777	579	639	1 962	3 875
1978-79	1 368	66 563	1 096	6 561	643	654	2 166	4 407
1979-80	1 448	73 805	1 286	8 042	651	795	2 702	5 484
1980-81	1 514	80 033	1 594	9 329	806	1 064	3 364	6 224
1981-82	1 490	79 745	1 882	10 199	1 075	1 350	3 776	6 698
1982-83	1 542	77 755	2 063	11 901	1 333	1 710	4 169	8 109
1983-84	1 630	77 926	2 129	13 524	1 699	1 700	4 700	8 825
1984-85	1 649	78 063	2 307	16 291	1 786	1 716	5 611	10 610
1985-86	1 528	78 945	2 573	19 618	1 656	1 818	6 824	12 956
1986-87	1 451	78 233	2 772	19 257	1 829	2 285	6 798	12 914
1987-88	1 475	76 753	2 883	20 912	2 246	2 166	7 226	13 606
1988-89	375	64 746	2 690	20 830	2 052	2 017	6 640	14 155
1989-90	1 313	78 373	3 504	26 573	2 205	2 581	8 789	18 160
1990-91	527	65 776	3 550	28 899	2 435	2 606	8 907	20 164
1991-92	499	61 348	3 567	28 371	2 496	2 580	9 313	19 143
1992-93	1 095	66 462	3 820	31 507	2 903	2 870	10 381	21 093
1993-94	516	56 465	3 627	29 018	2 614	2 517	9 989	18 933
1994-95	499	55 014	3 594	28 882	2 508	2 517	10 219	18 654
1995-96	511	56 529	3 882	31 014	2 761	2 501	11 392	19 882
1996-97	503	56 168	4 077	34 234	2 786	3 354	12 380	22 422
1997-98	528	51 048	4 157	37 558	3 353	3 318	13 540	23 770
1998-99	527	45 703	3 910	37 524	3 471	3 296	13 230	24 120
1999-00	529	53 169	4 169	42 632	3 897	4 146	12 705	24 412
2000-01	na	52 854	5 620	55 954	4 008	3 496	na	32 674
2001-02	na	57 706	6 094	59 604	3 603	4 309	na	35 364
2002-03	na	61 034	6 607	62 794	4 171	4 264	na	37 021
2003-04	na	64 259	7 031	61 099	4 170	4 358	na	34 759
2004-05	na	69 126	7 826	71 510	4 094	4 805	na	41 746
2005-06	na	77 810	9 712	96 063	5 153	6 073	na	58 872
2006-07	na	83 072 s	11 769	127 529	6 004	6 979	na	71 770
2007-08	na	na	na	na	na	na	na	na

a From 1992-93, the classification of census units is based on the 1993 edition of the Australian and New Zealand Standard Industrial Classification (ANZSIC). Before 1992-93, classification of census units was based on the Australian Standard Industrial Classification (ASIC); ANZSIC has replaced the following editions of ASIC: the 1983 edition (used since the 1982-83 census), the 1978 edition (used since the 1977-78 census) and the 1969 edition (used since the 1968-69 census). **b** Includes working proprietors. **c** Excludes amounts drawn by working proprietors. **d** Data for 1974-75 to 1987-88 and 1989-90 cover ASIC subdivisions 11–15; data for 1988-89, 1990-91 and 1991-92 cover ASIC subdivisions 11–14; data for 1992-93 cover ANZSIC subdivisions 11–14 (equivalent to ASIC subdivisions 11–15); and data for 1993-94 and 1994-95 cover ANZSIC subdivisions 11–13 (equivalent to ASIC subdivisions 11–14). Data from 1996-97 to 2000-01 based on ABS mining collection, equivalent to ANZSIC subdivisions 11–13. Data from 2001-02 based on ANZSIC subdivisions 11-15. **s** ABARE estimate. **na** Not available.

Sources: ABS, *Manufacturing Industry, Australia,* cat. no. 8201.0, Canberra; ABS, *Manufacturing Establishments, Summary of Operations, Australia,* cat. no. 8202.0, Canberra; ABS, *Manufacturing Industry, Details of Operations, Australia,* cat. no. 8203.0, Canberra; ABS, *Mining, Electricity and Gas Operations, Australia, Preliminary,* cat. no. 8401.0, Canberra; ABS, *Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS,

29 Value of Australian mineral production, exploration expenditure and royalties paid

	Gross value of minerals produced ab						
	Metallics	Coal and petroleum	Construction materials c	Non-metallics	Total	Exploration expenditure de	Mineral royalties f
	$m	$m	$m	$m	$m	$m	$m
1975	1 643	1 583	248	127	3 601	170	155
1976	1 858	2 223	276	179	4 536	156	177
1977	2 162	2 647	269	187	5 265	202	209
1978	2 088	3 001	313	216	5 618	262	223
1979	2 968	4 793	365	237	8 363	345	263
1980	3 540	6 226	448	273	10 487	581	371
1981	3 238	8 022	532	279	12 071	838	402
1982	3 820	8 635	605	288	13 348	1 380	433
1983	3 748	9 819	590	325 i	14 482	1 365	554
1984	4 389 g	11 717	706 h	327 i	17 457 j	1 249	586
1985	5 479 k	15 193	826 h	361 l	22 108 j	1 230	735
1986	5 963 k	11 961	894 h	596 m	19 720 j	1 208	942
1987	7 146 g	12 147 n	856 h	637 o	21 207 j	862	800
1988	8 310	10 221	973 h	777	20 281	1 295	821
1988-89	8 760 p	10 440 p	1 018 h	845 q	21 063 q	1 330	2 113
1989-90	11 110	12 700	1 399 h	924	26 133	1 190	2 156
1990-91	10 910 p	15 361 p	na	na	26 293	1 184	2 413
1991-92	10 957 p	15 010 p	na	na	25 985	1 078	2 167
1992-93	10 920 p	15 801 p	1 405 h	1 065	26 721	1 244	2 327
1993-94	10 861 p	14 841 p	na	na	25 702	1 299	2 033
1994-95	11 715 p	15 023 p	na	na	26 723	1 566	1 745
1995-96	12 793	15 986	na	na	28 779	1 649	1 867
1996-97	13 617	17 912	na	na	31 358	1 957	2 268
1997-98	14 696	19 517	na	na	34 213	1 985	2 423
1998-99	15 228	18 955	na	na	34 182	1 690	2 059
1999-00	14 234	20 065	na	na	34 299	1 377	2 788
2000-01	18 748	26 245	871	1 488	52 270	1 708	3 967
2001-02	19 531	31 126	1 221	2 905	54 782	1 523	4 141
2002-03	19 352	29 321	1 317	3 191	53 181	1 728	4 073
2003-04	20 424	26 340	1 396	2 615	50 773	1 731	3 943
2004-05	25 678	37 332	1 486	2 893	67 386	2 073	4 525
2005-06	36 124	50 175	1 629	3 218	91 146	2 503	6 020
2006-07	48 673	49 955	1 854	4 006	104 487	3 940	na
2007-08	na	na	na	na	na	5 496	na

a Before 1988-89, data compiled by the former Bureau of Mineral Resources on a calendar year basis; for 1988-89 and 1989-90, data compiled by ABARE on a fiscal year basis; from 1990-91 to 1999-2000, data compiled by ABS from annual Mining Census data; and from 2001-02 ABS now applies a market price to the metallic content of production to obtain a valuation. **b** From 1965 to 1989-90, data cover ASIC subdivisions 11–15; data for 1990-91 and 1991-92 cover ASIC subdivisions 11–14; data for 1992-93 cover ANZSIC subdivisions 11–14 (equivalent to ASIC subdivisions 11–15); and data for 1993-94 and 1994-95 cover ANZSIC subdivisions 11–13 (equivalent to ASIC subdivisions 11–14). Data from 1996-97 based on ABS mining collection, equivalent to ANZSIC subdivisions 11–13. **c** Coverage is inconsistent between years. **d** Year ended 30 June. **e** Private expenditure; includes energy exploration. **f** Defined as total natural resource royalty expenses. **g** Excludes bauxite for Western Australia. **h** Excludes Australian Capital Territory. **i** Excludes talc and limestone for Western Australia. **j** Includes confidential items not separately included in the listed categories. **k** Excludes bauxite for Western Australia and iron oxide, molybdenum and tin–copper concentrate for Tasmania. **l** Excludes limestone and salt for Queensland. **m** Excludes salt for Victoria and limestone and talc for Western Australia. **n** Excludes coal for Western Australia. **o** Excludes salt for Victoria and limestone, silica and talc for Western Australia. **p** Tasmanian coal production included in metallics. **q** Excludes salt and silica for Victoria and clay, dolomite, limestone, peat and silica for Tasmania. **na** Not available.

Sources: ABS, *Mining Industry, Australia,* cat. no. 8402.0, Canberra; ABS, *Mineral Exploration, Australia,* cat. no. 8407.0, Canberra; ABS, Mineral and Petroleum Exploration, Australia, cat. no. 8412.0, Canberra; ABS, *Australian Mining Industry,* cat. no. 8414.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; state mines departments and their equivalents; ABARE.

30 Australian private mineral exploration expenditure, by type of mineral sought

	Energy minerals			Metallic minerals					
	Petroleum	Other a	Total	Gold	Base metals b	Other metallics	Total	Other	Total
	$m	$m	$m	$m	$m	$m	$m	$m	$m
1970-71	79	na	na	na	na	na	na	na	na
1971-72	104	na	na	na	na	na	na	na	na
1972-73	93	na	na	na	na	na	na	na	na
1973-74	90	na	na	na	na	na	na	na	na
1974-75	60	14	74	na	na	na	90	6	170
1975-76	56	15	71	na	na	na	78	7	156
1976-77	68	30	98	na	na	na	95	9	202
1977-78	103	48	151	na	na	na	101	10	262
1978-79	163	56	219	na	na	na	105	21	345
1979-80	295	85	380	30	92	41	163	38	581
1980-81	368	123	491	69	153	69	291	56	838
1981-82	804	165	969	95	167	79	341	70	1 380
1982-83	927	98	1 025	96	130	55	281	59	1 365
1983-84	824	60	884	152	138	40	330	35	1 249
1984-85	793	48	841	177	135	40	352	37	1 230
1985-86	766	82	848	215	79	32	326	34	1 208
1986-87	305	59	364	357	77	22	456	42	862
1987-88	495	48	543	581	84	40	705	47	1 295
1988-89	633	57	690	449	100	36	584	56	1 330
1989-90	583	52	635	341	118	39	498	57	1 190
1990-91	582	36	618	306	172	45	523	48	1 184
1991-92	474	40	514	305	145	66	515	48	1 078
1992-93	612	33	645	320	183	45	548	50	1 244
1993-94	507	35	542	454	192	43	688	69	1 299
1994-95	673	46	719	555	201	37	792	55	1 566
1995-96	689	60	749	547	252	40	839	61	1 649
1996-97	809	84	892	728	207	59	994	71	1 957
1997-98	918	87	1 005	648	227	55	930	50	1 985
1998-99	852	55	907	486	177	70	733	49	1 690
1999-00	701	47	748	375	157	64	596	33	1 377
2000-01	1 025	50	1 074	370	165	69	604	na	1 708
2001-02	883	59	942	331	133	87	551	na	1 523
2002-03	995	85	1 080	378	142	na	na	na	1 728
2003-04	944	92	1 036	397	152	na	na	na	1 731
2004-05	1 045	148	1 192	392	261	na	na	na	2 073
2005-06	1 262	223	1 484	400	357	na	na	na	2 503
2006-07	2 226	307	2 533	456	555	na	na	na	3 940
2007-08	3 035	466	3 501	593	783	na	na	na	5 496

a Coal and uranium. **b** Includes copper, lead, zinc, silver, nickel and cobalt. **na** Not available.

Sources: ABS, *Mineral Exploration, Australia,* cat. no. 8407.0, Canberra; ABS, *Mineral and Petroleum Exploration, Australia,* cat. no. 8412.0, Canberra.

31 Private new capital expenditure

	Mining a $m	Manufacturing $m	Other selected industries $m	All industries $m
1965-66	217	na	na	1 713
1966-67	243	na	na	1 661
1967-68	325	na	na	1 813
1968-69	435	na	na	2 027
1969-70	533	na	na	2 360
1970-71	781	na	na	2 940
1971-72	874	na	na	3 120
1972-73	455	na	na	2 660
1973-74 b	541	na	na	3 776
1974-75	707	na	na	4 565
1975-76	654	na	na	5 316
1976-77	490	na	na	5 952
1977-78	804	na	na	7 091
1978-79	1 034	na	na	8 699
1979-80 c	1 117	na	na	8 298
1980-81	1 910	na	na	10 962
1981-82	2 868	na	na	13 999
1982-83	3 488	na	na	14 185
1983-84	2 386	na	na	13 021
1984-85	2 100	na	na	14 525
1985-86	2 799	na	na	18 070
1986-87	3 639	na	na	21 327
1987-88	3 986	7 088	15 493	26 567
1988-89	3 976	7 524	18 788	30 288
1989-90	4 055	8 439	18 756	31 250
1990-91	4 567	7 663	17 358	29 588
1991-92	4 217	7 325	13 592	25 134
1992-93	5 482	7 537	14 218	27 237
1993-94	5 586	8 350	16 053	29 989
1994-95	6 351	10 351	18 859	35 561
1995-96	7 525	10 457	22 489	40 471
1996-97	8 781	10 198	24 858	43 837
1997-98	11 029	10 996	24 185	46 210
1998-99	8 795	9 609	27 011	45 415
1999-00	5 468	10 142	28 815	44 425
2000-01	5 491	9 144	27 986	42 621
2001-02	7 250	9 181	27 949	44 380
2002-03	8 766	11 385	30 664	50 815
2003-04	9 282	11 423	30 542	51 247
2004-05	10 253	12 681	34 620	57 554
2005-06	18 608	15 428	38 606	72 642
2006-07	22 119	13 264	42 169	77 552
2007-08	27 348	13 391	45 664	86 403

a Includes expenditure on petroleum and gas. **b** Break in continuity as a result of change in scope and the introduction of the integrated capital expenditure survey. **c** Break in continuity as a result of the changed definition in accounting for finance leases. **na** Not available.

Sources: ABS, *Private New Capital Expenditure and Expected Expenditure, Australia,* cat. no. 5625.0, Canberra; ABS, *Private New Capital Expenditure,*

32 Australian production of mineral commodities

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Bauxite	Mt	54	54	56	58	61	63	63
Coal								
Black								
Salable	Mt	273	275	286	305	307	324	325
Raw	Mt	345	349	360	393	398	414	417
Brown	Mt	67	67	66	67	68	66	72
Copper in mine products s	kt	882	883	811	895	936	859	863
Diamonds	'000 ct	30 676	32 006	24 310	32 471	25 354	24 632	16 544
Gold in mine products s	t	265	276	267	265	248	249	227
Iron ore and concentrate	Mt	185	199	223	252	264	288	325
Lead in mine products s	kt	744	695	677	682	762	642	641
Manganese ore and concentrate s	kt	1 850	2 472	3 094	3 563	4 088	5 071	5 436
Nickel in mine products s	kt	192	183	185	192	186	191	190
Petroleum								
Crude oil and condensate s	ML	37 820	35 023	30 713	27 311	24 315	28 555	25 537
LPG (naturally occurring)	ML	4 647	4 681	4 639	4 628	4 722	4 550	3 971
Natural gas and ethane	Mm^3	32 543	33 568	33 659	37 674	38 473	39 771	39 737
Salt s	kt	9 233	10 438	10 618	12 254	11 467	10 857	11 243
Silver in mine products s	t	2 106	1 892	2 056	2 303	2 218	1 674	1 867
Tin in mine products s	t	8 173	6 328	1 512	2 055	1 805	2 061	1 631
Titanium minerals								
Ilmenite	kt	1 847	2 072	1 911	1 993	2 185	2 383	2 205
Rutile	kt	204	204	152	173	184	279	333
Synthetic rutile s	kt	612	673	696	751	711	729	672
Titanium dioxide pigment s	kt	186	189	196	204	208	207	201
Uranium	t	7 823	9 172	9 569	10 964	9 974	9 594	10 151
Zinc in mine products s	kt	1 490	1 529	1 355	1 352	1 380	1 375	1 571
Zircon concentrate	kt	389	459	448	432	442	557	580

s ABARE estimate.

Sources: ABS; state mines departments and their equivalents; ABARE.

33 Gross value of Australian mineral production, by commodity a

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
	$m	$m	$m	$m	$m	$m
Coal						
Black	14 525	12 724	11 566	17 720	26 317	24 368
Brown	533	534	531	843	851	1 016
Construction materials	1 221	1 317	1 396	1 486	1 629	1 854
Copper ore and concentrate **b**	2 509	2 260	2 543	3 777	6 290	7 525
Diamonds	506	788	520	468	na	na
Gemstones						
Opals	85	71	60	64	57	46
Sapphires	6	3	1	0	2	0
Gold bullion **b**	4 679	5 046	4 731	4 635	5 609	6 284
Iron ore and concentrate **b**	5 235	5 298	5 359	8 330	12 897	15 975
Lead ore and concentrate **b**	623	502	654	830	1 015	1 271
Manganese ore and concentrate **b**	267	275	282	479	478	1 117
Nickel ore and concentrate **b**	2 034	2 528	3 139	3 613	3 816	8 402
Petroleum						
Crude oil and condensate, LPG (naturally occurring), Natural gas and ethane	16 068	16 063	14 243	18 769	23 007	24 570
Salt	273	260	211	222	237	234
Tin ore and concentrate **b**	65	45	14	13	15	34
Titanium minerals						
Ilmenite	131	145	93	80	66	112
Rutile	123	106	99	na	na	54
Uranium	378	308	382	463	530	664
Zinc ore and concentrate **b**	2 187	1 927	1 846	2 059	3 851	6 350
Zircon concentrate	226	329	256	298	400	453
Total **c**	54 782	53 181	50 773	67 386	91 146	104 487

a Gross value is ex mine. Data in this table are not on the same basis as data shown in the previous table. **b** From 2001-02 gross value is no longer valued ex mine. ABS now applies a market price to the metallic content of production to obtain a valuation. **c** Includes components shown as not available. Data based on ABS mining collection (equivalent to ANZSIC subdivisions 11–13). **na** Not available.

Sources: ABS, *Mining Production, Australia*, cat. no. 8405.0, Canberra; ABS, *Australian Mining Industry*, cat. no. 8414.0, Canberra; ABS, *Mining Operations Australia*, cat. no. 8415.0, Canberra; state mines departments and their equivalents; ABARE.

34 Gross value of Australian mineral production, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Australia
	$m	$m	$m	$m	$m	$m	$m	$m
1969	351	64	258	290	80	67	31	1 142
1970	382	176	288	401	91	80	32	1 450
1971	382	282	301	476	88	80	38	1 648
1972	445	310	357	514	104	88	48	1 867
1973	475	413	470	602	122	85	72	2 242
1974	600	434	600	740	109	120	105	2 710
1975	839	618	832	976	116	113	103	3 601
1976	1 033	888	1 102	1 064	144	151	151	4 536
1977	1 193	1 055	1 226	1 309	147	178	152	5 265
1978	1 267	1 398	1 176	1 256	166	211	141	5 618
1979	1 578	2 888	1 646	1 593	209	249	196	8 363
1980	1 625	4 046	1 937	2 042	225	282	326	10 487
1981	2 237	4 903	1 894	2 119	254	284	378	12 071
1982	2 381	5 036	2 228	2 614	305	277	506	13 348
1983	2 375	5 792	2 368	2 575	542	277	551	14 482 b
1984	2 707	6 652	2 892	3 170 c	782	237	697	17 457 b
1985	2 959	8 514	4 020 d	4 310 c	1 165	269 e	620	22 108 b
1986	3 151	5 131	4 185	5 096 c	1 016	336	805	19 720 b
1987	3 249	5 471	4 277	5 834	991	300	1 085	21 207 b
1988	3 392	3 979	4 164	6 296	1 049	356	1 047	20 281
1988-89	3 705	3 715	4 689	6 259	1 131	382 f	1 182	21 063 g
1989-90	4 524	4 019 h	5 381	8 819	1 231	496	1 663	26 133 h
1990-91	3 751	na i	4 961	9 761	na i	355	1 866	26 293
1991-92	3 721	na i	4 981	9 994	na i	361	1 493	25 985
1992-93	3 817	na i	5 519	10 286	na i	310	1 350	26 721
1993-94	3 863	na i	5 134	10 231	na i	327	1 028	25 702
1994-95	3 867	na i	5 283	11 835	na i	327	1 074	26 723
1995-96	4 027	na i	5 922	12 847	1 117	na	na	28 779
1996-97	4 688	3 265	6 425	14 231	1 029	387	1 306	31 358
1997-98	5 019	3 379	7 318	15 672	1 124	356	1 345	34 213
1998-99	5 291	2 471	8 217	15 438	1 053	446	1 266	34 182
1999-00	4 979	3 532	7 984	14 758	1 206	550	1 290	34 299
2000-01	7 031	4 050	10 910	26 272	2 130	504	1 374	52 270
2001-02	7 869	4 193	13 675	23 962	1 722	577	2 784	54 782
2002-03	6 797	4 006	12 388	25 301	1 683	536	2 470	53 181
2003-04	6 706	3 933	11 740	24 046	1 756	630	1 962	50 773
2004-05	9 197	4 642	16 907	30 626	2 425	706	2 883	67 386
2005-06	11 783	5 332	26 465	39 251	3 270	1 002	4 042	91 146
2006-07	12 268	5 473	27 183	49 736	3 411	1 173	5 244	104 487

a Gross value is ex mine. Before 1988-89, data compiled by the former Bureau of Mineral Resources on a calendar year basis; for 1988-89 and 1989-90, data compiled by ABARE on a financial year basis; and from 1990-91, data compiled by ABS from annual Mining Census data. Data to 1989-90 cover ASIC subdivisions 11–15; data for 1990-91 and 1991-92 cover ASIC subdivisions 11–14; data for 1992-93 cover ANZSIC subdivisions 11–14 (equivalent to ASIC subdivisions 11–15); and data for 1993-94 and 1994-95 cover ANZSIC subdivisons 11–13 (equivalent to ASIC subdivisions 11–14). Data from 1996-97 based on ABS mining collection, (equivalent to ANZSIC subdivisions 11–13). From 2001-02 ABS now applies a market price to the metallic content of production to obtain a valuation. **b** Includes items excluded from state totals for confidentiality reasons. **c** Excludes bauxite, limestone and talc. **d** Excludes limestone and salt. **e** Excludes iron oxide, molybdenum, and tin–copper concentrate. **f** Excludes clay, dolomite, limestone, peat and silica. **g** Excludes salt and silica for Victoria and clay, dolomite, limestone, peat and silica for Tasmania. **h** Excludes salt and silica for Victoria. **i** ABS confidentiality provisions apply; data not available for publication. **na** Not available.

Sources: ABS, *Mining Production, Australia,* cat. no. 8405.0, Canberra; ABS, *Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; state mines departments and their equivalents; ABARE.

35 Australian smelter and refinery production of mineral commodities

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Alumina	kt	16 098	16 417	16 413	16 690	17 161	17 826	18 506	19 359
Aluminium	kt	1 788	1 809	1 855	1 877	1 890	1 912	1 954	1 965
Blister copper **a**	kt	419	456	469	389	434	404	389	393
Copper	kt	517	561	537	458	486	461	435	442
Gold									
Australian origin	t	296	271	251	246	227	209	208	190
Overseas origin	t	16	20	65	80	76	66	55	58
Lead bullion **a**	kt	153	201	181	143	153	141	114	152
Lead **b**	kt	215	275	267	247	234	234	191	203
Nickel matte	kt	100	95	101	81	48	47	57	45
Nickel **c**	kt	121	130	129	124	127	115	118	121
Petroleum									
Automotive diesel oil	ML	13 212	13 064	13 335	12 544	12 822	10 154	11 055	12 177
Automotive gasoline	ML	17 886	17 999	17 984	17 375	17 913	16 528	17 732	17 079
Aviation turbine fuel	ML	5 837	5 390	5 149	4 964	5 325	5 216	5 332	5 182
Fuel oil	ML	1 951	1 684	1 441	1 105	1 092	1 048	942	979
Raw steel **d**	kt	8 003	8 611	9 399	9 430	7 395	7 866	8 010	8 121
Silver	t	532	616	672	619	722	655	618	606
Tin	t	1 039	829	708	553	445	736	321	0
Zinc	kt	534	572	570	502	464	446	496	508

a Metallic content. **b** Includes lead content of lead alloys from primary sources. **c** Includes nickel contained in metal and nickel oxide. **d** Includes recovery from scrap.

Sources: DRET; ABARE.

36 Prices of mineral commodities

	Alumina av. export unit value	Aluminium (high grade) LME cash	Gold London AM fix	Iron ore a av. export unit value	Thermal coal av. export unit value	Metallurgical coal av. export unit value	Crude oil b world trade weighted average	Uranium c Nuexco exch. value
	A$/t	US$/t	US$/oz	A$/t	A$/t	A$/t	US$/bbl	US$/lb
1989-90	329.04	1 638.25	382.79	22.19	48.93	60.69	16.56	9.36
1990-91	307.56	1 581.25	373.70	24.63	49.18	61.82	21.95	9.73
1991-92	241.73	1 232.00	351.93	26.74	48.48	61.55	17.76	8.08
1992-93	242.11	1 198.85	343.69	26.91	50.00	65.38	17.74	9.68
1993-94	224.36	1 204.25	378.93	24.28	47.84	61.97	14.45	9.74
1994-95	216.31	1 763.59	384.37	21.53	44.12	55.88	16.83	10.17
1995-96	247.36	1 662.53	389.89	22.70	49.29	61.30	17.44	13.73
1996-97	236.49	1 513.46	363.82	22.94	46.49	61.18	20.30	14.12
1997-98	274.06	1 511.29	306.07	26.66	48.25	68.30	15.03	11.29
1998-99	263.13	1 276.42	285.90	28.44	44.76	64.18	12.31	10.10
1999-00	297.80	1 515.73	281.60	25.29	39.43	53.54	24.05	9.42
2000-01	354.29	1 539.00	269.45	31.16	47.78	62.51	26.82	7.88
2001-02	314.25	1 358.75	289.08	33.05	57.51	75.95	21.59	9.59
2002-03	277.97	1 360.23	334.19	29.44	44.50	69.09	26.26	10.22
2003-04	278.60	1 569.05	389.28	27.09	40.98	58.26	29.33	14.90
2004-05	311.47	1 806.85	422.49	35.54	59.55	86.12	41.18	22.20
2005-06	362.90	2 244.69	526.95	53.70	65.02	141.13	57.25	36.79
2006-07	414.63	2 692.18	638.56	60.27	60.54	113.96	59.45	81.17
2007-08	369.08	2 665.02	823.35	69.42	72.70	116.80	91.97	80.75

	Copper (high grade) LME cash	Lead LME cash	Zinc (high grade) LME cash	Silver d London fix	Nickel LME cash	Ilmenite e av. export unit value	Rutile f av. export unit value	Zircon g av. export unit value
	US$/t	US$/t	US$/t	USc/troy oz	US$/t	A$/t	A$/t	A$/t
1989-90	2 639.00	776.00	1 578.00	519.33	9 600.00	76.37	703.40	656.92
1990-91	2 641.00	682.00	1 308.00	428.00	9 081.00	82.38	775.61	515.75
1991-92	2 253.00	527.00	1 164.00	407.25	7 578.00	82.94	629.07	317.90
1992-93	2 193.80	487.00	1 114.00	387.69	6 252.43	79.72	545.46	193.28
1993-94	1 893.00	439.00	937.00	498.94	5 262.87	83.36	536.07	206.43
1994-95	2 765.59	613.00	1 045.00	516.48	7 447.13	86.16	568.94	295.34
1995-96	2 739.51	721.00	1 022.00	537.13	8 212.34	92.56	672.57	495.70
1996-97	2 264.68	707.00	1 124.00	492.74	7 223.57	99.42	733.81	601.80
1997-98	1 903.38	568.26	1 227.00	543.87	5 813.93	106.87	773.46	582.65
1998-99	1 514.50	513.47	998.18	516.15	4 506.75	116.97	789.31	513.74
1999-00	1 737.81	464.94	1 143.59	520.45	8 254.19	133.39	732.15	481.89
2000-01	1 786.51	476.14	1 049.66	466.71	7 238.96	152.06	849.08	607.62
2001-02	1 516.15	473.60	791.40	441.55	5 928.83	150.76	882.09	702.47
2002-03	1 595.11	445.04	774.77	461.00	7 666.38	132.51	767.87	633.61
2003-04	2 267.35	700.06	961.97	579.25	12 263.77	104.56	647.39	585.76
2004-05	3 151.00	964.08	1 170.95	694.94	14 957.03	99.29	717.20	746.27
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 487.81	105.92	816.59	908.63
2006-07	7 086.78	1 694.20	3 672.41	1 274.16	37 942.21	112.89	845.61	861.55
2007-08	7 791.82	2 891.49	2 598.83	1 544.29	28 512.09	116.32	693.21	660.98

a Lump and fines. **b** US Department of Energy, *Energy Information Administration*. **c** Nuexco exchange value to 1997-98; Ux Consulting Industry spot price from 1998-99. **d** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **e** All grades, bulk and bagged, before January 1992; bulk only thereafter. f All grades before August 1999; bagged only thereafter. **g** All grades, bulk and bagged, to 31 December 1991; standard grade only from 1 January 1992 to 30 June 1993; all grades to September 1999; bagged only thereafter.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; London Metal Exchange; London Bullion Market Association; US Energy Information Administration; The UX Consulting Company; ABARE.

37 Exports and imports of Australian mineral resources a

	Exports a						
	Coal, coke and briquettes	Other mineral fuels	Metalliferous ores and other minerals b	Gold	Other metals	Total	Imports c
	$m	$m	$m	$m	$m	$m	$m
1970-71	206	41	789	20	374	1 430	208
1971-72	240	60	810	20	415	1 545	187
1972-73	294	46	931	25	513	1 809	223
1973-74	352	105	1 116	35	638	2 246	590
1974-75	733	162	1 595	46	884	3 420	661
1975-76	1 066	161	1 831	50	761	3 869	723
1976-77	1 292	206	2 243	34	1 038	4 813	922
1977-78	1 489	234	2 400	48	1 040	5 211	1 021
1978-79	1 531	316	2 616	80	1 385	5 928	1 305
1979-80	1 686	427	3 306	113	1 868	7 400	2 157
1980-81	1 981	517	3 409	56	1 517	7 480	2 372
1981-82	2 367	903	3 456	94	1 469	8 289	3 144
1982-83	3 049	1 099	3 852	290	1 768	10 058	2 121
1983-84	3 477	1 502	4 229	400	1 916	11 524	2 066
1984-85	4 591	2 294	4 974	601	2 492	14 952	2 029
1985-86	5 204	2 214	5 309	1 137	2 421	16 285	1 537
1986-87	5 361	1 564	5 494	2 047	2 933	17 399	1 910
1987-88	4 866	1 786	6 358	3 107	3 863	19 980	2 772
1988-89	4 805	1 258	7 187	3 021	4 924	21 195	3 666
1989-90	5 932	2 068	8 348	3 764	4 820	24 932	4 319
1990-91	6 480	3 595	8 932	4 136	4 887	28 030	4 969
1991-92	6 949	3 402	8 477	4 605	4 871	28 304	4 910
1992-93	7 620	3 913	8 312	4 580	5 334	29 759	6 237
1993-94	7 253	3 351	8 233	5 521	5 519	29 878	5 791
1994-95	6 936	3 794	8 448	4 907	6 286	30 371	6 140
1995-96	7 843	4 165	9 614	5 850	6 978	34 450	6 701
1996-97	8 005	5 154	9 803	6 878	6 212	36 052	7 359
1997-98	9 586	5 309	11 373	7 226	7 431	40 925	8 564
1998-99	9 288	4 461	11 635	6 720	7 117	39 221	8 966
1999-00	8 336	9 082	12 361	6 599	9 121	45 498	12 060
2000-01	10 844	13 464	15 839	6 222	11 638	58 006	14 275
2001-02	13 430	10 940	15 286	6 646	10 981	57 283	13 548
2002-03	11 987	11 049	15 361	7 648	10 958	57 002	16 082
2003-04	11 002	8 777	15 439	7 031	10 999	53 248	15 386
2004-05	17 236	11 151	20 537	6 472	12 269	67 665	20 872
2005-06	24 353	13 220	29 772	9 087	14 140	90 572	29 916
2006-07	21 928	15 642	36 040	10 739	20 237	104 587	31 698
2007-08	25 117	18 718	42 835	12 265	17 005	115 939	42 395

a Balance of payments basis. **b** Includes ABARE estimates for bauxite, manganese and other ABS confidential minerals from 1984-85 until 1989-90. From 1990-91, ABS data include actual details for these items. ABARE estimates for items not classified as mineral resources by ABS are included for all years since 1984-85. **c** Pre 1987-88 reported on a calendar year basis. (example, 1987-88 = 1988). Post 1987-88 reported on a fiscal year basis.
Sources: ABS, *Balance of Payments, Australia,* cat. nos 5302.0 and 5303.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry*

38 Volume of Australian exports of mineral commodities

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Alumina	kt	12 721	13 091	13 168	13 572	14 073	14 499	15 056	15 739
Aluminium (ingot metal)	kt	1 471	1 490	1 551	1 546	1 512	1 617	1 638	1 650
Coal, black									
Metallurgical	Mt	106	106	108	112	125	120	132	137
Thermal	Mt	88	92	100	107	106	111	112	115
Copper **s**	kt	694	749	687	652	701	790	699	733
Diamonds **s**	'000 ct	25 513	25 811	32 274	24 326	32 471	25 354	24 632	16 544
Gold, refined	t	302	280	282	315	309	315	400	382
Iron and steel									
Iron ore and pellets	Mt	157	156	181	195	228	239	257	294
Iron and steel	kt	2 931	3 297	3 589	3 818	2 338	2 428	2 648	2 131
Ferroalloys	kt	40	45	9	8	0	2	5	1
Lead **s**	kt	672	731	735	688	782	756	635	589
Magnesia	t	161 236	151 760	143 372	154 620	162 763	157 342	139 787	161 531
Manganese ore and concentrate **s**	kt	1 522	1 660	2 014	2 603	3 128	3 215	4 667	5 105
Petroleum									
Crude oil and other refinery feedstock	ML	24 044	23 936	20 950	17 526	15 731	13 026	15 965	15 975
LNG **s**	Mt	8	8	8	8	11	12	15	15
LPG	ML	2 785	3 211	3 194	2 916	2 844	2 800	2 824	2 589
Refinery products	ML	4 564	3 415	3 159	2 488	1 864	2 102	1 762	1 807
Salt	kt	8 636	8 912	10 172	10 285	12 128	10 776	10 749	10 686
Silver, refined bullion	t	450	547	511	415	517	482	431	335
Tin **s**	t	9 660	8 026	5 963	143	1 529	1 556	1 867	3 079
Titanium minerals									
Ilmenite concentrate **a**	kt	1 012	914	1 020	783	633	722	999	894
Leucoxene	kt	70	60	41	125	93	86	123	56
Rutile concentrate	kt	190	190	195	146	158	169	307	399
Synthetic rutile **s**	kt	443	398	456	470	517	472	508	513
Titanium dioxide pigment	kt	140	145	147	165	175	177	171	175
Uranium oxide (U_3O_8)	t	9 722	7 367	9 593	9 099	11 249	10 253	9 519	10 139
Zinc **s**	kt	1 456	1 488	1 548	1 369	1 427	1 328	1 321	1 507
Zircon concentrate **b**	kt	375	388	445	443	428	438	555	637

a Bulk only. **b** All grades. **s** ABARE estimate.

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

39 Value of Australian exports of mineral commodities

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Bauxite **s**	196	136	159	125	123	127	153	206
Alumina **a**	4 507	4 114	3 660	3 781	4 383	5 262	6 243	5 809
Aluminium (ingot metal)	4 229	3 965	3 696	3 441	3 726	4 788	5 650	4 967
Coal, black								
Metallurgical	6 597	8 038	7 448	6 510	10 758	17 003	15 039	15 996
Thermal	4 204	5 294	4 448	4 372	6 336	7 206	6 758	8 364
Copper **b**	2 286	2 159	2 005	2 166	3 082	5 653	6 526	6 728
Diamonds **cs**	634	512	838	596	683	836	726	664
Gems, other than diamonds	99	82	74	64	61	59	49	52
Gold, refined	4 887	4 950	5 133	5 510	5 523	7 089	10 320	10 903
Iron and steel								
Iron ore and pellets	4 903	5 160	5 342	5 277	8 120	12 854	15 512	20 423
Iron and steel	1 484	1 484	1 855	2 004	2 031	1 674	1 743	1 562
Lead **b**	637	729	657	728	1 041	1 296	1 579	2 050
Magnesia	53	56	52	51	54	75	66	72
Manganese ore and concentrate **s**	261	299	312	371	473	424	482	1 532
Nickel **s**	2 308	2 022	2 337	2 769	2 860	2 913	6 372	4 236
Petroleum								
Crude oil and other refinery feedstock	8 137	6 390	6 402	5 055	6 330	6 638	8 317	10 487
LNG	2 671	2 613	2 607	2 174	3 199	4 416	5 222	5 854
LPG	830	721	855	647	804	1 002	1 038	1 182
Refinery products	1 844	1 234	1 198	918	844	1 195	1 098	1 321
Salt	253	267	233	186	226	229	239	232
Silver **d**	142	163	136	118	161	197	221	187
Tin **b**	76	49	38	1	8	12	25	42
Titanium minerals								
Ilmenite concentrate **e**	154	138	135	82	63	76	113	104
Leucoxene concentrate	21	23	16	33	25	25	35	15
Rutile concentrate	161	167	149	94	114	138	259	277
Synthetic rutile **s**	313	296	293	253	306	321	361	305
Titanium doxide pigment	494	460	428	399	422	441	408	375
Uranium oxide (U_3O_8)	497	361	427	364	475	546	660	887
Zinc **b**	1 882	1 529	1 427	1 234	1 466	2 540	4 298	3 352
Zircon concentrate **f**	228	272	282	260	319	398	478	421
Other mineral resources	3 050	3 655	4 410	3 714	3 700	5 212	4 657	7 397
Total mineral resources **g**	58 006	57 283	57 002	53 248	67 665	90 572	104 587	115 939

a Includes aluminium hydroxide. **b** Value of all ores, concentrates, intermediate products (where applicable) and refined metal. **c** Unsorted and sorted. **d** Includes refined bullion, powder, unwrought silver and semimanufactured forms. **e** Bulk ilmenite. **f** All grades. **g** Total mineral resources exports on an ABARE balance of payments basis. **s** ABARE estimate.

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

40 Value of Australian exports of minerals, by destination [a]

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
	$m	$m	$m	$m	$m	$m	$m	$m
Africa	117	113	113	119	164	231	180	153
Americas								
United States	661	569	641	485	742	1 931	1 227	1 798
Other	407	408	364	388	404	544	582	564
Asia								
China	777	575	739	1 046	1 213	1 498	1 626	2 036
Chinese Taipei	1 539	1 494	1 617	1 897	1 953	2 566	2 599	2 956
Hong Kong, China	1 191	1 200	801	844	1 021	1 668	1 088	996
India	469	569	669	816	785	921	1 195	949
Japan	9 436	9 307	9 355	9 176	9 077	10 545	10 008	11 337
Korea, Rep. of	2 545	2 952	3 306	4 708	5 241	4 520	4 420	4 647
Singapore	2 549	1 875	2 161	1 815	1 595	1 918	1 693	3 259
Other	1 945	2 130	2 438	2 627	2 610	2 106	1 821	2 287
Europe								
France	294	263	262	260	265	294	380	309
Germany	328	336	370	398	406	478	416	383
Netherlands	441	354	368	178	156	279	347	463
United Kingdom	783	1 243	498	791	581	1 097	2 456	1 537
Other European Union	805	741	803	894	908	1 173	1 306	1 172
Other Europe	268	225	209	478	237	1 000	332	185
Oceania								
New Zealand	445	492	520	700	818	739	719	858
Other	406	382	398	495	549	511	407	550
Other	4 001	4 160	4 205	5 615	4 868	5 448	5 560	6 815
Total	29 406	29 389	29 838	33 728	33 594	39 465	38 360	43 253
	2000-01	**2001-02**	**2002-03**	**2003-04**	**2004-05**	**2005-06**	**2006-07**	**2007-08**
	$m	$m	$m	$m	$m	$m	$m	$m
Africa	263	364	415	440	409	631	574	416
Americas								
United States	2 109	1 585	1 435	1 141	1 167	1 198	1 239	1 944
Other	676	827	900	592	660	1 814	1 588	1 323
Asia								
China	2 769	2 990	3 569	4 550	6 789	11 058	13 304	18 392
Chinese Taipei	4 039	3 159	2 653	2 162	3 165	4 100	4 716	5 038
Hong Kong, China	1 256	1 365	980	746	768	908	1 064	710
India	1 305	1 732	1 981	4 091	5 156	6 421	8 843	8 445
Japan	15 034	14 855	14 355	12 533	16 963	23 853	24 930	27 782
Korea, Rep. of	5 958	6 162	5 743	5 175	6 211	8 344	9 552	11 158
Singapore	4 060	2 802	2 790	1 540	1 629	2 391	2 932	3 137
Other	2 786	2 807	2 637	3 082	5 064	5 814	7 822	8 269
Europe								
France	443	521	427	348	479	683	701	583
Germany	421	381	325	297	334	492	540	479
Netherlands	795	766	644	626	913	1 555	1 627	1 391
United Kingdom	1 469	2 009	2 852	1 857	1 780	3 543	2 822	5 254
Other European Union	1 452	1 743	1 402	1 365	1 714	3 033	4 053	3 778
Other Europe	155	91	186	124	179	106	1 034	865
Oceania								
New Zealand	989	1 207	1 102	941	1 528	1 154	1 689	1 572
Other	860	525	516	369	469	740	610	612
Other	8 201	8 261	7 214	6 477	7 563	9 949	11 688	12 354
Total	55 040	54 151	52 125	48 456	62 941	86 523	100 026	112 273

a Not on a balance of payments basis; totals differ from earlier tables.

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

41 Volume of Australian imports of mineral commodities

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Clays	kt	57	50	61	47	68	63	70
Diamonds **a**	'000 ct	2 431	3 218	2 229	2 168	4 098	3 430	2 964
Iron and steel								
Iron ore and pellets **b**	kt	3 880	4 667	5 417	4 648	5 026	4 722	4 401
Iron and steel	kt	1 354	1 306	1 583	2 116	2 191	2 318	1 848
Ferroalloys	kt	46	51	57	60	57	87	97
Limestone	kt	595	582	547	473	475	567	693
Magnesium	kt	6	6	9	7	8	8	9
Petroleum								
Crude oil and other refinery feedstock	ML	27 308	27 958	23 498	26 054	24 416	25 345	26 222
Natural gas **s**	kt	0	0	0	0	953	4 268	4 032
Other refinery products **s**	ML	4 655	5 497	10 542	11 188	14 171	14 018	17 982
Phosphate rock	kt	933	711	723	797	655	472	707
Platinum and platinum group metals	kg	1 652	2 319	2 984	2 391	2 097	4 571	2 518
Potassium fertiliser	kt	417	433	447	497	404	306	465
Sulphur	kt	16	56	25	55	33	37	206

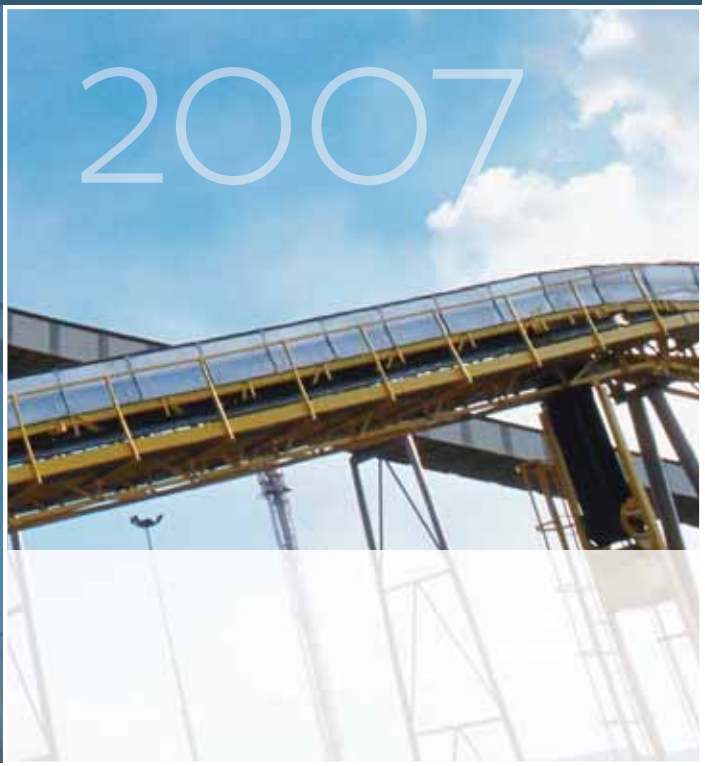
a Includes sorted and unsorted, gem and industrial diamonds, and diamond dust and powder. **b** Includes limonite ore used for the production of refined nickel products. **c** Includes automotive diesel oil and industrial marine diesel fuel. **s** ABARE estimate.

42 Value of Australian imports of mineral commodities

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m
Clays	23	14	19	16	17	16	18
Diamonds **a**	255	302	309	347	403	397	444
Gold **b**	2 207	2 957	2 559	2 462	4 800	5 309	7 311
Iron and steel							
Iron ore and pellets **c**	104	114	140	145	222	338	311
Iron and steel	1 099	1 226	1 353	2 041	2 075	2 479	2 225
Ferroalloys	60	59	71	137	123	116	154
Limestone	10	9	9	7	7	8	8
Magnesium	14	15	21	17	16	20	30
Petroleum							
Crude oil and other refinery feedstock	7 458	8 610	6 594	9 995	12 820	13 360	17 059
Natural gas **s**	0	0	0	0	152	800	724
Other refinery products **s**	1 625	2 050	3 595	5 123	8 609	7 784	12 735
Phosphate rock	72	50	41	49	42	32	80
Platinum and platinum group metals	42	64	86	59	70	186	111
Potassium fertiliser	117	108	94	106	112	85	165
Silver	32	35	70	30	33	98	80
Sulphur	30	45	59	47	45	34	101
Total	14 502	18 054	18 816	25 852	38 335	39 221	54 695

a Includes sorted and unsorted, gem and industrial diamonds, and diamond dust and powder. **b** Refined and unrefined bullion. **c** Includes value of limonite ore used for the production of refined nickel products. **d** Includes automotive diesel oil and industrial and marine diesel fuel. **s** ABARE estimate.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra.

rural commodities



2007

43 Summary of Australian statistics for coarse grains a

			Production		Exports b	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1962-63	2 396	1.09	2 615	114	600	27
1963-64	2 423	1.08	2 608	117	706	31
1964-65	2 476	1.11	2 760	125	735	34
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	816	3 693	476
1987-88	4 576	1.57	7 162	906	2 505	377
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	5 041	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	10 846	1 978	4 814	1 104
1997-98	5 388	1.88	10 102	1 601	3 398	810
1998-99	5 113	2.10	10 721	1 419	5 066	935
1999-00	4 244	2.22	9 435	1 401	4 061	866
2000-01	5 326	2.05	10 914	1 952	4 628	1 199
2001-02	5 806	2.25	13 049	2 583	5 751	1 438
2002-03	5 900	1.17	6 924	1 650	3 765	1 029
2003-04	6 815	2.29	15 630	2 562	5 782	1 345
2004-05	6 755	1.79	12 062	1 849	7 187	1 412
2005-06	6 526	2.17	14 137	2 132	5 684	1 193
2006-07	6 216	1.08	6 727	1 597	3 255	875
2007-08	6 531	1.59	10 413	2 469	4 428	1 620

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*

44 Australian coarse grains area, yield and production, by state a

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
Barley								
Area								
2001-02	'000 ha	665	700	96	1 088	1 151	7	3 707
2002-03	'000 ha	636	778	108	1 140	1 194	8	3 864
2003-04	'000 ha	951	872	151	1 278	1 216	9	4 477
2004-05	'000 ha	1 023	924	97	2 489	1 979	8	4 645
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	1 010	920	89	1 150	1 225	11	4 405
Yield								
2001-02	t/ha	2.08	2.37	1.78	2.08	2.42	3.71	2.23
2002-03	t/ha	0.67	0.61	1.37	1.18	1.21	2.63	1.00
2003-04	t/ha	2.06	2.61	1.74	2.48	2.21	3.11	2.32
2004-05	t/ha	1.72	1.41	1.84	0.80	1.26	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	0.64	1.20	1.80	1.18	1.45	3.00	1.34
Production								
2001-02	kt	1 382	1 656	171	2 263	2 782	26	8 280
2002-03	kt	428	478	148	1 349	1 440	21	3 865
2003-04	kt	1 955	2 275	263	3 170	2 691	28	10 382
2004-05	kt	1 761	1 305	178	1 979	2 489	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	650	1 100	160	1 358	1 777	33	5 920
Oats								
Area								
2001-02	'000 ha	231	142	11	287	108	6	784
2002-03	'000 ha	308	188	9	314	88	4	911
2003-04	'000 ha	449	194	9	344	89	4	1 089
2004-05	'000 ha	400	150	21	243	76	4	894
2005-06	'000 ha	417	152	16	271	72	4	931
2006-07	'000 ha	390	176	24	299	106	4	1 003
2007-08	'000 ha	400	170	5	230	86	7	898
Yield								
2001-02	t/ha	1.39	2.35	0.64	1.94	1.88	2.00	1.83
2002-03	t/ha	0.48	1.33	0.44	1.52	0.80	1.75	1.05
2003-04	t/ha	1.36	2.61	0.56	2.19	1.54	1.75	1.85
2004-05	t/ha	1.07	1.89	0.48	1.89	1.18	2.25	1.43
2005-06	t/ha	1.52	2.16	0.44	2.18	1.67	2.00	1.81
2006-07	t/ha	0.29	0.76	0.17	1.47	0.49	0.75	0.75
2007-08	t/ha	0.24	1.41	0.60	1.74	1.10	1.43	0.94
Production								
2001-02	kt	320	334	7	557	203	12	1 434
2002-03	kt	149	250	4	477	70	7	957
2003-04	kt	610	507	5	752	137	7	2 018
2004-05	kt	429	284	10	460	90	9	1 282
2005-06	kt	634	329	7	592	120	8	1 688
2006-07	kt	115	134	4	441	52	3	748
2007-08	kt	95	240	3	400	95	10	843

Continued

44 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								
2001-02	'000 ha	258	1	562	0	0	0	823
2002-03	'000 ha	255	0	405	0	0	0	667
2003-04	'000 ha	212	2	519	1	0	0	734
2004-05	'000 ha	211	0	544	0	0	0	755
2005-06	'000 ha	328	0	435	2	0	0	766
2006-07	'000 ha	162	1	449	0	0	0	613
2007-08	'000 ha	250	3	545	2	0	0	800
Yield								
2001-02	t/ha	2.97	4.00	2.22	0.00	0.00	0.00	2.46
2002-03	t/ha	2.08	0.00	2.30	0.00	0.00	0.00	2.20
2003-04	t/ha	3.34	1.00	2.50	1.00	0.00	0.00	2.74
2004-05	t/ha	4.01	0.00	2.14	0.00	0.00	0.00	2.66
2005-06	t/ha	2.70	2.50	2.38	1.50	0.00	0.00	2.52
2006-07	t/ha	2.38	0.04	2.00	0.00	0.00	0.00	2.09
2007-08	t/ha	4.25	1.33	3.20	1.00	0.00	0.00	3.52
Production								
2001-02	kt	767	4	1 247	0	0	0	2 021
2002-03	kt	531	0	930	0	0	0	1 465
2003-04	kt	709	2	1 296	1	0	0	2 009
2004-05	kt	847	0	1 164	0	0	0	2 011
2005-06	kt	886	1	1 036	3	1	0	1 929
2006-07	kt	385	0	896	0	0	0	1 283
2007-08	kt	1 063	4	1 744	2	0	0	2 813
Maize								
Area								
2001-02	'000 ha	28	1	53	1	0	0	83
2002-03	'000 ha	21	1	28	1	0	0	50
2003-04	'000 ha	22	1	48	1	0	0	70
2004-05	'000 ha	25	1	46	1	0	0	72
2005-06	'000 ha	26	1	47	2	0	0	76
2006-07	'000 ha	20	1	27	1	0	0	49
2007-08	'000 ha	20	1	45	2	0	0	68
Yield								
2001-02	t/ha	8.79	9.00	3.74	0.00	0.00	0.00	5.47
2002-03	t/ha	7.76	7.50	4.68	0.00	0.00	0.00	6.20
2003-04	t/ha	8.09	7.00	4.40	0.00	0.00	0.00	5.64
2004-05	t/ha	9.68	2.00	3.76	0.00	0.00	0.00	5.81
2005-06	t/ha	7.18	7.00	3.90	3.00	0.00	0.00	4.79
2006-07	t/ha	7.15	3.00	3.41	1.00	0.00	0.00	4.90
2007-08	t/ha	8.80	7.00	4.40	3.00	0.00	0.00	5.69
Production								
2001-02	kt	246	9	198	0	0	0	454
2002-03	kt	163	8	131	0	0	0	310
2003-04	kt	178	7	211	0	0	0	395
2004-05	kt	242	2	173	0	0	0	418
2005-06	kt	184	7	183	6	0	0	362
2006-07	kt	143	3	92	1	0	0	240
2007-08	kt	176	7	198	6	0	0	387

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
Triticale								
Area								
2001-02	'000 ha	138	131	1	29	109	2	409
2002-03	'000 ha	129	136	1	29	109	4	408
2003-04	'000 ha	135	141	3	42	122	2	445
2004-05	'000 ha	126	125	1	42	93	2	389
2005-06	'000 ha	113	112	1	29	92	2	347
2006-07	'000 ha	105	106	1	27	87	2	369
2007-08	'000 ha	115	116	1	30	95	2	360
Yield								
2001-02	t/ha	2.42	2.27	0.00	1.38	1.64	5.00	2.10
2002-03	t/ha	0.94	0.77	0.00	0.79	0.62	2.50	0.80
2003-04	t/ha	2.18	2.09	0.67	1.74	1.25	4.00	1.86
2004-05	t/ha	2.25	1.60	1.40	1.12	0.78	3.00	1.57
2005-06	t/ha	2.34	2.11	0.71	1.44	1.34	3.97	1.95
2006-07	t/ha	0.74	0.66	0.22	0.45	0.42	1.25	0.54
2007-08	t/ha	2.55	2.53	1.62	2.43	1.61	3.78	1.25
Production								
2001-02	kt	334	297	0	40	179	10	860
2002-03	kt	121	105	0	23	68	10	327
2003-04	kt	294	295	2	73	153	8	826
2004-05	kt	284	200	1	47	73	6	611
2005-06	kt	266	237	1	42	123	8	676
2006-07	kt	78	70	0	12	36	2	199
2007-08	kt	294	295	2	73	153	8	450
Total coarse grains								
Area								
2001-02	'000 ha	1 320	975	723	1 405	1 368	15	5 806
2002-03	'000 ha	1 349	1 103	551	1 484	1 391	16	5 900
2003-04	'000 ha	1 769	1 210	730	1 666	1 427	15	6 815
2004-05	'000 ha	1 785	1 200	709	2 775	2 148	14	6 755
2005-06	'000 ha	1 986	1 131	628	1 433	1 334	15	6 526
2006-07	'000 ha	1 579	1 197	582	1 410	1 386	13	6 216
2007-08	'000 ha	1 795	1 210	685	1 414	1 406	20	6 531
Yield								
2001-02	t/ha	2.31	2.36	2.24	2.04	2.31	3.20	2.25
2002-03	t/ha	1.03	0.76	2.20	1.25	1.13	2.37	1.17
2003-04	t/ha	2.12	2.55	2.43	2.40	2.09	2.87	2.29
2004-05	t/ha	2.00	1.49	2.15	0.90	1.23	3.07	1.79
2005-06	t/ha	2.17	2.28	2.22	2.12	2.09	2.93	2.17
2006-07	t/ha	0.93	0.68	1.84	1.60	0.78	1.66	1.08
2007-08	t/ha	1.27	1.36	3.07	1.30	1.44	2.54	1.59
Production								
2001-02	kt	3 049	2 300	1 623	2 860	3 164	48	13 049
2002-03	kt	1 392	841	1 213	1 849	1 578	38	6 924
2003-04	kt	3 746	3 086	1 777	3 996	2 981	43	15 630
2004-05	kt	3 563	1 791	1 526	2 486	2 652	43	12 062
2005-06	kt	4 305	2 576	1 393	3 043	2 793	44	14 137
2006-07	kt	1 474	812	1 071	2 262	1 084	21	6 727
2007-08	kt	2 278	1 646	2 107	1 839	2 025	51	10 413

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: ABARE, *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.

45 Summary of Australian statistics for barley

			Production		Exports a	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1961-62	965	0.98	941	44	713	30
1962-63	821	1.09	898	43	234	11
1963-64	815	1.21	984	47	403	18
1964-65	835	1.34	1 119	56	369	18
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	433	2 637	351
1987-88	2 346	1.46	3 417	455	1 863	293
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	3 423	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	4 714	877
1999-00	2 596	1.94	5 032	865	3 832	822
2000-01	3 454	1.95	6 743	1 344	4 144	1 101
2001-02	3 707	2.23	8 280	1 725	4 989	1 278
2002-03	3 864	1.00	3 865	984	3 462	955
2003-04	4 477	2.32	10 382	1 750	5 308	1 239
2004-05	4 645	1.67	7 740	1 233	6 499	1 275
2005-06	4 406	2.15	9 482	1 417	5 315	1 108
2006-07	4 182	1.02	4 257	1 039	3 135	833
2007-08	4 405	1.34	5 920	1 581	4 050	1 496

a 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; ABARE.

46 Summary of Australian statistics for oats

			Production		Exports	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1961-62	1 523	0.66	1 000	40	346	15
1962-63	1 332	0.94	1 248	51	322	14
1963-64	1 373	0.90	1 238	50	303	13
1964-65	1 415	0.90	1 271	51	366	16
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	165	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	898	0.94	843	171	115	37

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; ABARE.

47 Summary of Australian statistics for sorghum

			Production		Exports	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1961-62	147	1.74	255	10	33	1
1962-63	158	1.76	279	10	44	2
1963-64	148	1.45	215	9	0	0
1964-65	140	1.39	195	8	0	0
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	162	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	800	3.52	2 813	531	251	76

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; ABARE.

48 Summary of Australian statistics for maize

			Production		Exports	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1961-62	85	2.18	186	11	0	0
1962-63	85	2.23	189	10	1	0
1963-64	87	1.96	171	10	0	0
1964-65	86	2.03	175	10	0	0
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	4.77	272	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	70	5.64	395	88	13	6
2004-05	72	5.81	418	81	9	6
2005-06	76	4.79	362	71	5	6
2006-07	49	4.90	240	60	12	9
2007-08	68	5.69	387	71	12	11

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; ABARE.

49 Summary of Australian statistics for triticale

			Production		Exports	
	Area	Yield	Volume	Value	Volume	Value
	'000 ha	t/ha	kt	$m	kt	$m
1980-81	26	0.90	24	3	0	0
1981-82	64	1.42	91	10	0	0
1982-83	92	0.89	82	11	0	0
1983-84	116	1.62	188	21	0	0
1984-85	140	1.36	190	24	0	0
1985-86	137	1.62	222	28	0	0
1986-87	148	1.57	233	26	0	0
1987-88	136	1.53	208	27	0	0
1988-89	116	1.68	195	28	0	0
1989-90	91	1.80	164	25	0	0
1990-91	104	1.81	189	24	0	0
1991-92	101	1.76	177	25	0	0
1992-93	122	2.32	282	37	0	0
1993-94	129	2.04	263	35	0	0
1994-95	153	1.19	182	35	0	0
1995-96	221	2.12	469	95	0	0
1996-97	346	1.95	674	107	1	0
1997-98	366	1.73	633	108	2	0
1998-99	386	1.83	707	85	0	0
1999-00	361	2.12	764	96	0	0
2000-01	389	2.16	841	126	0	0
2001-02	409	2.10	860	168	0	0
2002-03	408	0.80	327	84	0	0
2003-04	445	1.86	826	126	0	0
2004-05	389	1.57	611	93	0	0
2005-06	347	1.95	676	119	0	0
2006-07	369	0.54	199	44	0	0
2007-08	360	1.25	450	115	0	0

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*

50 Volume of Australian exports of sorghum and oats, by destination

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Sorghum								
Asia								
Chinese Taipei	5	8	2	9	40	26	9	2
Japan	305	491	1	221	386	86	1	91
Papua New Guinea	13	38	45	21	28	19	15	31
United Arab Emirates	1	1	2	1	2	1	1	1
Other	5	48	20	37	58	41	19	126
Total	330	586	70	289	513	173	46	251
(value, $m)	59	109	17	61	96	33	13	76
Oats								
Asia								
Japan	19	9	8	8	8	6	4	3
Korea, Rep. of	3	1	1	1	2	2	2	1
Philippines	5	5	5	6	7	7	3	4
Libya	0	3	0	0	0	0	0	0
Malta	1	0	0	0	0	0	0	0
Middle East								
United Arab Emirates	2	2	2	4	2	2	1	1
Other **a**	68	111	161	153	147	174	52	106
Total	97	130	178	172	165	190	62	115
(value, $m)	22	37	44	38	36	47	20	37

a No country detail provided due to confidentiality restrictions.

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

51 Australian coarse grains supply and disposal, by grain a

	Area	Production	Exports b	Estimated domestic disposals	
				Feed and food	Seed c
	'000 ha	kt	kt	kt	kt
Barley d					
2002-03	3 864	3 865	2 607	1 815	201
2003-04	4 477	10 382	6 999	2 268	208
2004-05	4 645	7 740	4 862	2 472	198
2005-06	4 406	9 482	5 917	2 576	184
2006-07	4 182	4 257	2 562	2 950	203
2007-08	4 405	5 920	4 030	2 265	195
Oats					
2002-03	911	957	121	784	52
2003-04	1 089	2 018	210	1 766	43
2004-05	894	1 282	138	1 099	45
2005-06	931	1 688	191	1 452	47
2006-07	1 003	748	35	670	43
2007-08	898	843	180	619	44
Sorghum					
2002-03	667	1 465	64	1 397	4
2003-04	734	2 009	623	1 382	4
2004-05	755	2 011	259	1 749	4
2005-06	766	1 929	83	1 842	3
2006-07	613	1 283	110	1 169	4
2007-08	800	2 813	881	1 928	4
Maize					
2002-03	50	310	16	293	1
2003-04	70	395	10	384	1
2004-05	72	418	5	412	1
2005-06	76	362	10	369	1
2006-07	49	240	11	228	1
2007-08	68	387	24	365	1
Triticale					
2002-03	408	327	0	305	22
2003-04	445	826	0	807	19
2004-05	389	611	0	594	17
2005-06	347	676	0	660	16
2006-07	369	199	0	181	18
2007-08	360	450	0	432	18
Total					
2002-03	5 900	6 924	2 810	4 593	281
2003-04	6 815	15 630	7 845	6 607	275
2004-05	6 755	12 062	5 265	6 326	266
2005-06	6 526	14 137	6 229	6 899	252
2006-07	6 216	6 727	3 435	5 198	269
2007-08	6 531	10 413	4 674	5 609	262

a Crop years are November–October for barley, oats and triticale, and March–February for sorghum and maize. **b** Exports reflect the volume of grain exported from the respective crops harvested. For example the volume of exports reported for 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: 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: ABARE, *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;

52 Australian feedgrains prices

	Barley a	Oats b	Sorghum c	Maize c	Feed wheat c	Triticale c
	$/t	$/t	$/t	$/t	$/t	$/t
1981-82	111.19	105.60	112.95	129.90	149.78	na
1982-83	158.14	163.33	149.48	173.59	184.11	na
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	133.48	110.44	141.63	173.38	155.38	130.84
1999-00	141.03	103.23	130.58	161.14	153.63	138.95
2000-01	173.80	136.96	162.60	186.58	171.83	176.29
2001-02	202.95	191.46	187.52	224.90	211.97	211.96
2002-03	304.78	333.85	288.89	343.07	309.69	308.47
2003-04	203.16	180.43	194.70	254.06	220.74	210.28
2004-05	178.59	171.27	172.20	226.80	194.66	189.14
2005-06	181.91	180.75	171.41	212.67	192.15	188.45
2006-07	296.75	367.17	271.75	338.25	289.44	297.08
2007-08	348.67	362.33	343.00	422.42	428.04	379.42
2007						
January	349.00	460.00	308.00	394.00	320.50	350.00
February	328.00	470.00	298.00	383.00	314.75	330.00
March	308.00	465.00	281.00	385.00	301.25	310.00
April	311.00	433.00	278.00	368.00	293.00	313.00
May	319.00	394.00	282.00	400.00	294.00	320.00
June	330.00	328.00	293.00	429.00	299.50	325.00
July	324.00	315.00	304.00	430.00	311.25	330.00
August	329.00	315.00	301.00	422.00	316.40	321.00
September	413.00	388.00	368.00	420.00	408.75	385.00
October	403.00	424.00	433.00	448.00	458.00	406.00
November	350.00	373.00	418.00	455.00	430.00	420.00
December	360.00	370.00	413.00	450.00	443.33	435.00
2008						
January	320.00	355.00	370.00	448.00	446.25	413.00
February	296.00	361.00	301.00	405.00	475.00	351.00
March	322.00	366.00	306.00	348.00	512.50	353.00
April	328.00	374.00	305.00	391.00	470.00	370.00
May	359.00	361.00	291.00	418.00	430.00	368.00
June	380.00	346.00	306.00	434.00	435.00	401.00
July	366.00	336.00	290.00	413.00	449.00	419.00
August	331.00	319.00	274.00	399.00	418.75	393.00

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.

53 Summary of world statistics for coarse grains

	Area	Production	Use	Closing stocks a World	Closing stocks a United States	Stocks to use ratio	Trade b	Use per person	Price c
	million ha	Mt	Mt	Mt	Mt	%	Mt	kg	US$/t
1961-62	315	432.2	435.0	103.6	67	24	31	142	46.0
1962-63	314	448.6	450.0	101.4	59	23	32	143	51.0
1963-64	321	458.3	452.8	106.1	64	23	35	140	55.0
1964-65	315	460.5	465.7	98.1	51	21	35	143	56.0
1965-66	313	472.4	484.3	80.3	40	17	41	147	55.0
1966-67	315	508.8	505.4	83.3	36	16	43	148	60.0
1967-68	319	533.4	521.2	94.4	46	18	43	150	50.0
1968-69	318	533.8	530.5	97.8	47	18	41	149	49.0
1969-70	323	558.0	553.2	97.8	46	18	43	154	54.0
1970-71	323	559.2	569.2	83.5	32	15	52	155	63.0
1971-72	324	617.4	598.4	99.6	47	17	57	159	52.0
1972-73	317	594.2	608.0	81.2	32	13	61	159	72.0
1973-74	335	659.3	655.7	79.8	22	12	68	168	114.0
1974-75	333	622.6	610.6	88.8	21	15	63	153	132.0
1975-76	339	641.0	632.8	92.8	24	15	74	156	116.0
1976-77	342	692.0	668.6	113.8	37	17	81	162	108.0
1977-78	344	691.0	676.4	124.0	50	18	87	161	95.0
1978-79	341	744.1	722.7	143.3	58	20	91	169	103.0
1979-80	341	735.5	731.1	153.2	64	21	97	166	115.0
1980-81	341	723.4	726.5	142.6	44	20	107	166	142.0
1981-82	349	759.0	737.7	168.4	78	23	96	162	118.0
1982-83	339	775.3	749.0	202.2	109	27	92	161	115.0
1983-84	334	678.1	743.3	133.1	40	18	92	160	146.0
1984-85	335	806.0	766.7	171.9	58	22	99	161	124.0
1985-86	341	833.7	763.5	242.2	127	32	82	157	106.0
1986-87	338	823.8	785.1	277.9	153	35	85	160	77.0
1987-88	325	787.1	796.9	263.3	134	33	88	159	86.0
1988-89	325	723.0	780.8	203.4	66	26	99	153	118.0
1989-90	323	794.6	815.3	182.5	46	22	105	157	110.7
1990-91	317	828.7	814.4	195.2	48	24	89	154	106.5
1991-92	323	812.5	812.8	194.4	34	24	96	151	110.4
1992-93	326	869.4	834.6	219.3	63	26	92	153	97.9
1993-94	318	798.2	832.8	181.1	27	22	87	150	114.8
1994-95	324	869.2	854.6	196.5	45	23	99	152	105.3
1995-96	315	801.0	829.9	161.8	14	20	88	145	160.1
1996-97	323	909.1	866.8	201.7	27	23	94	149	132.4
1997-98	311	881.2	866.4	215.8	38	25	86	147	112.4
1998-99	309	890.5	869.0	237.2	51	27	94	147	94.5
1999-00	300	877.6	876.8	231.8	49	26	107	147	89.9
2000-01	297	862.3	882.1	209.3	53	24	104	144	86.6
2001-02	301	894.1	904.3	195.6	45	22	102	146	90.1
2002-03	293	875.3	901.1	169.9	31	19	102	144	107.3
2003-04	307	915.9	943.4	140.3	29	15	104	149	115.0
2004-05	300	1 016.0	978.8	177.8	59	18	101	152	97.5
2005-06	302	980.4	990.9	163.7	55	17	107	152	103.9
2006-07	306	989.2	1 011.6	134.7	138	13	117	153	150.8
2007-08	319	1 077.0	1 063.3	147.8	45	14	124	160	201.4

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** October–September 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; ABARE.

54 World coarse grains production, by region and country

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Egypt	6.6	7.1	7.1	6.8	6.9	7.0	7.2	7.2
Nigeria	17.9	18.8	19.1	20.3	23.2	24.7	26.0	24.0
South Africa	8.4	10.5	10.1	10.4	12.2	7.3	7.8	13.0
Americas								
Argentina	19.6	18.7	19.4	18.6	24.9	19.2	27.5	25.4
Brazil	43.1	36.8	47.1	44.9	37.8	44.2	53.2	61.0
Canada	24.0	22.6	19.9	25.8	25.6	25.0	23.1	27.8
Mexico	24.4	27.2	26.5	30.3	28.9	25.8	29.1	29.7
United States	273.1	261.7	243.7	275.1	319.4	298.8	280.1	351.1
Asia								
China	114.0	122.2	130.7	124.0	138.3	147.7	159.1	159.0
India	31.6	34.7	25.7	37.4	33.6	34.0	33.8	40.8
Thailand	4.8	4.6	4.4	4.2	4.3	4.3	3.9	3.9
Turkey	10.2	9.5	10.0	10.0	11.0	11.9	10.9	9.5
Europe								
European Union **a**	139.9	150.4	148.3	131.7	166.5	146.7	137.4	136.4
France	28.0	28.7	30.1	24.2	30.3	26.5	25.4	27.0
Germany	23.7	27.1	22.7	20.1	25.3	22.2	21.0	19.5
Italy	12.1	12.0	12.4	9.8	12.6	12.5	11.0	10.8
Spain	14.8	11.5	13.4	13.6	16.1	8.6	12.1	16.3
Romania	6.2	11.1	9.9	7.9	16.6	11.8	9.6	4.3
Russian Federation	28.2	35.2	33.4	30.5	29.6	27.6	30.2	29.3
Ukraine	13.0	17.0	17.1	15.6	23.0	18.1	19.2	14.6
Oceania								
Australia	10.9	13.0	6.9	15.6	12.1	14.1	6.7	10.4
Other	86.4	93.0	96.0	106.8	102.2	112.2	124.4	129.6
Total **b**	862.3	894.1	875.3	915.9	1 016.0	980.4	989.2	1 077.0

a Regarded as twenty seven 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.*

55 World coarse grains production, by grain

	Corn	Barley	Sorghum	Oats	Total a
	Mt	Mt	Mt	Mt	Mt
1960-61	199.6	78.9	40.8	55.9	439.3
1961-62	207.8	74.3	38.6	48.9	432.2
1962-63	207.3	87.1	41.8	48.7	448.6
1963-64	217.1	89.2	43.7	45.8	458.3
1964-65	215.4	96.3	41.6	42.6	460.5
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	61.5	42.5	735.5
1980-81	408.7	157.4	59.4	41.5	723.4
1981-82	441.8	149.5	70.4	40.2	759.0
1982-83	439.9	161.2	65.2	46.2	775.3
1983-84	348.3	158.5	58.5	43.5	678.1
1984-85	458.4	170.5	65.8	45.8	806.0
1985-86	479.0	173.6	70.2	47.0	833.7
1986-87	475.4	178.1	64.5	44.6	823.8
1987-88	451.0	175.3	56.6	40.6	787.1
1988-89	400.9	164.0	54.6	35.4	723.0
1989-90	462.0	166.1	55.4	39.3	794.6
1990-91	482.1	179.0	53.8	39.3	828.7
1991-92	493.2	169.8	53.7	33.0	812.5
1992-93	536.1	166.2	65.6	33.9	869.4
1993-94	476.0	169.2	55.5	35.4	798.2
1994-95	559.0	160.7	57.7	32.9	869.2
1995-96	515.9	141.6	55.4	28.6	801.0
1996-97	592.6	153.6	69.7	30.6	909.1
1997-98	573.8	154.2	58.1	31.0	881.2
1998-99	605.7	135.7	60.8	25.7	890.5
1999-00	607.4	127.5	59.4	24.1	877.6
2000-01	607.6	132.9	53.8	26.0	862.3
2001-02	590.7	152.3	58.3	27.0	894.1
2002-03	600.1	134.8	52.8	25.6	875.3
2003-04	627.2	142.5	58.3	26.3	915.9
2004-05	715.8	153.0	57.5	25.7	1 016.0
2005-06	699.2	136.6	58.4	23.9	980.4
2006-07	712.4	137.4	57.0	23.2	989.2
2007-08	792.0	133.2	63.2	25.6	1 077.0

a Includes rye, millet and mixed grain.

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

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	1.9	2.0	1.7	1.9	2.0	2.2	2.6	2.1
Egypt	5.3	5.0	4.9	3.8	5.4	4.4	4.7	4.2
Americas								
Brazil	0.6	0.6	1.1	0.5	0.7	1.4	1.1	0.9
Colombia	2.0	2.1	2.4	2.2	2.5	3.4	3.7	3.5
Mexico	11.2	9.0	8.8	8.9	9.0	9.9	11.0	10.6
Asia								
China	2.4	2.0	1.8	1.5	2.1	2.3	1.4	1.3
Chinese Taipei	5.2	4.9	4.8	5.1	4.8	4.7	4.6	4.4
Japan	20.2	19.9	20.3	20.0	19.7	19.8	19.7	19.3
Korea, Rep. of	8.9	8.8	8.9	9.0	8.7	8.5	8.8	9.2
Malaysia	2.6	2.4	2.4	2.4	2.4	2.5	2.4	2.5
Europe								
European Union **a**	4.1	3.9	4.4	8.2	3.0	2.8	8.1	19.8
Russian Federation	0.8	0.7	0.4	1.0	0.7	0.5	0.4	0.4
Middle East								
Iran	2.2	1.9	2.2	2.1	3.7	3.4	3.7	3.4
Saudi Arabia	6.9	7.1	8.5	8.4	6.9	8.5	8.3	9.0
Turkey	0.7	1.3	1.5	1.3	0.4	0.1	1.1	1.5
Total **b**	101.8	99.2	100.4	100.6	100.4	104.4	113.2	124.2
Exports								
Africa								
South Africa	1.3	1.1	1.1	0.8	2.2	0.6	0.5	1.5
Asia								
China	7.3	8.6	15.3	7.7	7.6	3.8	5.4	1.0
Americas								
Argentina	10.3	11.4	11.9	11.3	15.2	10.0	17.0	16.9
Brazil	6.3	2.1	4.7	4.8	0.7	4.5	11.1	7.8
Canada	3.7	2.5	1.7	3.6	2.8	4.1	3.7	6.0
United States	56.6	55.1	45.7	53.8	51.4	59.8	58.4	69.9
Europe								
European Union **a**	9.3	6.7	7.6	4.2	4.9	4.4	4.7	4.6
Oceania								
Australia	5.2	5.9	2.8	7.8	5.3	6.2	2.7	5.1
Total **b**	104.1	102.0	102.1	103.6	100.9	107.1	117.5	124.7

a Regarded as twenty seven countries. **b** Includes some unspecified countries.

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.

57 Volume of world corn trade, by region and country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canada	2.7	4.0	3.9	2.0	2.4	1.9	2.1	3.2
China	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Chinese Taipei	4.9	4.7	4.7	5.0	4.5	4.5	4.3	4.2
Colombia	1.9	1.9	2.1	2.0	2.3	3.2	3.4	3.2
European Union b	3.7	2.2	2.8	5.9	2.5	2.6	7.1	13.5
Indonesia	1.3	1.1	1.6	1.4	0.5	1.4	1.2	0.2
Japan	16.3	16.4	16.9	16.8	16.5	16.6	16.7	16.6
Korea, Rep. of	8.7	8.6	8.8	8.8	8.6	8.5	8.7	9.1
Malaysia	2.6	2.4	2.4	2.4	2.4	2.5	2.4	2.5
Mexico	6.0	4.1	5.3	5.7	5.9	6.8	8.9	9.2
Saudi Arabia	1.4	1.3	1.4	1.6	1.2	1.5	1.6	2.0
Total c	75.4	72.5	75.1	76.5	76.7	79.4	90.9	95.9
Exports								
Argentina	9.7	10.9	11.2	10.9	14.6	9.5	15.3	15.0
Brazil	6.3	2.1	4.6	4.4	0.7	4.5	10.8	7.5
China	7.3	8.6	15.2	7.6	7.6	3.7	5.3	0.6
South Africa	1.3	1.1	1.1	0.7	2.1	0.5	0.5	1.5
United States	49.3	48.4	40.3	48.3	46.2	54.2	54.0	61.9
Other	3.0	3.6	4.2	5.3	6.4	8.5	7.9	9.3
Total	76.8	74.6	76.7	77.3	77.6	80.9	93.8	95.8

a Marketing years of individual countries. **b** Regarded as twenty seven countries. Excludes intra-EU trade. **c** Includes some unspecified countries.
Source: US Department of Agriculture, *Production, Supply and Distribution Database,* Washington DC.

58 Volume of world barley trade, by region and country

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
China	2.3	1.9	1.8	1.5	2.0	2.2	1.1	1.2
European Union a	0.4	1.4	1.1	0.7	0.3	0.1	0.2	0.3
Japan	1.5	1.4	1.4	1.4	1.5	1.4	1.4	1.4
Russian Federation	0.4	0.2	0.3	0.4	0.3	0.2	0.2	6.2
Saudi Arabia	5.5	5.8	7.1	6.8	5.7	7.1	6.7	7.0
Total b	16.3	16.6	16.5	15.0	15.9	17.3	14.8	16.2
Exports								
Australia	4.6	5.3	2.6	7.0	4.9	5.9	2.6	4.0
Canada	2.0	1.1	0.4	1.8	1.2	2.3	1.2	3.0
European Union a	7.2	4.2	5.2	2.6	3.3	3.3	3.5	3.9
United States	1.3	0.6	0.7	0.4	0.5	0.6	0.4	0.9
Total b	16.7	17.3	16.2	16.4	15.1	18.2	15.3	15.5

a Regarded as twenty seven countries. Excludes intra-EU trade. **b** Includes some unspecified countries.
Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database,* Washington DC.

59 Volume of world sorghum trade, by country

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Chinese Taipei	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
European Union **a**	0.0	0.0	0.0	1.6	0.2	0.1	0.7	5.8
Israel	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.2
Japan	2.0	1.8	1.6	1.4	1.4	1.4	1.3	1.2
Mexico	5.0	4.8	3.4	3.0	2.9	3.0	2.0	1.1
Total **b**	7.6	7.0	5.5	6.5	5.3	5.2	4.7	9.1
Exports								
Argentina	0.4	0.4	0.6	0.2	0.4	0.2	1.1	1.1
Australia	0.6	0.4	0.1	0.6	0.2	0.1	0.1	0.1
United States	6.0	6.1	4.7	5.0	4.7	4.9	4.0	7.1
Total **b**	7.3	7.1	5.7	6.5	5.4	5.4	5.3	9.2

a Regarded as twenty seven countries. Excludes intra-EU trade. **b** Includes some unspecified countries.
Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database,* Washington DC.

60 US coarse grains supply and disposal

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Area	million ha	35.6	33.9	33.5	34.8	34.9	34.9	32.5	39.9
Yield	t/ha	7.7	7.7	7.3	7.9	9.2	8.6	8.6	8.8
Production	Mt	273.1	261.7	243.7	275.1	319.4	298.8	280.1	351.1
Opening stocks	Mt	48.9	52.7	45.0	30.9	28.8	58.8	54.8	36.2
Imports	Mt	2.7	2.6	2.6	2.4	2.2	2.1	2.5	3.5
Availability	Mt	324.7	317.0	291.3	308.5	350.4	359.6	337.4	390.7
Domestic use	Mt	215.4	216.8	214.7	225.9	240.3	245.0	243.0	275.8
– feed	Mt	160.1	159.6	150.0	155.8	165.9	163.3	148.4	159.7
– food, seed	Mt	55.3	57.2	64.7	70.1	74.4	81.7	94.6	116.1
Exports	Mt	56.6	55.1	45.7	53.8	51.4	59.8	58.4	69.9
Closing stocks	Mt	52.6	45.1	30.9	28.8	58.8	54.8	138.4	45.1
– CCC **a**	Mt	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
– free	Mt	52.4	44.9	30.8	28.8	58.8	54.7	36.2	45.1

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

61 US corn supply and disposal a

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Area									
– planted	million ha	32.2	30.7	31.9	31.8	32.7	33.1	31.9	38.6
– harvested	million ha	29.3	27.8	28.1	28.7	29.8	30.4	28.6	35.0
Yield	t/ha	8.60	8.68	8.11	8.93	10.06	9.29	9.36	9.49
Production	Mt	251.9	241.4	227.8	256.3	299.9	282.3	267.6	332.1
Opening stocks	Mt	43.6	48.2	40.6	27.6	24.3	53.7	50.0	33.1
Imports	Mt	0.2	0.3	0.4	0.4	0.3	0.2	0.3	0.5
Availability	Mt	295.7	289.9	268.7	284.2	324.5	336.2	317.9	365.7
Domestic use	Mt	198.1	201.0	200.7	211.6	224.6	232.0	230.7	262.6
– feed	Mt	148.4	149.0	141.3	147.2	156.4	156.3	142.2	152.4
– food, seed	Mt	49.7	52.0	59.4	64.4	68.2	75.7	88.5	110.2
Exports	Mt	49.3	48.4	40.3	48.3	46.2	54.2	54.0	61.9
Closing stocks	Mt	48.2	40.6	27.6	24.3	53.7	50.0	33.1	41.3
– CCC b	Mt	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
– free	Mt	48.0	40.4	27.5	24.3	53.7	50.0	33.1	41.3
Farm price	US$/bus	1.85	1.97	2.32	2.42	2.06	3.04	4.20	5.50
Loan rate	US$/bus	1.89	1.89	1.98	1.98	1.95	1.95	1.95	1.95
Export price c	US$/t	86.6	90.1	107.3	115.0	97.5	103.9	150.8	201.4

a September–August crop years. **b** Commodity Credit Corporation. **c** 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.

62 US sorghum and barley supply and disposal

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Sorghum a									
Area harvested	million ha	3.1	3.5	2.9	3.2	2.6	2.3	2.0	2.8
Yield	t/ha	3.8	3.8	3.2	3.3	4.4	4.3	3.6	4.6
Production	Mt	12.0	13.1	9.2	10.4	11.5	10.0	7.1	12.8
Opening stocks	Mt	1.7	1.1	1.5	1.1	0.9	1.4	1.7	0.8
Availability	Mt	13.6	14.1	10.7	11.5	12.4	11.4	8.7	13.6
Domestic use	Mt	6.5	6.4	4.9	5.6	6.3	4.8	3.9	5.2
Exports	Mt	6.0	6.1	4.7	5.0	4.7	4.9	4.0	7.1
Closing stocks	Mt	1.1	1.5	1.1	0.9	1.4	1.7	0.8	1.3
Farm price	US$/bus	1.9	1.9	2.3	2.4	1.8	3.3	4.1	5.0
Loan rate	US$/bus	1.7	1.7	2.0	2.0	2.0	2.0	2.0	2.0
Export price **b**	US$/t	95.6	99.9	120.7	127.9	108.8	119.8	171.2	224.0
Barley c									
Area harvested	million ha	2.1	1.7	1.7	1.9	1.6	1.3	1.2	1.4
Yield	t/ha	3.3	3.1	3.0	3.2	3.7	3.5	3.3	3.3
Production	Mt	6.9	5.4	4.9	6.1	6.1	4.6	3.9	4.6
Opening stocks	Mt	2.4	2.3	2.0	1.5	2.6	2.8	2.4	1.5
Imports	Mt	0.6	0.5	0.4	0.4	0.3	0.1	0.3	0.7
Availability	Mt	10.0	8.2	7.3	8.0	9.0	7.5	6.5	6.8
Domestic use	Mt	6.4	5.7	5.2	5.0	5.7	4.6	4.6	4.4
Exports	Mt	1.3	0.6	0.7	0.4	0.5	0.6	0.4	0.9
Closing stocks	Mt	2.3	2.0	1.5	2.6	2.8	2.4	1.5	1.5
Farm price	US$/bus	2.1	2.2	2.7	2.8	2.5	2.9	4.0	5.7
Loan rate	US$/bus	1.6	1.7	1.9	1.9	1.9	1.9	1.9	1.9
Export price **d**	US$/t	110.6	111.6	128.5	132.3	114.8	123.0	190.1	302.6

a September–August crop years. **b** US no. 2 sorghum fob Gulf. **c** June–May crop years. **d** No. 2 barley fob Portland (July–June average).
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.

63 Feedgrains export price quotation, by category

	US no. 2 hard red winter wheat (Gulf) a	US no. 2 yellow corn (Gulf) a	US no. 2 sorghum (Gulf) a	US no. 2 barley (Portland) b
	US$/t	US$/t	US$/t	US$/t
1983-84	154.0	146.0	131.0	138.0
1984-85	148.0	124.0	110.0	119.0
1985-86	128.0	106.0	94.0	100.0
1986-87	110.5	77.0	71.0	94.0
1987-88	123.4	86.0	80.0	101.0
1988-89	165.8	118.0	103.5	127.0
1989-90	160.8	110.7	103.7	123.0
1990-91	117.9	106.5	104.4	118.0
1991-92	151.0	110.4	109.7	122.0
1992-93	141.3	97.9	95.8	115.0
1993-94	141.5	114.8	111.9	112.0
1994-95	156.4	105.3	103.7	119.1
1995-96	215.3	160.1	156.9	166.9
1996-97	178.5	132.4	124.5	137.8
1997-98	141.8	112.4	113.3	118.2
1998-99	119.1	94.5	94.5	95.9
1999-00	113.2	89.9	88.6	105.3
2000-01	128.5	86.6	95.6	110.6
2001-02	127.5	90.1	99.9	111.6
2002-03	160.5	107.3	120.7	128.5
2003-04	160.5	115.0	127.9	132.3
2004-05	153.9	97.5	108.8	114.8
2005-06	176.3	103.9	119.8	123.0
2006-07	211.9	150.8	171.2	190.1
2007-08	362.1	201.4	224.0	302.6
2007				
January	207.8	165.5	188.3	na
February	210.0	177.6	201.1	na
March	208.4	170.5	187.9	na
April	211.3	153.2	na	0.0
May	202.5	160.5	na	194.0
June	231.8	165.5	na	215.0
July	253.8	147.5	na	225.0
August	278.2	151.5	171.7	252.0
September	350.5	159.7	195.3	na
October	353.0	164.5	190.9	na
November	337.6	171.7	196.7	na
December	383.5	181.2	206.0	na
2008				
January	385.5	207.0	231.4	na
February	446.0	220.4	239.1	na
March	453.8	234.9	244.7	na
April	388.0	247.0	257.4	na
May	346.4	243.9	250.1	na
June	368.8	287.7	285.7	na
July	346.3	268.6	238.0	na
August	342.6	234.5	226.7	na

a Export price, fob Gulf ports. **b** Export price, fob Portland. **na** not available.

Sources: International Grains Council, *Market Report,* London; US Department of Agriculture, Economic Research Service, *Wheat Situation and Outlook Report,* Washington DC.

64 Coarse grains supply and disposal in major exporting countries

	Area harvested	Yield	Production	Domestic use	Exports	Closing stocks
	million ha	t/ha	Mt	Mt	Mt	Mt
United States (September–August)						
2001-02	33.9	7.72	261.7	216.8	55.1	45.1
2002-03	33.5	7.28	243.7	214.7	45.7	30.9
2003-04	34.8	7.91	275.1	225.9	53.8	28.8
2004-05	34.9	9.15	319.4	240.3	51.4	58.8
2005-06	34.9	8.56	298.8	245.0	59.8	54.8
2006-07	32.5	8.62	280.1	243.0	58.4	138.4
2007-08	39.9	8.80	351.1	275.8	69.9	45.1
Canada (August–July) **a**						
2001-02	6.9	3.26	22.6	25.0	2.5	3.5
2002-03	6.2	3.20	19.9	22.8	1.7	3.1
2003-04	7.3	3.53	25.8	23.3	3.6	4.1
2004-05	6.4	4.00	25.6	23.0	2.8	6.3
2005-06	6.2	4.03	25.0	22.9	4.1	6.3
2006-07	6.1	3.79	23.1	24.3	3.7	3.7
2007-08	7.4	3.76	27.8	24.5	6.0	4.0
Argentina (March–February)						
2001-02	3.7	5.07	18.7	7.6	11.4	1.0
2002-03	3.6	5.34	19.4	7.4	11.9	1.0
2003-04	3.4	5.50	18.6	7.4	11.3	1.0
2004-05	4.0	6.23	24.9	9.1	15.2	1.6
2005-06	3.5	5.49	19.2	9.4	10.0	1.5
2006-07	4.1	6.71	27.5	9.8	17.0	2.3
2007-08	4.5	5.64	25.4	10.3	16.9	0.5
Australia (November–October)						
2001-02	5.8	2.25	13.0	6.7	5.9	2.0
2002-03	5.9	1.17	6.9	4.9	2.8	1.2
2003-04	6.8	2.29	15.6	6.9	7.8	2.3
2004-05	6.8	1.79	12.1	6.6	5.3	2.3
2005-06	6.5	2.17	14.1	7.2	6.2	3.2
2006-07	6.2	1.08	6.7	5.5	2.7	1.5
2007-08	6.5	1.59	10.4	5.9	5.1	0.7
European Union (July–June) **b**						
2001-02	33.7	4.46	150.4	143.6	6.7	22.3
2002-03	32.7	4.54	148.3	144.9	7.6	22.5
2003-04	32.6	4.04	131.7	145.2	4.2	13.0
2004-05	33.5	4.97	166.5	152.6	4.9	25.0
2005-06	32.6	4.50	146.7	147.5	4.4	22.6
2006-07	31.9	4.31	137.4	147.7	4.7	15.3
2007-08	32.1	4.25	136.4	153.4	4.6	13.5
World						
2001-02	301.4	2.97	894.1	904.3	102.0	195.6
2002-03	293.3	2.98	875.3	901.5	102.1	169.9
2003-04	307.1	2.98	915.9	943.4	103.6	140.3
2004-05	300.2	3.38	1 016.0	977.7	100.9	177.8
2005-06	301.7	3.25	980.4	988.8	107.1	163.7
2006-07	306.0	3.23	989.2	1 011.0	117.5	134.7
2007-08	318.6	3.38	1 077.0	1 066.0	123.6	147.8

a Canada also imports about 0.5 million tonnes of grain from the United States each year. **b** Regarded as twenty five countries.

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

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

65 Australian cotton area harvested and lint yield a

	Area harvested			Lint yield		
	New South Wales	Queensland	Australia b	New South Wales	Queensland	Australia b
	'000 ha	'000 ha	'000 ha	t/ha	t/ha	t/ha
1961-62	na	na	11.7	na	na	0.188
1962-63	na	na	15.3	na	na	0.118
1963-64	na	na	15.6	na	na	0.161
1964-65	7.3	7.9	15.3	0.942	0.207	0.555
1965-66	12.5	5.9	22.2	1.247	0.326	0.788
1966-67	12.3	5.5	21.5	0.927	0.541	0.668
1967-68	19.4	5.2	31.1	1.301	0.731	0.933
1968-69	22.3	6.3	32.5	1.158	0.722	0.935
1969-70	23.1	5.9	31.7	0.880	0.735	0.778
1970-71	26.4	5.2	35.1	0.485	0.596	0.454
1971-72	29.3	6.9	40.1	1.133	0.957	0.993
1972-73	31.7	8.0	43.6	0.744	0.600	0.651
1973-74	31.0	7.1	41.7	0.703	0.930	0.681
1974-75	27.5	7.4	38.5	0.982	0.797	0.854
1975-76	23.9	6.0	29.8	0.853	0.750	0.834
1976-77	24.8	8.9	35.3	0.847	0.787	0.794
1977-78	31.6	9.6	41.6	1.104	0.969	1.063
1978-79	36.1	13.4	49.8	1.102	0.993	1.065
1979-80	51.4	20.0	75.0	1.243	0.965	1.109
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	2.023	1.556	1.910
2007-08	41.2	21.4	62.7	2.252	1.864	2.120

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; ABARE.

66 Australian cottonseed and lint production a

	Cottonseed production			Lint production		
	New South Wales	Queensland	Australia b	New South Wales	Queensland	Australia b
	kt	kt	kt	kt	kt	kt
1961-62	na	na	3.8	na	na	2.2
1962-63	na	na	3.1	na	na	1.8
1963-64	na	na	4.4	na	na	2.5
1964-65	11.8	2.8	17.4	6.9	1.6	8.5
1965-66	27.0	3.3	35.4	15.6	1.9	17.5
1966-67	20.0	5.2	32.1	11.4	3.0	14.4
1967-68	43.9	6.6	57.3	25.2	3.8	29.0
1968-69	44.9	8.0	58.5	25.8	4.5	30.4
1969-70	35.5	7.7	48.3	20.3	4.3	24.7
1970-71	22.3	5.4	31.9	12.8	3.1	15.9
1971-72	52.8	12.7	69.1	33.2	6.6	39.8
1972-73	36.4	10.7	50.7	23.6	4.8	28.4
1973-74	35.7	10.8	49.8	21.8	6.6	28.4
1974-75	44.1	9.7	53.8	27.0	5.9	32.9
1975-76	33.2	7.4	40.6	20.4	4.5	24.9
1976-77	34.9	11.7	46.6	21.0	7.0	28.0
1977-78	56.9	15.2	72.1	34.9	9.3	44.2
1978-79	56.8	21.7	78.5	39.8	13.3	53.1
1979-80	104.3	31.5	135.8	63.9	19.3	83.2
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	220.0	54.3	274.2
2007-08	125.1	52.8	177.9	92.8	40.0	132.8

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; ABARE.

67 Australian production, trade and use of raw cotton

	Domestic lint production a	Gross value of production b	Imports		Exports	
			Volume	Value	Volume	Value
	kt	$m	kt	$m	kt	$m
1961-62	2.2	1.3	na	na	na	na
1962-63	1.8	1.9	19.3	na	na	na
1963-64	2.5	2.2	25.7	na	na	na
1964-65	8.5	7.7	25.2	na	na	na
1965-66	17.5	14.3	14.6	8.2	na	na
1966-67	14.4	12.5	9.1	4.7	na	na
1967-68	29.0	19.7	12.3	6.9	na	na
1968-69	30.4	21.0	5.7	3.8	3.7	1.9
1969-70	24.7	19.1	4.7	3.0	11.5	5.1
1970-71	15.9	13.3	7.0	4.3	7.4	3.4
1971-72	39.8	30.1	8.9	5.8	2.4	1.6
1972-73	28.4	32.6	3.8	2.7	22.3	11.3
1973-74	28.4	26.6	8.4	9.3	3.2	1.8
1974-75	32.9	29.3	4.0	4.8	7.7	5.4
1975-76	24.9	37.5	4.1	4.4	16.0	11.5
1976-77	28.0	39.8	5.0	7.4	5.5	7.1
1977-78	44.2	61.2	4.0	5.6	9.8	10.9
1978-79	53.1	71.4	1.7	3.1	23.6	28.5
1979-80	83.2	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	0.7	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	409.3	706.3	0.3	1.3	396.0	755.5
1993-94	367.5	652.2	0.3	1.4	360.5	732.0
1994-95	375.0	851.2	0.2	1.2	296.8	678.7
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	1 104.8	0.0	0.0	650.2	1 137.4
2006-07	274.2	514.4	0.0	0.1	486.5	823.4
2007-08	132.8	270.7	0.0	0.0	266.4	465.7

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; ABARE.

68 Volume of Australian exports of raw cotton, by destination

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	778.6	674.8	559.9	444.6	395.8	642.6	481.2	262.6
China	11.4	13.1	29.6	79.9	61.8	284.6	163.0	90.5
Chinese Taipei	31.6	21.5	13.6	2.7	3.9	8.7	4.4	0.8
India	66.1	55.0	6.8	2.2	3.5	1.3	4.2	2.1
Indonesia	220.3	193.9	184.2	147.0	130.0	141.4	126.4	73.9
Japan	139.6	120.9	94.0	52.2	45.2	34.9	36.3	28.8
Korea, Rep. of	75.3	94.0	96.3	56.4	63.6	53.7	53.8	13.8
Pakistan	39.6	29.1	14.9	33.2	13.3	8.2	6.8	3.3
Philippines	11.6	5.1	3.3	0.7	0.2	1.3	0.0	0.4
Thailand	114.5	90.1	86.9	58.6	64.8	93.1	75.0	43.5
Other	68.8	52.1	30.2	11.7	9.7	15.4	11.5	5.6
Europe	49.3	41.3	31.5	11.9	10.2	6.9	4.7	1.8
Germany	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0
Italy	29.2	24.3	17.3	6.6	8.1	6.6	4.4	1.8
Spain	2.6	2.9	2.9	2.9	2.0	0.0	0.0	0.0
Other	17.5	14.1	11.0	2.2	0.1	0.3	0.3	0.0
United States	0.4	0.0	1.2	0.5	0.3	0.0	0.0	0.0
Other countries	6.5	2.4	4.8	2.5	4.2	0.8	0.7	1.9
Total	834.3	718.5	596.2	459.0	410.2	650.2	486.5	266.4

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

69 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
1962-63	na	59.0	na
1963-64	na	57.0	na
1964-65	na	57.0	na
1965-66	na	57.0	na
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	194.8	200.1
2000-01	57.2	254.5	234.7
2001-02	41.8	198.2	215.4
2002-03	55.4	235.8	193.4
2003-04	68.3	225.5	214.0
2004-05	52.4	167.0	187.9
2005-06	56.0	178.8	174.9
2006-07	58.1	176.0	169.2
2007-08	71.9	188.4	174.8

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; ABARE.

70 Summary of world statistics for raw cotton a

	Opening stocks	Production	Total supply	Consumption	Imports b	Price c
	kt	kt	kt	kt	kt	USc/lb
1961-62	4 110	9 703	17 294	9 713	3 481	na
1962-63	4 176	10 231	17 993	9 511	3 586	na
1963-64	5 015	11 064	19 952	10 364	3 873	na
1964-65	5 671	11 702	21 155	11 153	3 782	na
1965-66	6 314	12 396	22 440	11 663	3 730	na
1966-67	7 087	11 379	22 387	12 205	3 921	28.4
1967-68	6 196	11 226	21 203	12 233	3 781	31.3
1968-69	5 134	12 387	21 208	12 280	3 687	28.8
1969-70	5 220	11 828	20 901	12 165	3 853	28.0
1970-71	4 875	12 099	22 333	12 442	5 359	31.1
1971-72	4 756	12 879	23 006	12 711	5 371	37.2
1972-73	4 888	13 470	24 319	12 931	5 961	42.0
1973-74	5 331	13 603	24 757	13 136	5 823	76.5
1974-75	5 913	13 895	24 995	12 444	5 187	52.5
1975-76	7 262	11 752	24 737	13 444	5 723	65.3
1976-77	5 639	12 307	23 374	13 145	5 428	81.9
1977-78	4 873	13 914	24 692	13 353	5 905	65.1
1978-79	5 582	12 954	24 443	13 750	5 907	76.1
1979-80	4 759	14 249	25 650	14 351	6 642	85.4
1980-81	4 623	13 799	24 356	14 149	5 934	94.2
1981-82	4 487	14 988	25 070	13 836	5 595	73.8
1982-83	5 625	14 442	25 743	14 647	5 676	76.7
1983-84	5 542	14 430	25 863	15 061	5 891	87.7
1984-85	5 287	19 313	30 616	15 522	6 016	69.2
1985-86	9 172	17 449	32 931	16 456	6 310	49.0
1986-87	10 361	15 319	32 885	17 913	7 205	62.1
1987-88	7 711	17 733	32 091	18 437	6 647	72.3
1988-89	7 100	18 337	32 749	18 698	7 312	66.4
1989-90	6 760	17 356	31 238	18 972	7 122	82.4
1990-91	5 437	18 974	31 078	18 658	6 666	82.9
1991-92	5 976	20 748	33 050	18 846	6 327	63.1
1992-93	8 046	17 929	31 873	18 810	5 898	57.7
1993-94	7 508	16 922	30 523	18 657	6 093	70.6
1994-95	6 053	18 799	31 455	18 351	6 603	91.1
1995-96	6 965	20 438	33 289	18 593	5 885	85.5
1996-97	8 732	19 620	34 582	19 018	6 230	78.6
1997-98	9 712	20 092	35 456	18 874	5 652	72.2
1998-99	10 757	18 745	34 839	18 212	5 337	60.2
1999-00	11 499	19 152	36 750	19 694	6 099	52.5
2000-01	11 133	19 399	36 242	19 774	5 710	57.2
2001-02	10 748	21 490	38 618	20 373	6 380	41.8
2002-03	11 916	19 808	38 280	21 245	6 556	55.4
2003-04	10 432	21 067	38 903	21 146	7 405	68.3
2004-05	10 513	26 440	44 235	23 666	7 283	52.4
2005-06	13 192	25 382	48 240	25 332	9 667	56.0
2006-07	13 556	26 557	48 265	26 881	8 152	58.1
2007-08	13 676	26 204	48 232	26 958	8 352	71.9

a August–July crop year. **b** Includes trade among the twelve 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; ABARE.

71 World area, yield and production of raw cotton a

	Area harvested	Lint yield	Production					
			Brazil	India	Pakistan	United States	China	World
	'000 ha	kg/ha	kt	kt	kt	kt	kt	kt
1961-62	32 418	299	550	895	328	3 110	806	9 703
1962-63	31 763	322	501	1 086	368	3 228	740	10 231
1963-64	32 849	337	501	1 103	422	3 330	1 197	11 064
1964-65	33 523	349	457	1 031	380	3 297	1 655	11 702
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	2 826	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	33 769	581	306	3 030	1 594	4 124	4 202	19 620
1997-98	33 800	594	411	2 686	1 562	4 092	4 594	20 092
1998-99	32 894	570	521	2 805	1 494	3 030	4 507	18 745
1999-00	32 356	592	700	2 652	1 911	3 694	3 832	19 152
2000-01	32 016	606	939	2 380	1 824	3 742	4 420	19 399
2001-02	33 728	637	766	2 678	1 804	4 420	5 312	21 490
2002-03	30 752	644	847	2 308	1 736	3 747	5 487	19 808
2003-04	32 310	652	1 310	3 048	1 708	3 975	5 182	21 067
2004-05	35 709	740	1 285	4 137	2 425	5 062	6 597	26 440
2005-06	34 737	731	1 023	4 148	2 213	5 201	6 183	25 382
2006-07	34 694	765	1 524	4 746	2 155	4 700	7 729	26 557
2007-08	33 247	788	1 557	5 356	1 938	4 182	8 056	26 204

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.

72 Volume of world exports of raw cotton, by country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	1 048	1 103	1 270	1 373	1 391	1 514	1 268	964
Sub-saharan Africa	966	1 014	1 117	1 286	1 250	1 411	1 159	845
Burkina	113	142	158	207	212	305	294	169
America	1 714	2 668	2 771	3 344	3 608	4 388	3 220	3 536
United States	1 467	2 395	2 591	2 995	3 143	3 821	2 833	2 973
South America	227	251	164	319	433	510	348	514
Brazil	69	147	106	210	339	429	283	486
Australia	834	719	596	459	410	650	487	266
Greece	310	218	250	267	255	294	272	229
Mali	125	201	185	256	207	223	185	109
Uzbekistan	751	762	740	675	860	1 045	980	969
Other	938	659	791	871	887	1 590	1 670	2 370
Total	5 721	6 329	6 604	7 244	7 619	9 704	8 082	8 443

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.

73 Volume of world imports of raw cotton, by destination a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	2 759	3 228	3 504	4 639	4 467	6 966	5 324	5 906
Bangladesh	218	261	348	370	403	482	540	610
China	50	98	681	1 923	1 390	4 199	2 305	2 510
Chinese Taipei	226	333	265	220	291	247	253	229
Indonesia	577	513	485	468	479	479	479	501
Korea	309	352	325	277	292	220	233	212
Pakistan	102	188	190	393	382	352	502	827
Thailand	342	410	423	365	497	412	415	420
Turkey	383	648	493	516	743	740	871	697
Other Asia	933	1 073	786	622	732	576	598	597
European Union b	1 084	1 015	903	724	700	528	461	369
Mexico	406	450	507	405	394	380	295	333
Middle East	410	681	540	567	787	795	964	784
Russian Federation	359	392	359	321	316	310	305	278
Other	692	614	742	750	619	687	804	682
Total	5 710	6 380	6 556	7 405	7 283	9 667	8 152	8 352

a August–July crop year. Does not include cotton in transit. **b** Regarded as twenty seven 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.

74 Summary of Australian statistics for dairy products

	Dairy cow numbers a	Milk yield per cow	Production			Export price c	
			Milk b	Butter	Cheese	Butter	Cheese
	′000	L	ML	kt	kt	$/t	$/t
1963-64	3 296	2 064	6 803	206	59	618	477
1964-65	3 214	2 151	6 914	206	63	688	514
1965-66	3 094	2 236	6 919	209	60	669	534
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	1 728	5 337	9 223	128	359	3 392	4 768

a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of $5 000 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 $2 500 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, *Monthly Statistics,* Melbourne; ABARE.

75 Value of Australian exports of dairy products, by destination

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Cheese								
Japan	$m	429.5	272.0	299.6	378.9	298.5	337.9	426.7
Philippines	$m	20.0	15.7	11.1	18.4	13.7	13.1	23.4
Saudi Arabia	$m	148.2	98.9	69.0	81.5	103.5	86.7	89.7
United Kingdom	$m	21.5	15.2	18.3	20.5	20.1	14.8	21.2
United States	$m	48.3	36.1	33.9	45.4	54.2	52.7	37.2
Other	$m	367.3	362.4	307.4	332.0	347.2	319.0	370.1
Total	$m	1 034.8	800.3	739.2	876.7	837.2	824.2	968.3
Butter and butterfat a								
Egypt	$m	23.5	18.9	6.4	10.5	12.5	13.9	5.0
Malaysia	$m	14.4	12.7	13.5	11.6	15.8	11.0	17.4
Philippines	$m	5.1	3.7	1.9	2.8	5.4	3.2	2.4
Singapore	$m	20.4	15.5	18.2	16.8	21.1	14.4	26.2
Thailand	$m	23.0	13.2	12.7	13.5	12.0	9.8	13.9
Other	$m	211.1	160.0	130.1	133.2	157.9	126.2	129.6
Total	$m	297.5	224.0	182.9	188.5	224.7	178.6	194.6
Skim milk powder								
Japan	$m	53.7	29.6	13.3	10.6	12.5	11.1	9.8
Malaysia	$m	88.4	51.4	52.7	64.2	77.1	72.2	63.4
Philippines	$m	143.5	71.8	60.1	49.4	72.0	46.1	64.1
Singapore	$m	52.8	38.4	42.4	57.8	56.1	67.1	61.8
Thailand	$m	69.1	33.2	20.0	21.7	76.8	51.1	48.6
Other	$m	290.5	184.1	199.0	216.4	234.3	257.3	285.6
Total	$m	698.0	408.5	387.5	420.1	528.9	505.0	533.2
Casein								
Japan	$m	26.7	20.6	23.3	23.1	30.4	31.8	38.4
United States	$m	80.5	81.4	68.8	56.6	27.3	32.4	42.2
Other	$m	15.5	26.4	30.5	36.5	31.3	49.3	44.2
Total	$m	122.6	128.4	122.5	116.2	89.0	113.5	124.8
Wholemilk powder								
Malaysia	$m	39.2	22.3	28.9	33.1	23.8	14.5	27.3
Singapore	$m	29.7	25.2	21.4	30.9	44.6	41.4	88.9
Taiwan	$m	54.1	44.9	40.0	31.5	22.8	13.5	11.8
Thailand	$m	22.6	14.0	12.0	8.6	10.5	12.3	14.7
Other	$m	425.5	273.4	219.6	220.3	231.9	193.1	249.4
Total	$m	571.1	379.8	321.8	324.4	333.6	274.9	392.2
Other products								
Fresh milk	$m	98.2	98.2	104.0	108.8	107.3	96.3	83.6
Other fresh products	$m	7.9	5.6	9.6	9.1	6.3	11.8	12.0
Condensed milk	$m	123.7	133.3	121.0	139.8	147.5	156.9	152.4
Other powders	$m	277.3	274.4	257.3	248.3	241.5	211.0	247.4
Total	$m	507.0	511.5	492.0	506.0	502.6	476.0	495.4

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

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

76 Volume of Australian exports of dairy products, by destination

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Cheese								
Japan	kt	103.3	73.2	92.4	106.5	81.0	96.2	96.8
Philippines	kt	5.2	4.9	3.7	5.1	3.4	3.3	4.7
Saudi Arabia	kt	17.4	14.8	14.9	17.0	20.7	18.1	16.3
United Kingdom	kt	4.3	4.3	5.0	5.1	5.1	4.4	4.0
United States	kt	10.8	9.0	10.3	11.9	11.7	13.7	8.7
Other	kt	77.3	101.9	85.8	82.0	80.0	76.9	72.6
Total	kt	218.4	208.1	212.1	227.7	201.9	212.6	203.1
Butter and butterfat a								
Egypt	kt	12.1	10.5	3.6	4.4	4.8	7.4	1.6
Malaysia	kt	5.2	4.7	4.7	3.4	4.8	4.4	4.9
Philippines	kt	2.4	2.1	1.0	1.1	2.1	1.6	0.8
Singapore	kt	8.0	6.5	7.0	7.1	8.1	6.9	7.1
Thailand	kt	9.8	7.7	6.5	5.5	4.6	5.1	4.4
Other	kt	85.6	79.6	60.9	48.0	58.1	55.3	38.6
Total	kt	123.1	111.2	83.6	69.5	82.5	80.7	57.4
Skim milk powder								
Japan	kt	18.3	16.4	7.6	3.9	4.1	2.0	1.5
Malaysia	kt	25.3	22.9	22.1	22.0	25.7	24.3	14.2
Philippines	kt	41.4	30.8	24.3	17.7	26.0	15.9	13.3
Singapore	kt	16.4	17.8	17.5	20.8	21.1	23.0	15.9
Thailand	kt	21.8	14.9	7.9	8.3	26.8	17.9	11.6
Other	kt	87.0	79.2	76.4	68.1	77.6	81.3	66.4
Total	kt	210.2	181.9	155.7	140.8	181.2	164.5	123.0
Casein								
Japan	kt	2.2	2.1	2.6	2.1	2.5	2.5	2.5
United States	kt	8.9	13.2	10.5	6.5	2.6	3.4	3.0
Other	kt	2.0	5.2	5.0	4.2	3.2	5.7	3.5
Total	kt	13.1	20.5	18.2	12.8	8.3	11.7	9.0
Wholemilk powder								
Chinese Taipei	kt	13.2	13.3	11.5	9.2	7.4	4.6	2.6
Malaysia	kt	10.3	6.8	11.1	11.0	7.9	4.6	5.7
Singapore	kt	9.8	12.3	8.8	10.6	15.1	13.7	17.0
Thailand	kt	6.4	5.8	4.8	2.9	3.6	4.3	3.4
Other	kt	125.6	103.5	80.9	71.0	76.4	67.2	52.9
Total	kt	165.3	141.7	117.1	104.8	110.3	94.4	81.6
Other products								
Fresh milk	ML	86.9	88.3	85.7	86.7	86.1	81.8	68.3
Other fresh products	ML	1.4	1.5	2.5	2.5	1.8	2.1	1.6
Condensed milk	kt	71.5	102.3	100.2	102.6	94.8	83.0	70.3
Other powders	kt	67.5	74.3	70.7	68.9	68.6	61.7	51.3

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

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

77 Australian dairy cow numbers, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
	'000	'000	'000	'000	'000	'000	'000
1965	719	1 187	689	113	159	143	3 214
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	193	1 036	102	55	103	128	1 617

a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of $5 000 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 $2 500 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,

78 Australian production of wholemilk, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
	ML	ML	ML	ML	ML	ML	ML
1960-61	1 452	2 713	967	266	396	290	6 089
1961-62	1 567	2 869	1 097	265	434	333	6 563
1962-63	1 473	3 035	1 114	255	434	357	6 673
1963-64	1 466	3 159	1 090	260	443	378	6 803
1964-65	1 327	3 391	1 047	281	465	397	6 914
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

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.

79 Australian manufacture of dairy products

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Butter **a**	172.3	178.4	163.7	148.9	146.7	145.8	133.1	127.6
Cheese	376.5	412.1	379.0	383.8	388.4	372.9	363.8	359.3
Non-cheddar	161.4	191.7	166.1	176.0	192.6	181.2	184.7	136.9
Cheddar	215.0	220.3	212.8	207.8	195.9	191.7	179.1	222.4
Wholemilk powder	205.4	238.7	198.3	186.9	189.2	158.2	135.4	142.0
Skim milk powder **b**	244.4	239.5	196.6	182.1	189.1	205.5	191.5	164.3
Casein	8.0	13.9	13.1	14.0	13.0	12.2	7.7	10.3
Buttermilk powder	15.8	18.0	16.6	16.6	16.7	15.9	13.5	12.6

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, *Monthly Statistics,* Melbourne; ABARE.

80 Australian consumption of dairy products

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
Total consumption								
Butter	kt	63.6	66.4	67.1	70.0	76.8	78.3	82.0
Margarine (table)	kt	82.8 **s**	84.0	82.9	84.0	88.9	90.7	94.9
Cheese **a**	kt	229.5	226.6	238.9	230.1	228.3	232.9	243.8
Australian	kt	192.9	188.7	195.4	189.7	186.2	190.1	198.9
Wholemilk powder	kt	14.0	21.5	21.7	24.0	22.2	22.7	23.7
Skim milk powder **b**	kt	36.9	37.1	37.5	38.0	38.4	39.2	41.0
Casein	kt	0.5	0.7	0.8	0.8	2.0	2.0	2.1
Market milk	ML	1 934	1 924	1 942	1 981	2 024	2 066	2 162
Consumption per person								
Butter	kg	3.3	3.4	3.4	3.5	3.8	3.8	3.9
Margarine (table)	kg	4.3	4.3	4.2	4.2	4.4	4.4	4.5
Cheese **a**	kg	11.9	11.6	12.1	11.5	11.2	10.9	11.6
Australian	kg	10.0	9.7	9.9	9.5	9.2	8.8	9.5
Wholemilk powder	kg	0.7	1.1	1.1	1.2	1.1	1.1	1.1
Skim milk powder **b**	kg	1.9	1.9	1.9	1.9	1.9	2.3	2.0
Market milk	L	100.3	98.5	98.3	99.0	98.3	97.1	102.9

a In natural equivalent weight. **b** Includes buttermilk powder and mixed skim milk powder. **s** ABARE estimate.

Sources: ABS, *Apparent Consumption of Foodstuffs, Australia,* cat. no. 4306.0, Canberra; ABS, *Apparent Consumption of Selected Foodstuffs, Australia,* cat. no. 4315.0, Canberra; Australian Dairy Corporation, *Dairy Compendium,* Melbourne; Australian Dairy Corporation, *Monthly Statistics,* Melbourne; Australian Dairy Corporation; ABARE.

81 Australian milk prices and gross value of production

	Producer price a			Gross value of production		
	Manufacturing milk	Market milk	Weighted average	Manufacturing milk	Market milk	Total
	c/L	c/L	c/L	$m	$m	$m
1962-63	na	na	5.2	218	132	350
1963-64	na	na	5.4	228	139	367
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 c	na c	29.0	na	na	3 053
2001-02	na c	na c	33.0	na	na	3 717
2002-03	na c	na c	27.1	na	na	2 795
2003-04	na c	na c	27.9	na	na	2 809
2004-05	na c	na c	31.5	na	na	3 194
2005-06	na c	na c	33.1	na	na	3 341
2006-07	na c	na c	33.2	na	na	3 178
2007-08	na c	na c	49.6	na	na	4 575

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.

82 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
2000						
March	131	146	764	742	372	432
June	135	150	768	698	374	428
September	133	147	686	656	378	426
December	133	146	704	740	386	452
2001						
March	135	145	734	698	390	446
June	135	145	726	706	434	466
September	138	146	732	752	456	430
December	144	152	848	836	468	440
2002						
March	145	154	820	780	458	436
June	147	153	740	738	480	472
September	147	153	752	758	466	478
December	154	156	762	770	472	456
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

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.

83 Average export unit values of Australian dairy products a

	Butter b $/t	Cheese $/t	Skim milk powder $/t	Wholemilk powder $/t	Casein $/t
1960-61	638.07	502.73	na	na	356.32
1961-62	598.03	458.15	na	na	333.33
1962-63	604.17	462.12	na	na	318.84
1963-64	618.22	477.03	na	na	317.65
1964-65	687.76	514.49	na	na	367.47
1965-66	668.60	533.60	na	na	517.77
1966-67	606.74	590.73	281.19	585.94	420.35
1967-68	583.85	518.84	240.51	619.47	488.10
1968-69	523.26	545.10	152.50	544.12	409.09
1969-70	511.70	480.39	156.60	496.73	399.34
1970-71	515.57	504.11	184.74	500.00	431.23
1971-72	792.54	672.67	331.74	630.87	557.05
1972-73	783.82	733.11	389.58	738.46	726.67
1973-74	694.86	760.53	416.58	766.82	741.46
1974-75	954.80	1 011.70	649.25	1 007.35	1 032.79
1975-76	835.74	1 117.46	464.70	1 041.67	1 012.99
1976-77	1 123.89	1 070.48	323.37	866.67	832.43
1977-78	1 279.88	1 258.50	389.36	1 037.92	1 022.22
1978-79	1 249.44	1 336.58	540.98	1 104.07	1 366.41
1979-80	1 595.04	1 545.01	577.24	1 100.29	1 842.86
1980-81	1 875.00	1 925.93	1 000.00	1 613.64	2 476.19
1981-82	2 714.29	2 157.89	896.55	1 906.98	2 391.30
1982-83	2 411.76	2 444.44	918.92	2 057.14	2 941.18
1983-84	1 870.97	2 611.11	885.25	2 071.43	2 500.00
1984-85	1 617.02	2 432.84	849.46	1 900.00	2 285.71
1985-86	1 591.84	2 515.15	987.34	1 937.50	2 800.00
1986-87	1 757.58	2 645.16	1 126.58	2 047.62	3 285.71
1987-88	1 634.15	2 735.29	1 382.35	2 243.24	3 875.00
1988-89	1 970.32	2 992.75	2 245.09	2 650.20	6 344.84
1989-90	2 420.46	3 462.09	2 340.58	2 852.26	5 703.54
1990-91	1 967.87	3 204.17	1 784.00	2 192.11	4 178.64
1991-92	2 177.05	3 317.66	1 952.91	2 431.63	4 819.89
1992-93	2 240.51	3 694.80	2 553.90	2 918.19	6 880.64
1993-94	2 196.58	3 752.68	2 233.00	2 603.15	13 941.39
1994-95	2 076.27	3 451.78	2 292.74	2 471.17	6 876.40
1995-96	2 992.82	3 882.47	2 844.71	3 141.29	8 563.52
1996-97	2 000.87	3 705.04	2 462.28	2 778.01	6 027.01
1997-98	2 263.69	3 956.28	2 494.38	2 882.43	4 997.45
1998-99	2 509.74	3 969.39	2 254.12	2 883.28	5 274.02
1999-00	2 123.52	3 670.74	2 191.46	2 629.24	6 022.37
2000-01	2 418.57	4 343.32	3 426.21	3 464.29	9 039.84
2001-02	2 417.18	4 738.03	3 320.26	3 454.24	9 355.96
2002-03	2 013.96	3 845.91	2 245.51	2 681.04	6 258.23
2003-04	2 186.55	3 485.80	2 488.89	2 748.10	6 734.69
2004-05	2 712.77	3 850.71	2 984.40	3 094.32	9 059.20
2005-06	2 722.54	4 145.83	2 918.12	3 023.95	10 738.97
2006-07	2 212.04	3 876.73	3 070.12	2 911.62	9 711.89
2007-08	3 391.53	4 767.54	4 334.85	4 809.42	13 884.70

a Fob. **b** Commercial butter equivalent. **na** Not available.

84 Volume of Australian imports of cheese, by variety

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Volume	kt	kt	kt	kt	kt	kt	kt
Processed							
Cheddar	7.83	11.72	11.75	13.35	14.25	13.29	13.59
Emmenthaler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gruyere	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Other	3.29	0.45	0.31	0.20	0.40	0.35	0.24
Natural							
Blue vein	0.83	1.09	1.14	1.09	1.09	1.39	1.15
Camembert	0.21	0.19	0.25	0.25	0.21	0.26	0.26
Cheddar	15.91	19.24	18.09	18.83	22.88	26.45	29.51
Colby	1.79	1.89	2.00	1.72	2.09	2.15	2.46
Edam	1.00	0.94	1.05	0.97	0.86	1.21	0.92
Emmenthaler	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Fetta	1.79	2.07	2.32	2.83	3.30	2.78	3.03
Gouda	0.59	0.36	0.77	0.39	0.50	1.24	0.93
Kasseri	0.14	0.15	0.12	0.12	0.10	0.13	0.12
Mozzarella	2.13	2.88	0.69	0.72	2.64	1.80	1.20
Parmesan	1.32	1.58	1.31	0.93	1.38	1.46	1.90
Provolone	0.31	0.26	0.35	0.38	0.39	0.41	0.43
Other	0.55	0.75	0.26	0.24	0.71	0.76	1.14
Total	44.78	50.52	49.05	50.49	60.51	64.41	70.07
Unit value							
Processed							
Cheddar	3.89	3.45	3.57	4.16	4.30	4.15	4.71
Emmenthaler	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gruyere	7.41	0.00	0.00	0.00	0.00	0.00	0.00
Other	4.68	8.69	10.02	13.01	8.08	8.82	7.61
Natural							
Blue vein	11.13	11.04	10.41	11.46	11.78	11.34	12.68
Camembert	10.07	10.62	9.87	10.53	10.35	10.35	11.55
Cheddar	3.76	3.05	2.97	3.61	3.78	3.43	4.26
Colby	3.76	3.22	2.98	4.11	4.28	3.96	5.26
Edam	4.61	4.34	4.08	4.82	5.05	4.28	5.44
Emmenthaler	7.33	0.00	0.00	0.00	0.00	0.00	0.00
Fetta	5.50	5.65	5.50	5.42	5.01	6.00	6.52
Gouda	4.37	5.80	4.26	6.11	5.81	4.11	4.73
Kasseri	7.99	9.51	9.19	9.56	9.12	10.04	10.28
Mozzarella	3.72	3.50	3.15	3.35	3.86	3.50	4.18
Parmesan	8.53	7.33	9.76	10.85	8.69	7.76	8.24
Provolone	9.20	9.62	9.13	9.13	9.07	9.30	9.71
Other	5.16	4.26	7.41	7.73	4.72	5.26	6.25
Average	4.77	4.31	4.32	4.90	4.82	4.69	5.37

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

85 Summary of world statistics for dairy products

	Production			Consumption		Exports a	
	Milk	Butter	Cheese	Butter	Cheese	Butter	Cheese
	Mt	kt	kt	kt	kt	kt	kt
1967	328	5 309	4 962	5 087	4 811	741	681
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 b	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	5 251	11 845	618	912
2000	387	5 814	12 499	5 404	12 173	718	1 068
2001	391	6 145	12 602	5 770	12 416	745	1 086
2002	402	6 565	13 019	6 062	12 711	747	1 157
2003	406	6 613	13 014	6 205	12 847	867	1 181
2004	412	6 625	13 538	6 250	13 305	905	1 241
2005	418	6 725	13 957	6 336	13 748	797	1 239
2006	426	7 045	14 171	6 731	13 982	755	1 209
2007	435	7 464	14 509	7 065	14 297	861	1 318

a Includes intra-EU trade up to and including 1993. **b** For years up to and including 1991, includes data for 38 selected major countries; from 1992, includes data for 31 major countries.

86 Milk production in selected regions and countries

	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt
Americas							
Canada	8 106	7 964	7 734	7 905	7 806	8 041	8 145
United States	74 994	77 140	77 289	77 534	80 254	82 462	84 188
Asia							
China	8 660	na	na	na	na	na	na
India	36 400	36 200	36 500	37 500	37 520	41 000	42 140
Japan	8 302	na	na	na	na	na	na
European Union **a**	130 069	131 040	131 847	130 620	131 652	130 400	131 500
Oceania	24 036	25 545	24 995	25 388	24 941	25 602	25 475
Australia **b**	10 874	11 620	10 649	10 388	10 441	10 402	9 880
New Zealand **c**	13 162	13 925	14 346	15 000	14 500	15 200	15 595
Total **d**	391 409	402 266	406 377	412 336	418 377	426 041	435 132

a Regarded as twenty five countries. **b** Year ended 30 June. **c** Year ended 31 May. **d** Includes 31 major producing countries. **na** Not available.
Source: US Department of Agriculture, *Production, Supply and Distribution Database,* Washington DC.

87 Production of dairy products in selected regions and countries

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Australia **abc**	182	172	178	164	149	147	146	133
Europe								
Russian Federation	265	270	280	280	270	275	290	300
European Union **d**	1 995	2 021	2 226	2 226	2 154	2 140	2 055	2 055
Japan **e**	88	80	83	80	80	84	80	75
New Zealand **bcf**	344	352	380	405	418	340	390	458
United States	570	559	615	564	565	611	657	695
Total	5 814	6 145	6 565	6 613	6 625	6 725	7 045	7 464
Cheese								
Australia **a**	373	376	412	379	384	388	373	364
Europe								
Russian Federation	220	260	340	335	350	375	405	435
European Union **d**	5 861	5 865	5 993	6 100	6 371	6 480	6 580	6 700
Japan **f**	34	34	36	35	35	39	40	43
New Zealand **g**	297	281	312	301	305	297	292	308
United States	3 746	3 747	3 877	3 882	4 025	4 150	4 320	4 400
Total	12 499	12 602	13 019	13 014	13 538	13 957	14 171	14 509
Skim milk powder								
Australia **a**	236	244	239	197	182	189	205	191
Europe								
Russian Federation	125	130	140	145	125	110	110	115
European Union **d**	1 322	1 215	1 369	1 326	1 066	1 065	975	975
Japan	194	175	183	183	183	187	180	173
New Zealand **g**	197	227	255	289	274	225	247	304
United States	659	641	724	721	641	695	656	681
Total	3 402	3 405	3 679	3 658	3 306	3 308	3 255	3 372

a Year ended 30 June. **b** Includes butter anhydrous milk fat and ghee. **c** Factory production only. **d** Regarded as twenty five countries. **e** Year ended 31 March. **f** Year ended 31 May. **g** Includes imported unprocessed cheese which is blended with domestically produced cheese.
Sources: Australian Dairy Corporation, *Monthly 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; ABARE.

88 Volume of exports of dairy products, by selected countries

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Australia **ab**	137	120	123	111	84	69	83	81
Brazil	0	3	0	0	1	1	2	2
Canada	10	16	17	12	17	20	18	16
India	2	2	3	2	2	7	5	10
European Union **c**								
Net exports	185	196	222	307	354	345	254	260
New Zealand **ab**	338	347	353	399	400	316	366	439
Russian Federation	3	3	5	5	5	5	5	5
Ukraine	31	53	15	18	42	24	13	8
United States	4	0	3	12	9	9	11	41
Cheese								
Argentina	22	18	26	23	31	45	58	45
Australia **a**	220	219	218	208	212	228	202	213
European Union **c**								
Net exports	483	485	516	514	516	492	529	550
New Zealand **ab**	253	251	277	290	289	265	267	309
Ukraine	12	31	37	61	94	116	49	65
United States	47	53	54	52	61	58	71	99
Skim milk powder								
Australia **a**	218	203	210	182	156	141	181	164
Canada	32	46	49	36	16	6	13	8
European Union **c**								
Net exports	453	284	267	339	283	194	88	100
India	5	8	10	23	10	40	50	60
New Zealand **ad**	175	195	248	314	305	221	243	327
Russian Federation	48	15	20	25	20	15	15	15
Ukraine	49	71	43	51	63	57	64	60
United States	142	96	126	141	231	277	287	255

a Year ended 30 June. **b** Includes butter, anhydrous milk fat and ghee. **c** Regarded as twenty five countries. Excludes intra-EU trade. **d** 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; ABARE.

89 Volume of imports of dairy products, by selected countries

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Canada	15	26	19	20	28	24	15	13
Egypt	49	45	50	47	28	41	45	46
European Union **a**	88	93	92	92	93	82	84	85
Japan	0	0	4	13	7	6	4	11
Mexico	34	35	37	40	53	51	45	53
Russian Federation	60	110	120	160	170	110	115	130
United States	15	34	16	15	23	16	17	16
Cheese								
European Union **a**	134	142	116	127	106	95	101	100
Japan	205	202	204	194	219	212	207	225
Korea, Rep. of	30	34	31	36	41	44	44	47
Mexico	54	66	65	78	82	89	86	90
Russian Federation	60	140	130	175	190	250	230	250
United States	186	198	214	216	214	209	206	197
Skim milk powder								
European Union **a**	64	48	30	56	26	7	19	20
Indonesia	95	98	110	120	125	135	140	147
Japan	52	53	44	43	37	34	32	36
Mexico	129	141	132	129	141	155	113	122
Philippines	108	89	100	110	120	87	95	98

a Regarded as twenty five countries. Excludes intra-EU trade.

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

90 Stocks of dairy products in principal producing countries

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Australia **a**	14	6	2	2	8	14	9	4
Canada	15	20	13	13	15	17	10	8
European Union **b**	136	151	248	276	232	185	122	50
New Zealand **c**	72	50	51	31	23	22	21	15
United States	11	25	72	45	20	27	49	70
Total	461	468	701	699	574	493	366	228
Cheese								
Australia **a**	65	58	73	55	51	25	21	18
Canada	46	49	52	59	59	62	62	62
European Union **b**	0	0	0	0	0	0	0	0
New Zealand **c**	34	43	51	36	26	32	32	6
United States	322	301	332	324	320	344	371	362
Total	559	553	604	559	516	524	547	500
Skim milk powder								
Australia **a**	2	18	16	7	5	39	38	31
Canada	17	19	8	23	41	38	23	25
European Union **b**	51	45	188	218	77	8	0	0
New Zealand **c**	71	98	100	70	35	35	35	8
United States	288	408	521	445	232	83	49	72
Total	688	835	1 208	1 169	656	377	279	241

a Year ending 30 June. **b** Regarded as twenty five countries. **c** Year ending 31 May.

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

91 Major components of Australian farm costs

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
	$m	$m	$m	$m	$m	$m	$m	$m
Materials and services								
Fuel	1 107	1 091	1 120	1 188	1 236	1 360	1 230	1 450
Fertiliser	1 065	1 244	1 378	1 651	1 760	1 805	1 906	1 840
Chemicals	993	1 059	1 139	1 349	1 480	1 497	1 576	1 604
Seed and fodder	2 396	2 437	3 131	2 928	2 801	2 948	2 974	2 847
Marketing	2 268	2 306	1 955	2 519	2 923	2 726	2 901	3 144
Repairs and maintenance	1 580	1 706	1 768	1 920	2 003	2 011	2 154	2 150
Other	2 591	2 828	3 064	2 937	2 954	2 920	2 916	3 017
Total	12 000	12 671	13 555	14 492	15 157	15 266	15 657	16 052
Other costs								
Wages	2 284	2 445	2 667	2 738	2 983	2 976	3 133	3 250
Interest paid	1 838	1 695	2 069	2 182	2 180	1 976	1 917	2 023
Other overheads	303	337	344	356	360	360	364	372
Total	4 425	4 477	5 080	5 276	5 523	5 313	5 414	5 645
Total cash costs	16 425	17 148	18 635	19 769	20 680	20 579	21 071	21 697
Depreciation	2 915	3 039	3 073	3 144	3 230	3 306	3 439	3 526
Total farm costs	19 340	20 187	21 708	22 913	23 910	23 885	24 511	25 223

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08 s
	$m	$m	$m	$m	$m	$m	$m	$m
Materials and services								
Fuel	1 671	1 580	1 520	1 702	1 765	2 223	2 199	2 573
Fertiliser	1 920	1 980	1 820	1 827	1 851	1 843	1 659	3 172
Chemicals	1 664	1 760	1 550	1 649	1 691	1 749	1 545	1 872
Seed and fodder	3 072	3 226	4 874	4 317	4 267	3 827	4 921	5 960
Marketing	3 198	3 395	2 433	3 567	3 433	3 612	2 674	2 834
Repairs and maintenance	2 262	2 328	2 392	2 453	2 493	2 602	2 466	2 572
Other	3 184	3 339	3 329	3 378	3 473	3 692	3 543	3 702
Total	16 971	17 608	17 918	18 893	18 974	19 548	19 007	22 686
Other costs								
Wages	3 360	3 367	3 226	3 420	3 410	3 778	3 654	3 779
Interest paid	2 249	2 087	2 295	2 238	2 306	3 249	3 848	4 423
Other overheads	389	400	412	422	432	446	447	462
Total	5 998	5 854	5 933	6 080	6 148	7 473	7 950	8 664
Total cash costs	22 969	23 463	23 851	24 973	25 122	27 021	26 956	31 350
Depreciation	3 687	3 796	3 915	4 017	4 122	4 255	4 383	4 532
Total farm costs	26 657	27 258	27 766	28 991	29 243	31 276	31 339	35 881

s ABARE 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; ABARE.

92 Indexes of prices paid by farmers in Australia

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	82.5	85.3	87.6	88.9	95.7	101.1	99.2	100.0	100.6
Fodder and feedstuffs	75.5	80.5	78.5	79.9	92.2	101.4	98.9	100.0	91.9
Store and breeding stock	82.0	79.7	78.8	95.0	96.7	96.1	89.4	100.0	100.9
Total	77.6	80.5	79.1	85.1	93.9	100.2	96.6	100.0	94.9
Fertiliser	85.0	90.3	88.7	87.1	89.6	98.2	99.2	100.0	102.7
Chemicals and medicines	96.4	97.5	98.0	97.2	97.9	98.1	99.0	100.0	100.4
Fuel and lubricants	106.0	99.6	104.1	100.5	96.6	100.4	104.9	100.0	104.1
Electricity	96.7	100.4	101.8	100.9	98.3	97.7	99.4	100.0	100.7
Maintenance									
Plant and equipment	79.3	83.6	86.7	89.9	92.5	95.3	97.6	100.0	102.3
Structures	84.9	87.5	89.4	91.0	92.5	94.6	95.4	100.0	102.8
Total	81.0	84.8	87.5	90.2	92.5	95.1	96.9	100.0	102.3
Contracts	86.5	90.0	92.8	95.6	97.3	98.4	99.6	100.0	104.3
Other materials and services	90.2	91.2	92.4	94.1	96.8	100.1	100.0	100.0	102.3
Total	85.3	87.4	87.8	90.2	94.2	98.7	98.6	100.0	99.9
Labor	82.7	86.5	89.7	91.0	92.3	95.1	97.0	100.0	103.7
Marketing									
Freight outwards	95.5	96.9	97.9	98.5	98.5	98.5	98.6	100.0	100.3
Selling expenses	85.7	86.9	86.7	89.3	91.7	95.6	95.5	100.0	102.8
Total	87.4	88.7	88.7	91.0	92.9	96.2	96.1	100.0	102.7
Overheads									
Interest paid	170.3	139.6	107.4	100.2	113.2	127.9	117.0	100.0	90.6
Rates and taxes	87.4	89.3	91.5	92.0	94.2	92.2	95.6	100.0	102.1
Insurance	64.8	64.2	67.0	71.3	74.3	90.8	98.1	100.0	102.8
Other overheads	85.2	92.3	94.1	95.7	96.8	99.2	100.5	100.0	103.1
Total	120.1	109.6	96.9	94.6	101.6	109.3	106.5	100.0	96.6
Capital items									
Plant and equipment	82.3	83.9	87.4	91.7	94.3	97.3	99.0	100.0	103.3
Structures	87.5	89.5	91.7	93.4	94.8	95.8	96.7	100.0	101.7
Total	83.0	84.6	88.0	91.9	94.4	97.1	98.7	100.0	103.0
Total prices paid	90.9	90.8	89.5	91.1	95.0	99.5	99.4	100.0	100.6
Excluding capital items	91.9	91.6	89.8	91.1	95.1	99.8	99.5	100.0	100.1
Excluding capital and overheads	85.1	87.4	88.2	90.4	93.6	97.7	98.0	100.0	100.9
Excluding seed, fodder and store and breeding stock	94.0	93.2	92.0	92.6	95.2	99.3	99.9	100.0	101.6

Continued

92 Indexes of prices paid by farmers in Australia continued

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	102.7	105.2	112.9	118.3	104.9	95.3	93.8	109.5	130.9
Fodder and feedstuffs	90.0	93.6	105.5	167.5	148.3	140.4	126.4	151.0	185.3
Store and breeding stock	105.0	126.0	145.3	125.8	144.0	159.5	157.6	152.6	151.5
Total	95.0	103.1	116.5	150.3	142.0	140.3	130.8	146.7	170.6
Fertiliser	99.8	106.4	104.3	106.9	102.8	108.8	111.6	121.4	220.4
Chemicals and medicines	101.6	103.3	105.6	108.0	110.0	111.9	114.6	124.7	149.7
Fuel and lubricants	148.6	144.1	128.3	127.0	144.3	167.2	210.6	208.3	243.7
Electricity	100.2	99.9	100.4	100.5	100.0	101.3	104.6	107.6	111.3
Maintenance									
Plant and equipment	106.1	112.0	115.2	118.4	121.4	124.6	128.6	132.5	137.0
Structures	104.6	109.3	112.5	115.7	119.1	122.7	126.4	130.1	134.0
Total	105.6	111.1	114.3	117.5	120.6	123.9	127.9	131.6	136.1
Contracts	107.9	114.4	117.7	120.9	123.8	126.8	130.8	134.6	139.2
Other materials and services	104.2	108.9	112.1	115.5	118.3	121.1	125.0	128.7	133.0
Total	104.2	109.3	113.1	126.0	125.3	128.7	130.9	140.2	168.5
Labor	107.1	110.1	113.3	117.9	121.6	125.7	129.7	133.5	138.0
Marketing									
Freight outwards	102.5	107.0	110.1	113.5	116.3	119.0	120.9	126.4	141.0
Selling expenses	105.2	109.3	112.5	116.0	118.8	121.6	125.5	129.2	133.6
Total	105.0	109.3	112.4	115.9	118.7	121.5	125.4	129.1	133.5
Overheads									
Interest paid	98.8	111.2	104.2	110.7	118.1	120.9	123.8	127.8	131.5
Rates and taxes	107.1	112.4	115.5	119.1	121.9	124.8	128.9	132.7	137.3
Insurance	105.1	109.8	118.6	124.5	128.8	131.9	135.1	139.4	143.5
Other overheads	104.1	108.7	111.9	115.4	118.1	121.0	124.8	128.5	132.8
Total	102.5	111.3	109.9	115.2	120.6	123.5	126.8	130.8	134.8
Capital items									
Plant and equipment	106.6	112.7	116.0	119.2	122.2	125.4	129.5	133.4	137.9
Structures	103.8	108.9	112.0	115.3	118.6	122.2	125.8	129.6	133.5
Total	106.1	111.9	115.2	118.3	121.3	124.4	128.4	132.3	136.8
Total prices paid	104.7	110.1	112.9	121.5	123.0	126.3	129.4	135.8	151.6
Excluding capital items	104.4	109.7	112.4	121.8	123.1	126.5	129.4	136.1	153.4
Excluding capital and overheads	104.8	109.4	113.0	123.3	123.7	127.2	129.9	137.5	158.8
Excluding seed, fodder and store and breeding stock	106.5	111.4	112.1	115.6	119.2	123.6	129.2	133.6	147.6

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

93 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	7.13
1971-72		na	5.97
1972-73		na	5.09
1973-74		na	11.33
1974-75		na	10.54
1975-76		10.40	8.55
1976-77		10.40	9.76
1977-78		10.40	10.25
1978-79	8.88	10.15	9.54
1979-80	9.24	10.15	11.02
1980-81	10.09	11.43	13.42
1981-82	11.48	13.73	16.83
1982-83	11.35	14.08	14.28
1983-84	12.02	13.58	11.87
1984-85	12.48	13.87	13.22
1985-86	15.45	17.11	16.76
1986-87	15.56	18.07	15.87
1987-88	13.86	14.88	11.90
1988-89	14.28	17.22	15.55
1989-90	16.67	19.98	16.94
1990-91	14.12	15.95	12.29
1991-92	12.02	12.60	8.15
1992-93	9.67	10.23	5.64
1993-94	9.29	9.34	4.87
1994-95	9.67	10.47	7.19
1995-96	10.43	11.18	7.51
1996-97	9.20	10.23	6.31
1997-98	8.30	8.68	4.99
1998-99	7.80	7.84	4.90
1999-00	8.00	8.24	5.60
2000-01	8.70	9.08	5.80
2001-02	7.91	8.03	4.58
2002-03	7.56	8.35	4.83
2003-04	8.01	8.66	5.28
2004-05	8.29	8.93	5.54
2005-06	na	9.14	5.68
2006-07	na	9.75	6.33
2007-08	na	10.74	7.31

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 which apply to the lowest risk borrowers for a range of banks. In practice many borrowers pay an additional risk margin. **na** Not available.

94 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	3 352	47 971	na	na	2 797
2006-07	47 188	1 293	2 542	51 023	na	na	2 782
2007-08	53 743	1 417	3 076	58 236	na	na	2 879

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.

95 Australian tractors 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
1991-92	1 430	3 642	825	5 897	11	78	63	152
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	1 226	4 845	2 216	8 287	29	289	335	653
2000-01	1 192	4 304	1 765	7 261	28	273	263	565
2001-02	1 332	5 345	1 638	8 315	31	397	352	779
2002-03	1 363	5 829	2 104	9 296	30	379	388	797
2003-04	1 965	5 980	2 655	10 600	41	434	516	991
2004-05	2 357	6 898	3 068	12 323	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
2005 quarter								
March	645	1 524	873	3 042	13	109	179	301
June	578	1 883	978	3 439	12	136	199	348
September	517	1 750	525	2 792	11	121	102	234
December	811	1 926	521	3 258	16	135	98	249
2006 quarter								
March	743	1 617	764	3 124	14	114	154	283
June	653	1 982	737	3 372	13	138	144	295
September	618	1 603	414	2 635	13	104	76	192
December	676	1 479	286	2 441	13	95	54	163
2007 quarter								
March	687	1 430	400	2 517	14	90	80	184
June	654	1 597	442	2 693	14	104	84	202
September	586	1 433	309	2 328	13	92	57	162
December	945	1 968	371	3 284	19	128	69	217
2008 quarter								
March	808	1 541	510	2 859	17	100	106	223
June	756	1 982	641	3 379	16	127	122	265
September	745	1 710	402	2 857	16	108	73	197

a Tractor power ratings refer to power takeoff, power in kilowatts. **na** Not available.

Source: Tractor and Machinery Association of Australia, Melbourne.

96 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
1971-72	22 081	541	1 859	196	513	2 120	4 696	256
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

a Fob at the port of origin.

97 Australian fertiliser prices, by type a

	Single superphosphate b $/t	Diammonium phosphate b $/t	Ammonium sulphate c $/t	Potassium chloride c $/t	Urea c $/t	Index of prices paid for fertiliser d
1970	na	na	na	na	na	9.4
1971	16.18	na	40.41	69.10	79.24	11.6
1972	16.87	na	40.09	69.32	80.62	11.6
1973	16.99	na	40.79	68.80	81.44	11.6
1974	19.20	113.00	61.00	83.80	87.20	13.7
1975	54.60	na	103.00	103.40	120.60	30.8
1976	55.60	215.40	105.00	128.60	140.60	27.3
1977	53.16	135.00	91.80	109.45	153.95	28.0
1978	59.04	na	104.32	111.89	175.21	29.4
1979	56.76	247.80	112.06	117.54	185.16	32.1
1980	70.74	296.60	128.71	145.14	245.64	39.0
1981	83.40	337.60	149.14	176.42	274.23	46.5
1982	92.84	337.60	156.53	187.02	269.18	51.3
1983	101.42	334.00	155.64	180.50	261.11	52.6
1984	105.11	322.95	175.92	206.60	286.30	56.0
1985	118.46	342.17	218.19	267.29	321.50	62.2
1986	131.00	378.00	209.00	271.00	280.00	68.3
1987	128.00	339.00	211.00	279.00	276.00	67.0
1988	132.70	379.00	212.20	294.15	303.00	68.3
1989	155.40	396.00	229.40	328.70	339.70	76.9
1990	165.80	364.70	259.50	341.00	324.00	82.4
1991	177.10	389.00	276.00	361.80	390.00	85.0
1992	180.00	385.20	289.60	368.70	380.70	90.3
1993	173.00	368.80	293.10	367.50	389.70	88.7
1994	174.50	343.80	298.40	373.50	382.90	87.1
1995	179.10	417.30	319.20	372.30	455.90	89.6
1996	184.20	449.30	325.90	369.20	479.60	98.2
1997	179.17	460.25	317.88	362.75	434.80	99.2
1998	196.50	497.83	343.00	409.17	380.60	100.0
1999	197.00	487.83	339.25	437.50	333.80	102.7
2000	197.80	441.50	361.00	474.75	371.60	99.8
2001	209.83	475.25	377.25	511.25	443.60	106.4
2002	222.92	455.37	404.00	405.56	376.26	104.3
2003	233.92	448.06	399.00	412.50	363.33	106.9
2004	222.79	458.58	344.00	387.00	377.33	102.8
2005	220.40	468.90	340.57	428.83	441.73	108.8
2006	227.80	532.13	376.80	441.70	471.47	111.6
2007	241.11	649.67	385.22	472.38	512.44	121.4
2008	446.08	1 352.28	679.36	883.26	851.68	220.4

a Average price paid by Australian farmers at 30 June. **b** Bulk price. **c** Bagged price from 1970 to 2001; Bulk price from 2002 onwards. **d** Based on a 4 quarter average for the year ending 30 June. **na** Not available.

Sources: Department of Primary Industry, *Chemical Fertilisers in Australia,* AGPS, Canberra; The Land, *Farm Costs Guide;* Farm Weekly, *Budget*

98 World fertiliser indicator prices

	Phosphate rock a	Sulphur b	Diam-monium 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
1993-94	55.0	47.0	223.0	195.0	219.0	192.0	164.0
1994-95	49.7	75.2	270.0	216.3	335.0	258.6	152.6
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	870.3	na	514.2	480.4	294.4
2003 quarter							
March	79.3	68.4	302.0	260.8	396.0	269.5	189.9
June	73.5	114.2	317.4	284.0	445.6	260.5	176.0
September	71.5	109.5	305.0	267.0	393.9	276.0	171.1
December	67.0	102.6	276.9	244.4	392.6	274.3	160.3
2004 quarter							
March	61.5	94.2	311.7	260.4	428.0	256.6	147.3
June	65.9	101.0	328.2	267.9	373.5	268.9	157.8
September	66.4	101.7	347.4	271.9	420.3	325.8	174.6
December	62.2	95.4	345.0	278.6	437.9	347.2	199.1
2005 quarter							
March	60.5	92.7	325.6	270.2	376.2	327.9	196.4
June	61.3	93.8	332.1	276.3	433.9	373.5	198.8
September	62.0	99.6	376.7	296.5	432.5	357.8	201.1
December	63.3	104.0	394.1	300.6	565.4	363.7	218.8
2006 quarter							
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	62.1	79.0	384.3	292.2	369.0	316.5	243.5
December	61.1	66.3	367.0	na	398.5	336.6	250.3
2007 quarter							
March	60.2	55.1	429.3	na	476.9	435.2	246.5
June	56.6	74.1	571.4	na	417.8	413.8	232.0
September	na	122.1	566.2	na	351.7	393.8	227.5
December	na	174.3	596.5	na	382.3	463.0	227.8
2008 quarter							
March	na	439.8	913.1	na	642.8	466.9	251.2
June	na	na	1 405.3	na	680.2	597.6	471.1
September	318.7	843.6	1 488.8	na	863.8	902.0	614.1

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.

99 Australian fertiliser consumption, by element

	Phosphate (P_2O_5) kt	Nitrogen (N) kt	Potash (K_2O) kt
1988-89	842.5	392.6	160.8
1989-90	790.5	440.3	162.6
1990-91	578.9	439.4	145.4
1991-92	680.2	462.3	142.1
1992-93	782.3	488.2	147.4
1993-94	770.0	565.4	176.1
1994-95	922.7	583.2	219.6
1995-96	965.3	671.3	230.8
1996-97	985.3	824.6	206.0
1997-98	1 090.1	839.4	254.6
1998-99	1 039.0	979.0	232.0
1999-00	1 055.0	1 082.0	216.0
2000-01	1 107.0	951.0	217.0
2001-02	1 108.0	1 049.9	225.4
2002-03	1 077.4	972.3	215.6
2003-04	1 078.2	918.6	214.2
2004-05	1 157.9	1 114.3	317.8
2005-06	1 139.2	954.4	273.3
2006-07	840.8	841.9	220.8
2007-08	na	na	na

na Not available.

Sources: FAO, *World Fertilisers Year Book,* Rome; FAO, *FAOSTAT - ResourceSTAT Database* , Rome; International Fertilizer Industry Association; ABARE.

100 Volume of Australian imports of fertiliser, by element

	Phosphate (P_2O_5) kt	Nitrogen (N) kt	Potash (K_2O) kt
1988-89	249.9	204.8	179.9
1989-90	305.0	257.2	173.0
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	na	na	na

na Not available.

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

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

	Sulphur			Phosphate rock					
	Canada	Other	Christmas Island	China	Morocco	Nauru	Togo	Other	Total
	kt	kt	kt	kt	kt	kt	kt	kt	kt
1971-72	212	65	503	na	0	na	na	na	1 654
1972-73	396	10	684	na	0	na	na	na	2 282
1973-74	381	23	955	na	0	na	na	na	3 104
1974-75	502	78	1 002	na	0	na	na	na	2 639
1975-76	180	26	503	na	0	na	na	na	1 461
1976-77	381	26	567	na	0	na	na	na	1 319
1977-78	470	26	487	na	0	na	na	na	1 610
1978-79	337	99	543	na	0	na	na	na	1 756
1979-80	627	60	674	na	0	na	na	na	1 936
1980-81	552	4	624	na	0	na	na	na	2 232
1981-82	459	0	780	na	25	na	na	na	2 360
1982-83	371	21	699	na	0	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	11	7	50	107	151	106	0	342	756
2000-01	7	46	0	293	145	119	0	266	823
2001-02	12	4	0	266	94	27	243	303	933
2002-03	36	21	0	200	48	16	244	202	711
2003-04	1	24	44	179	198	0	253	49	723
2004-05	32	24	38	210	381	0	163	5	797
2005-06	27	6	101	86	405	0	48	15	655
2006-07	32	6	61	23	343	27	0	18	472
2007-08	202	4	52	55	439	112	0	49	707

na Not available.

102 Volume of Australian trade in manufactured fertiliser, by type

	Imports						Exports	
	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Other ammonium	Urea	Potassic fertiliser	Nitrogen fertiliser	Ammonium phosphates
	kt	kt	kt	kt	kt	kt	kt	kt
1970-71	3.1	0.0	0.0	15.1	na	na	0.8	0.0
1971-72	2.4	0.0	0.0	27.3	na	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	583.6	113.5	1 032.8	465.0	310.8	237.0

na Not available.

103 Volume of Australian fertiliser imports, by state

	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Ammonium fertilisers		Urea	Potassic fertiliser	Phosphate rock
				Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
New South Wales								
2002-03	21.5	14.1	138.5	5.1	18.8	116.1	14.0	127.7
2003-04	14.2	18.8	115.2	4.4	20.2	107.5	8.9	163.9
2004-05	15.9	26.9	129.1	0.4	36.5	108.2	20.2	94.0
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	56.8	1.0	18.5	77.7	12.0	96.8
Victoria								
2002-03	56.8	45.0	229.4	11.8	1.0	325.6	105.9	309.2
2003-04	56.5	47.5	228.6	1.0	1.7	356.6	120.9	319.7
2004-05	65.2	93.5	331.4	1.5	1.2	365.6	103.2	404.2
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	151.8	367.6
Queensland								
2002-03	5.2	0.1	38.3	1.4	16.0	159.3	75.5	1.1
2003-04	4.0	0.0	63.2	1.3	21.8	168.1	83.7	1.2
2004-05	13.8	0.0	66.8	1.3	94.3	273.8	98.8	2.2
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
Western Australia								
2002-03	77.2	130.1	242.4	4.7	4.6	289.3	164.0	139.9
2003-04	75.3	74.4	288.2	1.1	7.0	351.7	175.5	158.4
2004-05	119.2	97.4	310.2	1.0	38.7	371.2	210.9	138.1
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	273.1	0.9	33.5	300.7	145.8	145.9
South Australia								
2002-03	20.5	47.9	42.8	5.4	3.3	164.2	10.0	0.0
2003-04	7.3	70.9	45.4	0.6	3.1	150.8	11.2	0.0
2004-05	4.8	68.9	88.8	0.8	4.6	148.8	15.9	0.1
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	82.7	17.1	0.2
Tasmania								
2002-03	6.9	0.0	0.0	0.0	0.0	18.4	22.4	102.7
2003-04	6.2	0.0	0.0	0.0	0.0	21.9	22.4	79.8
2004-05	13.0	0.0	0.0	0.0	0.0	21.0	24.8	158.4
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	39.0	31.9	94.7
Australia								
2002-03	188.1	237.2	691.3	28.3	43.6	1 072.8	432.6	711.3
2003-04	163.5	211.6	740.5	8.3	53.8	1 156.6	447.0	723.1
2004-05	231.8	286.7	926.3	4.9	175.3	1 288.6	496.7	797.0
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	583.6	10.4	103.1	1 032.8	465.0	706.9

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

104 Value of Australian fertiliser imports, by state [a]

	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Ammonium fertilisers		Urea	Potassic fertiliser	Phosphate rock
				Sulphate	Nitrate			
	$m	$m	$m	$m	$m	$m	$m	$m
New South Wales								
2002-03	5.30	4.11	37.88	1.06	5.43	26.28	3.74	10.41
2003-04	3.36	5.45	30.47	0.81	4.79	24.29	2.15	10.00
2004-05	3.89	8.33	39.88	0.10	12.31	30.61	4.64	5.76
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	49.52	0.19	6.25	35.19	4.79	9.63
Victoria								
2002-03	12.95	13.37	66.14	2.57	0.23	74.98	25.31	19.36
2003-04	8.19	13.89	64.43	0.18	0.34	79.22	25.93	16.68
2004-05	10.50	28.20	100.59	0.36	0.32	107.50	21.44	23.07
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	164.29	1.08	2.05	152.18	51.82	39.68
Queensland								
2002-03	1.32	0.05	10.96	0.37	4.14	35.26	18.19	0.12
2003-04	0.89	0.02	17.23	0.21	5.18	36.97	18.12	0.19
2004-05	2.81	0.02	20.51	0.24	33.32	78.73	21.34	0.33
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	34.57	0.35
Western Australia								
2002-03	16.05	37.74	69.91	1.18	1.79	66.90	37.66	10.89
2003-04	16.33	20.18	80.51	0.15	1.74	76.95	33.05	9.62
2004-05	28.55	29.83	96.95	0.20	14.65	116.89	42.05	10.02
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	151.40	56.01	18.25
South Australia								
2002-03	4.60	13.27	11.55	1.14	0.83	37.78	2.58	0.00
2003-04	1.42	20.82	13.16	0.11	0.65	34.28	2.61	0.00
2004-05	1.26	20.95	27.85	0.16	1.11	44.98	4.21	0.02
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	38.08	6.56	0.06
Tasmania								
2002-03	1.58	0.00	0.02	0.00	0.01	4.04	5.33	6.75
2003-04	1.83	0.00	0.00	0.00	0.01	4.97	4.34	4.17
2004-05	2.62	0.00	0.00	0.00	0.00	6.42	5.33	9.37
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	14.73	10.88	11.63
Australia								
2002-03	41.80	68.54	196.46	6.32	12.42	245.23	92.80	50.09
2003-04	32.02	60.36	205.80	1.47	12.72	256.68	86.20	40.65
2004-05	49.63	87.32	285.78	1.05	61.71	385.13	99.01	48.56
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	454.97	2.94	36.08	449.83	164.63	79.60

a Fob at the port of origin.

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

105 Volume of Australian fertiliser imports, by quarter

	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Ammonium fertilisers		Urea	Potassic fertiliser	Phosphate rock
				Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
2001 quarter								
March	68.4	171.3	305.0	6.8	4.2	271.9	129.8	259.5
June	92.4	199.1	197.4	4.5	1.2	429.1	61.1	116.5
September	14.5	9.0	56.5	8.4	8.3	193.2	98.8	265.8
December	70.2	20.9	126.7	0.3	15.0	212.7	70.1	267.0
2002 quarter								
March	124.7	138.1	257.7	0.4	13.9	243.1	140.1	193.3
June	70.8	102.9	218.3	9.2	19.8	646.8	107.9	207.1
September	62.4	4.9	60.4	9.0	23.1	159.9	119.6	283.7
December	6.1	21.6	123.9	2.6	13.8	114.0	47.6	160.7
2003 quarter								
March	94.3	127.9	308.3	3.6	19.3	336.0	169.6	144.5
June	25.2	82.8	198.7	13.2	14.5	462.8	95.8	122.4
September	27.9	5.6	70.8	0.7	7.6	163.7	77.7	164.7
December	15.5	12.5	177.8	0.7	27.0	214.7	48.7	225.3
2004 quarter								
March	71.6	126.7	295.4	1.3	7.1	246.6	141.7	119.1
June	48.4	67.0	196.6	1.8	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 quarter								
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 quarter								
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 quarter								
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 quarter								
March	31.4	106.5	242.2	2.5	29.4	207.1	124.3	108.9
June	59.9	132.7	198.2	3.7	25.8	399.1	134.5	226.4
September	22.0	24.2	28.8	6.1	28.8	304.7	134.5	322.2

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

106 Value of Australian fertiliser imports, by quarter [a]

	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Ammonium fertilisers		Urea	Potassic fertiliser	Phosphate rock
				Sulphate	Nitrate			
	$m	$m	$m	$m	$m	$m	$m	$m
2001 quarter								
March	17.4	50.8	89.3	1.4	1.2	78.0	33.1	19.8
June	20.5	63.8	61.1	1.0	0.4	105.8	17.9	8.8
September	3.4	2.4	17.3	1.9	2.3	35.8	29.2	21.2
December	15.1	5.6	35.4	0.1	4.7	44.9	19.8	20.5
2002 quarter								
March	26.4	40.7	75.4	0.1	4.0	51.4	37.3	14.5
June	14.2	30.6	62.6	2.1	6.1	126.6	30.9	15.5
September	14.3	1.5	18.3	1.9	6.6	32.3	31.4	20.3
December	1.4	6.8	35.5	0.5	4.0	25.0	13.0	12.4
2003 quarter								
March	19.9	35.1	83.4	0.9	5.1	79.6	41.6	10.0
June	6.3	25.2	59.2	3.0	3.7	108.3	21.8	7.5
September	6.6	1.6	18.5	0.1	1.7	36.0	18.7	10.1
December	4.0	3.1	45.5	0.1	6.3	51.5	10.7	13.5
2004 quarter								
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 quarter								
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 quarter								
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 quarter								
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 quarter								
March	16.0	82.7	165.2	0.6	10.7	86.5	47.3	8.4
June	40.7	138.7	220.6	1.4	10.0	216.8	61.2	41.7
September	23.5	31.0	39.6	1.9	16.1	237.3	131.7	92.5

a Fob at the port of origin.

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

107 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 s	97.9
1996	600 500	101 300	251 600	285 000 s	98.1
1997	713 601	123 698	268 380	302 000 s	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

a For the years to 1995, figures represent 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. **b** For the years after 1997, figures refer to total Australian sales as recorded by the APVMA. **c** Based on ABS benchmark data. **s** ABARE estimate. **na** Not available.

108 Australian farm fuel prices

	Petrol			Index of prices
	Lead replacement a	Unleaded b	Off-road diesel c	paid for fuel d
	c/L	c/L	c/L	
1970-71	8.70	na	4.39	11.5
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	88.54	53.36	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	86.16	55.01	144.3
2004-05	na	96.43	63.73	167.2
2005-06	na	115.35	82.89	210.6
2006-07	na	115.88	81.22	208.3
2007-08	na	127.53	98.46	243.7

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 farm rebates and subsidies. **c** Average diesel price paid by Australian farmers, excludes GST, however includes farm rebates and subsidies. **d** Base: 1997-98 = 100. **na** Not available.

109 Persons employed in agriculture, forestry and fisheries a

	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	211.5	217.3	200.5	201.7	203.5	202.7	199.0	211.0
Horticulture and fruit	82.8	80.3	77.4	93.0	87.1	91.0	91.7	98.9
Other crops	12.5	11.5	17.0	16.9	18.3	20.6	19.9	19.3
Dairy cattle	22.0	22.8	34.2	30.1	39.9	38.2	32.6	34.6
Poultry	9.3	10.5	10.1	11.8	10.2	9.4	8.3	8.8
Other livestock	21.8	21.3	17.4	16.4	16.1	16.5	14.3	12.7
Agriculture – other	na	na	na	na	na	na	na	na
Total	359.9	363.3	356.6	369.9	375.0	378.2	365.8	385.2
Services to agriculture b	17.5	20.3	19.5	18.6	23.0	25.6	27.9	30.4
Forestry and logging	11.0	11.3	12.4	11.4	10.9	14.0	14.0	8.7
Commercial fishing	15.8	13.8	14.8	18.7	13.0	13.8	14.0	15.6
Total	404.1	408.7	403.4	418.5	421.9	431.6	421.7	439.9

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	207.7	213.5	164.7	164.0	132.0	138.8	135.0	146.8
Horticulture and fruit	92.5	97.2	92.8	94.9	81.4	82.2	81.4	69.5
Other crops	15.6	17.1	12.9	10.7	15.9	9.1	14.2	15.9
Dairy cattle	29.1	30.8	25.4	19.6	21.4	22.7	20.5	24.3
Poultry	8.6	9.3	11.0	9.8	9.3	9.1	8.3	6.5
Other livestock	9.4	12.3	12.0	10.0	10.2	11.0	10.0	8.3
Agriculture – other	10.5	5.0	4.5	10.4	39.9	29.9	38.1	31.9
Total	373.4	385.2	323.1	319.2	310.1	302.7	307.5	303.2
Services to agriculture b	28.1	25.7	24.1	25.2	24.5	27.0	26.5	29.2
Forestry and logging	13.5	13.2	9.7	12.1	12.2	11.3	11.3	13.2
Commercial fishing	19.4	18.4	17.4	15.7	13.9	11.7	9.7	13.0
Total	435.2	442.9	374.9	373.2	363.9	352.6	355.1	359.8

a Average employment over four quarters. **b** includes hunting and trapping. **na** Not available.

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

110 Australian wages and the consumer price index a

	Contract rates	Shearing rates b	Rural wages	Average weekly earnings	Consumer price index
	%	%	%	%	%
1970-71	na	3.4	4.5	na	4.5
1971-72	– 1.4	2.5	5.6	10.2	6.9
1972-73	1.9	6.8	9.3	9.0	6.1
1973-74	6.3	31.1	20.0	16.2	12.9
1974-75	18.8	43.2	37.3	26.6	16.8
1975-76	14.9	9.6	13.7	15.7	12.9
1976-77	12.4	13.1	13.1	14.7	13.9
1977-78	6.7	9.2	10.8	10.3	9.5
1978-79	9.4	6.2	6.1	8.4	8.2
1979-80	8.4	12.3	7.2	8.5	10.2
1980-81	9.6	9.0	9.1	12.6	9.3
1981-82	9.7	9.6	11.7	12.3	10.5
1982-83	14.9	8.5	10.1	13.1	11.5
1983-84	7.8	3.8	6.2	7.1	6.7
1984-85	6.5	8.4	7.9	5.1	4.3
1985-86	3.8	4.2	4.7	5.9	8.4
1986-87	2.2	1.1	4.7	6.2	9.4
1987-88	3.7	3.4	3.9	6.1	7.3
1988-89	7.0	12.0	7.3	6.8	7.3
1989-90	6.1	5.6	7.4	6.6	8.0
1990-91	6.7	1.4	4.8	5.9	5.3
1991-92	4.1	4.0	4.6	2.9	1.9
1992-93	3.1	1.5	3.6	2.0	1.0
1993-94	3.0	0.1	1.4	2.9	1.8
1994-95	1.9	0.8	1.4	3.4	3.2
1995-96	1.0	2.3	3.1	2.5	4.2
1996-97	1.2	1.5	2.0	3.0	1.3
1997-98	2.5	1.9	2.6	3.2	0.0
1998-99	3.6	5.7	3.6	2.4	1.2
1999-00	2.9	3.7	2.9	2.2	2.4
2000-01	3.2	3.5	3.5	5.5	6.0
2001-02	2.9	2.1	3.0	4.2	2.9
2002-03	3.7	3.7	3.9	4.4	3.1
2003-04	3.4	6.1	3.6	4.8	2.4
2004-05	3.6	3.7	3.8	4.3	2.4
2005-06	3.2	3.3	3.3	5.1	3.2
2006-07	3.1	4.1	3.7	4.5	2.9
2007-08	na	4.1	3.7	3.6	3.4

a Percentage change from previous year. **b** Based on price per 100 flock sheep. **na** Not available.

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; Australian Government Workplace Authority, *Pastoral Industry Award 1998, AP792378 - Fed*

111 Summary of Australian fisheries statistics

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08 p
Prawns									
Production **as**	kt	30.2	29.5	26.5	27.6	23.7	23.5	20.6	22.5
Value of production	$m	453.3	429.3	364.7	359.8	307.1	306.4	265.1	258.3
Exports **b**	kt	12.1	11.9	9.5	9.4	10.3	8.7	6.4	4.9
Value of exports	$m	291.0	262.8	208.2	160.6	163.1	133.9	93.6	68.6
Imports **b**	kt	15.6	17.6	18.1	24.4	29.9	30.4	33.9	29.8
Value of imports	$m	233.5	221.4	220.2	227.6	257.8	256.3	308.0	250.2
Rock lobster									
Production **ac**	kt	16.5	14.1	16.6	19.3	17.9	15.6	13.7	13.2
Value of production **c**	$m	477.2	499.9	454.9	401.2	414.7	459.1	441.2	404.3
Exports **b**	kt	13.3	10.9	11.5	13.5	12.6	11.9	10.3	9.5
Value of exports	$m	532.6	492.6	463.1	426.8	439.6	489.4	463.4	400.9
Abalone									
Production **as**	kt	5.7	5.9	5.2	5.8	6.0	5.5	5.5	5.4
Value of production	$m	276.4	247.4	216.2	197.9	233.0	225.1	216.1	204.9
Exports **b**	kt	3.5	4.0	4.2	4.9	4.0	3.7	3.9	3.6
Value of exports	$m	249.3	263.1	216.1	237.7	263.1	245.6	246.0	217.2
Scallops									
Production **a**	kt	9.2	5.7	9.6	9.4	15.5	9.1	10.4	9.3
Value of production	$m	39.0	23.3	34.9	25.1	47.0	25.8	28.3	29.4
Exports **b**	kt	2.1	1.5	1.2	1.5	1.2	1.5	1.4	1.1
Value of exports	$m	53.4	34.4	28.7	34.9	32.6	38.8	35.4	27.8
Tuna									
Production **ads**	kt	16.1	15.9	13.4	14.7	11.3	12.7	13.1	14.0
Value of production **d**	$m	328.8	322.9	317.0	279.5	172.4	175.1	161.0	210.5
Exports **b**	kt	14.8	13.9	12.6	12.8	10.9	11.7	11.6	12.6
Value of exports	$m	331.9	325.8	321.0	273.5	165.7	179.4	162.2	206.2
Imports **b**	kt	23.6	25.3	33.9	47.4	37.5	36.5	34.5	38.8
Value of imports	$m	82.8	104.9	123.5	109.8	107.7	141.3	141.7	174.1
Other fin fish									
Production **as**	kt	122.6	140.1	152.0	165.6	172.4	149.4	144.4	145.5
Value of production	$m	514.1	558.4	561.6	567.1	558.8	598.1	688.2	714.9
Exports **b**	kt	13.3	17.5	17.4	13.2	15.0	11.6	11.4	9.8
Value of exports	$m	146.4	176.0	164.2	136.5	138.7	115.3	118.2	118.6
Imports **b**	kt	85.1	82.3	89.8	91.2	93.3	92.7	99.1	98.3
Value of imports	$m	426.4	431.8	467.0	435.1	439.6	460.7	559.4	540.9
All fisheries products									
Production **s**	kt	231.6	240.0	254.1	276.0	279.1	246.0	240.2	na
Value of production	$m	2 464.5	2 444.5	2 287.5	2 187.6	2 085.6	2 137.2	2 181.6	2 194.7
Edible exports	kt	64.7	64.3	60.2	58.5	57.3	52.3	48.0	44.0
Value of edible exports	$m	1 716.8	1 661.7	1 484.9	1 319.3	1 236.0	1 237.3	1 157.9	1 065.4
Value of non-edible exports	$m	451.9	438.5	359.6	332.6	305.7	309.6	336.1	276.3
Edible imports	kt	144.4	146.3	164.7	188.0	186.3	188.5	198.6	198.5
Value of edible imports	$m	870.3	889.2	950.2	904.9	959.3	1 028.5	1 184.4	1 132.2
Value of non-edible imports	$m	281.6	310.9	251.6	201.6	212.8	237.3	283.0	265.7

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

112 Quantity and value of Australian production of selected fisheries products

	Unit	Prawns	Rock lobster a	Abalone	Scallops	Oysters	Tuna	Other fin fish	All fisheries products b
Quantity cs									
1986-87	kt	21.0	12.0	na	na	7.1	12.0	85.0	na
1987-88	kt	23.0	16.0	na	na	8.0	11.0	94.0	na
1988-89	kt	28.0	18.0	1.6	0.0	8.0	9.0	98.0	169.6
1989-90	kt	23.3	15.7	1.5	0.0	7.5	8.2 d	120.9	184.3
1990-91	kt	29.1	14.7	1.5	0.0	8.1	11.7 e	145.4	217.8
1991-92	kt	24.5	18.5	1.5	0.0	8.2	13.2 e	139.8	214.4
1992-93	kt	25.1	18.4	3.4	33.0	8.6	10.2 e	123.6	236.9
1993-94	kt	23.2	16.8	3.3	23.7	8.7	7.7 e	121.9	223.9
1994-95	kt	28.0	16.4	3.8	15.8	9.4	8.7 e	127.5	232.2
1995-96	kt	29.4	15.7	3.9	15.3	10.1	9.2 e	123.5	228.6
1996-97	kt	27.7	15.8	3.8	8.8	10.1	13.0 e	128.5	222.8
1997-98	kt	29.6	16.6	3.8	10.3	10.7	11.9 e	134.3	232.3
1998-99	kt	31.2	18.6	5.6	7.6	8.7	16.7 e	126.5	232.8
1999-00	kt	26.8	19.9	5.6	12.1	9.7	16.2 e	114.5	222.7
2000-01	kt	30.2	16.5	5.7	9.2	9.6	16.1 e	122.6	231.6
2001-02	kt	29.5	14.1	5.9	5.7	10.2	15.9 e	140.1	240.0
2002-03	kt	26.5	16.6	5.2	9.6	10.5	13.4 e	152.0	254.1
2003-04	kt	27.6	19.3	5.8	9.4	12.7	14.7 e	165.6	276.0
2004-05	kt	23.7	17.9	6.0	15.5	11.8	11.3 e	172.4	279.1
2005-06	kt	23.5	15.6	5.5	9.1	12.1	12.7 e	149.4	246.0
2006-07	kt	20.6	13.7	5.5	10.4	14.3	13.1 e	144.4	240.2
2007-08 p	kt	22.5	13.2	5.4	9.3	13.2	14.0 e	145.5	na
Value s									
1986-87	$m	216.0	186.0	84.0	25.0	31.0	23.0	137.0	na
1987-88	$m	246.0	252.0	96.0	22.0	36.0	19.0	157.0	na
1988-89	$m	274.0	280.0	86.0	21.0	38.0	19.0	215.0	1 022.3 f
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 e	269.8	1 223.1 f
1991-92	$m	244.1	369.1	94.6	82.8	44.3	76.2 e	301.3	1 376.2 f
1992-93	$m	291.3	348.8	127.5	94.4	41.2	116.2 e	320.7	1 517.4 f
1993-94	$m	320.6	431.7	178.4	82.1	42.4	107.8 e	322.5	1 719.0 f
1994-95	$m	368.0	452.5	144.7	64.2	47.6	129.8 e	336.8	1 844.7 f
1995-96	$m	368.4	374.6	142.4	66.7	51.5	85.0 e	352.2	1 724.8 f
1996-97	$m	344.3	413.3	152.5	36.7	52.0	96.0 e	378.3	1 731.3 f
1997-98	$m	385.3	377.1	182.1	39.8	47.0	130.8 e	395.6	1 835.7 f
1998-99	$m	416.4	430.5	172.9	37.5	45.2	221.5 e	442.5	2 109.5 f
1999-00	$m	411.0	540.7	220.7	42.6	53.3	256.7 e	477.6	2 367.4 f
2000-01	$m	453.3	477.2	276.4	39.0	55.1	328.8 e	514.1	2 464.5
2001-02	$m	429.3	499.9	247.4	23.3	56.9	322.9 e	558.4	2 444.5
2002-03	$m	364.7	454.9	216.2	34.9	62.1	317.0 e	561.6	2 287.5
2003-04	$m	359.8	401.2	197.9	25.1	77.2	279.5 e	567.1	2 187.6
2004-05	$m	307.1	414.7	233.0	47.0	74.1	172.4 e	558.8	2 085.6
2005-06	$m	306.4	459.1	225.1	25.8	75.3	175.1 e	598.1	2 137.2
2006-07	$m	265.1	441.2	216.1	28.3	90.6	161.0 e	688.2	2 181.6
2007-08 p	$m	258.3	404.3	204.9	29.4	93.5	210.5 e	714.9	2 194.7

a Includes bugs for Queensland. **b** Excludes those products for which no quantity data is available, eg 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** ABARE estimate; the values of production are based on values to fishing operators (ABS estimates of gross value of production include certain marketing costs in some cases). **na** Not available.

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

113 Australian exports of prawns, by product type and destination

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity a								
Headless	t	785	580	307	437	150	118	435
Hong Kong, China	t	14	14	3	14	0	2	35
Japan	t	539	428	179	150	121	94	66
Spain	t	28	0	0	0	0	0	0
United States	t	98	10	1	3	3	0	0
Other	t	105	86	19	89	2	10	148
Whole	t	10 870	8 739	8 852	9 623	8 409	6 034	3 869
China	t	1 414	780	1 151	1 540	1 107	1 019	430
Chinese Taipei	t	254	219	184	74	40	54	14
Hong Kong, China	t	1 777	1 388	925	659	401	413	425
Italy	t	24	52	13	42	382	52	18
Japan	t	4 194	3 815	3 063	3 466	2 993	2 334	1 702
Malaysia	t	180	214	274	75	74	110	15
New Zealand	t	253	237	175	189	151	64	93
Spain	t	915	1 223	1 697	1 972	1 434	877	331
Thailand	t	1 076	90	124	198	376	145	105
United States	t	45	13	54	29	16	27	7
Other	t	1 095	888	953	618	345	317	349
Other	t	270	213	237	242	185	225	611
Chinese Taipei	t	12	8	20	21	0	0	12
Japan	t	49	15	9	12	1	14	24
Singapore	t	19	30	25	13	19	4	25
United States	t	11	0	1	1	0	2	1
Other	t	175	149	199	194	78	170	526
Total	t	11 925	9 532	9 396	10 302	8 744	6 376	4 916
Value								
Headless	$'000	18 607	12 002	5 353	6 639	2 835	2 285	5 803
Hong Kong, China	$'000	310	318	34	387	0	55	701
Japan	$'000	14 227	9 613	3 917	3 599	2 490	2 011	1 549
Spain	$'000	375	0	0	0	0	0	0
United States	$'000	2 445	298	33	69	57	0	0
Other	$'000	1 569	1 169	468	1 316	28	142	2 026
Whole	$'000	239 367	192 567	151 488	153 239	128 872	88 740	56 100
China	$'000	23 262	14 914	15 777	19 601	11 905	10 805	4 145
Chinese Taipei	$'000	5 440	5 153	3 997	1 483	828	1 183	249
Hong Kong, China	$'000	32 940	26 874	15 985	9 593	5 758	5 960	5 959
Italy	$'000	430	1 074	241	956	7 290	943	179
Japan	$'000	129 283	105 331	62 751	68 784	57 151	43 293	29 888
Malaysia	$'000	3 112	3 890	3 723	567	676	787	182
New Zealand	$'000	3 223	3 365	2 313	2 305	1 604	863	1 147
Spain	$'000	15 549	17 214	23 069	26 524	18 972	10 233	3 424
Thailand	$'000	15 066	1 102	1 442	2 290	3 817	1 505	1 093
United States	$'000	906	327	1 189	679	297	598	86
Other	$'000	19 405	16 396	15 239	8 066	4 001	4 072	3 847
Other	$'000	4 853	3 676	3 762	3 225	2 216	2 538	6 721
Chinese Taipei	$'000	309	169	372	453	0	0	240
Japan	$'000	1 459	345	181	241	24	142	411
Singapore	$'000	379	556	523	169	274	53	222
United States	$'000	372	0	27	16	3	34	17
Other	$'000	3 583	2 550	3 116	2 598	822	1 859	5 526
Total	$'000	262 827	208 245	160 603	163 104	133 923	93 563	68 624

a Product weight.

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

114 Australian imports of prawns, by product type and source

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity a								
Fresh, chilled or frozen	t	11 972	13 086	18 860	22 590	23 111	26 015	18 730
China	t	381	544	3 894	4 034	4 465	8 469	5 486
Chinese Taipei	t	42	41	102	92	283	120	46
India	t	2 571	2 763	2 920	3 096	2 459	2 000	1 084
Indonesia	t	1 526	1 629	1 617	1 669	1 094	686	197
Malaysia	t	587	395	190	183	159	478	1 619
Myanmar	t	716	644	564	528	572	597	267
New Caledonia	t	184	123	104	189	100	74	7
Papua New Guinea	t	133	161	196	59	11	24	11
Singapore	t	91	141	211	101	157	79	3
Thailand	t	3 677	3 597	4 911	5 741	6 106	5 503	4 694
Viet Nam	t	1 840	2 802	3 898	6 260	6 855	7 229	4 856
Other	t	356	381	422	466	457	380	144
Canned	t	5 432	5 032	5 584	7 247	7 239	7 891	11 087
Malaysia	t	1 356	1 202	1 089	1 244	809	767	644
Thailand	t	3 097	3 064	3 328	4 035	3 706	3 293	3 633
Viet Nam	t	94	167	319	437	591	292	1 964
Other	t	885	599	848	1 530	2 133	3 539	4 845
Other	t	155	29	5	18	54	1	1
China	t	3	0	0	16	33	0	0
Malaysia	t	65	0	2	0	2	1	1
Thailand	t	85	26	1	0	17	0	0
Viet Nam	t	2	0	0	0	1	0	0
Other	t	1	2	1	2	1	0	0
Total	t	17 559	18 147	24 448	29 855	30 404	33 906	29 818
Value								
Fresh, chilled or frozen	$'000	165 095	174 484	183 537	201 187	200 925	246 372	166 630
China	$'000	3 362	5 704	28 476	26 497	29 417	62 120	36 737
Chinese Taipei	$'000	626	714	1 297	1 054	2 884	1 395	351
India	$'000	38 963	39 759	34 872	32 149	25 451	24 420	12 208
Indonesia	$'000	17 934	17 501	13 423	10 820	8 508	5 675	1 841
Malaysia	$'000	6 321	3 889	1 783	1 826	1 761	4 548	17 535
Myanmar	$'000	8 183	6 451	4 867	4 599	4 816	5 730	2 670
New Caledonia	$'000	3 128	2 044	1 571	2 370	1 256	874	88
Papua New Guinea	$'000	1 139	1 357	1 307	406	73	138	65
Singapore	$'000	1 325	1 608	2 083	1 063	1 474	944	23
Thailand	$'000	51 886	47 027	44 250	45 556	45 968	48 228	38 613
Viet Nam	$'000	29 554	45 441	47 333	69 650	72 307	85 791	52 951
Other	$'000	3 812	4 047	3 368	3 780	3 940	3 383	1 218
Canned	$'000	54 553	45 386	44 020	56 491	54 961	61 663	83 530
Malaysia	$'000	12 030	10 082	8 072	8 215	5 216	5 386	4 778
Thailand	$'000	33 392	29 341	27 035	34 433	30 858	26 789	26 783
Vietnam	$'000	908	1 558	2 726	3 854	5 072	2 925	19 033
Other	$'000	8 223	4 404	6 187	9 989	13 815	26 563	32 936
Other	$'000	1 782	365	38	116	425	14	16
China	$'000	34	1	4	92	210	3	5
Malaysia	$'000	609	3	12	1	9	6	6
Thailand	$'000	1 055	334	12	0	200	3	3
Viet Nam	$'000	17	0	6	0	2	0	0
Other	$'000	66	28	4	24	4	3	3
Total	$'000	221 430	220 236	227 595	257 794	256 311	308 049	250 176

a Product weight.

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

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

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity a								
Tails b	t	870	1 698	2 062	1 849	1 612	1 458	1 034
Chinese Taipei	t	5	32	0	9	0	0	1
Hong Kong, China	t	3	16	10	18	12	14	16
Japan	t	18	57	141	38	42	38	26
United States	t	831	1 476	1 757	1 748	1 467	1 383	954
Other	t	14	118	153	36	91	24	36
Whole c	t	9 697	9 468	10 889	10 184	9 914	8 328	8 101
Chinese Taipei	t	2 094	1 557	1 369	1 194	824	816	1 072
Hong Kong, China	t	3 983	3 603	4 750	4 323	5 449	5 163	5 134
Japan	t	2 585	2 940	2 477	2 096	1 785	1 194	1 234
Singapore	t	317	283	306	214	162	190	209
United States	t	234	53	60	57	43	27	45
Other	t	484	1 032	1 927	2 300	1 650	938	407
Other	t	374	368	501	603	412	465	362
France	t	6	20	12	66	17	11	12
Hong Kong, China	t	59	8	18	8	30	28	32
Japan	t	300	296	414	395	284	345	249
United States	t	3	18	47	48	22	0	7
Other	t	6	26	10	87	59	81	63
Total	t	10 942	11 535	13 453	12 636	11 938	10 252	9 496
Value								
Tails b	$'000	65 362	112 922	102 506	100 572	97 335	101 500	63 378
Chinese Taipei	$'000	327	1 244	0	233	0	0	90
Hong Kong, China	$'000	191	809	475	594	593	862	933
Japan	$'000	1 742	3 101	5 894	2 031	2 303	2 034	1 411
United States	$'000	61 932	102 178	90 023	96 050	88 585	96 760	58 580
Other	$'000	1 171	5 590	6 114	1 665	5 854	1 844	2 363
Whole c	$'000	420 391	343 797	318 499	329 612	387 448	357 126	333 332
Chinese Taipei	$'000	82 321	51 730	35 547	36 919	29 842	30 112	32 304
Hong Kong, China	$'000	189 134	144 334	156 743	147 902	227 490	234 098	231 654
Japan	$'000	105 549	102 735	68 392	65 147	66 251	48 661	44 394
Singapore	$'000	12 863	10 448	7 620	6 293	5 697	7 313	6 908
United States	$'000	10 379	1 868	2 240	2 210	1 684	1 065	2 116
Other	$'000	20 145	32 681	47 957	71 141	56 484	35 877	15 956
Other	$'000	6 855	6 388	5 829	9 391	4 568	4 739	4 153
France	$'000	232	221	450	1 775	775	551	570
Hong Kong, China	$'000	2 409	279	285	67	271	244	93
Japan	$'000	3 762	4 164	3 173	3 611	1 248	1 398	2 257
United States	$'000	266	762	1 645	1 497	531	0	205
Other	$'000	185	962	275	2 442	1 743	2 546	1 029
Total	$'000	492 608	463 106	426 833	439 575	489 351	463 365	400 864

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.

116 Australian imports of rock lobster, by source

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity a								
Cuba	t	14	27	0	31	64	174	81
Malaysia	t	15	25	41	14	17	17	23
New Zealand	t	4	6	6	1	0	1	0
Papua New Guinea	t	73	73	89	79	79	86	99
Thailand	t	130	194	151	118	215	155	175
United States	t	30	82	0	17	0	39	23
Viet Nam	t	4	19	3	3	3	10	138
Other	t	51	57	155	207	190	152	254
Total	t	320	484	444	469	568	634	792
Value								
Cuba	$'000	323	723	0	576	1 273	3 952	2 112
Malaysia	$'000	211	303	437	134	185	149	251
New Zealand	$'000	115	192	199	32	1	39	0
Papua New Guinea	$'000	3 365	3 373	2 151	2 816	2 590	3 727	4 205
Thailand	$'000	2 281	2 826	2 043	1 514	3 197	2 285	2 349
United States	$'000	562	2 364	0	359	0	913	594
Viet Nam	$'000	71	327	58	35	41	127	712
Other	$'000	1 131	953	2 201	2 666	2 962	2 027	3 896
Total	$'000	8 058	11 060	7 088	8 132	10 249	13 218	14 120

a Product weight.

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

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

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Exports								
Quantity a								
Fresh, chilled or frozen	t	2 007	1 701	2 119	2 032	2 133	2 241	2 148
China	t	51	30	20	296	609	271	111
Chinese Taipei	t	190	159	137	85	63	44	34
Hong Kong, China	t	1 210	1 129	1 551	1 229	1 019	1 492	1 545
Japan	t	507	351	377	394	404	391	381
United States	t	9	7	8	5	6	10	15
Other	t	40	24	26	23	31	33	63
Prepared or preserved	t	2 003	2 493	2 791	1 972	1 532	1 670	1 432
Chinese Taipei	t	396	207	428	227	153	134	66
Hong Kong, China	t	606	901	1 222	949	609	883	732
Japan	t	392	584	596	402	404	229	183
Singapore	t	300	326	344	311	249	324	339
United States	t	51	118	91	31	37	39	41
Other	t	258	356	110	52	80	61	70
Total	t	4 010	4 193	4 910	4 004	3 665	3 911	3 580
Value								
Fresh, chilled or frozen	$'000	122 987	109 277	117 482	123 856	131 533	139 041	124 187
China	$'000	5 613	3 141	1 532	16 033	34 493	14 255	5 736
Chinese Taipei	$'000	9 368	8 536	6 088	4 096	3 153	2 301	1 483
Hong Kong, China	$'000	70 354	71 567	87 086	76 529	66 780	94 240	89 809
Japan	$'000	33 160	22 574	19 985	24 250	23 766	24 057	21 978
United States	$'000	774	708	746	502	617	1 019	1 482
Other	$'000	3 719	2 751	2 045	2 447	2 724	3 169	3 700
Prepared or preserved	$'000	140 141	106 838	120 198	139 294	114 094	106 987	93 031
Chinese Taipei	$'000	26 145	8 403	16 366	12 806	10 553	7 836	3 971
Hong Kong, China	$'000	34 928	29 309	53 210	70 010	46 392	54 819	49 462
Japan	$'000	30 278	29 629	25 309	27 462	29 876	16 546	12 096
Singapore	$'000	24 637	20 088	16 744	22 475	18 768	20 861	20 309
United States	$'000	4 300	3 231	3 391	2 381	3 056	3 174	2 608
Other	$'000	19 854	16 177	5 178	4 160	5 449	3 750	4 585
Total	$'000	263 128	216 115	237 680	263 150	245 627	246 028	217 218
Imports								
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	14	10	10	6	14	15	7
Japan	t	0	0	3	0	0	0	0
New Zealand	t	1	0	0	0	0	0	0
Philippines	t	0	1	0	0	2	0	0
Other	t	13	8	8	6	12	15	7
Total	t	14	10	10	6	14	15	7
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	139	540	475	149	252	508	120
Japan	$'000	0	1	316	0	0	0	4
New Zealand	$'000	26	6	0	3	0	0	9
Philippines	$'000	0	50	0	0	9	0	0
Other	$'000	113	482	160	146	244	508	108
Total	$'000	139	540	475	149	252	508	120

a Product weight.

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

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

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Exports									
Quantity a									
Fresh, chilled or frozen	t	2 058	1 403	1 130	1 460	1 208	1 484	1 401	1 127
China	t	472	1	0	0	0	28	24	26
France	t	0	0	0	0	156	305	187	0
Hong Kong, China	t	1 181	971	769	1 096	727	764	799	736
Malaysia	t	101	103	72	54	33	61	47	86
Singapore	t	277	305	246	249	181	260	274	254
United States	t	0	0	2	1	1	1	0	0
Other	t	26	23	43	58	110	65	69	25
Other	t	87	85	35	4	0	0	0	0
Hong Kong, China	t	30	84	35	3	0	0	0	0
Other	t	57	1	0	1	0	0	0	0
Total	t	2 145	1 488	1 165	1 464	1 209	1 485	1 401	1 128
Value									
Fresh, chilled or frozen	$'000	49 501	31 639	26 639	34 789	32 560	38 748	35 414	27 809
China	$'000	3 871	11	5	0	0	769	445	611
France	$'000	0	0	0	0	2 704	6 462	4 551	0
Hong Kong, China	$'000	33 506	21 270	18 732	26 109	21 971	21 241	21 042	18 461
Malaysia	$'000	2 994	2 471	1 611	1 287	949	1 563	1 130	1 909
Singapore	$'000	8 317	7 389	5 392	5 715	5 232	7 314	7 278	6 225
United States	$'000	0	0	63	74	38	19	11	11
Other	$'000	814	498	836	1 603	1 666	1 380	956	591
Other	$'000	3 904	2 794	2 048	126	6	25	3	29
Hong Kong, China	$'000	2 694	2 782	2 036	93	5	24	0	0
Other	$'000	1 210	12	11	34	0	1	3	29
Total	$'000	53 405	34 433	28 686	34 916	32 566	38 773	35 417	27 838
Imports									
Quantity									
Fresh, chilled or frozen									
China	t	260	454	654	928	1 398	1 355	1 583	1 114
Indonesia	t	98	39	18	14	8	19	194	5
Japan	t	826	664	937	664	391	523	337	720
New Zealand	t	33	29	13	1	1	1	1	1
Peru	t	68	0	12	37	0	6	7	30
Thailand	t	396	360	338	408	310	257	365	293
Viet Nam	t	96	48	7	7	20	43	32	14
Other	t	253	89	65	53	29	87	243	144
Total	t	1 856	1 617	2 024	2 104	2 297	2 421	2 665	2 460
Value									
Fresh, chilled or frozen									
China	$'000	4 179	6 137	6 618	8 823	15 250	16 201	16 442	11 195
Indonesia	$'000	798	424	144	100	41	145	943	9
Japan	$'000	13 609	9 058	12 033	7 557	6 027	7 780	4 795	9 766
New Zealand	$'000	614	566	267	20	7	5	26	28
Peru	$'000	785	0	140	316	1	41	37	263
Thailand	$'000	6 274	4 863	4 114	4 547	3 490	2 860	4 695	2 796
Viet Nam	$'000	603	564	64	49	144	401	366	141
Other	$'000	3 137	1 397	935	441	324	980	1 639	2 252
Total	$'000	28 388	22 219	24 241	22 027	27 458	30 756	29 814	28 081

a Product weight.

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

119 Australian exports of fish, by product type and destination a

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity b								
Live fish	t	na	na	na	na	na	na	na
Whole	t	24 187	24 096	20 434	20 406	18 534	18 489	18 413
China	t	1 761	2 101	1 369	1 734	672	743	640
Chinese Taipei	t	151	93	77	35	9	255	242
Germany	t	76	20	246	101	41	96	77
Japan	t	15 555	14 215	13 508	11 162	11 134	9 471	12 246
Saudi Arabia	t	135	120	119	134	75	37	0
Singapore	t	581	175	98	257	99	118	133
Thailand	t	1 308	1 087	826	2 077	1 635	1 866	826
United States	t	1 903	1 612	1 217	1 009	964	959	629
Other	t	2 716	4 672	2 974	3 896	3 906	4 944	3 620
Fillets	t	3 996	3 237	2 779	2 537	2 023	1 757	1 016
Japan	t	807	266	219	194	155	463	32
Thailand	t	0	1	127	140	1	31	8
United States	t	1 461	1 194	768	775	402	161	18
Other	t	1 728	1 776	1 666	1 427	1 466	1 102	957
Smoked, dried or salted	t	178	222	187	164	135	229	176
Canned	t	773	714	834	1 234	1 204	1 291	1 972
Other	t	2 263	1 783	1 736	1 591	1 364	1 184	838
Chinese Taipei	t	156	106	164	139	105	58	56
Japan	t	254	115	624	380	86	89	115
New Zealand	t	66	76	37	74	129	179	32
Other	t	1 786	1 486	911	998	1 043	859	634
Total	t	31 396	30 052	25 970	25 931	23 260	22 949	22 414
Value								
Live fish	$'000	47 271	46 991	39 316	34 946	40 078	40 825	42 827
Whole	$'000	383 530	376 677	311 085	209 555	208 048	194 718	238 924
China	$'000	4 364	3 675	3 549	4 378	1 498	1 871	1 885
Chinese Taipei	$'000	2 190	1 459	816	305	156	1 446	1 217
Germany	$'000	726	166	1 320	600	354	879	832
Japan	$'000	330 927	331 251	277 718	172 045	178 452	156 577	207 564
Saudi Arabia	$'000	161	124	122	139	78	45	0
Singapore	$'000	2 399	1 562	776	1 253	728	1 165	1 677
Thailand	$'000	3 210	3 331	2 130	4 729	3 725	4 819	2 459
United States	$'000	22 268	19 320	13 537	10 794	10 268	9 046	5 919
Other	$'000	17 286	15 790	11 117	15 311	12 789	18 869	17 370
Fillets	$'000	27 385	24 455	17 007	18 612	14 637	12 814	5 695
Japan	$'000	3 420	1 689	1 222	1 318	878	4 495	317
Thailand	$'000	2	10	239	268	7	418	165
United States	$'000	15 763	15 411	8 541	11 306	6 121	2 083	182
Other	$'000	8 199	7 346	7 005	5 720	7 631	5 818	5 031
Smoked, dried or salted	$'000	15 958	18 608	19 471	20 047	13 687	15 305	16 641
Canned	$'000	5 165	5 031	6 354	6 587	6 797	6 300	12 560
Other	$'000	22 517	13 439	16 748	14 627	11 515	10 435	8 149
Chinese Taipei	$'000	3 583	2 694	3 496	4 167	2 743	1 417	903
Japan	$'000	8 270	2 950	6 701	4 971	2 611	2 826	2 557
New Zealand	$'000	268	275	308	372	766	745	267
Other	$'000	10 396	7 519	6 243	5 117	5 395	5 448	4 421
Total	$'000	501 826	485 201	409 980	304 375	294 762	280 398	324 795

a Excludes tuna. **b** Product weight. **na** Not available.

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

120 Australian imports of fish, by product type and source

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity a								
Live	t	na	na	na	na	na	na	na
Fresh, chilled or frozen	t	57 960	60 090	64 475	59 847	59 724	59 772	61 914
Whole	t	20 842	23 408	24 846	21 368	18 157	16 614	17 905
New Zealand	t	9 909	11 586	13 429	9 563	8 543	9 132	10 457
Fillets	t	37 118	36 682	39 630	38 479	41 567	43 157	44 009
Chile	t	3 492	1 984	1 880	1 192	835	241	111
New Zealand	t	12 967	12 325	10 819	8 444	8 628	9 811	10 252
South Africa	t	6 139	5 256	5 144	3 989	2 625	3 023	2 446
Uganda	t	1 826	1 674	1 691	803	621	778	289
Smoked, dried or salted	t	2 151	2 801	2 811	2 957	3 074	4 219	3 755
South Africa	t	453	1 039	668	823	846	1 130	960
Denmark	t	534	581	895	936	923	1 170	920
Thailand	t	55	59	62	29	21	56	56
Canned	t	36 944	47 398	58 804	53 443	52 687	52 156	53 557
Canada	t	3 708	3 534	3 833	3 784	4 206	3 204	2 213
Thailand	t	22 771	30 142	44 266	38 872	36 952	36 373	39 326
United States	t	4 425	5 385	5 055	5 037	4 687	6 151	5 070
Other fish preparations	t	10 544	13 453	12 474	14 508	13 721	17 497	17 852
Japan	t	232	253	280	348	222	130	166
New Zealand	t	4 097	5 001	3 583	3 598	3 229	5 592	4 615
Thailand	t	2 825	3 915	3 746	5 462	4 524	4 818	5 630
Total	t	107 599	123 742	138 564	130 756	129 207	133 644	137 079
Value								
Live	$'000	35	6	19	5	1	4	0
Fresh, chilled or frozen	$'000	278 527	283 171	273 671	262 302	272 718	316 572	325 012
Whole	$'000	68 935	77 118	78 122	72 742	71 421	81 424	90 255
New Zealand	$'000	37 854	44 080	47 703	43 948	45 441	54 512	63 021
Fillets	$'000	209 592	206 054	195 548	189 560	201 297	235 148	234 758
Chile	$'000	12 524	6 554	4 925	3 330	2 352	809	247
New Zealand	$'000	75 632	73 970	61 017	51 018	51 052	62 097	66 586
South Africa	$'000	32 013	29 073	27 461	20 983	14 536	17 938	14 644
Uganda	$'000	12 332	10 931	7 337	3 488	3 387	4 606	1 407
Smoked, dried or salted	$'000	24 792	26 263	30 459	34 053	36 191	53 076	45 056
South Africa	$'000	2 495	4 847	3 238	4 227	4 448	5 766	5 288
Denmark	$'000	9 564	9 828	14 746	16 769	17 003	24 142	17 353
Thailand	$'000	474	404	501	196	178	337	317
Canned	$'000	182 209	218 762	186 148	188 745	228 710	243 766	257 466
Canada	$'000	20 797	23 358	19 911	19 135	23 280	19 206	12 568
Thailand	$'000	103 096	118 569	108 463	111 617	143 119	150 631	177 728
United States	$'000	21 174	27 755	22 146	21 322	21 577	31 946	23 486
Other fish preparations	$'000	51 138	62 352	54 510	62 181	64 451	87 632	87 467
Japan	$'000	2 580	2 359	2 331	3 002	1 860	1 452	1 682
New Zealand	$'000	17 519	22 555	17 690	17 345	15 945	28 780	24 654
Thailand	$'000	11 548	14 689	11 957	15 814	14 352	15 375	17 186
Total	$'000	536 701	590 553	544 806	547 285	602 070	701 050	715 002

a Product weight. **na** Not available.

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

121 Australian exports and imports of oysters, by country

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Exports									
Quantity									
China	t	7	5	7	0	0	1	3	0
Chinese Taipei	t	7	5	2	0	1	1	0	0
Hong Kong, China	t	166	85	55	81	103	101	178	134
Japan	t	13	22	34	26	58	63	45	29
Singapore	t	40	77	60	6	5	9	4	48
Other	t	12	24	6	5	7	13	19	16
Total	t	246	219	163	119	174	187	249	228
Value									
China	$'000	46	34	90	0	0	12	27	3
Chinese Taipei	$'000	64	45	88	3	8	9	0	0
Hong Kong, China	$'000	4 903	1 596	541	692	870	784	1 560	1 182
Japan	$'000	201	265	542	326	719	777	521	400
Singapore	$'000	744	1 000	428	106	82	86	35	433
Other	$'000	325	561	52	55	66	115	151	115
Total	$'000	6 283	3 501	1 742	1 182	1 746	1 783	2 294	2 133
Imports									
Quantity									
China	t	2	2	47	4	8	1	7	5
Hong Kong, China	t	2	2	3	1	1	2	1	0
Japan	t	15	18	30	41	11	0	0	2
Korea, Rep. of	t	11	18	28	28	15	0	2	0
New Zealand	t	565	580	685	674	872	673	827	717
Other	t	0	0	0	1	3	1	0	1
Total	t	596	621	792	749	910	678	837	726
Value									
China	$'000	82	86	295	105	72	17	87	48
Hong Kong, China	$'000	90	74	90	31	32	65	16	13
Japan	$'000	219	237	364	440	113	1	0	46
Korea, Rep. of	$'000	129	197	243	221	106	1	12	0
New Zealand	$'000	3 872	4 134	5 933	5 981	6 631	5 710	6 725	7 128
Other	$'000	21	13	0	19	21	13	0	35
Total	$'000	4 414	4 740	6 926	6 797	6 975	5 808	6 841	7 270

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

122 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	2006-07	2005-06	2006-07	2005-06	2006-07	2005-06	2006-07
	'000	'000	$m	$m	$m	$m	$m	$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	26	925	961	4 005	4 464	1 548	1 551
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	na	241	na	2 700	na	481	na
Food nec	20	13	841	612	5 854	4 548	1 474	1 020
Total	44	33	2 117	1 752	16 340	13 325	4 191	3 175
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	191	9 024	9 085	71 372	73 005	17 495	17 161

a Includes working proprietors. **b** Excludes drawings of working proprietors. **c** Prevously turnover. **d** excludes spirits. **na** Not available.
Sources: ABS, *Manufacturing Industry*, cat. no. 8221.0, Canberra; ABS unpublished data, Canberra.

123 Value of Australian food exports, by level of transformation

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Minimally transformed								
Live animals except fish	754	938	1 001	602	594	668	752	761
Fish or shellfish	772	868	773	677	584	657	632	647
Horticulture								
Vegetables	201	218	200	161	155	149	147	137
Fruit and nuts	477	562	533	407	462	482	451	433
Total	678	780	732	568	617	631	598	570
Grains a	5 294	5 854	3 873	4 655	4 672	4 305	3 329	4 209
Oilseeds	722	752	401	550	492	412	167	346
Food nec	81	61	73	46	46	49	54	41
Substantially transformed								
Meat								
Meat processing	5 770	6 215	5 626	5 723	6 902	6 673	7 048	6 506
Poultry processing	26	26	22	20	20	21	26	32
Bacon, ham and smallgoods	66	80	83	84	107	91	43	33
Total	5 862	6 322	5 730	5 827	7 029	6 785	7 117	6 570
Seafood	981	852	753	660	689	606	548	440
Dairy								
Milk and cream processing	1 555	1 651	1 181	1 076	1 108	1 210	1 089	1 258
Ice cream	34	32	29	35	42	41	42	37
Other dairy products	1 487	1 594	1 286	1 176	1 335	1 318	1 307	1 467
Total	3 076	3 277	2 496	2 288	2 485	2 569	2 438	2 763
Fruit and vegetables	572	662	535	518	511	555	574	569
Oil and fat	129	150	146	147	151	150	169	239
Flour mill and cereal food								
Flour mill products	207	233	214	202	223	230	269	315
Cereal food and baking mixes	546	402	261	222	219	248	372	287
Total	753	636	474	424	441	478	642	602
Bakery products								
Bread, cakes and pastry products	15	14	19	18	18	26	27	26
Biscuits	73	93	97	106	114	107	111	118
Total	88	106	116	123	132	132	137	144
Other food								
Sugar **a**	1 192	1 446	1 238	1 000	1 169	1 645	1 551	1 104
Confectionery	265	289	295	271	259	208	215	237
Food nec	1 114	1 249	1 075	1 129	1 080	1 099	1 142	1 094
Total	2 571	2 984	2 608	2 400	2 509	2 952	2 907	2 435
Beverages and malt								
Soft drink, cordial and syrup	45	42	48	53	46	42	39	38
Beer and malt	267	317	324	282	241	218	273	335
Wine	1 756	2 109	2 428	2 497	2 721	2 768	2 894	2 700
Spirit	115	120	106	84	92	91	89	86
Total	2 183	2 588	2 905	2 915	3 100	3 120	3 294	3 159
Total food and beverages								
Minimally transformed	8 302	9 253	6 852	7 099	7 006	6 722	5 532	6 574
Substantially transformed	15 913	17 237	15 398	14 956	16 706	17 062	17 530	16 597
Elaborately transformed	304	340	365	347	341	286	297	324
Total	24 518	26 829	22 614	22 402	24 053	24 070	23 359	23 495

a Includes ABARE estimates where ABS confidentiality restrictions apply.

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

124 Value of Australian food exports to selected regions

	Asia		European Union 25		NAFTA	
	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08
	$m	$m	$m	$m	$m	$m
Minimally transformed						
Live animals except fish	399	412	0	0	4	4
Fish or shellfish	600	621	7	7	12	8
Horticulture						
Vegetables	75	64	22	23	1	1
Fruit and nuts	283	259	24	26	56	60
Total	358	323	46	49	57	61
Grains a	2 389	2 599	57	52	1	1
Oilseeds	146	193	6	100	6	10
Food nec	34	25	4	3	4	2
Substantially transformed						
Meat						
Meat processing	4 236	3 819	236	265	1 812	1 487
Poultry processing	10	12	0	0	0	0
Bacon, ham and smallgoods	28	21	2	0	0	0
Total	4 275	3 852	238	266	1 813	1 488
Seafood	368	320	37	15	108	68
Dairy						
Milk and cream processing	798	925	17	10	30	21
Ice cream	27	19	0	0	0	0
Other dairy products	800	947	70	84	130	112
Total	1 625	1 891	87	94	160	134
Fruit and vegetables	240	215	81	97	50	35
Oil and fat	79	137	6	6	15	10
Flour mill and cereal food						
Flour mill products	167	188	2	1	53	82
Cereal food and baking mixes	54	92	6	7	4	9
Total	221	280	9	8	57	91
Bakery products						
Bread, cakes and pastry products	6	5	0	0	0	0
Biscuits	9	11	6	6	8	7
Total	15	16	6	6	8	7
Other food						
Sugar **a**	1 267	877	10	6	119	68
Confectionery	87	100	6	8	8	10
Food nec	742	669	42	40	39	45
Total	2 095	1 646	58	54	167	123
Beverages and malt						
Soft drink, cordial and syrup	9	10	1	2	1	1
Beer and malt	246	305	0	0	0	0
Wine	247	274	1 359	1 268	1 115	1 000
Spirit	26	16	13	15	1	3
Total	528	605	1 373	1 285	1 117	1 004
Total food and beverage						
Minimally transformed	3 927	4 173	121	212	83	86
Substantially transformed	9 377	8 886	1 882	1 818	3 480	2 945
Elaborately transformed	69	77	12	14	14	16
Total	13 372	13 136	2 014	2 043	3 577	3 047

a Includes ABARE estimates where ABS confidentiality restrictions apply.

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

125 Value of Australian food imports, by level of transformation

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Minimally transformed								
Live animals except fish	0	1	0	0	1	1	1	1
Fish or shellfish	37	37	41	46	46	47	57	65
Horticulture								
Vegetables	26	24	27	34	32	41	45	53
Fruit and nuts	110	117	115	140	159	191	194	216
Total	136	141	142	173	191	233	238	269
Grains	0	0	65	1	1	1	2	2
Oilseeds	24	21	61	50	25	20	78	49
Food nec	81	61	73	46	46	49	54	41
Substantially transformed								
Meat								
Meat processing	105	206	172	224	345	290	446	381
Poultry processing	0	0	0	0	0	0	0	0
Bacon, ham and smallgoods	31	36	39	40	41	43	42	50
Total	136	242	211	264	387	333	489	431
Seafood	843	865	923	868	928	998	1 151	1 095
Dairy								
Milk and cream processing	37	29	34	35	45	45	40	67
Ice cream	21	15	22	22	29	30	40	37
Other dairy products	261	277	275	272	310	357	401	552
Total	319	321	331	330	384	432	480	656
Fruit and vegetables	755	818	921	945	1 027	1 043	1 233	1 390
Oil and fat	278	283	365	373	376	417	481	489
Flour mill and cereal food								
Flour mill products	77	22	41	59	73	57	34	66
Cereal food and baking mixes	196	226	236	260	285	305	325	462
Total	273	248	277	319	358	362	358	527
Bakery products								
Bread, cakes and pastry products	92	89	106	117	120	138	163	175
Biscuits	82	106	152	160	177	199	254	267
Total	174	196	257	277	297	337	417	442
Other food								
Sugar	12	16	20	15	18	19	20	22
Confectionery	224	222	245	261	307	333	371	438
Food nec	859	923	1 034	963	1 038	1 075	1 186	1 271
Total	1 095	1 161	1 299	1 240	1 363	1 427	1 577	1 731
Beverages and malt								
Soft drink, cordial and syrup	405	421	461	502	537	571	656	697
Beer and malt	52	66	78	91	99	112	126	161
Wine	92	116	139	158	200	248	334	454
Spirit	334	355	331	354	390	414	465	491
Total	884	957	1 010	1 105	1 226	1 345	1 582	1 802
Total food and beverages								
Minimally transformed	279	262	383	317	309	350	430	427
Substantially transformed	4 614	4 919	5 390	5 504	6 119	6 435	7 430	8 167
Elaborately transformed	143	172	204	217	228	259	338	396
Total	5 036	5 352	5 976	6 038	6 656	7 043	8 198	8 990

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

126 Value of Australian food imports from selected regions

	Asia		European Union 25		NAFTA	
	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08
	$m	$m	$m	$m	$m	$m
Minimally transformed						
Live animals except fish	0	0	0	0	0	0
Fish or shellfish	2	2	0	0	0	0
Horticulture						
Vegetables	16	17	1	2	8	12
Fruit and nuts	25	25	15	8	67	90
Total	41	42	16	9	75	102
Grains	1	1	0	0	1	1
Oilseeds	17	22	1	1	28	5
Food nec	74	80	4	3	3	3
Substantially transformed						
Meat						
Meat processing	0	0	173	142	251	223
Poultry processing	0	0	0	0	0	0
Bacon, ham and smallgoods	1	1	7	13	17	18
Total	1	1	181	156	268	242
Seafood	752	739	55	49	64	47
Dairy						
Milk and cream processing	3	5	2	1	2	3
Ice cream	9	10	13	7	3	3
Other dairy products	7	6	99	119	15	64
Total	19	21	115	128	20	70
Fruit and vegetables	367	430	249	280	141	170
Oil and fat	184	243	225	166	13	7
Flour mill and cereal food						
Flour mill products	11	33	8	11	6	11
Cereal food and baking mix	150	222	122	173	14	23
Total	161	255	130	184	20	34
Bakery products						
Bread, cakes and pastry products	55	60	43	48	8	9
Biscuits	87	93	78	78	9	8
Total	142	154	121	126	17	17
Other food						
Sugar	13	15	3	2	2	2
Confectionery	73	86	169	195	20	21
Food nec	427	471	317	317	153	152
Total	514	572	488	514	176	176
Beverages and malt						
Soft drink, cordial and syrup	34	34	477	504	12	15
Beer and malt	11	17	56	69	53	67
Wine	0	2	168	219	2	2
Spirit	5	13	238	257	164	167
Total	50	65	938	1 048	231	251
Total food and beverages						
Minimally transformed	134	147	21	14	107	111
Substantially transformed	2 096	2 376	2 387	2 517	937	1 001
Elaborately transformed	93	104	115	132	12	12
Total	2 323	2 626	2 523	2 663	1 056	1 125

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

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

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share b %
Minimally transformed						
Live animals except fish	9 268	9 340	10 582	12 090	13 339	1.9
Fish or shellfish						
Fish, live or fresh	26 945	29 464	32 964	37 071	40 886	5.8
Fish, dried, salted or smoked	2 590	2 850	3 146	3 427	3 630	0.5
Shellfish	18 175	20 045	21 111	21 612	23 089	3.6
Horticulture						
Vegetables	24 143	27 627	30 653	32 778	34 912	5.2
Fruit and nuts	34 196	40 613	46 116	51 124	53 784	7.8
Cocoa	6 798	9 648	9 103	9 679	9 758	1.5
Eggs, albumin	1 532	1 879	2 098	2 215	2 233	0.3
Grains and oilseeds						
Barley	2 577	2 797	3 414	3 858	3 683	0.6
Maize	10 258	11 786	13 438	12 438	13 459	2.1
Oilseeds, not soft oil	813	950	1 151	1 213	1 138	0.2
Oilseeds, soft oil	15 998	21 520	25 204	23 958	23 466	3.8
Rice	6 083	6 968	7 900	7 630	7 600	1.2
Wheat or meslin	16 125	16 939	19 680	17 423	17 209	3.0
Other cereal grains, nec	1 640	1 737	1 819	1 690	1 811	0.3
Substantially transformed						
Meat						
Beef, fresh, chilled or frozen	13 759	15 990	17 850	19 825	22 023	3.1
Meat, fresh, chilled or frozen	25 558	28 992	33 502	37 364	37 584	5.6
Meat or offal, preserved	2 191	2 530	2 500	2 467	2 751	0.4
Meat or offal, preserved, nec	6 157	7 207	8 514	9 988	10 898	1.5
Dairy						
Milk products, excluding butter and cheese	13 918	16 593	19 399	20 152	20 584	3.1
Butter and cheese	2 736	3 612	4 155	4 244	4 195	0.7
Cheese and curd	11 008	13 113	15 310	15 955	16 786	2.5
Fish or shellfish	10 415	11 435	12 892	13 879	15 082	2.2
Cereal products						
Flour or meal from wheat or meslin	1 247	1 494	1 810	1 430	1 428	0.3
Cereal flour or meal, nec	476	540	619	538	597	0.1
Cereal etc flour or starch	16 279	19 468	22 400	23 911	25 745	3.7
Horticulture						
Vegetables, prepared or preserved	10 778	12 414	14 204	14 866	16 022	2.3
Fruit, prepared or preserved	6 745	8 171	9 400	10 390	11 427	1.6
Fruit or vegetable juices	6 788	8 060	8 346	9 112	10 548	1.5
Sugar and confectionery						
Sugar, molasses and honey	12 821	14 359	15 328	17 901	20 647	2.8
Sugar confectionery	4 380	5 228	5 822	6 138	6 265	1.0
Chocolate and cocoa preparations	7 852	9 569	11 109	11 909	12 972	1.8

Continued

127 Value of world food imports, by level of transformation a continued

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share b %
Animal and vegetable oil						
Margarine and shortening	1 389	1 648	2 049	2 109	2 323	0.3
Animal oil or fat	1 732	2 124	2 545	2 503	2 605	0.4
Vegetable oil or fat, fixed, soft	10 492	13 379	15 823	16 128	17 526	2.5
Vegetable oils, fixed, not soft	8 736	11 839	14 399	13 577	13 383	2.1
Animal or vegetable oils, processed	3 213	3 947	4 531	4 827	4 894	0.7
Other food						
Coffee and coffee substitutes	9 011	10 738	12 167	15 779	17 923	2.3
Tea and mate	2 981	3 221	3 530	3 509	3 679	0.6
Spices	2 648	3 020	3 198	2 852	2 852	0.5
Edible products, nec	21 084	25 113	29 487	31 807	34 304	4.9
Beverage						
Beverages, nonalcoholic, nec	6 270	7 438	8 725	9 770	11 147	1.5
Alcoholic beverages	32 689	37 833	42 821	45 777	50 039	7.2
Animal feed c	24 399	27 219	32 391	32 587	33 911	5.2
Total	454 895	530 459	603 203	639 499	680 138	100.0

a Based on over 100 reporting countries representing more than 90 per cent of world trade. **b** Average, 2002–2006. **c** Excludes unmilled cereal.
Sources: International Trade Centre, UNCTAD/WTO; ABARE.

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

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share b %
Meat						
Australia	3 240	3 455	4 804	5 236	5 351	7.0
Denmark	3 568	3 961	4 690	4 655	5 069	7.0
France	3 026	3 675	3 961	4 049	4 117	6.0
Netherlands	4 116	4 911	5 726	6 010	6 547	8.7
United States	6 477	7 379	5 275	6 700	7 313	10.5
Other	26 900	31 836	39 057	45 074	48 878	60.9
Total	47 327	55 217	63 513	71 724	77 276	100.0
Dairy						
Australia	1 569	1 349	1 746	1 859	1 829	4.4
France	3 878	4 663	5 186	5 379	5 574	12.9
Germany	3 886	5 327	6 671	6 156	6 517	14.9
Netherlands	3 311	4 358	4 721	4 649	4 859	11.5
New Zealand	2 418	2 771	3 317	3 665	4 046	8.5
Other	12 794	15 588	19 373	21 223	22 567	47.9
Total	27 856	34 056	41 014	42 930	45 391	100.0
Seafood						
Australia	45	74	77	77	72	0.5
China	1 628	1 923	2 594	3 177	4 216	20.8
Denmark	452	533	594	634	693	4.5
Korea, Rep. of	232	203	207	184	153	1.5
Thailand	2 015	2 145	2 253	2 497	2 994	18.3
Other	5 707	6 551	7 195	7 746	8 090	54.3
Total	10 080	11 429	12 920	14 314	16 218	100.0
Horticulture						
Australia	140	177	178	186	190	0.6
China	2 155	2 684	3 207	3 857	4 681	10.5
Italy	1 863	2 178	2 332	2 315	2 439	7.0
Netherlands	2 053	2 452	2 729	2 765	3 195	8.4
United States	2 385	2 379	2 497	2 710	3 042	8.2
Other	15 589	18 645	21 068	22 850	25 063	65.3
Total	24 186	28 516	32 009	34 683	38 609	100.0
Beverages c						
Australia	1 370	1 646	2 088	2 201	2 184	3.7
France	8 562	10 380	11 102	11 408	13 023	21.1
Germany	2 145	2 824	3 496	3 316	3 956	6.1
Italy	3 669	4 238	4 896	5 015	5 396	9.0
United Kingdom	4 974	5 721	6 179	6 360	6 858	11.6
Other	18 647	22 333	25 615	27 723	30 990	48.5
Total	39 367	47 142	53 376	56 023	62 406	100.0
Sugar and confectionery						
Australia	244	259	317	306	326	0.9
Belgium–Luxembourg	1 860	2 278	2 820	2 918	3 385	8.1
Brazil	2 302	2 442	2 987	4 274	6 513	11.3
France	2 520	2 866	3 168	2 583	2 888	8.6
Germany	2 298	2 785	3 327	3 370	3 754	9.5
Other	15 986	18 252	20 036	22 246	24 437	61.7
Total	25 211	28 882	32 655	35 697	41 304	100.0

Continued

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

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share b %
Animal and vegetable oil						
Argentina	2 093	2 842	3 171	3 307	3 889	8.3
Australia	215	260	319	292	305	0.8
Malaysia	4 837	6 503	7 195	6 677	7 729	18.0
Netherlands	1 632	2 005	2 333	2 417	3 045	6.2
United States	2 004	2 108	2 115	1 960	2 211	5.7
Other	15 604	19 329	23 862	25 460	27 788	61.1
Total	26 384	33 048	38 995	40 114	44 967	100.0
Animal feed d						
Argentina	2 790	3 500	3 835	4 032	4 653	13.5
Australia	522	540	708	584	642	2.1
Brazil	2 300	2 713	3 402	2 998	2 590	10.0
Netherlands	1 886	2 144	2 808	2 943	3 143	9.2
United States	4 114	4 159	3 981	4 203	4 701	15.1
Other	11 158	12 647	14 928	15 561	15 669	50.0
Total	22 770	25 703	29 662	30 321	31 397	100.0
Cereal products						
Australia	319	364	448	448	468	1.6
Belgium–Luxembourg	1 651	2 007	2 317	2 346	2 487	8.7
France	1 736	2 177	2 531	2 609	2 724	9.5
Germany	1 914	2 431	3 085	3 045	3 392	11.1
Italy	2 034	2 352	2 669	2 652	2 902	10.1
Other	11 256	13 110	14 886	16 497	17 557	58.9
Total	18 910	22 442	25 935	27 597	29 529	100.0
Other processed food						
Australia	228	300	333	330	328	0.7
Brazil	1 681	1 836	2 420	3 330	3 854	5.7
France	1 752	2 137	2 394	2 351	2 514	4.8
Netherlands	1 969	2 488	3 256	3 346	3 457	6.3
United States	3 553	3 935	4 339	4 752	5 347	9.5
Other	25 582	29 813	34 814	39 333	40 038	73.2
Total	34 765	40 509	47 554	53 442	55 538	100.0
All processed food						
Australia	7 892	8 423	11 017	11 518	11 693	2.8
France	24 502	29 625	32 491	32 825	35 872	8.5
Germany	21 997	25 923	30 494	34 731	36 206	8.1
Netherlands	19 504	23 830	27 438	28 072	31 305	7.1
United States	23 877	25 761	24 920	27 523	31 062	7.3
Other	178 790	212 715	250 558	276 126	296 497	66.3
Total	276 561	326 278	376 918	410 796	442 636	100.0

a Based on over 100 reporting countries representing more than 90 per cent of world trade. **b** Average, 2002–2006. **c** Alcoholic and nonalcoholic. **d** Excludes unmilled cereal.

Sources: International Trade Centre UNCTAD/WTO; ABARE.

129 Value of world trade in processed foods, by major importing countries [a]

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share [b] %
Meat						
Australia	117	153	208	279	287	0.3
Germany	4 082	4 356	5 022	6 096	5 724	8.2
Italy	3 077	3 807	4 441	4 847	5 436	7.0
Japan	7 776	8 655	9 124	9 746	8 415	14.2
United Kingdom	4 268	5 477	6 478	6 777	7 165	9.8
Other	28 344	32 272	37 092	41 901	46 229	60.4
Total	47 665	54 719	62 365	69 644	73 257	100.0
Dairy						
Australia	157	200	255	297	325	0.7
Belgium–Luxembourg	2 106	2 604	2 947	2 891	3 038	7.5
Germany	3 362	4 093	4 519	4 557	4 837	11.8
Italy	2 396	3 031	3 574	3 518	3 519	8.8
Netherlands	1 811	2 257	2 532	2 584	2 711	6.5
Other	17 829	21 133	25 036	26 504	27 134	64.7
Total	27 662	33 319	38 863	40 351	41 565	100.0
Seafood						
Australia	179	215	234	277	302	1.9
France	716	810	884	937	982	6.8
Japan	2 284	2 170	2 707	2 614	2 672	19.5
United Kingdom	792	842	945	990	1 063	7.3
United States	2 157	2 362	2 576	2 749	3 104	20.3
Other	4 288	5 037	5 545	6 312	6 958	44.2
Total	10 415	11 435	12 892	13 879	15 082	100.0
Horticulture						
Australia	241	322	407	422	474	1.2
France	1 972	2 450	2 824	2 882	3 170	8.5
Germany	3 225	3 858	4 145	4 509	4 630	13.0
Japan	2 355	2 463	2 803	3 019	3 169	8.8
United States	3 374	3 907	4 282	4 758	5 283	13.7
Other	13 144	15 644	17 489	18 776	21 273	54.9
Total	24 310	28 644	31 950	34 368	37 998	100.0
Beverages [c]						
Australia	368	458	575	649	789	1.1
Germany	3 711	3 770	4 025	4 599	4 716	8.2
Japan	1 893	2 075	2 309	2 231	2 461	4.3
United Kingdom	4 603	5 424	6 540	6 763	6 952	12.0
United States	9 959	11 244	12 085	13 356	15 336	24.5
Other	18 425	22 299	26 012	27 949	30 934	49.7
Total	38 960	45 271	51 546	55 547	61 186	100.0
Sugar and confectionery						
Australia	154	214	251	293	304	0.7
France	1 513	1 849	2 131	2 064	2 168	6.0
Germany	1 839	2 336	2 587	2 657	2 605	7.4
United Kingdom	1 823	2 132	2 574	2 822	2 884	7.5
United States	2 894	3 400	3 476	3 943	4 640	11.3
Other	16 830	19 225	21 241	24 169	27 283	67.0
Total	25 053	29 156	32 260	35 948	39 883	100.0

Continued

129 Value of world trade in processed foods, by major importing countries a continued

	2002 US$m	2003 US$m	2004 US$m	2005 US$m	2006 US$m	Share b %
Animal and vegetable oil						
Australia	193	246	295	302	386	0.8
Germany	1 371	1 664	2 102	2 520	3 425	6.2
Italy	1 665	2 070	2 609	2 742	3 092	6.9
United Kingdom	922	1 144	1 110	1 135	1 599	3.3
United States	1 458	1 707	2 437	2 564	3 049	6.3
Other	19 953	26 106	30 793	29 881	29 181	76.5
Total	25 562	32 938	39 346	39 144	40 732	100.0
Animal feed d						
Australia	165	202	196	219	253	0.7
China	772	659	947	1 306	1 298	3.3
France	1 521	1 800	1 958	1 942	1 893	6.1
Germany	1 770	1 846	2 158	2 295	2 389	6.9
Japan	2 155	2 309	2 533	2 602	2 767	8.2
Other	18 016	20 403	24 599	24 224	25 312	74.8
Total	24 399	27 219	32 391	32 587	33 911	100.0
Cereal products						
Australia	137	187	235	269	316	1.0
France	1 432	1 725	1 986	2 038	2 125	7.9
Germany	1 530	1 693	1 874	2 121	2 067	7.9
United Kingdom	1 229	1 515	1 878	1 873	1 995	7.2
United States	2 286	2 634	2 883	3 181	3 541	12.3
Other	11 388	13 749	15 974	16 397	17 724	63.8
Total	18 003	21 503	24 829	25 879	27 769	100.0
Other processed food						
Australia	713	895	1 027	1 166	1 237	2.1
France	1 784	2 260	2 428	2 666	2 988	5.1
Germany	2 909	3 419	4 071	4 934	5 447	8.7
Japan	2 234	2 391	2 771	3 210	3 142	5.8
United States	4 401	4 980	5 686	6 567	7 283	12.1
Other	23 684	28 147	32 400	35 404	38 661	66.3
Total	35 725	42 092	48 383	53 947	58 758	100.0
All processed food						
Australia	2 426	3 092	3 684	4 172	4 671	1.0
Germany	21 981	25 340	28 787	31 920	33 585	7.8
Japan	21 567	23 217	25 840	27 239	26 553	6.9
United Kingdom	20 037	24 919	29 621	30 821	32 849	7.6
United States	32 784	36 781	41 696	45 295	50 153	11.4
Other	178 958	212 946	245 197	261 846	282 330	65.3
Total	277 754	326 296	374 825	401 294	430 141	100.0

a Based on over 100 reporting countries representing more than 90 per cent of world trade. **b** Average, 2002–2006. **c** Alcoholic and nonalcoholic.
d Excludes unmilled cereal.
Sources: International Trade Centre, UNCTAD/WTO.

130 Summary of Australian statistics for roundwood a

	Removals of roundwood a						Consumption
	Broadleaved	Coniferous	Total	Imports b	Exports b	Consumption	per person
	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	m^3
1961-62	8 376	1 678	10 054	2 969	348	12 675	1.18
1962-63	8 784	1 869	10 653	3 423	276	13 800	1.26
1963-64	9 341	1 934	11 275	3 774	315	14 734	1.32
1964-65	9 555	2 054	11 609	4 138	308	15 439	1.36
1965-66	9 583	2 169	11 752	4 002	243	15 511	1.34
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	11 910	13 911	25 821	9 246	14 911	20 155	1.01
2003-04	11 911	14 589	26 499	10 126	14 953	21 673	1.08
2004-05	12 804	14 196	27 000	10 563	15 271	22 292	1.09
2005-06	12 356	14 379	26 736	10 050	15 109	21 676	1.05
2006-07	12 541	14 542	27 083	10 368	16 635	20 816	0.99
2007-08 s	na	na	na	11 139	16 622	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. **s** ABARE estimate. **na** Not available.

Sources: ABARE; 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.

131 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	359	412	240	404	178	274	26	10	1 903
(% of land area)	0.45	1.81	0.14	0.16	0.18	4.01	0.02	3.91	0.25
Unknown	3 632		6 275						9 907
(% of land area)	4.53		3.63						1.29
Total forest vegetation cover c	26 567	8 250	52 822	18 068	9 033	3 389	31 036	133	149 300
(% of land area)	33.18	36.28	30.52	7.14	9.19	49.55	23.00	54.50	19.41
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

132 Australian prices of selected forest products

	Timber, panels and joinery a	Log sawmilling b used in	Log sawmilling b produced by	Plywood and board c	Hardwood chips d	Softwood chips d	Newsprint d
	index	index	index	index	$/bdt	$/bdt	$/t
1980-81	50.3	0.00	na	49.1	na	na	na
1981-82	54.1	0.00	54.7	53.9	na	na	na
1982-83	57.7	0.00	58.8	60.6	na	na	na
1983-84	63.0	0.00	62.9	64.4	na	na	na
1984-85	70.1	0.00	68.5	67.3	na	na	na
1985-86	75.7	0.00	74.1	72.6	na	na	na
1986-87	79.2	0.00	78.9	75.3	na	na	na
1987-88	84.0	0.00	84.0	83.6	na	na	na
1988-89	93.4	0.00	92.8	92.9	144.00	101.83	672.23
1989-90	100.0	100.0	100.0	100.0	147.03	115.34	708.97
1990-91	101.9	104.7	103.6	104.0	147.89	126.74	708.76
1991-92	100.1	104.5	103.2	107.1	150.90	149.32	716.31
1992-93	103.8	109.2	106.1	106.9	148.34	149.22	687.75
1993-94	115.6	115.3	113.3	113.9	149.90	137.75	703.22
1994-95	118.8	111.3	116.6	117.5	152.76	140.65	715.79
1995-96	116.4	114.0	116.2	111.0	160.46	167.50	1 007.91
1996-97	116.2	113.7	116.8	108.2	161.98	138.58	888.20
1997-98	118.8	119.8	118.9	109.0	151.58	144.16	900.13
1998-99	120.6	119.8	121.0	108.7	152.02	147.52	930.02
1999-00	127.1	123.0	126.0	110.9	140.36 s	137.00 s	942.99
2000-01	133.3	132.8	130.7	114.2	146.27	158.39	961.77
2001-02	134.6	136.1	132.4	117.2	149.34	157.57	993.54
2002-03	138.1	130.0	135.1	121.7	150.81	138.71	922.91
2003-04	141.7	125.2	139.1	125.5	156.93	128.15	912.47
2004-05	144.1	126.6	140.5	na	158.40	132.56	868.61
2005-06	144.5	133.5	143.8	na	160.53	138.35	838.59
2006-07	146.5	135.3	148.2	na	162.87	144.97	896.32
2007-08	153.5	146.1	157.4	na	175.80	165.40	850.70

a Price index of materials used in house building; base 1989-90 = 100. **b** Price indexes of materials used in or articles produced by log sawmilling and other wood products manufacturing industry; base 1989-90 = 100. **c** Price indexes of materials used in building other than house building; base 1989-90 = 100. Discontinued from September quarter 2004. **d** Average unit fob value of Australian exports in bone dry tonnes. **e** Average unit value of Australian imports, fob New Zealand. **s** ABARE estimate. **na** Not available.

133 Sales and service income of turnover in forest product industries a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
	$m	$m	$m	$m	$m	$m	$m
ANZSIC group and class b							
Wood and wood products							
Log sawmilling	694	1 376	1 395	1 575	1 304	1 290	na
Resawn and dressed timber	1 633	1 625	2 010	2 004	1 914	1 912	na
Veneers, plywood and fabricated wood manufacturing	1 316	1 523	1 680	1 820	1 831	1 818	na
Wooden structural fittings and joinery nec	2 624	2 671	3 057	3 448	3 655	3 681	na
Wood chipping	243	536	649	656	676	654	na
Wood products nec	617	1 023	1 076	1 086	1 034	1 030	na
Total	7 126	8 754	9 867	10 589	10 414	10 385	na
Paper and paper products							
Pulp, paper and paperboard	2 663	2 629	1 933	2 421	2 475	2 436	na
Paper bags including sack manufacturing	261	346	353	na	na	402	na
Solid fibreboard containers	714	659	649	518	343	272	na
Corrugated fibreboard containers	2 629	2 420	3 203	na	na	2 870	na
Paper products nec	1 686	1 754	1 922	2 118	2 235	2 595	na
Total	7 951	7 808	8 059	8 123	8 085	8 575	na
Total value	15 077	16 563	17 926	18 712	18 499	18 960	na
ANZSIC06 group and class b							
Log sawmilling and timber dressing							
Log sawmilling							1 342
Wood chipping							865
Timber resawing and dressing							2 323
Total							4 530
Other wood product manufacturing							
Prefabricated wooden building							84 c

134 Employment in forest product industries

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'000	'000	'000	'000	'000	'000	'000
Labour Force Statistics a							
Forestry and logging b	13.2	9.7	12.1	12.2	11.3	11.3	13.2
Total Agriculture, Forestry and Fishing	442.9	374.9	373.2	363.9	352.6	355.1	359.8
% forestry and logging	3.0%	2.6%	3.2%	3.4%	3.2%	3.2%	3.7%
Total wood manufacturing industry							
Log sawmilling and timber dressing	17.2	18.8	20.3	19.8	17.8	16.0 c	na
Other wood product manufacturing	30.8	36.0	40.1	33.8	34.8	35.9 c	na
Paper and paper products	21.7	18.9	18.0	17.7	19.0	23.8 c	na
Total	69.6	73.6	78.4	71.3	71.7	72.0	63.6
Total manufacturing industries	1 077.2	1 090.6	1 032.7	990.9	1 002.4	1 003.4	1 019.2
% wood manufacturing industry	6.5%	6.8%	7.6%	7.2%	7.2%	7.2%	6.2%
Total forestry, logging and wood manufacturing	82.8	83.3	90.6	83.5	83.0	83.4	76.8
Total employment	9 132.6	9 320.8	9 430.7	9 536.1	9 856.8	10 122.6	10 367.1
% total forestry, logging and wood manufacturing	0.9%	0.9%	1.0%	0.9%	0.8%	0.8%	0.7%

a Labour force annual employment data is the average of the quarterly survey data. **b** Includes forestry support services. **c** Data based on ANZSIC 2006, previous years based on ANZSIC 1993. **na** Not available.

Source: ABS, *Australian Labour Market Statistics*, cat. no. 6105.0, Canberra; ABS, *The Labour Force*, cat. no. 6203.0, Canberra; ABS, *Manufacturing Industry*, cat. no. 8221.0, Canberra.

135 Value of Australian forest products trade a

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m
Imports							
Roundwood	0.7	1.8	1.1	1.0	0.4	0.6	0.8
Sawnwood							
Coniferous roughsawn	190.6	223.8	211.6	182.3	150.3	148.1	186.0
Coniferous dressed	149.7	175.9	181.7	188.7	150.5	143.3	191.4
Broadleaved roughsawn	58.0	64.7	58.3	63.1	65.2	66.9	58.7
Broadleaved dressed	44.2	40.3	50.3	57.9	53.5	59.9	56.2
Total	442.5	504.7	501.9	492.0	419.4	418.2	492.3
Railway sleepers	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Miscellaneous forest products **b**	528.1	589.3	583.5	586.1	527.6	567.1	583.2
Veneer	22.3	26.0	23.1	24.3	24.9	31.5	33.4
Plywood	81.9	114.3	113.0	128.6	133.6	167.7	152.7
Particleboard	18.7	21.5	17.2	24.4	13.7	26.2	34.4
Hardboard	7.1	6.0	10.7	18.8	27.3	29.9	28.1
Medium density fibreboard	31.7	29.4	22.9	15.0	21.6	12.1	23.0
Softboard and other fibreboard	8.1	8.9	3.4	4.9	7.1	7.2	2.9
Paper and paperboard							
Newsprint	219.8	243.9	261.0	260.7	266.9	224.1	184.6
Printing and writing	1 297.2	1 452.8	1 431.0	1 451.1	1 438.2	1 453.2	1 456.1
Household and sanitary	102.5	117.9	137.9	127.9	151.6	177.1	137.3
Packaging and industrial	410.3	343.7	306.8	344.4	330.3	416.1	470.6
Total	2 029.8	2 158.3	2 136.7	2 184.1	2 187.0	2 270.5	2 248.6
Paper manufactures **c**	354.3	362.7	340.7	395.8	425.8	469.5	513.4
Wastepaper	4.6	8.0	4.7	2.3	1.5	2.3	2.4
Pulp	221.3	253.7	235.1	225.1	225.0	265.2	285.2
Pulpwood	1.2	1.5	1.4	2.0	2.1	1.5	1.8
Total	3 752.2	4 086.2	3 995.4	4 104.5	4 017.0	4 269.4	4 402.0

Continued

135 Value of Australian forest products trade a continued

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m
Exports							
Roundwood	89.14	106.86	113.66	72.56	82.36	117.38	105.44
Sawnwood							
Coniferous roughsawn	16.40	13.22	18.20	40.81	63.28	80.68	63.12
Coniferous dressed	17.88	15.22	17.20	21.26	15.08	18.07	11.47
Broadleaved roughsawn	29.05	33.92	29.01	27.57	30.64	35.49	37.90
Broadleaved dressed	7.14	8.06	9.69	11.95	11.97	11.05	7.95
Total	70.48	70.42	74.10	101.59	120.96	145.30	120.45
Railway sleepers	6.57	4.40	4.21	3.99	3.70	4.63	3.29
Miscellaneous forest products **b**	61.82	58.01	64.38	74.43	68.74	62.50	55.97
Veneer	8.87	7.53	8.30	6.02	6.53	5.80	18.77
Plywood	5.89	3.07	3.69	5.88	4.71	7.85	8.85
Particleboard	26.66	17.41	11.26	6.35	6.23	6.45	3.82
Hardboard **d**	5.99	4.08	5.99	4.71	4.97	2.95	0.08
Medium density fibreboard	162.43	145.57	112.45	118.89	120.95	96.87	75.67
Softboard and other fibreboard	6.60	10.15	9.48	11.55	9.65	5.65	1.50
Paper and paperboard							
Newsprint	1.61	1.52	0.45	0.72	0.17	0.16	2.72
Printing and writing	271.32	214.75	172.40	183.02	147.13	148.94	132.53
Household and sanitary	96.06	98.28	117.92	104.76	98.08	101.74	105.67
Packaging and industrial	243.92	315.61	344.12	338.35	355.70	399.66	394.56
Total	612.92	630.16	634.89	626.86	601.08	650.50	635.49
Paper manufactures **c**	189.81	173.13	148.88	126.43	125.10	111.61	103.48
Wastepaper	55.62	49.87	52.66	96.74	140.13	175.05	251.68
Pulp	2.84	2.12	1.37	4.40	5.48	12.04	14.72
Woodchips	711.99	807.95	794.44	858.24	839.04	950.30	1 072.22
Total	2 017.63	2 090.74	2 039.75	2 118.66	2 139.61	2 354.88	2 471.41

a Values are duty or customs values for imports and fob from Australian ports for exports. **b** Includes such items as wooden doors, mouldings, packing cases, parquetry 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.

136 Australian production, trade and consumption of sawnwood

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3
Broadleaved (hardwood)							
Production	1 339	1 312	1 277	1 261	1 211	1 135	na
Imports	104	115	142	147	131	128	122
Exports	39	41	37	83	43	49	56
Consumption	1 391	1 369	1 373	1 314	1 290	1 203	na
Coniferous (softwood)							
Production	3 163	3 355	3 712	3 679	3 821	3 929	na
Imports	632	695	729	700	541	483	661
Exports	46	41	72	165	250	367	282
Consumption	3 749	4 008	4 369	4 214	4 112	4 045	na
Total broadleaved and coniferous							
Production	4 502	4 668	4 989	4 940	5 032	5 064	na
Imports	735	810	871	847	671	611	784
Exports	84	82	109	249	293	416	338
Consumption	5 140	5 378	5 742	5 528	5 402	5 248	na

na Not available.

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'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	31	49	69	60	52	60	77
Canada							
Douglas fir	65	73	50	48	36	33	28
Western red cedar	52	67	54	54	42	42	44
Other	14	15	22	19	7	7	11
Total	131	155	126	121	86	83	84
Malaysia							
Meranti **a**	28	30	30	27	27	21	20
Other	20	20	25	29	28	24	30
Total	48	49	55	56	56	45	49
New Zealand							
Radiata pine	321	331	332	303	222	198	219
Douglas fir	59	60	57	47	37	33	34
Other	39	47	47	48	38	44	44
Total	420	438	436	398	298	276	297
United States							
Douglas fir	12	6	3	1	0	0	1
Western red cedar	1	1	0	0	0	0	2
Other	10	11	9	6	6	5	7
Total	23	17	13	7	7	6	10
Region							
Asia	77	86	104	114	105	105	103
Europe	30	31	65	98	80	38	153
North America	154	172	139	127	93	89	94
Pacific	438	460	469	423	319	293	316
South America	2	6	17	22	23	25	41
Other	36	56	77	63	53	61	78
Total	735	810	871	847	671	611	784
(value $m)	442.5	504.7	501.9	492.0	419.4	418.2	492.3

a Includes lauan and seraya.

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

138 Australian production, trade and consumption of panel products

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3
Production							
Plywood **a**	192	219	146	156	145	130	134
Particleboard	965	1 025	1 048	944	1 002	933	957
Medium density fibreboard	732	786	795	794	798	680	710
Total	1 890	2 030	1 989	1 894	1 944	1 743	1 800
Imports							
Plywood	117	162	178	200	205	244	237
Particleboard	70	93	60	65	37	77	100
Hardboard	7	8	13	22	30	38	33
Medium density fibreboard	81	77	47	28	52	21	33
Softboard and other fibreboards	15	16	8	12	14	14	14
Total	291	356	306	327	338	395	416
Exports							
Plywood	13	2	3	5	4	13	15
Particleboard	100	54	32	14	14	18	6
Hardboard	10	8	12	8	7	4	0
Medium density fibreboard	403	405	357	365	352	260	204
Softboard and other fibreboards	11	27	18	15	11	10	14
Total	536	497	421	406	389	306	239
Consumption							
Plywood	297	379	321	351	346	361	355
Particleboard	935	1 063	1 077	995	1 025	992	1 050
Medium density fibreboard	411	458	485	457	497	441	539
Total	1 643	1 900	1 882	1 804	1 868	1 794	1 945

a Excludes laminated veneer lumber production from July 2003.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Australian medium density fibreboard manufacturers; Australian particleboard manufacturers; B.L. Steenson, Chartered Accountant; Plywood Association of Australia; ABARE.

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3	'000 m^3
Plywood							
Chile	3.10	5.73	9.77	7.65	10.80	11.43	19.11
China	1.17	5.44	10.38	21.47	35.43	50.56	51.72
Indonesia	29.73	35.05	37.01	49.79	42.17	42.84	37.78
Malaysia	15.78	20.80	20.06	19.41	22.43	25.39	34.13
New Zealand	47.25	70.26	80.76	82.56	74.52	86.16	60.99
Papua New Guinea	1.79	2.49	3.95	4.04	4.25	3.73	3.68
Singapore	2.29	2.26	1.60	1.24	1.56	1.28	0.26
Other	16.31	19.83	14.55	14.16	13.68	22.58	28.97
Total	117.43	161.85	178.07	200.32	204.84	243.97	236.64
(value, $m)	81.9	114.3	113.0	128.6	133.6	167.7	152.7
Veneer							
Malaysia	1.48	2.83	3.18	3.19	3.56	1.99	3.14
New Zealand	34.56	0.56	3.07	8.51	12.28	16.46	15.98
Philippines	2.72	3.10	3.20	2.50	2.60	3.63	3.68
Singapore	0.46	0.22	0.14	0.28	0.10	0.28	0.77
South Africa	0.77	0.69	0.49	0.19	0.08	0.11	0.08
Thailand	0.14	0.08	0.02	0.03	0.04	0.03	0.08
United States	1.19	1.16	0.95	0.75	1.27	1.06	1.34
Other	4.48	4.60	4.30	5.48	3.75	5.47	6.41
Total	45.80	13.22	15.34	20.94	23.68	29.03	31.48
(value, $m)	22.3	26.0	23.1	24.3	24.9	31.5	33.4
Particleboard							
Germany	24.63	43.17	17.90	7.09	5.80	16.00	13.28
New Zealand	35.01	27.52	24.12	42.27	10.70	43.35	69.68
Other	10.35	22.30	18.48	15.87	20.27	18.11	16.59
Total	70.00	92.99	60.50	65.23	36.77	77.45	99.56
(value, $m)	18.7	21.5	17.2	24.4	13.7	26.2	34.4
Hardboard							
Germany	0.39	0.57	1.34	6.82	16.76	19.54	8.18
New Zealand	3.94	3.42	4.50	7.06	3.98	1.88	0.18
Other	2.96	3.99	6.93	7.79	9.51	17.01	24.50
Total	7.30	7.98	12.77	21.68	30.25	38.43	32.87
(value, $m)	7.1	6.0	10.7	18.8	27.3	29.9	28.1
Medium density fibreboard							
Malaysia	10.65	14.86	18.82	15.87	16.91	12.75	10.91
New Zealand	65.37	53.09	23.57	7.74	31.95	1.60	0.00
Other	5.41	9.39	4.78	4.12	3.06	6.26	21.60
Total	81.42	77.34	47.18	27.74	51.91	20.60	32.51
(value, $m)	31.7	29.4	22.9	15.0	21.6	12.1	23.0
Softboard and other fibreboards							
New Zealand	7.81	7.29	3.21	6.95	4.69	3.46	1.58
Other	6.57	8.29	4.41	5.21	9.27	10.19	12.49
Total	14.58	15.75	7.67	12.24	14.27	14.15	14.32
(value, $m)	8.1	8.9	3.4	4.9	7.1	7.2	2.9

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

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt
Production							
Newsprint	395.0	412.0	422.0	443.0	415.0	411.0	na
Printing and writing paper	624.0	564.0	585.0	659.0	663.0	676.0	na
Household and sanitary	198.0	194.0	200.0	197.0	217.0	204.0	na
Packaging and industrial paper	1 679.0	1 892.0	1 956.0	1 945.0	1 926.0	1 901.0	na
Total	2 897.0	3 061.0	3 164.0	3 244.0	3 221.0	3 192.0	na
Imports							
Newsprint	224.2	273.3	303.5	314.0	324.5	262.5	227.6
Printing and writing paper	842.3	973.1	1 101.9	1 189.7	1 140.1	1 173.5	1 235.3
Household and sanitary	55.9	66.7	84.6	77.9	87.9	101.8	81.1
Packaging and industrial paper	212.9	152.7	159.5	184.1	190.8	258.4	303.1
Total	1 335.4	1 465.8	1 649.5	1 765.7	1 743.4	1 796.3	1 847.1
Exports							
Newsprint	12.2	3.5	0.7	1.7	0.2	0.2	4.7
Printing and writing paper	297.1	200.2	160.3	174.9	147.0	131.7	119.0
Household and sanitary	43.4	55.1	36.2	37.1	31.6	32.5	36.7
Packaging and industrial paper	384.7	483.5	596.8	568.7	632.2	640.5	629.6
Total	737.4	742.3	794.0	782.4	811.0	804.8	790.0
Total consumption							
Newsprint	607.0	681.8	724.8	755.4	739.3	673.3	na
Printing and writing paper	1 169.3	1 336.9	1 526.5	1 673.8	1 656.1	1 717.8	na
Household and sanitary	210.5	205.6	248.4	237.8	273.4	273.3	na
Packaging and industrial paper	1 507.2	1 561.2	1 518.7	1 560.5	1 484.6	1 518.9	na
Total	3 495.0	3 784.5	4 019.5	4 227.3	4 153.4	4 183.4	na
Consumption per person							
Newsprint	30.9	34.3	36.0	37.0	35.7	32.0	na
Printing and writing paper	59.5	67.2	75.8	82.1	80.0	81.7	na
Household and sanitary	10.7	10.3	12.3	11.7	13.2	13.0	na
Packaging and industrial paper	76.7	78.5	75.5	76.5	71.7	72.3	na
Total	177.8	190.2	199.7	207.3	200.7	199.1	na

na not available.

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt
Newsprint a							
Canada	0.7	0.1	0.9	1.3	0.3	10.0	6.7
Finland	9.3	7.3	4.3	1.7	1.8	2.5	1.7
Indonesia	19.3	27.9	30.7	24.8	21.6	19.2	20.1
Korea, Rep. of	14.8	34.9	60.0	63.8	74.3	78.5	38.0
New Zealand	173.5	187.4	191.3	201.9	214.3	139.1	137.9
Other	4.7	15.0	16.0	11.0	8.2	23.2	29.8
Total	224.2	273.3	303.5	314.0	324.5	262.5	227.6
(value, $m)	219.8	243.9	261.0	260.7	266.9	224.1	184.6
Printing and writing paper							
Austria	19.8	22.0	19.9	14.1	18.8	20.3	23.7
Brazil	2.5	4.8	4.0	5.5	6.2	9.7	1.6
Canada	17.7	41.5	39.8	31.7	13.3	0.8	0.6
China	15.9	28.7	25.7	29.0	58.8	98.5	108.8
Finland	158.9	156.9	180.5	226.4	181.0	181.6	208.3
Germany	31.9	49.6	74.4	63.8	63.7	56.9	44.0
Indonesia	61.5	90.1	113.5	70.3	65.4	52.8	44.6
Italy	27.9	35.5	63.9	50.7	44.7	58.0	55.8
Japan	34.4	43.2	36.4	41.3	31.0	33.0	53.4
Korea, Rep. of	28.6	32.6	42.4	103.3	106.9	117.6	51.8
New Zealand	17.4	35.6	29.2	31.9	41.8	43.5	44.3
Norway	15.3	18.5	19.6	16.6	15.4	9.2	2.8
South Africa	13.2	14.7	18.4	15.5	6.2	7.5	9.3
Sweden	54.7	58.4	70.3	83.9	75.1	83.1	80.6
United States	96.4	131.6	126.8	135.7	129.7	118.2	113.3
Other b	246.1	209.4	237.1	269.7	281.8	282.6	392.3
Total	842.3	973.1	1 101.9	1 189.7	1 140.1	1 173.5	1 235.3
(value, $m)	1 297.2	1 452.8	1 431.0	1 451.1	1 438.2	1 453.2	1 456.1
Household and sanitary products							
Chinese Taipei	1.9	2.8	0.9	0.4	1.0	0.6	0.5
Indonesia	10.2	16.2	23.0	16.5	15.8	32.5	23.1
New Zealand	16.1	10.6	16.0	14.5	20.3	22.0	24.4
Other	11.6	12.8	13.1	11.4	10.2	10.9	10.3
Total	55.9	66.7	84.6	77.9	87.9	101.8	81.1
(value, $m)	102.5	117.9	137.9	127.9	151.6	177.1	137.3

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt
Packaging and industrial							
Belgium-Luxembourg	1.4	1.4	1.3	1.9	2.3	2.4	1.3
Brazil	0.6	0.7	0.7	0.8	0.3	0.3	1.3
China	6.8	8.6	10.5	15.6	20.9	26.9	29.3
Finland	19.6	16.4	15.7	17.0	15.3	24.4	27.5
France	2.8	3.6	4.8	5.4	4.8	5.6	8.2
Germany	16.2	8.9	7.1	7.0	8.4	7.8	8.8
Indonesia	3.6	3.9	5.1	7.0	7.7	11.2	16.8
Italy	6.7	11.6	8.3	6.8	6.2	5.8	5.6
Japan	1.8	7.3	5.6	8.0	5.6	6.2	6.4
Netherlands	2.6	3.4	3.3	2.6	2.1	2.1	2.6
New Zealand	44.7	18.9	18.0	30.7	35.6	76.0	92.5
Singapore	6.4	11.0	9.8	9.3	2.3	2.5	3.4
South Africa	12.0	5.6	6.3	7.3	9.3	5.8	4.3
Sweden	8.4	6.0	8.7	7.4	9.5	7.1	7.4
Thailand	4.1	3.1	5.9	8.5	12.6	17.3	12.1
United Kingdom	9.0	7.0	6.1	4.9	4.8	3.7	2.9
United States	56.3	19.8	14.1	14.6	12.9	18.0	28.4
Other	10.5	13.8	21.1	16.6	17.2	22.5	28.8
Total	212.9	152.7	159.5	184.1	190.8	258.4	303.1
(value, $m)	410.3	343.7	306.8	344.4	330.3	416.1	470.6

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; ABS.

142 Australian production of wood pulp and use of wastepaper

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt
Mechanical	395	449	381	387	371	372	na
Chemical **a**	698	721	726	772	782	810	na
Total pulp	1 093	1 170	1 107	1 160	1 153	1 182	na
Recovered paper used	1 554	1 630	1 546	1 994	2 056	2 030	na

a Includes semichemical pulp. **na** Not available.

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

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

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt
Mechanical							
Canada	0.4	0.4	0.5	0.4	0.8	0.4	0.9
New Zealand	3.9	5.8	3.1	6.2	6.5	5.9	0.6
United States	0.2	0.1	0.0	0.0	0.0	0.0	0.2
Total	4.5	6.5	3.9	7.5	7.6	6.8	2.2
(value, $m)	3.9	4.7	2.5	5.2	5.1	5.1	1.8
Chemical							
Brazil	24.4	33.9	55.4	59.0	78.1	113.4	82.5
Canada	23.4	45.1	55.4	58.5	65.1	64.0	72.4
Chile	29.0	40.1	53.4	45.3	36.5	45.5	85.5
Finland	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia	44.7	43.8	30.7	9.8	0.0	0.1	0.5
New Zealand	120.2	122.7	106.4	108.7	105.6	104.0	115.1
United States	7.2	9.0	5.4	10.5	6.4	4.2	7.8
Other	27.5	34.0	36.3	25.1	29.0	10.8	5.3
Total	276.4	328.5	343.1	316.9	320.7	341.9	369.1
(value, $m)	192.6	232.0	212.7	204.0	207.1	252.3	269.9
Semichemical							
Canada	20.6	6.3	8.4	4.2	8.8	4.0	3.8
New Zealand	5.5	5.1	7.1	10.1	4.6	6.3	13.6
Other	7.4	12.5	14.1	11.6	6.4	0.0	0.0
Total	33.6	24.0	29.7	25.9	19.7	10.3	17.4
(value, $m)	24.7	17.1	19.9	15.8	12.8	7.7	13.5

144 Volume of Australian roundwood and woodchip trade

	Imports	Exports			
			Woodchips b		
	Roundwood a	Roundwood a	Coniferous	Broadleaved	Total
	'000m^3	'000m^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	8.4	110	2 787	2 897
1989-90	6.3	16.3	122	2 475	2 597
1990-91	0.5	79.6	118	2 687	2 804
1991-92	0.3	86.3	317	2 454	2 770
1992-93	1.6	242.0	384	2 458	2 843
1993-94	6.1	420.7	503	2 530	3 033
1994-95	2.1	286.7	857	2 870	3 728
1995-96	1.6	351.1	820	2 531	3 351
1996-97	1.1	615.5	852	2 471	3 323
1997-98	6.1	391.0	1 045	3 270	4 315
1998-99	5.7	778.4	1 033	2 852	3 885
1999-00	2.3	1 149.8	1 046	3 582	4 628
2000-01	1.3	1 097.6	1 100	3 894	4 994
2001-02	0.9	1 192.4	849	3 872	4 721
2002-03	2.3	1 198.9	995	4 442	5 437
2003-04	1.7	1 335.1	1 099	4 165	5 264
2004-05	1.4	806.5	1 104	4 494	5 598
2005-06	0.6	863.6	989	4 374	5 363
2006-07	5.0	1 171.4	1 072	4 880	5 952
2007-08	0.7	1 055.1	1 133	5 033	6 166

a Includes saw logs and pulp logs. **b** Bone dry tonnes. **na** Not available.
Source: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra.

145 Summary of Australian statistics for grapes and grape products

	Grape production	Grape use: Wine making	Grape use: Drying and table	Australian wine: Domestic sales	Australian wine: Sales per person	Production of dried vine fruit	Exports of dried vine fruit
	kt	kt	kt	ML	L	kt	kt
1962-63	479.0	169.3	309.7	57.1	5.2	71.6	61.9
1963-64	665.3	214.3	451.0	60.9	5.5	106.0	64.0
1964-65	690.5	225.4	465.1	63.0	5.5	109.6	70.9
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	2 115.4	1 917.0	198.4	417.4	20.7	27.0	6.8
2004-05	2 133.1	1 925.0	208.1	430.1	21.1	28.5	6.6
2005-06	2 101.5	1 902.0	199.5	432.4	20.9	28.3	7.3
2006-07	1 574.8	1 397.4	177.4	446.9	21.3	17.4	6.8
2007-08	1 956.8	1 837.0	119.8	426.3	20.0	11.0	4.9

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; ABARE.

146 Australian wine exports, by type and major destination

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Type								
Table wine	ML	406.31	498.16	568.74	646.73	719.92	779.87	682.99
Red	ML	233.23	307.09	364.09	417.97	454.82	497.33	443.06
White	ML	173.08	191.07	204.65	228.76	265.11	282.54	239.93
Sparkling wine	ML	6.93	7.24	9.23	11.26	13.39	15.45	16.54
Fortified wine	ML	1.86	1.79	2.11	1.89	1.85	1.78	1.66
Other wine	ML	0.90	0.77	0.66	0.96	0.56	0.94	0.91
Total	ML	416.01	507.96	580.74	660.83	735.72	798.04	702.10
Major destination								
Canada	$m	123.9	174.0	205.1	247.4	249.2	266.8	258.9
China	$m	2.4	3.4	5.9	9.9	20.8	49.0	60.5
Germany	$m	47.9	58.0	70.9	71.7	75.6	65.6	49.2
Hong Kong, China	$m	16.9	15.0	17.9	20.0	25.1	26.4	33.5
Ireland	$m	42.5	39.7	49.4	54.0	54.0	68.7	69.2
Japan	$m	30.1	31.7	35.7	48.7	44.1	48.9	48.0
Netherlands	$m	33.6	38.6	39.3	45.9	45.3	65.3	70.6
New Zealand	$m	84.7	99.0	98.0	94.0	92.0	101.5	83.9
Singapore	$m	20.0	23.2	30.7	33.1	37.6	42.8	45.3
Sweden	$m	24.7	33.6	39.2	36.2	49.6	51.1	40.8
Switzerland	$m	30.0	36.0	23.9	19.6	19.1	18.1	15.4
Thailand	$m	3.4	4.4	5.2	7.7	7.8	10.4	13.2
United Kingdom	$m	840.4	859.4	860.3	966.8	960.3	975.3	876.5
United States	$m	558.2	827.9	905.4	896.7	901.1	956.0	741.0
Other	$m	111.3	142.1	158.2	196.6	217.3	242.4	250.6
Value	$m	1 970.0	2 385.9	2 545.0	2 748.2	2 799.0	2 988.2	2 656.8
Unit value	$/L	4.74	4.70	4.38	4.16	3.80	3.74	3.78

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

147 Australian domestic wine sales and imports, by type a

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	ML	ML	ML	ML	ML	ML	ML
Table wine	329.60	344.47	355.04	364.84	366.80	381.15	360.91
Red	130.08	142.84	147.07	155.49	154.24	162.52	154.51
White	199.52	201.63	207.96	209.35	212.56	218.62	206.40
Sparkling wine	29.42	31.62	34.68	38.40	39.79	39.88	36.59
Bottle fermented	17.42	22.99	21.56	22.99	23.13	23.27	21.66
Bulk fermented	12.00	8.63	13.12	15.41	16.66	16.62	14.94
Carbonated wine	3.12	2.80	3.47	4.21	4.25	5.43	8.48
Total unfortified wine	362.14	378.89	393.19	407.44	410.83	426.45	405.98
Total fortified wine	20.36	20.84	21.20	19.93	18.51	17.39	17.18
Vermouth and other wine	2.79	2.75	2.99	2.76	3.03	3.08	3.11
Total domestic sales	385.29	402.48	417.38	430.13	432.37	446.92	426.28
Total wine	399.77	419.60	436.16	452.27	459.54	481.19	479.61
Wine imports							
Table wine	9.20	11.58	11.87	14.78	19.60	25.48	42.59
Sparkling wine	3.28	3.85	4.78	5.19	5.92	7.00	8.27
Fortified wine	0.20	0.19	0.73	0.25	0.13	0.12	0.16
Other	1.80	1.50	1.40	1.92	1.51	1.66	2.31
Total	14.48	17.11	18.74	22.14	27.17	34.26	53.33

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.

148 Australian wine grape production and prices

	Unit	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Bearing area	'000 ha	140	146	153	158	163	166
Wine grape production							
Red wine	kt	804.5	1 106.1	1 064.5	1 047.0	674.2	984.1
White wine	kt	518.6	690.1	768.1	786.0	658.0	796.3
Multipurpose	kt	88.2	120.8	92.4	69.0	65.2	56.6
Total	kt	1 411.4	1 917.0	1 925.0	1 902.0	1 397.4	1 837.0
Exports							
Wine	ML	508.0	580.7	660.8	735.7	798.0	702.1
– value	A$m	2 385.9	2 545.0	2 748.2	2 799.0	2 988.2	2 656.8
Australian weighted average wine grape price							
Cool climate	A$/t	560	536	474	379	389	na
Warm climate	A$/t	1 429	1 246	1 132	1 011	1 156	na

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; Phylloxera and Grape Industry Board of South Australia, Adelaide; ABS, *Vineyards Survey;* Australian Wine Export Council, *Wine Export Annual Report;* Australian Regional Winegrape Crush Survey; ABARE.

149 Retail price indexes for alcoholic beverages a

	Beer	Wine	Spirits	Consumer price index b
1981-82	51.1	60.5	51.2	54.6
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	197.9	148.8	179.0	156.1
2007-08	207.8	153.3	195.5	161.4

a Weighted average for eight capital cities. **b** Base: 1989-90 = 100.
Source: ABS, *Consumer Price Index,* cat. no. 6401.0, Canberra.

150 Production and trade of Australian dried vine fruit

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production									
Dried weight	kt	17	34	17	27	29	28	17	11
Gross value	$m	na	na	na	na	na	35	22	19
Gross unit value **a**	$/t	na	na	na	na	na	1 232.0	1 286.0	1 752.0
Exports									
Volume	kt	6	6	10	7	7	7	7	5
Value	$m	17	14	20	15	15	18	16	13

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.

151 Production and export of Australian citrus, by variety

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Navel oranges									
Production	kt	252	178	296	208	225	274	241	236
Exports **a**	kt	99.09	86.83	101.12	67.09	80.87	102.88	98.19	99.40
– value	$'000	111 775	110 405	119 165	84 646	94 458	111 674	112 990	118 027
Valencia oranges									
Production	kt	399	236	337	199	228	297	270	200
Exports **a**	kt	51.43	47.77	32.14	25.94	29.18	35.68	28.61	13.97
– value	$'000	35 327	40 820	25 761	21 670	23 591	24 370	25 086	12 710
Mandarins									
Production	kt	79	78	98	97	121	92	108	103
Exports **a**	kt	27.13	23.56	29.63	28.58	27.37	22.76	18.22	20.51
– value	$'000	37 137	40 023	49 206	43 284	40 594	34 837	28 782	33 619
Lemons and limes									
Production	kt	33	31	38	31	36	33	31	28
Exports **a**	kt	3.22	3.58	4.05	1.83	0.91	0.63	0.16	1.19
– value	$'000	4 249	5 696	6 081	2 340	1 109	602	373	1 605
Grapefruit									
Production	kt	14	14	12	10	11	13	13	10
Exports **a**	kt	0.22	0.31	0.34	0.54	0.29	0.37	0.57	0.41
– value	$'000	256	462	559	649	325	377	627	407

a Fresh and dried.

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

152 Summary of Australian statistics for fruit and vegetables

	Fruit			Vegetables		
	Production	Exports	Imports	Production	Exports	Imports
	$m a	$m	$m	$m a	$m	$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	1 109	na	na	885	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	3 103	410	621
2007-08	3 418 s	760	928	3 221 s	384	732

a Gross value of production. **s** ABARE 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.

153 Summary of Australian statistics for meat a

	Cattle numbers b	Sheep numbers b	Total red meat production c	Total red meat exports d	Total domestic consumption	Apparent consumption per person: Beef and veal e	Lamb and mutton	Pig meat	Poultry meat
	million	million	kt	kt	kt	kg	kg	kg	kg
1967	17.71	164.2	1 645	608	1 059	40.7	38.5	10.1	8.4
1968	18.65	166.9	1 720	598	1 088	41.3	40.7	10.8	9.0
1969	20.02	168.9	1 850	785	1 136	38.6	37.5	11.3	10.5
1970	21.55	174.3	1 955	775	1 120	39.6	36.4	13.6	10.4
1971	23.73	171.7	2 148	924	1 263	40.3	43.6	13.8	11.1
1972	26.70	155.4	2 283	1 168	1 240	40.4	39.2	14.6	12.3
1973	28.44	134.1	2 269	1 154	1 163	43.6	27.5	16.0	13.0
1974	30.16	139.5	1 945	665	1 278	55.0	25.6	13.1	13.4
1975	32.04	145.8	2 364	1 001	1 415	62.0	23.7	11.7	13.4
1976	32.67	144.1	2 670	1 204	1 421	66.4	21.1	12.1	14.4
1977	30.95	131.3	2 889	1 420	1 440	70.3	19.4	13.0	15.6
1978	28.63	127.5	2 824	1 449	1 370	65.9	17.0	13.3	16.6
1979	26.41	130.5	2 513	1 334	1 229	50.4	21.0	13.5	18.7
1980	25.52	132.7	2 311	1 159	1 180	45.3	19.8	15.5	20.1
1981	25.17	131.4	2 172	939	1 232	47.6	19.0	15.3	20.2
1982	24.55	135.0	2 473	1 184	1 294	49.3	20.4	14.8	19.4
1983	22.48	130.5	2 131	948	1 218	42.3	20.5	15.9	20.2
1984	22.16	135.1	2 003	709	1 301	44.3	22.1	16.4	19.8
1985	22.78	145.7	2 162	859	1 288	40.1	24.4	16.7	21.6
1986	23.44	150.4	2 341	1 032	1 306	41.4	22.5	17.2	22.8
1987	23.67	153.2	2 452	1 131	1 314	39.9	23.0	17.3	23.2
1988	23.52	156.5	2 404	1 079	1 335	41.2	21.3	17.5	23.6
1989	24.03	164.9	2 465	1 054	1 420	43.2	23.0	17.7	23.8
1990	24.86	173.8	2 705	1 318	1 368	40.1	21.3	18.3	24.6
1991	25.37	166.6	2 739	1 380	1 386	39.5	21.8	18.4	25.0
1992	25.33	151.0	2 827	1 490	1 349	37.2	20.2	19.3	25.0
1993	25.18	140.5	2 805	1 460	1 345	37.0	19.7	19.0	26.4
1994	25.76	132.6	2 863	1 475	1 429	38.8	20.8	20.0	27.3
1995	25.74	120.9	2 656	1 365	1 306	35.0	17.0	19.8	26.7
1996	26.38	121.1	2 634	1 289	1 369	39.3	16.6	18.4	27.5
1997	26.69	120.2	2 883	1 479	1 432	41.3	16.9	18.8	29.0
1998	26.85	117.5	2 973	1 590	1 406	38.3	17.0	19.3	30.8
1999	26.58	115.5	2 982	1 628	1 397	37.9	16.3	19.2	31.0
2000	27.59	118.6	3 132	1 745	1 461	37.7	18.3	19.8	32.9
2001	27.72	110.9	3 136	1 835	1 367	34.5	16.7	18.8	32.3
2002	27.87	106.2	3 131	1 787	1 441	36.9	15.4	20.7	35.8
2003	26.66	99.3	2 960	1 608	1 468	37.7	13.5	22.1	34.6
2004	27.47	101.3	3 081	1 728	1 476	37.6	13.0	22.3	36.2
2005	28.18	100.6	3 097	1 758	1 509	36.7	13.0	23.8	37.7
2006	28.39	91.0	3 240	1 855	1 559	37.7	13.8	23.2	39.0
2007	28.04	85.7	3 258	1 829	1 651	37.6	14.6	25.7	38.7

a Data up to 1970 are on a financial year (July–June) basis (1970 = 1970-71). **b** Before 1987, includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of $2 500 or more. From 1987, the EVAO was raised to $5 000. **c** Beef and veal, mutton and lamb and pig meat production, expressed in carcass weight. **d** Before 1970, the exportable surplus of meat was derived by subtracting consumption from production, expressed in carcass weight. **e** Includes canned beef and veal before 1976. **na** Not available.

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; ABARE.

154 Australian saleyard prices of livestock [a]

	Yearling	Ox	Cow	Weighted average	Lamb	Mutton	Pig
	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg
1982	126.9	119.3	101.2	113.2	106.3	45.8	193.7
1983	166.8	157.5	136.9	150.5	108.6	45.3	162.4
1984	194.5	164.1	149.4	166.8	113.1	48.5	171.1
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	226.7	225.4	174.2	200.3	131.4	28.9	196.1
1993	244.9	250.1	184.8	218.6	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	218.1
1996	185.4	163.2	129.9	155.3	237.4	67.7	247.4
1997	190.0	184.7	135.3	162.6	205.6	75.2	218.6
1998	208.2	203.3	158.3	181.0	179.4	79.3	179.9
1999	233.1	215.4	183.5	204.3	208.5	62.9	216.0
2000	261.8	246.1	219.7	237.1	170.1	71.8	249.1
2001	331.0	315.5	289.4	307.2	262.1	145.8	276.2
2002	289.3	275.4	235.3	259.1	339.4	169.7	260.3
2003	318.7	309.3	249.9	281.3	388.0	204.3	232.7
2004	343.7	324.0	281.1	309.1	375.8	177.7	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	245.9
2007	324.1	311.8	253.8	287.3	322.1	153.3	243.4
2007							
January	313.4	306.1	245.1	279.1	312.8	123.8	279.7
February	320.0	317.5	255.6	288.2	333.1	144.8	270.3
March	337.4	323.2	266.7	301.0	330.7	169.5	258.2
April	329.3	307.5	237.7	278.4	326.7	154.2	247.8
May	330.4	308.8	255.9	286.4	369.8	184.4	236.9
June	335.6	314.0	261.8	293.6	372.6	196.5	229.2
July	342.3	326.8	270.5	304.0	369.6	209.9	221.3
August	346.6	333.3	269.1	306.0	317.6	172.1	223.1
September	321.1	318.9	254.5	288.9	291.2	107.8	227.8
October	302.5	296.7	237.8	269.8	257.0	100.4	234.1
November	302.9	294.4	243.4	275.4	288.8	135.8	241.7
December	307.4	294.3	247.9	276.4	295.4	141.1	250.2
2008							
January	320.8	303.8	249.1	281.2	350.9	157.0	252.6
February	334.6	304.0	257.7	288.9	365.2	166.5	248.0
March	327.5	295.7	247.2	281.3	346.1	167.5	244.9
April	324.3	304.5	252.2	284.6	339.6	173.5	243.3
May	321.5	304.1	250.3	281.0	362.1	182.9	242.2
June	333.2	315.8	261.0	292.2	432.4	197.0	246.8

a Prices are on an estimated dressed weight basis and, with the exception of 'yearling', are for export quality stock: ox, 320–400 kilograms; cow, 200–240 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.

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

155 Australian retail prices of meat

	Beef a	Lamb a	Pork a	Chicken b
	c/kg	c/kg	c/kg	c/kg
1985	682.6	396.1	537.9	417.6
1986	708.3	433.1	556.9	427.2
1987	747.0	481.6	586.6	449.2
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	732.2	453.5
1996	991.0	708.8	771.7	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
2004				
March	1 396.1	1 144.7	1 045.3	540.8
June	1 394.2	1 140.7	1 026.5	533.1
September	1 381.0	1 195.7	959.7	531.6
December	1 430.0	1 155.6	1 070.4	529.6
2005				
March	1 474.3	1 171.7	1 095.4	527.5
June	1 509.2	1 157.3	1 156.7	511.7
September	1 506.4	1 228.9	1 173.4	502.0
December	1 535.6	1 198.0	1 136.5	498.9
2006				
March	1 551.6	1 204.3	1 175.5	493.3
June	1 564.8	1 231.8	1 144.8	496.9
September	1 560.1	1 238.1	1 172.0	485.7
December	1 530.9	1 229.5	1 181.0	484.1
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

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.

156 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	Bone-in frozen
	USc/kg cif	Ac/kg fas	Ac/kg fob	Ac/kg fob	Ac/kg fob	Ac/kg fob	Ac/kg fob
1983	241.0	227.0	268.0	363.0	152.0	155.0	na
1984	226.0	222.0	273.0	352.0	170.0	167.0	na
1985	212.0	260.0	305.0	397.0	172.0	160.0	na
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	247.5	301.4	335.8	567.6	246.4	239.2	244.8
1993	265.2	354.9	318.7	585.2	283.8	213.3	299.8
1994	239.3	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	173.9	187.9	228.2	473.3	298.2	217.3	327.6
1997	188.2	218.4	236.7	486.8	263.4	234.4	351.4
1998	175.5	244.3	253.9	523.9	324.9	249.2	398.8
1999	186.0	259.7	270.9	540.7	344.5	222.8	374.2
2000	195.4	308.8	311.9	566.5	559.7	272.9	380.5
2001	214.4	384.0	374.6	650.3	717.8	290.6	472.9
2002	218.4	368.9	339.7	636.5	782.5	320.4	548.6
2003	211.9	291.0	315.1	645.2	728.6	322.2	505.0
2004	272.6	339.3	378.4	710.5	766.5	349.6	539.5
2005	281.9	336.4	367.0	708.5	519.0	362.1	547.5
2006	277.2	332.8	350.4	703.8	703.9	331.2	532.1
2007	281.1	302.5	319.9	668.9	925.9	315.7	512.8
2006							
March	272.6	335.2	356.8	704.9	908.4	359.8	514.8
June	268.8	324.3	356.1	706.9	465.9	332.5	526.9
September	282.1	336.1	340.6	701.9	592.0	321.4	585.7
December	285.5	336.1	348.0	701.3	849.2	310.9	501.2
2007							
March	281.5	321.0	340.1	695.3	981.3	309.2	435.7
June	279.0	300.2	330.3	653.3	995.1	330.8	522.4
September	283.6	303.9	308.4	657.9	975.6	333.5	549.9
December	280.3	284.8	300.9	669.2	751.5	289.4	543.1
2008							
March	301.5	303.3	309.9	739.4	785.1	292.7	667.1
June	346.6	338.8	333.2	744.1	826.2	325.7	576.1

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 and Livestock Australia, *Meat the Market,* Sydney.

157 Australian exports of meat, by product a

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity									
Beef and veal **b**	kt	959	902	902	860	948	892	974	930
Mutton **b**	kt	180	159	152	120	137	145	162	158
Lamb **b**	kt	115	109	98	112	123	143	150	163
Pig meat **b**	kt	44	59	63	51	43	44	41	39
Poultry meat **b**	kt	21	21	23	20	20	22	28	30
Live sheep **c**	'000	5 936	6 443	5 843	3 843	3 233	4 248	4 138	4 069
Live cattle **c**	'000	846	797	977	581	574	549	638	713
Value d									
Beef and veal **e**	$m	4 007	4 189	3 756	3 793	4 584	4 272	4 634	4 190
Mutton **e**	$m	416	492	442	380	398	432	458	443
Lamb **e**	$m	504	577	533	602	673	767	748	803
Pig meat	$m	186	265	256	181	150	143	142	128
Poultry meat	$m	26	26	22	20	20	21	26	32
Live sheep **c**	$m	258	392	408	266	207	291	289	286
Live cattle **c**	$m	482	526	569	318	374	358	437	451
Total	$m	5 878	6 467	5 987	5 560	6 405	6 284	6 734	6 333
Unit value d									
Beef and veal	$/kg	4.17	4.65	4.16	4.41	4.83	4.79	4.76	4.51
Mutton	$/kg	2.31	3.09	2.92	3.16	2.93	2.98	2.84	2.81
Lamb	$/kg	4.39	5.29	5.44	5.36	5.47	5.36	4.98	4.94
Pig meat	$/kg	4.22	4.50	4.07	3.58	3.44	3.24	3.45	3.27
Poultry meat	$/kg	1.23	1.23	0.95	0.98	1.01	0.97	0.93	1.06
Live sheep	$/head	43.41	60.79	69.87	69.34	63.92	68.61	69.77	70.40
Live cattle	$/head	575.88	664.48	582.90	549.85	652.47	659.60	694.67	635.27

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; ABARE.

158 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
1961	944	997	27.7	5.0	24.7	9.0
1962	959	999	29.2	5.1	26.1	9.2
1963	972	1 002	30.9	5.1	28.0	9.8
1964	989	1 015	31.3	5.0	28.7	10.1
1965	1 010	1 033	31.9	5.1	31.3	11.0
1966	1 029	1 042	33.6	5.1	32.4	11.7
1967	1 051	1 061	35.3	5.3	33.9	12.4
1968	1 066	1 075	37.0	5.5	34.4	12.8
1969	1 071	1 081	37.9	5.4	34.1	13.7
1970	1 083	1 064	38.4	5.6	35.8	15.1
1971	1 098	1 067	38.1	5.7	39.4	15.7
1972	1 120	1 038	38.6	5.7	40.6	16.8
1973	1 139	1 017	38.8	5.4	40.5	17.6
1974	1 167	1 030	41.9	5.2	42.4	18.3
1975	1 188	1 049	43.7	5.3	41.7	18.7
1976	1 200	1 049	46.1	5.3	40.8	20.0
1977	1 205	1 039	46.5	5.4	43.0	21.2
1978	1 206	1 051	47.0	5.4	45.6	22.7
1979	1 211	1 070	45.8	5.4	50.1	24.6
1980	1 217	1 099	45.6	5.6	52.7	26.0
1981	1 228	1 114	45.9	5.9	53.0	27.5
1982	1 242	1 133	45.9	5.9	53.2	28.5
1983	1 249	1 128	47.1	6.1	55.5	29.2
1984	1 255	1 121	48.5	6.1	57.5	29.8
1985	1 260	1 121	49.3	6.2	60.0	31.2
1986	1 267	1 128	51.0	6.2	61.5	33.3
1987	1 267	1 144	50.9	6.3	63.6	35.9
1988	1 273	1 165	51.4	6.6	67.1	37.7
1989	1 290	1 200	51.7	6.8	68.2	38.6
1990	1 298	1 207	53.4	7.0	69.9	41.0
1991	1 298	1 183	53.9	7.1	71.9	43.1
1992	1 304	1 160	53.1	7.0	74.1	45.5
1993	1 305	1 119	52.6	7.1	76.5	48.1
1994	1 316	1 108	53.4	7.2	79.2	50.8
1995	1 325	1 072	54.2	7.2	80.1	54.6
1996	1 319	1 058	54.7	7.0	79.4	56.3
1997	1 310	1 040	55.4	7.2	83.1	59.7
1998	1 309	1 043	55.3	7.3	88.4	62.3
1999	1 312	1 050	56.3	7.3	89.3	65.2
2000	1 313	1 052	56.9	7.6	90.1	69.1
2001	1 320	1 030	56.1	7.6	92.0	71.9
2002	1 334	1 023	57.7	7.7	95.0	74.9
2003	1 350	1 035	58.4	7.8	98.2	76.6
2004	1 362	1 067	59.6	8.2	100.1	80.2
2005	1 373	1 098	60.9	8.5	103.5	83.9
2006	1 382	1 105	61.0	8.7	106.4	85.3
2007	1 390	1 113	61.9	8.9	115.5	86.8

na Not available.

Sources: FAO, *FAOSTAT Agriculture Database*, Rome.

159 Summary of US meat statistics

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Cattle numbers a	million	98.2	97.3	96.7	96.1	94.9	95.4	96.7	97.0
Beef and veal b									
Production c	kt	12 298	11 983	12 427	12 039	11 261	11 318	11 980	12 096
Imports	kt	1 375	1 435	1 459	1 363	1 669	1 632	1 399	1 384
Exports and shipments	kt	1 120	1 029	1 110	1 142	209	316	519	650
Total consumption	kt	12 502	12 351	12 737	12 340	12 667	12 664	12 833	12 829
Consumption per person	kg	43.9	42.9	43.8	42.0	42.7	42.2	42.4	41.9
Pork b									
Production c	kt	8 596	8 691	8 929	9 056	9 312	9 392	9 559	9 962
Imports	kt	438	431	486	538	499	464	449	439
Exports and shipments	kt	584	707	731	779	989	1 209	1 359	1 425
Total consumption	kt	8 455	8 389	8 684	8 817	8 817	8 673	8 636	8 966
Consumption per person	kg	29.7	29.1	29.9	30.0	29.7	28.9	28.5	29.3
Poultry d									
Production c	kt	16 122	16 523	17 024	17 225	17 727	18 334	18 473	18 878
Exports and shipments	kt	2 433	2 741	2 380	2 451	2 371	2 618	2 609	2 926
Total consumption	kt	13 697	13 827	14 585	14 846	15 353	15 676	15 966	15 971
Consumption per person	kg	48.1	48.0	50.1	50.5	51.7	52.3	52.7	52.2

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.

160 Summary of New Zealand meat statistics a

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
Livestock numbers b									
Cattle	million	9.3	9.6	9.7	9.7	9.6	9.5	9.6	9.7
– dairy cattle	million	4.6	4.8	5.2	5.1	5.2	5.1	5.2	5.3
– beef cattle	million	4.7	4.8	4.5	4.6	4.4	4.4	4.4	4.4
Sheep	million	42.8	40.0	39.6	39.6	39.3	39.9	40.1	39.6
Production c									
Beef and veal	kt	567.6	591.5	576.2	660.2	709.6	651.8	642.9	623.3
Lamb	kt	427.8	433.5	413.9	433.5	411.3	437.6	438.5	452.7
Mutton	kt	105.0	128.7	107.2	112.9	107.0	105.2	103.7	120.5
Exports of meat d									
Beef and veal	kt	312.2	331.4	324.8	373.5	422.5	391.3	373.0	352.3
Lamb	kt	297.3	298.5	289.2	296.2	293.2	300.0	311.5	330.8
Mutton	kt	50.5	58.1	52.4	57.5	58.4	60.4	56.9	69.3
Consumption per person ce									
Beef and veal	kg	31.0	27.2	26.4	30.0	31.9	29.2	na	na
Lamb	kg	10.2	10.0	10.3	10.0	9.4	10.0	na	na
Mutton	kg	7.5	7.1	5.5	4.4	3.5	3.0	na	na

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. **na** Not available.
Sources: Meat and Wool New Zealand, *Annual Report,* Wellington; Meat and Wool Economic Service of New Zealand, *Annual Review of the New Zealand Sheep and Beef Industry,* Wellington.

161 Gross value of Australian livestock slaughterings

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08 s
	$m	$m	$m	$m	$m	$m
Livestock slaughterings						
Cattle and calves **a**	5 841.8	6 340.9	7 454.7	7 327.1	7 550.5	7 139.5
Cattle exported live **b**	569.3	317.9	374.1	357.8	437.4	450.5
Sheep **c**	467.7	454.2	417.8	443.6	380.3	418.7
Lambs **cd**	1 160.9	1 318.1	1 327.0	1 377.6	1 388.1	1 486.2
Sheep exported live **b**	408.2	266.5	206.7	291.5	288.7	286.4
Pigs	911.3	878.9	906.0	890.1	943.6	880.0
Poultry	1 280.5	1 280.8	1 303.7	1 222.7	1 294.1	1 400.0
Total	10 676.0	10 896.0	12 032.7	11 959.9	12 336.0	12 111.8

a Includes dairy cattle slaughtered. **b** Excludes animals for breeding. **c** Excludes skin values. **d** 18–20 kilograms dressed weight. **s** ABARE 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; ABARE.

162 Australian supply and use of beef and veal

	Slaughterings a	Average weight b	Production b	Exports bc	Apparent consumption b
	'000	kg	kt	kt	kt
1961	4 700	139	652	na	na
1962	5 672	145	820	na	na
1963	6 136	154	943	na	na
1964	6 554	153	1 005	na	na
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

a Includes calves. **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; ABARE.

163 Australian cattle numbers, by state and territory [a]

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
	'000	'000	'000	'000	'000	'000	'000	'000	'000
Adult female beef cattle									
1998	2 863	1 119	5 145	540	964	232	915	5	11 783
1999	2 859	1 054	5 071	514	948	224	946	5	11 621
2000	2 801	1 134	5 667	480	1 086	194	913	6	12 282
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	3 035	1 238	6 163	574	1 320	228	1 059	4	13 620
Total beef cattle and calves									
1998	5 922	2 306	10 562	1 051	1 848	510	1 566	10	23 776
1999	5 846	2 180	10 444	1 006	1 817	491	1 566	9	23 358
2000	5 531	2 371	11 503	995	2 059	411	1 570	10	24 448
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	5 507	2 319	12 005	1 041	2 138	443	1 824	6	25 284
Total dairy cattle and calves									
1998	429	1 836	305	162	124	218	1	0	3 076
1999	445	1 945	304	177	114	233	1	0	3 220
2000	440	1 893	305	189	106	206	1	0	3 140
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	2 664
2008	317	1 566	176	161	103	193	0	0	2 516
Total cattle and calves									
1998	6 351	4 142	10 867	1 214	1 973	728	1 567	10	26 851
1999	6 291	4 125	10 748	1 183	1 931	724	1 567	10	26 578
2000	5 970	4 264	11 808	1 184	2 165	617	1 571	10	27 588
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	5 824	3 885	12 181	1 202	2 241	636	1 824	6	27 800

a At 31 March, an establishment with an estimated value of agricultural operations (EVAO) of $5 000 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; ABARE.

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

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Beef and veal a									
Americas									
Canada	kt	41.5	50.9	82.9	29.0	7.5	7.6	9.6	12.3
United States	kt	352.3	397.7	385.9	367.9	347.2	317.5	295.2	296.1
Asia									
Chinese Taipei	kt	28.6	29.1	34.4	31.1	26.5	30.3	28.6	29.1
Hong Kong, China	kt	3.6	3.1	2.9	2.1	2.4	1.8	1.8	2.4
Indonesia	kt	13.1	9.6	14.6	13.0	7.1	8.8	12.2	26.8
Japan	kt	325.7	319.1	237.0	279.3	393.5	405.1	405.8	377.9
Korea, Rep. of	kt	73.3	56.8	80.2	62.3	93.3	106.4	149.6	148.9
Malaysia	kt	5.5	5.4	7.4	6.5	4.8	2.3	2.0	3.3
Philippines	kt	14.3	19.7	12.9	8.6	2.1	3.0	1.9	3.4
Singapore	kt	3.9	3.4	3.9	3.7	2.1	1.9	3.2	5.5
Europe									
European Union b	kt	5.6	6.5	6.5	5.5	6.7	6.5	8.5	6.0
CIS	kt	1.4	5.3	1.4	0.3	0.4	0.5	12.5	5.1
Eastern Europe	kt	2.1	0.4	3.0	1.4	0.4	0.1	0.0	0.0
Middle East									
Kuwait	kt	0.1	1.1	0.4	2.5	0.7	0.2	0.2	0.5
Saudi Arabia	kt	0.5	5.0	2.3	1.8	0.7	0.3	1.0	0.9
United Arab Emirates	kt	0.9	2.0	1.7	1.1	1.2	1.3	1.4	1.8
Oceania									
New Zealand	kt	3.1	1.4	6.8	3.5	2.3	2.0	1.7	1.6
Pacific Isles	kt	2.3	2.5	2.7	2.1	1.7	1.5	2.0	3.3
Papua New Guinea	kt	7.1	4.8	4.3	2.3	2.5	2.2	2.7	3.6
Total beef and veal	kt	901.6	946.6	920.4	840.9	913.8	909.4	953.9	941.4
Live cattle									
Slaughter cattle									
Asia									
Indonesia	'000	296.7	287.7	426.2	375.8	357.1	348.0	386.6	517.0
Japan	'000	14.4	17.4	14.0	21.9	17.1	24.5	20.2	21.1
Malaysia	'000	56.5	77.5	90.9	86.5	47.4	38.1	56.5	33.6
Philippines	'000	223.8	97.4	113.1	74.5	46.7	20.9	13.1	20.3
Middle East									
Egypt	'000	207.6	203.2	143.9	7.6	0.0	7.0	0.0	0.0
Israel	'000	15.8	32.6	47.8	43.2	20.9	32.0	79.4	36.9
Jordan	'000	40.7	13.2	4.4	23.1	34.2	17.0	5.9	4.0
Saudi Arabia	'000	0.0	20.8	54.3	15.7	0.0	17.5	27.6	13.5
Total	'000	887.0	797.9	955.0	689.4	570.9	531.1	609.2	668.8
Breeding cattle	'000	9.0	24.6	16.8	84.9	66.8	41.7	25.1	50.7
Total live cattle	'000	896.0	822.5	971.9	774.2	637.7	572.8	634.3	719.5

a Fresh, chilled or frozen, in shipped weight. **b** Regarded as fifteen countries to May 2004, twenty five countries from June 2004, then twenty seven countries from January 2007.

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

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

	2000	2001	2002	2003	2004	2005	2006	2007
	$m	$m	$m	$m	$m	$m	$m	$m
Beef and veal								
Americas								
Canada	148.1	204.4	320.2	110.9	38.1	32.6	43.8	51.2
United States	1 172.8	1 699.7	1 593.6	1 332.3	1 374.4	1 186.4	1 180.7	1 136.3
Asia								
Chinese Taipei	116.7	132.6	152.3	126.7	124.2	148.3	134.6	117.4
Hong Kong, China	18.2	17.8	17.1	15.0	27.3	18.7	13.5	21.5
Indonesia	40.8	37.2	46.1	38.4	26.7	33.5	39.0	83.3
Japan	1 537.3	1 728.2	1 237.7	1 384.4	2 189.9	2 244.7	2 172.1	1 844.0
Korea, Rep. of	221.8	228.9	320.4	250.7	434.4	494.8	734.7	725.6
Malaysia	15.0	16.0	20.2	15.9	12.1	7.8	10.0	17.1
Philippines	34.3	55.8	36.1	23.0	4.3	5.9	3.7	7.2
Singapore	18.5	20.4	20.8	22.5	17.3	15.5	19.2	29.7
Europe								
European Union **a**	37.3	48.4	53.5	49.2	62.8	56.8	77.2	61.6
CIS	3.8	14.4	2.9	0.7	2.0	4.6	61.0	32.2
Eastern Europe	6.3	1.2	9.1	4.5	1.3	0.4	0.4	0.1
Middle East								
Kuwait	0.3	4.6	1.8	9.8	3.4	1.0	0.9	2.3
Saudi Arabia	2.1	23.0	11.6	7.8	3.1	1.7	4.5	3.0
United Arab Emirates	4.4	11.6	10.9	7.8	12.0	13.7	15.6	20.4
Oceania								
New Zealand	11.1	6.3	25.6	15.9	9.8	8.8	8.0	7.8
Pacific Isles	5.2	7.2	7.4	5.4	4.5	4.0	6.3	10.0
Papua New Guinea	14.1	11.5	9.8	4.9	5.2	4.3	5.8	7.6
Total beef and veal	3 464.0	4 357.3	4 002.6	3 475.4	4 390.3	4 346.6	4 604.0	4 258.1
Live cattle b								
Asia								
Indonesia	143.1	171.8	254.4	203.4	207.5	209.1	246.9	341.4
Japan	9.8	12.7	11.2	18.1	14.6	20.5	17.3	18.4
Malaysia	25.7	38.5	45.1	38.9	25.2	20.1	31.3	19.6
Philippines	117.8	58.4	65.8	39.1	30.1	11.6	7.7	14.0
Middle East								
Egypt	129.7	153.8	94.9	5.0	0.0	3.8	0.0	0.0
Israel	9.0	15.4	23.9	22.8	11.9	20.6	58.2	23.2
Jordan	18.1	6.7	2.4	12.9	15.3	10.2	4.3	2.1
Libya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Saudi Arabia	0.0	14.9	32.5	9.4	0.0	11.0	19.3	7.8
Total live cattle	471.7	514.4	583.6	382.7	359.4	337.1	407.9	443.6

a Regarded as fifteen countries to May 2004, twenty five countries from June 2004, then twenty seven countries from January 2007. **b** Excludes animals for breeding.

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

166 World cattle numbers, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	million	million	million	million	million	million	million	million
Argentina	48.7	48.9	48.1	50.9	50.8	50.2	50.7	50.8
Australia b	27.6	27.7	27.9	26.7	27.5	28.2	28.4	28.0
Brazil	169.9	176.4	185.3	195.6	204.5	207.2	205.9	207.2
Canada	13.2	13.6	13.8	13.5	14.6	14.9	14.7	14.2
China c	104.6	106.1	105.7	108.3	112.5	115.6	119.2	116.9
European Union d	97.6	95.4	94.2	92.8	91.9	90.9	90.1	89.7
Japan	4.6	4.5	4.6	4.5	4.5	4.4	4.4	4.4
New Zealand	9.3	9.6	9.7	9.7	9.6	9.5	9.6	9.7
Russian Federation	28.0	27.3	27.1	26.5	24.9	23.0	21.5	21.5
South Africa	13.6	13.5	13.6	13.5	13.5	13.8	13.5	13.5
Ukraine	10.6	9.4	9.4	9.1	7.7	6.9	6.5	6.2
United States	98.2	97.3	96.7	96.1	94.9	95.4	96.7	97.0
Uruguay	10.4	10.6	11.3	11.7	12.0	12.0	11.7	12.0
World	1 313.4	1 320.3	1 334.5	1 350.0	1 361.8	1 372.5	1 381.7	1 389.6

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 $5 000 or more. **c** Excludes Hong Kong. **d** Regarded as twenty five countries.

Sources: ABS, *Agriculture, Australia,* cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia,* cat. no. 7121.0, Canberra; FAO, *FAOSTAT Agriculture Database,* Rome; 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.

167 World beef and veal production, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	2 880	2 640	2 700	2 800	3 130	3 200	3 100	3 300
Australia	2 053	2 079	2 090	1 998	2 113	2 090	2 188	2 180
Brazil	6 520	6 895	7 240	7 385	7 975	8 592	9 025	9 303
Canada	1 246	1 262	1 294	1 184	1 496	1 523	1 391	1 279
China b	5 131	5 086	5 219	5 425	5 604	5 681	5 767	6 134
European Union c	8 492	8 346	8 397	8 304	8 245	8 090	8 150	8 203
Japan	530	458	537	496	514	500	497	504
Mexico	1 900	1 925	1 930	1 950	2 099	2 125	2 175	2 202
New Zealand	568	591	576	660	710	652	643	623
Russian Federation	1 840	1 760	1 740	1 670	1 590	1 525	1 430	1 370
South Africa	630	665	645	613	655	679	725	680
United States	12 298	11 983	12 427	12 039	11 261	11 318	11 980	12 096
Uruguay	440	317	425	450	544	600	640	560
World	56 925	56 079	57 748	58 355	59 608	60 907	61 031	61 881

a Carcass weight equivalent. **b** Excludes Hong Kong. **c** Regarded as twenty five countries.

Sources: ABS, *Livestock Products, Australia,* cat. no. 7215.0, Canberra; FAO, *FAOSTAT Agriculture Database,* Rome; 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.

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

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports									
Argentina	355	354	168	345	382	616	754	552	534
Australia	1 272	1 329	1 407	1 362	1 246	1 357	1 343	1 408	1 387
Brazil	461	488	741	872	1 162	1 610	1 845	2 084	2 189
Canada	530	563	619	657	413	603	596	477	457
China **b**	50	47	53	37	36	52	76	99	81
European Union **c**	1 018	663	610	580	438	363	253	218	140
India	220	344	365	411	432	492	617	681	765
New Zealand	434	473	483	475	548	594	577	530	496
United States	1 094	1 120	1 029	1 110	1 142	209	316	519	650
Uruguay	189	236	145	225	282	354	417	460	385
Total	5 873	5 921	5 851	6 431	6 485	6 647	7 305	7 524	7 723
Imports									
Brazil	53	71	44	77	62	52	48	28	30
Canada	280	290	330	340	304	123	151	180	242
Chinese Taipei	96	85	80	91	101	82	95	104	102
Egypt	221	228	147	178	127	173	221	292	293
European Union **c**	449	429	417	532	549	641	711	717	641
Japan	986	1 045	982	697	833	634	686	678	686
Korea, Rep. of	249	333	253	442	457	224	250	298	308
Russian Federation	767	407	639	708	709	719	978	939	1 030
United States	1 303	1 375	1 435	1 459	1 363	1 669	1 632	1 399	1 384
Total	5 677	5 637	5 706	6 148	6 221	6 169	6 784	6 792	7 120

a Carcass weight. **b** Excludes Hong Kong. **c** Excludes intra-EU trade. Regarded as twenty seven countries. **na** Not available.

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.

169 Summary of Japanese beef and veal statistics

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Cattle numbers a									
Beef b	'000	2 823	2 806	2 838	2 805	2 788	2 747	2 755	2 806
Dairy c	'000	1 764	1 725	1 726	1 719	1 690	1 655	1 636	1 592
Total	'000	4 587	4 531	4 564	4 524	4 478	4 402	4 391	4 398
Cattle slaughterings									
Wagyu	'000	576.8	495.7	527.0	461.2	464.1	462.9	449.2	447.4
Dairy	'000	705.4	594.9	722.2	726.3	773.2	739.1	740.6	728.7
Calves	'000	6.4	5.4	4.8	7.8	10.1	9.3	7.1	8.2
Total	'000	1 297.2	1 103.5	1 262.8	1 201.7	1 255.7	1 220.9	1 209.1	1 198.3
Production d									
Wagyu beef	kt	236.2	205.5	217.1	188.4	190.9	192.5	190.9	194.5
Dairy beef	kt	288.0	247.9	313.6	300.5	313.7	297.8	296.8	298.6
Veal	kt	0.6	0.6	0.6	1.0	1.1	1.0	0.8	0.9
Total	kt	529.7	458.0	536.0	495.0	512.5	498.4	496.0	503.1
Imports									
Fresh or chilled beef and veal e									
Australia	kt	200.7	188.3	138.3	150.9	203.6	222.9	208.2	188.1
Canada	kt	5.4	5.9	3.9	2.3	0.0	0.0	1.7	2.2
New Zealand	kt	3.7	3.7	2.6	2.8	3.7	4.5	5.6	6.2
United States	kt	145.6	132.4	89.5	114.1	0.0	0.0	5.1	17.8
Other	kt	0.1	0.0	0.0	0.0	0.6	2.5	2.5	1.7
Total	kt	355.5	330.4	234.3	270.1	208.0	230.0	223.1	216.0
Frozen beef and veal e									
Australia	kt	129.3	135.2	92.1	132.7	190.5	188.5	197.4	205.7
Canada	kt	13.4	16.7	15.1	5.2	0.0	0.0	0.4	1.2
New Zealand	kt	10.0	12.7	7.7	14.2	29.8	33.4	32.3	27.5
United States	kt	202.7	178.6	137.0	153.2	1.3	0.0	2.2	16.3
Other	kt	7.9	0.6	0.3	0.6	2.3	8.0	5.2	6.9
Total	kt	363.3	343.7	252.4	305.9	223.8	229.9	237.5	257.6
Total beef and veal ef									
Australia	kt	330.0	323.5	230.4	283.7	394.1	411.3	405.6	394.0
Canada	kt	18.8	22.6	19.1	7.5	0.0	0.0	2.1	3.4
New Zealand	kt	13.8	16.4	10.3	17.0	33.5	37.9	37.9	33.7
United States	kt	348.2	311.0	226.5	267.3	1.3	0.0	7.3	34.1
Other	kt	8.0	0.6	0.4	0.6	2.9	10.6	7.7	8.7
Total	kt	718.9	674.1	486.7	576.0	431.7	459.9	460.6	474.0
Prices									
Wagyu steer g	¥/kg	1 720	1 677	1 561	1 462	1 848	2 002	2 074	2 079
Dairy steer h	¥/kg	686	836	698	482	689	857	898	915

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.

170 Summary of Korean beef and veal statistics

	Native cattle numbers a	Production b	Consumption: Imported beef and veal b	Consumption: Total beef and veal b	Average prices: Farm c	Average prices: Wholesale d	Average prices: Retail e
	'000	kt	'000	kt	won/kg	won/kg	won/kg
1970	1 284	na	na	37.3	na	na	658
1971	1 247	na	na	39.5	na	na	883
1972	1 333	na	0.3	40.2	na	na	1 013
1973	1 486	na	0.1	44.9	na	na	1 097
1974	1 778	na	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	166.3	384.1	6 490	8 284	19 234
2002	1 410	192.0	292.2	402.7	7 854	9 127	29 478
2003	1 480	182.0	293.6	390.2	7 814	9 446	31 300
2004	1 666	186.0	132.9	327.8	7 094	8 703	30 392
2005	1 819	195.0	142.6	316.9	7 752	10 898	37 304
2006	2 020	200.0	179.4	330.6	8 502	10 915	37 921
2007	na	219.0	na	na	na	na	na

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.

Source: Republic of Korea National Livestock Co-operatives Federation, *Materials on Price, Demand and Supply of Livestock Products,* Seoul; Korean Meat Trade Association; PS&D online.

171 Australian supply and use of pig and poultry meats

	Unit	1999	2000	2001	2002	2003	2004	2005	2006	2007
Pig meat										
Pig numbers **a**	'000	2 626	2 511	2 748	2 940	2 658	2 548	2 708	2 733	2 605
Breeding sows and gilts **a**	'000	309	293	332	356	352	318	348	352	340
Slaughterings	'000	5 037	5 014	5 172	5 603	5 723	5 440	5 372	5 320	5 350
Average slaughter weight **b**	kg	71.9	72.7	73.2	72.7	73.2	72.6	72.7	71.9	72.2
Production **b**	kt	362.2	364.4	378.5	407.3	418.9	394.8	390.3	382.7	386.1
Imports **bc**	kt	49.1	72.6	65.2	92.6	112.0	127.1	162.3	169.0	218.4
Exports **bc**	kt	45.4	55.9	77.3	91.5	88.3	70.4	64.7	67.2	60.8
Total consumption **bd**	kt	365.3	381.1	366.5	408.4	442.6	451.6	488.0	484.4	543.7
Consumption per person **bc**	kg	19.2	19.8	18.8	20.7	22.1	22.3	23.8	23.2	25.7
Poultry meat e										
Slaughterings	million	382.1	401.6	397.2	428.2	418.3	435.6	432.9	444.8	459.6
Average dressed weight **b**	kg	1.6	1.6	1.7	1.7	1.7	1.7	1.9	1.9	1.9
Production **b**	kt	613.8	657.5	662.0	736.6	719.3	758.5	802.7	840.1	857.6
Exports **b**	kt	24.0	23.7	30.7	28.1	27.1	24.6	29.0	26.8	37.3
Total consumption **d**	kt	589.8	633.9	631.3	708.5	692.2	733.9	773.7	813.3	820.2
Consumption per person	kg	31.0	32.9	32.3	35.8	34.6	36.2	37.7	39.0	38.7

a Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of $5 000. **b** Carcass weight. **c** Includes preserved pig meat. **d** Apparent consumption. **e** 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; ABARE.

172 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
1994	834	460	677	312	440	46	3	na	2 775
1995	791	439	644	316	423	38	3	na	2 653
1996	710	458	603	314	412	26	0	na	2 526
1997	729	485	600	297	417	24	2	na	2 555
1998	849	518	648	303	424	24	2	na	2 768
1999	778	521	621	277	406	22	2	na	2 626
2000	710	523	544	276	438	18	2	na	2 511
2001	845	557	597	286	438	22	2	na	2 748
2002	833	673	643	361	410	18	3	na	2 940
2003	729	555	663	381	309	19	3	na	2 658
2004	624	547	691	291	378	14	3	na	2 548
2005	781	559	711	284	358	13	2	na	2 708
2006	655	668	691	296	403	17	2	na	2 733
2007	741	463	695	326	360	19	na	na	2 605
2008	646	397	541	317	266	14	na	na	2 181

a At 31 March. From 2000, at 30 June. Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of $5 000 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.

173 World pig and poultry meat production in selected countries a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Pig meat								
Australia	364	379	407	419	395	390	383	386
Canada	1 640	1 731	1 858	1 882	1 936	1 920	1 898	1 894
China **b**	41 406	42 982	44 358	46 233	48 118	51 202	53 093	61 150
Denmark	1 625	1 716	1 759	1 762	1 810	1 793	1 749	1 750
France	2 312	2 315	2 346	2 339	2 293	2 018	2 011	1 982
Germany	3 982	4 074	4 110	4 239	4 323	4 500	4 662	4 670
Netherlands	1 623	1 432	1 377	1 253	1 289	1 297	1 270	1 296
Russian Federation	1 569	1 498	1 583	1 706	1 643	1 520	1 641	1 788
United States	8 596	8 691	8 929	9 056	9 312	9 392	9 559	9 962
Poultry meat								
Australia	658	662	737	719	758	803	840	858
Brazil	6 117	6 732	7 631	7 845	8 723	9 710	9 708	10 763
Canada	1 029	1 076	1 079	1 077	1 091	1 132	1 134	1 175
China **b**	9 274	9 283	9 562	9 902	10 002	10 204	10 354	11 359
France	2 220	2 214	2 104	2 014	1 975	1 696	1 557	1 473
Italy	1 092	1 139	1 173	952	1 001	1 013	919	947
Japan	1 091	1 074	1 107	1 127	1 124	1 166	1 227	1 250
Russian Federation	387	437	509	562	665	917	1 199	1 375
Thailand	1 070	1 230	1 275	1 340	900	950	1 100	1 050
United States	16 122	16 523	17 024	17 225	17 727	18 334	18 473	18 878

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

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.

174 Volume of world pig meat trade for selected countries a

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports b									
Australia	45	56	77	92	88	70	65	67	61
Canada	554	660	728	864	975	972	1 084	1 081	1 033
China **c**	143	144	223	307	397	537	502	544	350
European Union **d**	597	1 334	970	993	1 140	1 302	1 143	1 284	1 285
United States	582	584	707	731	779	989	1 209	1 359	1 425
Imports b									
Australia	49	73	65	93	112	127	162	169	218
Hong Kong, China	187	212	224	237	260	285	263	277	302
Japan	875	947	1 022	1 108	1 091	1 269	1 314	1 154	1 210
European Union **d**	31	19	32	31	44	53	99	125	34
United States	375	438	431	486	538	499	464	449	439

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

Source: 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.

175 Australian supply and use of mutton and lamb

	Slaughterings '000	Average weight a kg	Production a kt	Exports ab kt	Apparent Consumption a kt
Mutton					
1986	14 223	19.7	280.1	168.6	112.1
1987	15 314	19.7	302.4	164.6	131.7
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	12 041	21.0	252.7	189.0	63.7
Lamb					
1986	18 356	16.6	304.8	53.2	251.7
1987	17 516	17.0	296.8	53.3	244.6
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	21 154	20.7	439.0	192.6	246.5

a Carcass weight. **b** 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; ABARE.

176 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								
1988	56.430	28.254	14.807	17.718	34.219	5.006	0.100	156.536
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	40.583	20.994	10.556	13.065	26.378	3.801	0.080	115.456
2000	43.405	22.664	9.195	13.759	26.109	3.341	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	26.844	17.514	4.061	10.227	18.403	2.118	0.066	79.234

a At 31 March. From 2000, as at 30 June. Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of $5 000 or more. **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, Australia,* cat. no. 7121.0, Canberra; ABARE.

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

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Mutton ab									
Canada	kt	2.2	2.4	1.5	1.1	1.6	1.6	1.9	0.8
Chinese Taipei	kt	11.6	12.1	14.7	10.2	13.1	11.3	9.4	7.9
CIS	kt	1.6	1.6	2.3	0.5	1.9	5.4	11.5	8.1
European Union **c**	kt	8.5	7.6	8.6	5.5	8.4	9.0	8.3	8.1
Japan	kt	11.1	10.4	10.4	6.6	9.0	8.3	7.0	6.9
Korea, Rep. of	kt	1.0	1.0	1.2	0.8	1.0	1.1	0.9	0.8
Malaysia	kt	7.7	7.3	7.1	5.2	6.6	5.9	7.7	6.4
Papua New Guinea	kt	6.4	5.5	5.5	4.6	5.9	3.9	3.2	4.3
Saudi Arabia	kt	20.9	29.8	24.5	22.5	19.5	22.7	23.9	23.2
Singapore	kt	7.6	7.6	6.6	6.2	6.4	5.6	6.0	5.9
South Africa	kt	38.4	24.7	15.7	9.3	12.6	15.0	19.9	15.3
United States	kt	21.5	18.8	20.9	20.1	14.6	16.1	18.8	16.5
Other	kt	47.7	55.5	54.0	31.6	38.6	42.4	48.8	50.7
Total	kt	186.2	184.2	172.7	124.1	139.2	148.4	167.1	155.0
Lamb a									
European Union **c**	kt	14.5	14.4	14.1	16.4	14.9	12.3	13.3	14.2
Japan	kt	5.1	6.1	5.8	6.0	7.7	11.7	12.1	8.7
Papua New Guinea	kt	14.8	11.9	10.0	9.6	11.6	12.4	11.9	11.6
South Africa	kt	11.1	3.6	1.3	1.6	2.3	3.8	5.3	4.3
United Arab Emirates	kt	7.2	7.2	8.4	7.1	5.8	6.9	10.7	12.6
United States	kt	20.9	28.4	28.8	31.0	31.9	40.8	40.8	44.0
Other	kt	40.4	42.0	39.8	38.1	44.2	56.6	58.4	70.6
Total	kt	113.9	113.6	108.2	109.7	118.5	144.5	152.4	166.0
Live sheep									
Slaughter sheep	'000	5 321	6 699	6 024	4 738	3 394	4 184	4 163	3 772
Middle East	'000	5 282	6 596	5 931	4 634	3 356	4 144	4 137	3 744
Bahrain	'000	405	388	386	411	490	521	557	562
Egypt	'000	349	271	139	16	0	0	0	0
Jordan	'000	713	542	583	499	930	885	685	268
Kuwait	'000	1 473	1 540	1 570	1 499	1 260	891	962	930
Oman	'000	531	481	353	259	289	359	320	540
Qatar	'000	308	308	282	181	137	180	192	192
Saudi Arabia	'000	641	2 141	1 873	1 411	0	1 072	1 193	1 032
United Arab Emirates	'000	817	682	466	225	196	231	209	186
Other	'000	46	242	279	134	53	5	20	35
Singapore	'000	17	13	6	7	9	16	9	6
Other	'000	22	90	87	98	29	24	17	22
Breeding sheep	'000	100	112	39	4	3	1	4	1
Total	'000	5 421	6 812	6 063	4 742	3 397	4 185	4 167	3 773

a Shipped weight. **b** Includes young sheep and hoggets. **c** Regarded as twenty five countries.
Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra.

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

	2000	2001	2002	2003	2004	2005	2006	2007
	$m	$m	$m	$m	$m	$m	$m	$m
Mutton a								
Canada	4.6	6.8	5.2	3.6	5.8	5.4	7.1	2.9
Chinese Taipei	26.3	36.9	48.9	32.2	41.9	34.8	29.8	23.2
CIS	3.1	3.7	5.4	1.3	5.8	13.5	33.1	23.5
European Union **b**	34.1	42.0	41.4	28.1	43.2	48.3	46.7	40.3
Japan	34.0	42.7	51.1	29.9	47.1	38.1	31.5	29.9
Korea, Rep. of	1.7	2.3	3.3	2.2	3.1	3.1	2.9	2.6
Malaysia	16.5	21.7	22.9	15.9	22.6	18.5	25.1	21.8
Papua New Guinea	6.2	7.4	6.6	6.1	5.1	5.2	4.2	6.5
Saudi Arabia	43.9	90.1	77.5	65.0	53.0	63.9	67.3	58.9
Singapore	18.4	23.4	23.2	20.4	22.0	18.6	19.5	19.3
South Africa	46.3	30.9	17.6	11.1	14.1	18.7	29.2	21.8
United States	43.9	56.4	64.7	67.9	48.6	44.4	50.2	43.2
Other	97.1	146.3	152.0	91.7	113.6	119.7	141.3	135.2
Total	376.4	510.6	519.7	375.3	426.0	432.0	487.9	429.2
Lamb								
European Union **b**	74.3	105.7	89.3	96.9	93.4	83.9	85.6	82.2
Japan	30.7	37.0	40.8	42.3	53.5	79.1	83.0	56.0
Papua New Guinea	16.0	18.0	15.7	14.4	17.3	19.4	20.0	23.8
South Africa	15.3	5.5	1.2	2.1	3.5	5.3	9.0	7.5
United Arab Emirates	24.2	27.4	31.6	29.9	27.0	32.8	47.1	56.4
United States	150.2	219.9	218.2	257.5	259.9	324.2	319.0	328.4
Other	137.0	165.7	169.5	159.8	184.7	233.1	229.4	268.0
Total	447.7	579.1	566.2	602.9	639.3	777.8	793.2	822.3
Live sheep c								
Middle East	204	349	395	330	223	275	287	259
Bahrain	13	20	25	29	33	35	38	38
Egypt	12	14	9	1	0	0	0	0
Jordan	24	28	39	35	58	53	47	18
Kuwait	61	79	101	105	84	60	64	59
Oman	20	26	24	19	20	25	23	40
Qatar	15	16	21	13	10	12	13	13
Saudi Arabia	27	120	127	104	0	74	88	76
United Arab Emirates	29	34	30	16	13	15	14	12
Other	2	5	7	8	3	4	2	2
Total	206	355	402	338	225	279	289	261

a Includes young sheep and hoggets. **b** Regarded as twenty five countries. **c** Excludes animals for breeding.
Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra.

179 World sheep numbers, by country a

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	million	million	million	million	million	million	million	million	million
Argentina	13.7	13.6	13.5	12.4	12.5	12.5	12.5	12.4	12.5
Australia	115.5	118.6	110.9	106.2	99.3	101.3	100.6	91.0	85.7
China b	127.4	131.1	133.2	135.9	143.8	157.3	170.9	173.9	172.0
France	10.2	9.6	9.4	9.3	9.3	9.2	9.1	8.9	8.5
Greece	8.9	9.0	9.0	9.1	9.1	9.0	8.8	8.8	8.8
India	58.8	59.4	60.1	60.8	61.5	62.2	62.9	63.6	64.3
Iran	53.9	53.9	53.9	53.9	53.9	54.0	52.2	52.2	52.2
Iraq	6.8	6.8	6.1	6.2	6.2	6.2	6.2	6.2	6.2
Italy	10.9	11.0	6.8	8.3	8.1	8.0	8.1	8.0	8.2
Morocco	16.6	17.3	17.2	16.3	16.7	17.0	16.9	17.3	17.3
New Zealand	45.7	42.3	40.0	39.5	39.3	40.0	39.9	40.1	38.5
Romania	8.4	8.1	7.7	7.3	7.3	7.5	7.4	7.6	7.7
Russian Federation	13.4	12.6	12.6	13.0	13.7	14.7	15.5	16.1	17.5
South Africa	28.7	28.6	28.8	28.9	28.8	29.1	25.3	25.0	25.0
Spain	24.2	24.0	24.4	23.8	23.5	24.0	22.7	22.5	21.8
Turkey	29.4	30.3	28.5	27.0	25.2	25.0	25.2	25.3	25.4
United Kingdom	29.7	42.3	36.7	35.8	35.7	35.5	35.3	34.7	33.6
United States	7.2	7.0	7.0	6.6	6.3	6.1	6.1	6.2	6.2
Uruguay	14.4	13.2	12.1	10.8	10.0	9.8	10.8	11.1	11.0
Total	1 050.1	1 051.6	1 030.2	1 022.7	1 035.2	1 066.7	1 097.8	1 105.4	1 112.5

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; FAO, *FAOSTAT Agriculture Database*, Rome; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

180 World mutton and lamb production, by country a

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	45	50	50	50	52	52	52	52	52
Australia	629	714	678	634	543	573	616	669	692
China b	1 335	1 440	1 540	1 680	1 892	2 240	2 420	2 540	2 600
France	132	133	134	128	129	102	99	99	95
Italy	70	65	62	58	58	59	59	59	59
New Zealand	518	533	562	521	546	509	520	542	573
Romania	54	49	48	51	62	67	49	42	57
Russian Federation	124	119	114	115	114	125	134	135	140
Spain	221	232	236	237	236	231	235	230	225
Ukraine	15	9	0	8	8	8	8	8	8
United Kingdom	392	383	267	307	306	314	310	330	330
United States	113	106	101	101	92	90	85	84	83
Uruguay	51	51	51	31	27	27	34	31	32
Total	7 343	7 552	7 599	7 672	7 822	8 178	8 499	8 735	8 893

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

Sources: ABS, *Livestock Products, Australia*, cat. no. 7215.0, Canberra; FAO, *FAOSTAT Agriculture Database*, Rome; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC; Meat and Wool New Zealand, *Annual Report*, Wellington.

181 Volume of trade in sheep meat, by selected countries [a]

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Australia	300	298	281	234	258	293	320	321
New Zealand	357	346	341	378	367	381	390	420
Imports								
France	169	120	139	133	135	135	137	129
– from Australia	3	4	3	2	3	2	2	1
– from New Zealand	28	30	39	33	32	30	30	33
Germany	40	42	40	33	32	38	39	39
– from Australia	1	2	1	1	1	1	1	1
– from New Zealand	32	34	32	27	26	30	31	32
Saudi Arabia	55	45	45	54	52	60	52	61
– from Australia	23	23	26	24	20	26	26	25
– from New Zealand	19	13	11	15	13	14	13	21
United Kingdom	109	93	102	111	116	110	114	114
– from Australia	12	9	12	12	13	13	14	13
– from New Zealand	85	71	77	81	82	79	83	85
United States	55	61	74	78	83	85	90	94
– from Australia	39	44	46	51	56	63	70	73
– from New Zealand	15	17	21	26	27	21	20	21

a Shipped weight.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; United Nations Commodity Trade Statistics Database.

182 Volume of New Zealand sheep meat exports, by destination a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Mutton								
Canada	0.2	0.3	0.3	0.4	0.7	0.9	2.0	na
European Union **b**	31.4	28.2	31.7	26.0	28.8	26.8	26.6	na
Japan	2.5	1.6	1.8	1.7	1.3	1.5	0.6	na
Korea, Rep. of	0.0	0.0	5.0	0.1	0.1	0.0	0.1	na
Papua New Guinea	1.2	1.4	1.6	0.9	1.7	1.1	1.9	na
Russian Federation	0.1	0.1	6.1	0.2	0.5	0.8	1.2	na
United States	0.4	1.0	1.2	3.2	1.1	0.9	1.2	na
Other	22.3	19.8	9.9	23.1	24.3	24.9	35.7	na
Total	58.1	52.4	57.5	58.4	60.4	56.9	69.3	na
Lamb								
Canada	9.0	9.5	10.7	9.7	9.0	9.1	10.7	na
Germany	26.7	23.9	26.9	20.5	21.5	23.0	22.3	na
Japan	8.6	7.9	8.9	11.3	11.0	13.1	6.3	na
Korea, Rep. of	0.5	0.5	0.6	1.1	1.2	0.7	0.9	na
Jordan	6.3	5.1	5.7	3.2	1.5	1.3	2.5	na
Papua New Guinea	9.8	4.9	5.5	7.5	7.6	7.9	8.4	na
Saudi Arabia	15.7	11.4	12.8	13.0	13.6	12.4	20.6	na
United Kingdom	66.4	61.5	69.3	69.8	68.3	75.4	77.6	na
United States	16.5	20.5	23.0	25.0	19.4	19.7	20.9	na
Other	138.9	144.0	132.9	131.9	147.0	148.8	160.7	na
Total	298.5	289.2	296.2	293.2	300.0	311.5	330.8	na

a For October–September year. Shipped weight. **b** Regarded as twelve countries to 2002-03, then twenty five countries from 2003-04. **na** Not available.
Source: Meat and Wool New Zealand, *Annual Report,* Wellington.

183 Summary of Australian statistics for oilseeds a

	Area	Yield	Production	Exports b	Domestic use c
	'000 ha	t/ha	kt	kt	kt
1961-62	43	0.70	30	0	30
1962-63	56	0.79	44	1	43
1963-64	74	0.80	59	6	53
1964-65	92	0.77	71	7	64
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	1 475	1.68	2 480	1 107	1 373
2006-07	1 281	0.82	1 056	354	702
2007-08	1 253	1.13	1 420	548	872

a Oilseeds are comprised of 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; ABARE.

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Canola								
Area								
2001-02	'000 ha	533.7	238.5	1.3	393.9	163.7	0.5	1 331.5
2002-03	'000 ha	490.0	248.0	0.0	349.0	210.0	0.5	1 298.0
2003-04	'000 ha	366.0	239.0	0.0	358.0	247.0	0.0	1 211.0
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	240.0	270.0	0.0	390.0	160.0	1.0	1 061.0
Yield								
2001-02	t/ha	1.3	1.5	1.2	1.1	1.7	1.8	1.3
2002-03	t/ha	0.4	0.7	0.0	0.9	1.0	1.8	0.7
2003-04	t/ha	1.2	1.6	0.0	1.5	1.4	0.0	1.4
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	0.2	0.7	na	1.7	1.0	1.0	1.0
Production								
2001-02	kt	715.3	347.4	1.5	418.7	272.1	1.0	1 755.9
2002-03	kt	184.0	177.0	0.0	299.0	210.0	0.8	871.0
2003-04	kt	438.0	384.0	0.0	527.0	354.0	0.0	1 703.0
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	44.0	200.0	0.0	665.0	155.0	1.0	1 065.0
Cottonseed								
Area								
2001-02	'000 ha	289.7	0.0	119.3	0.0	0.0	0.0	409.0
2002-03	'000 ha	165.2	0.0	59.3	0.0	0.0	0.0	224.5
2003-04	'000 ha	97.2	0.0	100.8	0.0	0.0	0.0	198.1
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
Yield								
2001-02	t/ha	2.7	0.0	2.3	0.0	0.0	0.0	2.6
2002-03	t/ha	2.6	0.0	2.0	0.0	0.0	0.0	2.4
2003-04	t/ha	2.6	0.0	2.4	0.0	0.0	0.0	2.5
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	3.0	0.0	2.5	0.0	0.0	0.0	2.8
Production								
2001-02	kt	777.1	0.0	276.4	0.0	0.0	0.0	1 053.5
2002-03	kt	425.3	0.0	120.5	0.0	0.0	0.0	545.8
2003-04	kt	254.2	0.0	239.6	0.0	0.0	0.0	493.7
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	125.1	0.0	52.8	0.0	0.0	0.0	177.9

Continued

184 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								
2001-02	'000 ha	30.1	0.1	48.0	0.0	0.6	0.0	78.8
2002-03	'000 ha	14.0	0.0	25.5	0.0	0.0	0.0	39.5
2003-04	'000 ha	21.2	0.0	25.0	0.0	0.0	0.0	46.2
2004-05	'000 ha	29.0	0.0	17.0	0.0	0.0	0.0	46.0
2005-06	'000 ha	74.6	0.0	4.4	0.0	0.0	0.0	79.0
2006-07	'000 ha	12.9	0.0	4.1	0.0	0.0	0.0	17.0
2007-08	'000 ha	28.3	0.0	20.1	0.0	0.0	0.0	48.4
Yield								
2001-02	t/ha	1.2	1.1	0.7	0.0	0.3	0.0	0.9
2002-03	t/ha	0.8	0.0	0.5	0.0	0.0	0.0	0.6
2003-04	t/ha	1.5	0.0	1.1	0.0	0.0	0.0	1.3
2004-05	t/ha	1.6	0.0	0.9	0.0	0.0	0.0	1.3
2005-06	t/ha	1.2	0.0	1.0	0.0	0.0	0.0	1.2
2006-07	t/ha	1.2	0.0	0.7	0.0	0.0	0.0	1.1
2007-08	t/ha	1.5	0.0	1.5	0.0	0.0	0.0	1.5
Production								
2001-02	kt	36.0	0.1	33.2	0.0	0.2	0.0	69.6
2002-03	kt	11.5	0.0	13.0	0.0	0.0	0.0	24.5
2003-04	kt	31.7	0.0	26.3	0.0	0.0	0.0	58.0
2004-05	kt	47.0	0.0	15.0	0.0	0.0	0.0	62.0
2005-06	kt	93.2	0.0	4.5	0.0	0.0	0.0	97.6
2006-07	kt	15.0	0.0	3.0	0.0	0.0	0.0	18.0
2007-08	kt	43.5	0.0	30.6	0.0	0.0	0.0	74.0
Peanuts								
Area								
2001-02	'000 ha	0.5	0.0	14.0	0.0	0.0	0.0	14.7
2002-03	'000 ha	0.3	0.0	10.0	0.0	0.0	0.0	10.5
2003-04	'000 ha	0.8	0.0	13.0	0.0	0.0	0.0	14.0
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	19.1	0.0	0.0	0.0	12.0
2007-08	'000 ha	0.5	0.0	16.3	0.0	0.0	0.0	17.0
Yield								
2001-02	t/ha	4.3	0.0	1.9	0.0	0.0	0.0	2.0
2002-03	t/ha	2.7	0.0	2.7	0.0	0.0	0.0	2.7
2003-04	t/ha	1.3	0.0	3.2	0.0	0.0	0.0	3.1
2004-05	t/ha	4.6	0.0	2.2	0.0	0.0	0.0	2.3
2005-06	t/ha	1.9	0.0	1.8	0.0	0.0	0.0	2.1
2006-07	t/ha	2.5	0.0	2.4	0.0	0.0	0.0	1.5
2007-08	t/ha	2.7	0.0	2.4	0.0	0.0	0.0	2.4
Production								
2001-02	kt	2.3	0.0	26.5	0.0	0.0	0.0	29.3
2002-03	kt	0.7	0.0	27.0	0.0	0.0	0.0	28.0
2003-04	kt	1.0	0.0	42.0	0.0	0.0	0.0	44.0
2004-05	kt	0.8	0.0	30.7	0.0	0.0	0.0	32.0
2005-06	kt	1.5	0.0	42.4	0.0	0.0	0.0	25.0
2006-07	kt	1.6	0.0	45.4	0.0	0.0	0.0	18.0
2007-08	kt	1.4	0.0	38.9	0.0	0.0	0.0	41.0

Continued

184 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								
2001-02	'000 ha	16.3	13.6	2.1	0.0	5.0	0.0	37.0
2002-03	'000 ha	12.0	14.4	4.0	0.0	4.6	0.0	35.0
2003-04	'000 ha	15.0	17.0	2.7	1.5	5.3	0.0	41.5
2004-05	'000 ha	19.4	16.5	2.6	0.5	6.0	0.0	45.0
2005-06	'000 ha	19.0	16.2	2.5	0.5	5.9	0.0	44.1
2006-07	'000 ha	15.1	12.8	2.0	0.4	4.7	0.0	35.0
2007-08	'000 ha	15.9	14.7	2.7	0.4	5.2	0.0	39.0
Yield								
2001-02	t/ha	0.0	0.1	0.0	0.0	0.2	0.0	0.1
2002-03	t/ha	1.0	0.7	0.3	0.0	0.8	0.0	0.7
2003-04	t/ha	0.9	0.5	0.5	0.0	0.7	0.0	0.7
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	0.4	0.0	0.7	0.0	0.6
2006-07	t/ha	0.8	0.6	0.4	0.0	0.8	0.0	0.6
2007-08	t/ha	0.6	0.4	0.3	0.0	0.6	0.0	0.5
Production								
2001-02	kt	0.2	0.8	0.0	0.0	0.9	0.0	1.9
2002-03	kt	11.6	9.4	1.2	0.0	3.8	0.0	26.0
2003-04	kt	13.6	9.2	1.4	0.0	3.8	0.0	28.0
2004-05	kt	14.1	8.9	0.9	0.0	4.1	0.0	28.0
2005-06	kt	14.4	9.0	1.0	0.0	4.2	0.0	28.5
2006-07	kt	12.3	7.8	0.8	0.0	3.6	0.0	20.0
2007-08	kt	9.4	6.3	0.8	0.0	2.9	0.0	19.0
Soybeans								
Area								
2001-02	'000 ha	21.1	0.8	11.5	0.0	0.0	0.0	33.4
2002-03	'000 ha	7.3	0.1	3.0	0.0	0.0	0.0	10.3
2003-04	'000 ha	17.8	0.5	15.1	0.0	0.0	0.0	33.4
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
Yield								
2001-02	t/ha	2.1	0.9	1.5	0.0	0.0	0.0	1.9
2002-03	t/ha	1.8	2.5	1.7	0.0	0.0	0.0	1.8
2003-04	t/ha	2.3	1.5	2.2	0.0	0.0	0.0	2.2
2004-05	t/ha	2.2	0.9	2.0	0.0	0.0	0.0	2.1
2005-06	t/ha	2.4	2.8	2.1	0.0	0.0	0.0	2.3
2006-07	t/ha	2.4	0.0	2.2	0.0	0.0	0.0	2.4
2007-08	t/ha	2.0	0.0	2.6	0.0	0.0	0.0	2.4
Production								
2001-02	kt	44.6	0.7	17.8	0.0	0.0	0.0	63.1
2002-03	kt	13.2	0.1	4.9	0.0	0.0	0.0	18.3
2003-04	kt	40.1	0.8	32.7	0.0	0.0	0.0	73.7
2004-05	kt	37.6	1.1	15.6	0.0	0.0	0.0	54.4
2005-06	kt	39.9	0.9	14.7	0.0	0.0	0.0	55.5
2006-07	kt	20.8	0.0	11.1	0.0	0.0	0.0	31.9
2007-08	kt	13.8	0.0	20.9	0.0	0.0	0.0	35.0

Continued

184 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								
2001-02	'000 ha	891.4	253.5	196.1	394.0	169.3	0.5	1 914.6
2002-03	'000 ha	688.8	262.7	101.7	349.0	214.6	0.5	1 626.8
2003-04	'000 ha	517.9	257.3	156.6	359.5	252.3	0.0	1 553.1
2004-05	'000 ha	662.4	301.9	199.6	428.5	236.0	1.0	1 839.1
2005-06	'000 ha	519.3	208.3	159.5	437.5	152.9	1.0	1 475.5
2006-07	'000 ha	428.8	192.5	67.1	411.4	181.7	1.0	1 281.1
2007-08	'000 ha	332.8	285.3	68.6	390.4	165.2	1.0	1 252.9
Yield								
2001-02	t/ha	1.8	1.4	1.8	1.1	1.6	1.8	1.6
2002-03	t/ha	0.9	0.7	1.6	0.9	1.0	1.8	0.9
2003-04	t/ha	1.5	1.5	2.2	1.5	1.4	0.0	1.6
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	2.1	1.4	1.4	1.0	1.7
2006-07	t/ha	1.0	0.3	2.1	1.0	0.5	1.0	0.8
2007-08	t/ha	0.7	0.7	2.1	1.7	1.0	1.0	1.1
Production								
2001-02	kt	1 575.5	349.0	355.4	418.7	273.1	1.0	2 982.4
2002-03	kt	646.3	186.5	166.6	299.0	213.8	0.8	1 522.6
2003-04	kt	778.6	394.0	342.0	527.0	357.8	0.0	2 409.4
2004-05	kt	1 059.3	352.0	482.8	488.0	246.1	1.0	2 640.6
2005-06	kt	1 033.5	281.9	337.3	617.0	217.2	1.0	2 480.0
2006-07	kt	414.9	49.8	138.0	392.0	87.6	1.0	1 056.3
2007-08	kt	237.1	206.3	144.1	665.0	157.9	1.0	1 419.7

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.

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

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	1 479.14	1 303.09	612.30	1 048.82	1 018.56	884.27	237.60	519.14
Cottonseed	662.63	593.65	258.57	166.57	214.35	204.44	104.08	17.84
Linseed	0.01	0.03	0.03	0.02	0.21	0.16	0.02	0.00
Peanuts	2.90	5.16	3.61	10.25	12.42	2.55	3.80	5.83
Safflowerseed	13.62	10.36	2.77	3.62	5.63	7.76	3.05	0.17
Soybeans	11.26	5.42	7.22	4.54	6.88	4.08	3.36	1.92
Sunflowerseed	24.81	1.98	2.25	1.39	3.17	3.46	2.52	2.76
Total **a**	2 194.37	1 919.68	886.75	1 235.20	1 261.23	1 106.72	354.43	547.66
(value, $m)	710.27	740.81	391.66	541.23	484.44	404.46	161.42	337.89
Oils								
Canola	28.05	31.31	31.38	46.91	47.19	34.42	28.33	56.82
Cottonseed	0.65	2.59	2.08	1.99	2.19	2.77	4.66	5.62
Linseed	0.00	0.30	0.01	0.02	0.01	0.10	0.01	0.01
Palm	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Peanut	0.16	0.59	0.12	0.53	0.26	0.19	0.57	0.11
Safflowerseed	0.07	0.13	0.01	0.00	0.02	0.00	0.00	0.00
Soybeans	3.15	2.21	1.45	1.74	0.16	0.57	1.65	0.96
Sunflowerseed	6.34	4.73	4.26	1.06	3.52	7.76	5.58	1.76
Olive	0.35	0.38	0.21	0.39	0.68	2.52	2.75	3.03
Total	41.97	50.15	51.57	62.64	63.06	61.03	59.71	93.37
(value, $m)	40.61	55.38	63.22	67.08	73.05	81.11	90.35	163.42
Oilseed meals								
Canola	1.73	0.02	0.00	0.01	0.01	0.02	0.01	2.04
Cottonseed and sunflowerseed	59.71	31.92	9.15	10.15	6.79	11.99	9.04	9.15
Linseed	0.00	0.74	0.19	0.00	0.01	0.00	0.00	0.00
Soybeans	3.95	5.70	5.18	4.66	10.30	3.79	3.97	2.98
Other **b**	8.33	1.82	1.39	1.18	5.83	5.55	6.67	4.73
Total	73.71	40.20	15.91	15.99	22.94	21.36	19.70	18.90
(value, $m)	560.84	31.10	11.42	17.93	37.26	28.46	26.02	872.69

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; ABARE.

186 Volume of Australian exports of selected oilseeds products, by destination

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola								
Bangladesh	148.22	151.75	70.12	100.57	67.95	41.30	15.23	3.55
China	294.81	335.77	50.08	2.19	39.62	0.00	3.23	0.00
Japan	375.94	395.43	444.40	545.84	495.23	370.27	190.47	121.54
Pakistan	224.32	306.66	38.50	284.28	387.24	97.46	25.00	166.78
Other	435.84	113.48	9.20	115.94	28.53	375.24	3.67	227.27
Total **a**	1 479.14	1 303.09	612.30	1 048.82	1 018.56	884.27	237.60	519.14
Cottonseed								
Chinese Taipei	2.45	1.47	0.57	0.42	0.61	0.87	0.49	0.00
Japan	152.57	164.48	133.41	134.12	144.67	162.72	86.39	17.36
Korea, Rep. of	99.44	88.47	22.72	28.42	56.04	39.64	16.21	0.00
Saudi Arabia	17.00	8.50	0.00	0.00	10.58	0.00	0.00	0.00
United States	386.54	327.68	98.81	1.34	1.00	0.00	0.00	0.00
Other	4.64	3.05	3.05	2.26	1.47	1.20	1.00	0.49
Total **a**	662.63	593.65	258.57	166.57	214.35	204.44	104.08	17.84
Canola oil								
China	0.00	5.03	5.30	12.58	0.26	0.29	0.28	4.21
Japan	13.84	9.66	10.00	10.02	18.42	9.34	3.10	2.01
New Zealand	9.67	14.51	13.11	12.29	14.19	15.73	15.49	13.12
Other	4.54	2.11	2.96	12.02	14.33	9.07	9.47	37.49
Total	28.05	31.31	31.38	46.91	47.19	34.42	28.33	56.82
Cottonseed and sunflowerseed meal								
Korea, Rep. of	55.62	25.99	6.32	8.16	4.64	9.93	7.26	8.17
New Zealand	0.28	2.15	1.24	0.25	0.43	0.31	0.51	0.00
Other	3.81	3.77	1.59	1.74	1.72	1.75	1.28	0.97
Total	59.71	31.92	9.15	10.15	6.79	11.99	9.04	9.15

a Excludes sesame seed and other oleaginous fruit.

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

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

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	0.09	0.09	0.21	0.23	0.11	0.14	57.27	0.28
Copra	0.00	0.09	0.06	0.05	1.17	1.11	5.65	7.51
Linseed	1.23	1.04	0.56	1.45	1.22	0.00	2.77	3.48
Peanuts	7.41	5.77	28.38	16.42	7.43	4.95	17.20	19.36
Soybeans	0.09	0.31	43.82	39.60	0.62	0.72	10.39	1.30
Sunflowerseed	0.77	0.80	0.73	1.07	1.85	1.84	25.16	2.78
Other **a**	5.91	6.80	6.51	7.84	7.06	7.03	8.25	8.21
Total	15.50	14.89	80.27	66.66	19.46	15.78	126.69	42.92
(value, $m)	23.44	20.80	61.45	50.05	26.69	20.94	79.21	50.45
Oils								
Canola	3.52	3.62	4.31	8.45	9.99	13.10	13.29	10.92
Cottonseed	0.42	0.64	0.71	6.91	3.16	2.14	11.79	6.54
Linseed	2.67	2.43	1.90	3.09	3.93	2.08	3.56	3.55
Maize	1.79	2.04	1.90	2.92	3.41	3.29	2.49	2.37
Peanut	1.11	0.35	1.46	2.87	0.94	1.21	0.36	0.14
Safflowerseed and sunflowerseed	12.58	16.64	24.86	31.19	29.71	24.81	36.61	34.76
Soybean	7.88	10.90	10.67	12.58	15.46	12.59	38.12	17.65
Castor	1.15	1.41	1.47	1.40	1.34	1.28	264.79	249.52
Coconut	14.36	12.18	15.23	14.16	11.77	10.56	12.63	14.45
Olive	30.75	24.69	32.75	29.41	29.76	30.81	40.97	32.22
Palm	84.60	82.98	90.48	87.14	86.70	104.07	112.12	107.02
Palm kernel	8.23	11.95	10.33	13.13	12.49	15.12	11.28	10.61
Palm olein	77.24	74.63	82.50	78.66	76.18	83.48	88.99	87.78
Palm stearin	23.40	29.54	22.08	25.94	21.34	20.78	20.65	19.71
Tung	15.20	0.19	0.31	0.25	0.32	0.27	0.29	0.27
Other **b**	51.77	35.58	217.74	73.36	34.87	38.83	242.35	230.25
Total oils	336.67	309.75	518.70	391.46	341.34	364.41	900.28	827.75
(value, $m)	329.65	325.16	413.77	412.68	425.30	466.02	581.47	622.51
Oilseed meals								
Soybeans	204.71	258.76	373.66	312.15	377.16	329.64	617.85	528.38
Other **c**	51.77	35.58	217.74	73.36	34.87	38.83	242.35	230.25
Total	256.49	294.35	591.41	385.50	412.02	368.47	860.20	758.63
(value, $m)	89.50	108.78	154.25	125.07	113.64	108.03	202.07	217.44

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; ABARE.

188 Summary of world statistics for oilseeds a

	Area	Production	Use b	Closing stocks World	Closing stocks Exporters c	Stocks to use ratio	Exports	Use per person	Price d
	million ha	Mt	Mt	Mt	Mt	%	Mt	kg	US$/t
1970-71	70.2	83.3	78.6	na	3.2	na	18.2	27.2	na
1971-72	73.9	109.4	82.6	4.3	3.2	5.2	18.3	28.4	na
1972-73	102.7	125.0	107.6	4.3	2.9	4.0	20.4	28.5	267.0
1973-74	107.9	118.2	120.4	7.5	5.7	6.2	22.0	30.7	260.0
1974-75	107.1	128.3	117.4	8.7	6.8	7.4	19.7	29.3	249.0
1975-76	106.9	118.7	125.6	11.3	8.7	9.0	23.8	30.8	215.0
1976-77	104.8	138.1	124.9	5.1	3.7	4.1	23.6	30.1	288.0
1977-78	115.4	145.3	136.5	8.4	6.1	6.1	26.9	32.3	259.0
1978-79	120.4	164.6	145.5	9.4	6.9	6.5	30.1	33.8	295.0
1979-80	127.8	150.7	156.4	16.7	13.6	10.7	35.2	35.8	278.0
1980-81	125.4	165.1	155.5	13.6	10.9	8.7	30.7	35.0	310.0
1981-82	128.8	172.4	167.0	12.2	9.2	7.3	35.5	36.9	253.0
1982-83	130.2	181.0	171.3	14.5	11.2	8.4	34.6	37.2	260.0
1983-84	130.3	168.6	165.4	9.1	5.6	5.5	32.5	35.3	301.1
1984-85	138.1	187.0	181.7	14.5	10.6	8.0	32.0	38.1	223.0
1985-86	137.0	196.0	187.1	20.1	16.8	10.8	33.8	38.6	210.8
1986-87	133.7	194.0	193.8	23.4	19.7	12.1	36.8	39.4	208.7
1987-88	140.9	211.0	204.6	24.6	19.9	12.0	39.2	40.9	282.3
1988-89	150.6	201.6	202.4	23.9	19.5	11.8	31.8	39.7	292.3
1989-90	151.3	212.2	209.0	25.2	20.7	12.1	36.3	40.3	246.9
1990-91	150.6	213.6	214.0	24.8	20.7	11.6	32.6	40.5	241.4
1991-92	157.0	222.6	224.6	23.2	19.2	10.3	37.4	41.8	237.4
1992-93	156.4	226.4	226.9	25.2	21.4	11.1	38.3	41.6	246.2
1993-94	159.9	227.3	231.1	22.2	18.2	9.6	38.4	41.7	258.8
1994-95	168.1	261.1	257.1	28.7	24.5	11.2	44.2	45.7	247.6
1995-96	174.3	258.0	263.1	23.9	18.8	9.1	41.6	46.7	304.0
1996-97	170.2	261.6	263.8	20.8	14.5	7.9	46.1	46.2	304.0
1997-98	177.5	286.7	275.3	31.4	23.4	11.4	49.2	47.6	257.0
1998-99	185.0	294.6	292.0	34.7	27.4	11.9	51.1	49.6	209.0
1999-00	188.8	304.2	300.3	38.4	29.0	12.8	59.2	50.7	210.0
2000-01	173.9	313.9	311.0	40.0	29.0	12.9	66.8	51.6	200.9
2001-02	177.2	324.8	324.0	42.3	33.4	13.0	62.2	53.1	201.0
2002-03	175.2	331.4	326.6	48.5	38.9	14.9	69.6	52.9	244.8
2003-04	191.2	335.9	336.8	44.7	36.6	13.3	67.0	53.8	320.6
2004-05	197.7	381.5	367.5	57.1	43.9	15.5	74.4	58.1	274.5
2005-06	198.9	391.3	383.5	64.4	50.6	16.8	75.8	59.1	260.9
2006-07	198.7	404.3	393.2	72.7	61.3	18.5	83.7	59.9	335.4
2007-08	194.4	391.3	400.5	61.6	50.9	15.4	92.7	60.3	549.0

a October–September years, except where otherwise noted. Oilseeds comprise canola, copra, cottonseed, palm kernels, peanuts, soybeans and sunflowerseed. **b** Consumption, includes losses etc. **c** 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. **d** 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 Annual,* Hamburg, Germany.

189 World oilseeds production, by country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
South Africa	1 143	1 309	870	1 041	1 020	1 067	615	1 330
Americas								
Argentina	32 404	34 461	39 616	36 840	43 425	45 030	53 160	51 701
Brazil	41 341	45 012	53 712	53 576	55 683	59 133	62 009	64 123
Canada	10 027	6 756	6 671	9 184	10 830	12 910	12 610	12 350
Paraguay	3 702	3 666	4 643	4 144	4 265	3 875	6 606	7 276
United States	84 891	89 832	83 935	76 599	95 938	95 532	96 612	82 437
Asia								
China	51 132	52 194	52 676	50 847	57 974	56 797	55 230	53 350
India	21 563	24 787	20 187	29 682	29 392	30 701	29 916	33 879
Indonesia	5 873	5 926	6 131	6 623	7 238	7 690	7 918	8 231
Malaysia	3 427	3 342	3 610	3 595	4 073	4 083	3 973	4 561
Pakistan	4 110	3 994	3 759	3 755	5 530	5 052	5 253	4 570
Philippines	2 844	2 193	2 244	2 346	2 496	2 447	2 247	2 549
Turkey	1 863	1 904	2 361	2 062	2 105	2 012	2 262	1 950
Turkmenistan	329	339	275	370	360	380	470	510
Uzbekistan	1 920	2 150	2 000	1 800	2 250	2 500	2 300	2 400
Europe								
European Union b	17 217	17 406	16 905	16 439	21 061	23 458	24 341	24 391
Romania	863	912	1 187	1 741	1 620	1 641	1 861	na
Russian Federation	4 405	3 160	4 223	5 435	5 631	7 442	8 080	6 934
Ukraine	3 653	2 460	3 456	4 535	3 562	5 595	6 790	5 950
Oceania								
Australia	3 098	2 982	1 523	2 409	2 641	2 480	1 056	1 420
Other countries	18 107	20 015	21 416	22 827	24 429	21 479	20 991	21 388
Total	313 912	324 800	331 400	335 850	381 523	391 304	404 300	391 300

a Oilseeds comprise soybeans, cottonseed, peanuts, sunflowerseed, canola, palm kernels and copra. **b** Regarded as twenty seven countries. **na** Not available.

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.

190 World oilseeds production, by type

	Castor-seed	Copra	Cotton-seed	Linseed	Palm kernels	Peanuts	Rape-seed a	Sesame seed	Soybeans	Sunflower-seed
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
1960-61	595	3 390	18 064	3 245	927	9 049	3 702	1 183	23 551	6 056
1961-62	570	3 079	17 767	3 265	795	9 537	3 556	1 413	26 945	7 085
1962-63	590	3 156	18 772	3 625	807	9 749	3 734	1 516	27 016	6 795
1963-64	675	3 423	20 163	3 525	823	10 611	2 924	1 546	28 121	6 466
1964-65	811	3 375	21 411	3 700	862	11 625	4 503	1 741	29 238	8 580
1965-66	784	3 528	22 085	3 675	847	10 956	5 042	1 572	31 700	8 110
1966-67	853	3 285	20 635	3 273	703	11 087	4 664	1 544	36 468	9 410
1967-68	909	3 335	20 163	2 738	762	11 849	5 724	1 727	37 773	9 791
1968-69	888	3 228	22 588	3 155	808	11 001	5 379	1 572	41 698	9 685
1969-70	866	3 203	20 148	3 995	885	10 705	5 264	1 624	42 478	10 155
1970-71	814	3 693	19 675	4 420	939	11 346	7 078	1 984	44 269	9 790
1971-72	854	4 291	21 631	3 024	906	11 777	7 661	1 827	47 184	10 019
1972-73	807	3 732	22 400	2 579	859	14 421	7 257	1 776	49 189	9 685
1973-74	997	3 204	22 862	2 763	993	16 251	7 098	1 873	62 377	12 175
1974-75	1 101	4 385	22 985	2 625	1 049	16 651	7 805	1 770	54 605	10 725
1975-76	800	5 020	19 888	2 873	1 078	18 468	8 385	1 671	65 543	9 959
1976-77	694	4 571	20 064	2 580	1 122	16 378	7 116	1 657	59 361	10 130
1977-78	773	4 745	22 685	3 392	1 157	16 735	7 820	1 779	72 114	12 822
1978-79	907	4 132	21 458	2 740	1 285	17 711	10 624	1 854	77 368	12 711
1979-80	875	4 287	23 248	3 089	1 415	17 183	9 933	1 852	93 339	15 162
1980-81	782	4 757	23 455	2 526	1 436	16 040	11 035	1 713	80 873	13 090
1981-82	914	4 508	26 348	2 459	1 708	19 581	12 253	2 069	86 050	14 664
1982-83	924	4 392	25 755	3 001	1 767	17 205	14 703	1 769	93 441	16 530
1983-84	970	3 693	24 211	2 640	1 975	18 510	14 259	1 951	83 092	15 328
1984-85	1 070	4 592	32 816	2 790	2 188	19 449	16 895	1 970	93 040	17 776
1985-86	1 180	5 231	29 415	3 010	2 467	19 784	18 536	1 960	96 958	19 331
1986-87	1 050	4 625	26 281	3 290	2 453	20 159	19 283	2 270	97 961	19 043
1987-88	830	4 299	30 206	2 790	2 609	20 656	23 192	2 230	103 310	20 674
1988-89	1 010	4 265	31 382	2 300	2 858	22 657	22 513	2 210	95 802	20 003
1989-90	1 110	5 022	29 785	2 450	3 256	21 670	21 891	2 140	107 148	21 584
1990-91	1 350	4 684	32 266	2 880	3 255	21 799	25 056	2 070	104 246	22 635
1991-92	1 170	4 665	35 492	2 460	3 343	21 974	28 223	2 350	107 298	21 684
1992-93	1 140	4 838	30 797	1 966	3 910	23 093	25 285	2 190	117 379	21 174
1993-94	1 100	4 890	28 929	2 181	4 137	24 318	26 664	2 300	117 772	20 621
1994-95	1 210	5 533	32 319	2 464	4 522	27 366	30 310	2 321	137 716	23 331
1995-96	1 210	5 136	35 147	2 539	4 868	27 467	34 435	2 540	125 033	25 742
1996-97	1 116	6 053	33 610	3 369	5 211	28 958	31 531	2 821	132 349	23 800
1997-98	1 181	5 412	34 354	2 371	5 045	27 289	33 234	2 652	158 191	23 211
1998-99	1 168	4 391	32 365	2 828	5 624	29 951	35 756	2 617	159 826	26 650
1999-00	1 261	5 434	32 982	2 868	6 418	29 417	42 481	2 704	160 349	27 177
2000-01	1 353	5 810	33 499	2 359	7 046	31 421	37 325	2 870	175 759	23 078
2001-02	1 043	5 157	36 411	2 159	7 195	33 815	36 010	3 236	184 818	21 413
2002-03	1 043	5 144	33 805	2 090	7 761	30 875	32 913	3 025	196 855	24 039
2003-04	1 107	5 373	36 242	2 261	8 433	32 822	39 428	3 239	186 619	26 933
2004-05	1 359	5 594	45 447	2 020	9 535	33 605	46 139	3 439	215 758	25 445
2005-06	1 440	5 585	43 435	2 936	9 965	33 074	48 679	3 479	220 531	30 035
2006-07	1 210	5 258	45 828	2 600	10 188	30 674	45 163	3 390	237 328	29 812
2007-08	1 310	5 701	46 048	2 000	11 106	31 957	48 430	3 400	220 890	27 217

a Predominantly canola since the late 1980s.

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

191 Volume of world oilseeds trade, by type and country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola	6.99	4.95	4.03	5.15	5.02	6.71	6.92	7.67
China	2.36	0.78	0.05	0.42	0.32	0.68	0.96	0.81
European Union **b**	0.52	0.17	0.06	0.17	0.01	0.38	0.43	0.69
Japan	2.18	2.08	2.11	2.28	2.23	2.28	2.20	2.30
Copra	0.11	0.09	0.07	0.07	0.13	0.07	0.11	0.08
European Union **b**	0.06	0.04	0.02	0.04	0.04	0.03	0.03	0.02
Linseed	0.76	0.79	0.78	2.22	1.70	0.79	1.01	0.93
European Union **c**	0.59	0.62	0.60	0.62	0.49	0.55	0.71	0.59
Japan	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.01
Soybeans	53.05	54.39	62.92	54.00	63.49	64.05	69.05	78.86
China	13.25	10.39	21.42	16.93	25.80	28.32	28.73	37.81
European Union **b**	17.60	18.68	16.94	14.68	14.54	13.94	15.29	15.10
Japan	4.77	5.02	5.09	4.69	4.30	3.96	4.09	4.01
Mexico	4.38	4.51	4.23	3.80	3.64	3.67	3.84	3.65
Sunflowerseed	2.23	1.11	1.39	2.17	1.14	1.29	1.68	1.16
European Union **b**	1.70	0.76	0.71	1.07	0.41	0.63	0.57	0.32
Israel	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mexico	0.03	0.01	0.10	0.04	0.01	0.02	0.01	0.01
Turkey	0.32	0.17	0.23	0.66	0.53	0.35	0.44	0.53
Other oilseeds **d**	2.45	2.34	1.86	0.54	1.22	2.40	1.96	2.03
Total	65.59	63.67	71.04	64.15	72.70	75.31	80.73	90.73
Exports								
Canola	7.18	4.90	4.13	5.48	4.87	6.99	6.64	8.27
Australia	1.48	1.30	0.61	1.05	1.02	0.88	0.24	0.52
Canada	4.84	2.67	2.42	3.76	3.49	5.41	5.45	5.77
Copra	0.12	0.12	0.09	0.07	0.15	0.11	0.12	0.10
Papua New Guinea	0.02	0.03	0.02	0.02	0.03	0.01	0.02	0.02
Philippines	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Linseed	0.79	0.76	0.79	0.82	0.65	0.80	1.05	0.90
Canada	0.72	0.69	0.64	0.71	0.51	0.65	0.84	0.77
Soybeans	53.76	52.90	60.98	56.20	64.77	63.75	71.50	79.43
Argentina	7.30	5.96	8.62	6.74	9.57	7.25	9.56	13.78
Brazil	15.47	14.50	19.63	20.42	20.14	25.91	23.49	25.36
United States	27.10	28.95	28.42	24.13	29.86	25.58	30.39	31.60
Sunflowerseed	2.52	1.19	1.52	2.27	1.22	1.50	1.89	1.48
Argentina	0.08	0.36	0.21	0.05	0.11	0.05	0.06	0.10
Ukraine	1.02	0.10	0.33	0.93	0.01	0.22	0.34	0.08
United States	0.20	0.24	0.17	0.17	0.14	0.18	0.18	0.20
Other oilseeds **d**	2.45	2.38	2.11	2.18	2.79	2.69	2.52	2.56
Total	66.82	62.24	69.62	67.02	74.45	75.84	83.72	92.74

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

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

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

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Copra meal	1.16	0.79	0.81	0.68	0.73	0.69	0.62	0.83
European Union **b**	0.66	0.40	0.28	0.14	0.08	0.05	0.02	0.03
Korea, Rep. of	0.43	0.35	0.37	0.40	0.43	0.45	0.34	0.52
Fish meal	3.48	3.25	2.84	3.11	3.62	2.92	2.68	2.94
China	0.90	0.96	0.80	1.13	1.58	0.98	0.97	1.20
Chinese Taipei	0.29	0.24	0.24	0.24	0.23	0.21	0.15	0.17
European Union **b**	0.79	0.77	0.76	0.60	0.65	0.57	0.53	0.47
Peanut meal	0.22	0.28	0.10	0.26	0.12	0.20	0.15	0.21
European Union **b**	0.18	0.13	0.06	0.03	0.00	0.03	0.06	0.04
Thailand	0.02	0.08	0.02	0.03	0.04	0.02	0.02	0.02
Soybean meal	36.08	40.51	42.54	45.02	46.20	51.43	52.49	54.94
European Union **b**	17.71	19.96	20.55	22.01	21.91	22.83	22.18	23.90
Indonesia	1.62	1.25	1.64	1.67	1.85	2.07	2.24	2.40
Korea, Rep. of	1.41	1.50	1.53	1.31	1.46	1.77	1.87	1.76
Philippines	1.16	1.51	1.45	1.16	1.38	1.37	1.36	1.45
Other meals **c**	7.32	6.67	7.32	8.75	8.93	9.93	10.60	11.27
Total	48.26	51.50	53.61	57.82	59.60	65.17	66.54	70.19
Exports								
Fish meal	3.47	3.06	2.87	3.21	3.65	2.73	2.59	2.72
European Union **b**	0.19	0.21	0.16	0.19	0.23	0.20	0.14	0.15
South America	2.63	2.05	2.02	2.32	2.76	1.93	1.85	1.95
Peanut meal	0.27	0.31	0.11	0.32	0.18	0.26	0.17	0.26
India	0.02	0.09	0.01	0.25	0.11	0.16	0.07	0.17
Senegal	0.13	0.09	0.04	0.02	0.00	0.03	0.05	0.03
Sudan	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.02
Soybean meal	36.25	41.69	42.76	45.66	46.84	51.72	54.27	55.31
Argentina	13.73	16.59	18.47	19.22	20.65	24.20	25.63	26.42
Brazil	10.67	11.86	13.66	14.79	14.26	12.90	12.72	12.14
European Union **b**	0.25	0.33	0.34	0.40	0.53	0.70	0.55	0.42
United States	7.34	7.27	5.73	4.69	6.66	7.30	7.99	8.35
Other meals **d**	8.50	7.74	8.01	9.52	9.94	11.07	11.35	12.52
Total	48.49	52.79	53.75	58.71	60.61	65.78	68.38	70.81

a Imports may not equal exports in any given period, as a result of lags in shipping time. **b** Regarded as twenty seven 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.

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

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola oil	1.34	1.12	0.89	1.36	1.20	1.46	2.20	1.95
European Union **b**	0.00	0.00	0.01	0.03	0.03	0.32	0.73	0.30
India	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Coconut oil	1.77	1.83	1.89	1.68	1.87	1.99	1.89	1.86
European Union **b**	0.81	0.78	0.81	0.68	0.77	0.77	0.79	0.67
United States	0.51	0.50	0.39	0.36	0.42	0.51	0.41	0.49
Palm oil	16.25	16.93	19.61	21.32	23.94	26.16	27.40	29.56
European Union **b**	2.85	2.98	3.01	3.37	4.03	4.27	4.35	4.00
India	4.00	3.40	3.95	3.49	3.53	3.00	3.80	4.53
Pakistan	1.30	1.17	1.32	1.27	1.57	1.70	2.22	2.42
Singapore	0.29	0.27	0.31	0.32	0.31	0.32	0.32	0.33
Soybean oil	6.95	7.74	8.27	8.33	8.91	9.02	9.78	10.34
China	0.36	0.55	1.71	2.73	1.73	1.52	2.40	2.73
European Union **b**	0.03	0.06	0.03	0.06	0.18	0.71	0.98	0.95
India	1.40	1.48	1.20	0.91	2.03	1.73	1.40	0.70
Russian Federation	0.46	0.59	0.18	0.10	0.09	0.05	0.02	0.12
Sunflowerseed oil	2.01	1.76	2.00	1.92	2.17	3.24	3.33	2.76
European Union **b**	0.26	0.68	0.73	0.52	0.86	1.24	1.19	1.10
Other vegetable oils **c**	1.77	1.87	2.11	2.29	2.33	2.48	3.01	2.84
Total	30.08	31.25	34.77	36.90	40.41	44.35	47.61	49.31
Exports								
Canola oil	1.20	1.03	0.91	1.33	1.30	1.74	1.94	1.92
Canada	0.74	0.54	0.53	0.98	0.97	1.09	1.27	1.33
European Union **b**	0.21	0.28	0.25	0.14	0.10	0.09	0.05	0.13
Coconut oil	1.83	1.79	1.74	1.79	2.04	1.99	1.82	2.03
Philippines	1.20	1.07	1.07	1.06	1.00	1.20	0.84	1.02
Cottonseed oil	0.19	0.18	0.14	0.14	0.12	0.11	0.16	0.19
United States	0.06	0.07	0.05	0.05	0.03	0.03	0.06	0.08
Palm oil	16.47	17.63	19.61	21.61	24.55	26.85	26.91	30.37
Indonesia	4.78	5.98	6.42	7.86	9.63	11.70	11.45	13.51
Malaysia	10.48	10.50	11.65	11.60	12.68	12.93	12.90	14.22
Soybean oil	7.05	8.34	9.03	8.83	9.12	9.82	10.57	10.79
Argentina	3.08	3.63	3.92	4.24	4.76	5.60	5.97	5.67
Brazil	1.53	1.78	2.39	2.72	2.41	2.47	2.46	2.39
European Union **b**	0.89	0.89	0.71	0.56	0.53	0.27	0.24	0.34
United States	0.64	1.14	1.03	0.43	0.60	0.52	0.85	1.35
Sunflowerseed oil	2.22	1.92	2.25	2.67	2.63	3.88	3.86	3.54
Argentina	1.00	1.16	0.90	1.01	1.18	1.22	0.85	1.48
European Union **b**	0.16	0.09	0.15	0.23	0.18	0.13	0.15	0.12
Other vegetable oils **c**	1.96	2.16	2.08	2.50	2.62	2.77	3.24	3.24
Total	30.92	33.05	35.76	38.87	42.38	47.16	48.50	52.08

a Imports may not equal exports in any given period, as a result of lags in shipping time. **b** Regarded as twenty seven countries; excludes intra-EU trade.
c Olive, palm kernel and peanut.
Sources: US Department of Agriculture, *Production, Supply and Distribution Database,* Washington DC.

194 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	549.0	445.0	1 327.0

a October–September average. **b** Cif Hamburg; Europe '00' rapeseed. **c** Malaysia fob; RBD. **d** Cif Rotterdam. **e** Cif Rotterdam; Arg. 44/45%. **f** Dutch fob; ex mill. **na** Not available.

Sources: UISTA mielke GmbH, *Oil World Annual,* Hamburg, Germany.

195 Summary of Australian statistics for pulses

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Lupins									
Area	'000 ha	1 180.0	1 139.0	1 024.5	851.0	845.0	809.0	736.0	454.0
Yield	t/ha	0.9	1.1	0.7	1.4	1.1	1.6	0.6	0.7
Production	kt	1 055.0	1 215.0	725.5	1 180.0	937.0	1 285.0	470.0	331.0
Exports **a**	kt	714.4	414.2	207.5	645.6	418.5	469.5	173.7	50.0
Value of exports **a**	$m	165.9	108.9	57.3	147.7	88.8	99.4	37.8	21.3
Average unit value	$/t	205.3	250.0	291.5	235.7	205.9	195.4	265.7	262.3
Gross value of production	$m	216.6	303.8	211.5	278.1	192.9	251.1	124.9	86.8
Field peas									
Area	'000 ha	397.0	337.0	380.0	354.0	413.0	366.0	384.0	292.5
Yield	t/ha	1.1	1.5	0.5	1.4	0.7	1.6	0.4	0.9
Production	kt	456.0	512.0	178.0	487.0	289.0	585.0	140.0	267.5
Exports **ab**	kt	387.0	459.1	107.6	209.3	116.1	156.1	247.7	142.2
Value of exports **ab**	$m	111.7	156.9	43.0	55.6	33.4	43.2	80.1	61.1
Average unit value	$/t	218.6	287.8	343.8	231.6	234.6	222.1	283.6	408.5
Gross value of production	$m	99.7	147.3	61.2	112.8	67.8	129.9	39.7	109.3
Chickpeas									
Area	'000 ha	261.5	195.0	201.0	151.5	113.3	105.3	244.1	306.0
Yield	t/ha	0.6	1.3	0.7	1.2	1.0	1.2	1.0	1.0
Production	kt	162.4	258.0	136.0	178.0	115.6	122.8	232.4	313.0
Exports **a**	kt	217.9	278.3	88.5	163.8	151.2	211.4	244.1	218.1
Value of exports **a**	$m	112.6	167.0	52.4	70.6	65.3	106.4	168.2	139.0
Average unit value	$/t	463.1	504.5	477.8	326.7	310.3	460.6	658.7	621.6
Gross value of production	$m	75.2	130.2	65.0	58.2	35.9	56.6	153.1	194.5
Total legumes c									
Area	'000 ha	2 286.8	2 086.0	2 034.3	1 700.1	1 764.0	1 650.8	1 738.7	1 379.7
Yield	t/ha	1.0	1.3	0.6	1.4	1.0	1.6	0.6	0.9
Production	kt	2 241.3	2 674.0	1 295.7	2 396.1	1 683.3	2 619.4	1 057.8	1 250.3
Exports **ad**	kt	2 475.2	2 134.7	947.6	2 041.7	1 328.7	1 706.9	1 146.7	619.3
Value of exports **ad**	$m	802.1	837.1	348.2	588.0	397.1	533.0	483.9	386.7
Average unit value	$/t	260.0	301.2	304.9	239.1	234.2	231.1	374.0	470.9
Gross value of production	$m	582.8	805.5	395.0	572.8	394.2	605.4	395.6	588.8

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.

196 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							
2001-02	'000 ha	106.0	33.0	0.0	920.0	80.0	1 139.0
2002-03	'000 ha	100.0	40.0	0.0	795.0	89.0	1 024.5
2003-04	'000 ha	69.0	28.0	0.0	667.0	86.0	851.0
2004-05	'000 ha	63.0	35.0	0.3	677.0	69.0	845.0
2005-06	'000 ha	37.0	27.0	0.0	672.0	72.0	809.0
2006-07	'000 ha	74.0	43.0	0.0	530.0	89.0	736.0
2007-08	'000 ha	62.0	31.0	0.0	300.0	61.0	454.0
Yield							
2001-02	t/ha	1.16	1.24	0.00	0.98	1.84	1.07
2002-03	t/ha	0.37	0.28	0.00	0.74	1.01	0.71
2003-04	t/ha	0.81	1.14	0.00	1.45	1.42	1.39
2004-05	t/ha	0.87	0.57	1.67	1.17	0.99	1.11
2005-06	t/ha	1.68	1.33	0.00	1.58	1.68	1.59
2006-07	t/ha	0.22	0.26	0.00	0.77	0.38	0.64
2007-08	t/ha	0.50	0.81	0.00	0.70	1.07	0.73
Production							
2001-02	kt	123.0	41.0	0.0	904.0	147.0	1 215.0
2002-03	kt	37.0	11.0	0.0	587.0	90.0	725.5
2003-04	kt	56.0	32.0	0.0	969.0	122.0	1 180.0
2004-05	kt	55.0	20.0	0.5	792.0	68.0	937.0
2005-06	kt	62.0	36.0	0.0	1 064.0	121.0	1 285.0
2006-07	kt	16.0	11.0	0.0	409.0	34.0	470.0
2007-08	kt	31.0	25.0	0.0	210.0	65.0	331.0
Field peas							
Area							
2001-02	'000 ha	15.0	125.0	0.0	70.0	126.0	337.0
2002-03	'000 ha	19.0	132.0	0.0	71.2	157.0	380.0
2003-04	'000 ha	22.0	110.0	0.0	65.0	157.0	354.0
2004-05	'000 ha	28.0	142.0	0.0	99.0	143.0	413.0
2005-06	'000 ha	37.0	99.0	0.0	85.0	143.0	366.0
2006-07	'000 ha	42.0	102.0	1.0	75.0	163.0	384.0
2007-08	'000 ha	45.5	67.0	0.0	50.0	130.0	292.5
Yield							
2001-02	t/ha	1.13	1.22	0.00	1.17	2.06	1.52
2002-03	t/ha	0.32	0.16	0.00	0.34	0.80	0.47
2003-04	t/ha	0.86	1.07	0.00	1.58	1.57	1.38
2004-05	t/ha	0.54	0.35	0.00	0.73	1.05	0.70
2005-06	t/ha	1.51	1.68	0.00	1.21	1.80	1.60
2006-07	t/ha	0.12	0.08	1.00	0.69	0.46	0.36
2007-08	t/ha	0.21	0.90	0.00	1.10	1.10	0.91
Production							
2001-02	kt	17.0	153.0	0.0	82.0	259.0	512.0
2002-03	kt	6.0	21.0	0.0	24.0	126.0	178.0
2003-04	kt	19.0	118.0	0.0	103.0	246.0	487.0
2004-05	kt	15.0	50.0	0.0	72.0	150.0	289.0
2005-06	kt	56.0	166.0	0.0	103.0	258.0	585.0
2006-07	kt	5.0	8.0	1.0	52.0	75.0	140.0
2007-08	kt	9.5	60.0	0.0	55.0	143.0	267.5

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Chickpeas							
Area							
2001-02	'000 ha	116.0	16.0	46.0	16.0	1.0	195.0
2002-03	'000 ha	71.0	9.0	111.0	6.0	3.5	201.0
2003-04	'000 ha	61.0	5.5	76.0	6.0	3.0	151.5
2004-05	'000 ha	63.0	4.0	41.0	4.0	1.3	113.3
2005-06	'000 ha	46.0	16.0	36.0	6.0	1.3	105.3
2006-07	'000 ha	156.7	39.0	41.0	2.4	5.0	244.1
2007-08	'000 ha	214.5	17.0	66.0	0.8	7.7	306.0
Yield							
2001-02	t/ha	1.39	1.47	1.33	0.69	1.00	1.32
2002-03	t/ha	0.71	0.03	0.73	0.25	0.77	0.68
2003-04	t/ha	1.20	1.09	1.20	0.83	1.00	1.17
2004-05	t/ha	1.37	1.00	0.51	0.88	0.88	1.02
2005-06	t/ha	1.33	1.50	0.86	0.83	1.44	1.17
2006-07	t/ha	1.12	0.26	1.05	0.38	0.52	0.95
2007-08	t/ha	0.94	1.12	1.26	0.25	1.20	1.02
Production							
2001-02	kt	161.5	23.5	61.0	11.0	1.0	258.0
2002-03	kt	50.5	0.3	81.0	1.5	2.7	136.0
2003-04	kt	73.0	6.0	91.0	5.0	3.0	178.0
2004-05	kt	86.0	4.0	21.0	3.5	1.1	115.6
2005-06	kt	61.0	24.0	31.0	5.0	1.8	122.8
2006-07	kt	175.9	10.0	43.0	0.9	2.6	232.4
2007-08	kt	201.5	19.0	83.0	0.2	9.3	313.0
Faba beans							
Area							
2001-02	'000 ha	37.0	55.0	0.0	13.0	75.0	180.0
2002-03	'000 ha	17.0	50.0	0.0	7.0	83.0	157.0
2003-04	'000 ha	15.0	50.0	0.0	7.0	83.0	155.0
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	35.1	40.0	0.0	4.0	74.0	153.1
2007-08	'000 ha	9.5	34.0	0.0	2.0	87.0	132.5
Yield							
2001-02	t/ha	1.89	1.73	0.00	0.77	2.33	1.94
2002-03	t/ha	1.06	0.10	0.00	0.29	1.00	0.69
2003-04	t/ha	1.13	1.80	0.00	1.43	1.93	1.79
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	1.71	0.25	0.00	0.63	0.47	0.70
2007-08	t/ha	0.89	0.94	0.00	1.25	1.09	1.04
Production							
2001-02	kt	70.0	95.0	0.0	10.0	175.0	350.0
2002-03	kt	18.0	5.0	0.0	2.0	83.0	108.0
2003-04	kt	17.0	90.0	0.0	10.0	160.0	277.0
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	60.0	10.0	0.0	2.5	35.0	107.5
2007-08	kt	8.5	32.0	0.0	2.5	95.0	138.0

Continued

196 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							
2001-02	'000 ha	18.0	0.0	25.0	0.0	0.0	43.0
2002-03	'000 ha	20.0	0.0	24.0	0.0	0.0	44.0
2003-04	'000 ha	18.0	0.0	26.0	0.0	0.0	44.1
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	18.9	0.2	27.2	0.0	0.0	40.0
2007-08	'000 ha	19.8	0.0	25.2	0.0	0.0	45.0
Yield							
2001-02	t/ha	1.00	0.00	1.00	0.00	0.00	1.00
2002-03	t/ha	0.59	0.00	0.91	0.00	0.00	0.76
2003-04	t/ha	1.11	0.00	1.05	0.00	0.00	1.07
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	0.73	0.00	0.74	0.00	0.00	0.85
2007-08	t/ha	0.93	0.00	1.07	0.00	0.00	1.01
Production							
2001-02	kt	18.0	0.0	25.0	0.0	0.0	43.0
2002-03	kt	11.7	0.0	21.9	0.0	0.0	33.6
2003-04	kt	20.0	0.0	27.3	0.0	0.0	47.3
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	13.7	0.0	20.2	0.0	0.0	34.0
2007-08	kt	18.4	0.0	27.0	0.0	0.0	45.5
Total pulses b							
Area							
2001-02	'000 ha	296.0	329.0	71.0	1 027.0	362.0	2 086.0
2002-03	'000 ha	231.2	339.0	135.0	886.6	440.6	2 034.3
2003-04	'000 ha	187.5	256.0	102.0	748.5	405.0	1 700.1
2004-05	'000 ha	223.0	303.5	66.3	791.5	378.3	1 764.0
2005-06	'000 ha	175.0	254.7	61.8	774.0	382.3	1 650.8
2006-07	'000 ha	329.5	311.9	69.2	614.7	418.8	1 738.7
2007-08	'000 ha	352.2	222.9	91.2	354.4	359.1	1 379.7
Yield							
2001-02	t/ha	1.33	1.38	1.21	0.98	2.01	1.28
2002-03	t/ha	0.55	0.16	0.76	0.70	0.89	0.64
2003-04	t/ha	1.01	1.33	1.16	1.46	1.61	1.41
2004-05	t/ha	1.13	0.45	0.79	1.11	0.95	0.95
2005-06	t/ha	1.56	1.61	0.96	1.53	1.80	1.59
2006-07	t/ha	0.83	0.19	0.93	0.76	0.47	0.61
2007-08	t/ha	0.77	0.92	1.21	0.76	1.10	0.91
Production							
2001-02	kt	393.5	452.5	86.0	1 011.0	727.0	2 674.0
2002-03	kt	126.1	55.4	102.9	619.7	390.1	1 295.7
2003-04	kt	188.6	341.2	118.3	1 094.7	651.2	2 396.1
2004-05	kt	251.7	136.0	52.7	880.0	359.1	1 683.3
2005-06	kt	273.1	411.0	59.5	1 184.0	687.8	2 619.4
2006-07	kt	272.1	58.5	64.2	468.1	195.9	1 057.8
2007-08	kt	269.8	204.5	110.0	269.4	396.5	1 250.3

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; ABARE, *Australian Crop Report,* Canberra.

197 World pulses production, by region and country

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Burundi	219	284	280	280	259	285	255	255
Egypt	425	516	492	426	413	367	400	412
Ethiopia	996	1 160	1 088	983	1 318	1 336	1 418	1 315
Nigeria	2 200	2 222	2 361	2 509	2 681	2 865	3 091	3 203
Uganda	585	668	695	693	626	652	602	618
Americas								
Brazil	3 058	2 466	3 082	3 321	2 992	3 040	3 473	3 347
Canada	4 443	3 366	2 191	2 840	4 298	4 590	3 701	4 175
Mexico	1 242	1 508	1 914	1 689	1 391	1 084	1 675	1 689
United States	1 550	1 242	1 719	1 425	1 559	2 171	2 082	2 124
Asia								
China	4 696	5 127	5 915	5 892	4 925	5 232	5 555	6 198
India	13 716	12 180	12 934	13 612	14 221	13 227	13 410	14 500
Myanmar	1 665	2 044	2 344	2 410	2 570	2 653	2 676	2 704
Pakistan	935	771	717	1 066	956	1 171	804	1 189
Thailand	282	294	274	295	215	213	192	193
Europe								
Denmark	138	113	150	125	96	53	32	25
France	2 070	1 877	2 033	1 943	2 091	1 754	1 347	931
Poland	264	211	229	238	268	255	236	239
Russian Federation	1 178	1 804	188	1 666	1 887	1 645	1 764	1 301
Ukraine	653	830	810	571	812	758	747	519
United Kingdom	794	957	924	934	876	866	795	740
Middle East								
Turkey	1 316	1 454	1 640	1 558	1 584	1 565	1 606	1 493
Oceania								
Australia **a**	2 897	2 241	2 674	1 296	2 396	1 683	2 619	1 058
Total **b**	55 179	55 493	57 126	59 454	59 934	60 107	59 465	61 341

a On a fiscal year basis, for example, 1992-93 = 1993. **b** Includes some unspecified countries.

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

198 Volume of world pulses trade, by region and country

	2000	2001	2002	2003	2004	2005	2006
	kt	kt	kt	kt	kt	kt	kt
Imports							
Africa							
Algeria	160.5	175.5	167.2	172.8	157.7	196.9	na
Egypt	263.9	370.8	413.7	393.0	433.0	533.0	na
South Africa	62.0	45.9	69.9	122.9	77.4	74.6	na
Americas							
Brazil	120.8	169.8	115.7	137.5	113.5	138.4	na
Colombia	174.7	177.6	155.2	119.9	127.2	148.6	na
Cuba	119.8	210.3	114.3	213.9	217.4	202.4	na
Mexico	133.5	176.9	150.6	129.4	109.4	127.1	na
United States	210.8	213.1	255.1	249.9	255.0	252.4	na
Venezuela	108.2	114.8	93.2	86.9	83.7	70.4	na
Asia							
China	190.2	235.3	195.9	138.7	163.0	341.6	na
Hong Kong, China	14.5	11.7	12.8	12.3	11.1	10.4	na
India	352.5	2 320.9	2 165.3	1 953.9	1 471.9	1 870.0	na
Japan	170.0	163.4	157.6	158.9	162.2	141.7	na
Malaysia	62.0	62.1	64.0	68.9	77.4	82.5	na
Singapore	34.6	47.1	66.2	23.9	22.4	17.3	na
Europe							
France	161.5	144.6	124.6	121.2	100.1	110.3	na
Germany	138.5	107.9	80.7	80.8	135.9	64.4	na
Italy	436.5	420.7	429.3	436.9	420.8	430.7	na
Netherlands	330.3	228.0	194.3	324.0	262.0	253.7	na
Spain	850.2	767.7	431.8	419.3	939.5	1 256.7	na
United Kingdom	160.3	1 661.8	182.3	184.8	170.5	194.6	na
Middle East							
United Arab Emirates	36.9	47.9	140.3	105.9	86.5	90.9	na
Total **a**	7 321.3	9 494.9	8 752.5	8 863.4	8 735.6	10 183.3	na

Continued

198 Volume of world pulses trade, by region and country continued

	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt	2006 kt
Exports							
Americas							
Argentina	283.4	276.1	253.5	230.0	183.4	219.0	na
Canada	2 695.0	2 865.9	1 413.4	1 777.2	2 330.0	3 260.1	na
Chile	13.4	13.9	12.3	12.2	8.3	6.9	na
Mexico	167.4	212.1	155.6	158.6	102.3	102.7	na
United States	569.3	581.8	552.1	562.1	559.1	825.8	na
Asia							
China	572.1	719.2	860.8	1 041.5	795.8	868.3	na
Myanmar	831.3	1 077.0	1 147.0	1 073.6	902.8	357.1	na
Singapore	23.3	37.3	54.7	11.5	11.4	7.1	na
Thailand	48.6	34.2	41.9	37.2	25.6	29.7	na
Europe							
Denmark	46.9	43.6	77.4	33.5	45.1	19.5	na
France	826.7	633.2	986.0	747.2	773.6	656.7	na
Hungary	10.7	8.3	11.4	11.0	12.3	11.9	na
Netherlands	80.3	50.7	61.1	52.6	52.2	43.7	na
United Kingdom	252.5	165.5	303.3	498.0	422.1	375.8	na
Middle East							
Turkey	163.3	360.4	244.6	449.5	323.7	245.6	na
Oceania							
Australia **b**	2 750.7	2 475.2	2 134.7	947.6	2 041.7	1 328.7	1 706.9
New Zealand	24.9	23.6	18.9	22.2	19.5	18.3	na
Total **a**	8 612.9	9 413.8	8 825.1	8 488.3	9 033.2	9 615.3	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, FAO.

199 Summary of Australian statistics for rice a

	Area	Yield b	Production Volume b	Production Unit value c	Exports Volume d	Exports Unit value e	Apparent consumption f
	'000 ha	t/ha	kt	$/t	kt	$/t	kt
1967-68	30.7	7.0	214.5	59.8	99.0	141.4	28.2
1968-69	33.7	7.4	248.2	57.8	107.0	146.7	29.1
1969-70	40.2	6.1	247.0	58.8	120.7	141.7	30.2
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	140.0
2001-02	144.0	8.3	1 192.0	274.2	580.3	583.9	144.1
2002-03	46.0	9.5	438.0	348.2	664.4	644.8	147.9
2003-04	66.0	8.4	553.0	325.1	216.5	620.4	151.8
2004-05	51.4	6.6	339.0	296.8	298.8	634.6	155.8
2005-06	102.0	9.8	1 002.6	283.3	167.5	653.3	160.2
2006-07	20.0	8.2	163.0	346.0	598.6	698.4	153.0
2007-08	2.2	8.8	19.0	405.0	93.8	876.7	157.0

a Based on rice industry figures calculated on 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 only. Excludes rice used for feed, breakfast cereals and rice used for other purposes; includes imports. Financial year basis. From 1999-00 ABARE estimate.

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 Australian Commodities Produced,* Cat. no. 7503.0, Canberra; Rice Marketing Board for the State of New South Wales, *Annual Report,* Leeton; ABARE.

200 Australian rice trade and payments to growers

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Exports a									
Quantity	kt	602	580	664	216	299	167	599	94
Total export value b	$m	383	339	428	134	190	109	418	82
Imports ac									
Quantity	kt	50	55	61	80	91	103	107	141
Total import value	$m	44	43	46	56	59	69	78	106
Indicator price									
Thai white rice d	US$/t	184.17	191.67	199.42	220.33	278.33	301.42	320.17	551.25
Australian price e	A$/t	341.91	365.86	341.10	309.49	370.19	404.28	408.09	615.31
Average returns to growers f									
Avg. medium grain return	$/t	232.0	193.4	243.7	313.1	279.5	284.1	265.0	404.0

a Milled equivalent; marketing year (April–March) basis. Includes ABARE 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** For paddy rice from harvest in year indicated. Returns to New South Wales and Queensland growers include bonuses paid by respective rice growers cooperatives. For New South Wales growers, returns take into account a deduction for grower equity in storage facilities made by the Rice Marketing Board, New South Wales.

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

201 Summary of world statistics for rice [a]

	Area harvested	Production [b]	Total use	Closing stocks [bc]	Stocks to use ratio	Trade [d]	Export price [e]
	million ha	Mt	Mt	Mt	%	Mt	US$/t
1965-66	124	173	172	18	11	8	149.08
1966-67	126	179	179	19	10	8	181.67
1967-68	127	189	186	21	11	7	220.17
1968-69	129	195	192	25	13	7	186.75
1969-70	131	201	199	26	13	8	161.33
1970-71	133	213	211	29	14	9	131.83
1971-72	135	216	217	28	13	9	134.17
1972-73	133	209	213	24	11	8	187.12 [f]
1973-74	136	228	223	29	13	8	593.51 [g]
1974-75	138	226	226	28	12	7	439.12
1975-76	143	243	232	39	17	8	302.84
1976-77	141	236	237	38	16	11	274.66
1977-78	143	251	244	44	18	10	360.92
1978-79	144	262	252	54	21	12	339.83
1979-80	141	257	257	54	21	13	409.83
1980-81	144	270	275	53	19	13	492.58
1981-82	144	278	283	51	18	11	379.83
1982-83	141	285	285	57	20	12	280.42
1983-84	145	307	303	69	23	12	278.33
1984-85	144	317	309	88	28	12	211.29
1985-86	145	318	319	98	31	12	191.13
1986-87	145	316	320	103	32	13	189.66
1987-88	142	315	321	105	33	12	272.63
1988-89	146	331	327	111	34	15	292.44
1989-90	147	344	338	119	35	13	292.06
1990-91	147	351	343	127	37	12	296.09
1991-92	147	353	351	127	36	14	287.30
1992-93	147	354	356	123	35	15	244.25
1993-94	145	355	360	119	33	16	293.98
1994-95	147	364	364	118	33	21	289.76
1995-96	148	369	366	118	32	20	362.42
1996-97	150	381	376	121	32	19	337.83
1997-98	151	387	377	128	34	27	302.25
1998-99	153	395	388	134	35	23	283.75
1999-00	155	409	396	145	37	24	230.58
2000-01	152	399	393	147	38	28	184.17
2001-02	151	400	413	133	32	28	191.67
2002-03	146	379	406	103	25	27	199.42
2003-04	149	392	412	81	20	29	220.33
2004-05	151	401	407	73	18	29	278.33
2005-06	153	418	412	76	18	32	301.42
2006-07	154	421	418	75	18	29	320.17
2007-08	156	431	424	78	18	30	551.25

a Based on US Department of Agriculture data. **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. Stocks data do not include some major stockholders – for example, China and Burma – for which official information is not available. **d** Calendar year basis, 1960-61 =1961; includes intra-EU trade. **e** Thai white rice, 100 per cent, 2nd grade/grade B, fob Bangkok (August–July basis). From 1960-61 to 1983-84, prices are quoted 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: 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://usda.mannlib.cornell.edu/reports/erssor/field/rcs-bb/); ABARE.

202 World rice production, by country or region a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	1.6	1.2	0.4	0.6	0.3	1.0	0.2	0.0
Bangladesh	37.6	36.5	37.8	39.2	38.4	43.1	43.5	43.2
Brazil	10.2	10.4	10.4	12.8	13.2	11.6	11.3	12.1
China	187.9	177.6	174.5	160.7	179.1	180.6	181.7	186.0
European Union **b**	2.5	2.6	2.7	2.7	2.9	2.7	2.6	2.6
India	127.5	140.0	107.7	132.8	124.7	137.7	140.0	144.7
Indonesia	51.5	51.1	51.8	54.3	54.0	54.2	51.7	55.5
Japan	11.9	11.3	11.1	9.7	10.9	11.3	10.7	10.9
Korea, Rep. of	7.2	7.4	6.7	6.2	6.7	6.4	6.3	6.0
Myanmar	18.6	18.0	18.6	18.5	16.5	18.0	18.3	18.5
Pakistan	7.2	5.8	6.7	7.3	7.5	8.3	8.2	8.6
Philippines	12.5	13.0	13.0	14.2	14.5	15.1	15.5	16.0
Thailand	25.8	26.5	26.1	27.3	26.3	27.6	27.7	29.2
United States	8.7	9.8	9.6	9.1	10.5	10.1	8.8	9.0
Viet Nam	31.0	31.9	32.6	33.5	34.4	34.5	34.7	36.7
World	593.8	594.1	563.8	585.0	597.3	623.4	627.3	642.8

a Crop year (paddy basis). **b** Regarded as twenty seven countries.

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

203 Volume of world rice trade, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Bangladesh	0.40	0.31	1.11	0.80	0.79	0.53	1.57	1.20
Brazil	0.67	0.56	1.31	0.83	0.55	0.69	0.68	0.50
China	0.27	0.30	0.26	1.12	0.61	0.65	0.47	0.30
European Union **b**	1.30	1.29	1.04	1.18	1.06	1.08	1.21	1.10
India	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Indonesia	1.50	3.50	2.75	0.65	0.50	0.54	2.00	0.50
Iran	0.77	0.96	0.90	0.95	0.98	1.25	1.14	0.90
Iraq	0.96	1.18	0.67	0.89	0.79	1.31	0.61	0.90
Japan	0.68	0.62	0.65	0.71	0.79	0.68	0.70	0.70
Malaysia	0.63	0.48	0.50	0.70	0.75	0.89	0.80	0.88
Nigeria	1.91	1.90	1.48	1.37	1.78	1.60	1.60	1.60
Philippines	1.18	1.25	1.30	1.10	1.89	1.79	1.90	2.25
Russian Federation	0.25	0.41	0.39	0.35	0.35	0.36	0.25	0.23
Saudi Arabia	1.05	0.94	1.15	1.50	1.36	1.45	0.96	1.02
World **c**	24.45	27.87	27.58	27.18	29.23	29.48	31.93	29.24
Exports								
Australia	0.63	0.57	0.63	0.35	0.28	0.20	0.48	0.24
China	1.85	1.96	2.58	0.88	0.88	0.66	1.22	1.34
European Union **b**	0.27	0.36	0.22	0.19	0.20	0.14	0.14	0.15
India	1.94	6.65	4.42	3.17	4.69	4.54	6.30	2.95
Myanmar	0.67	1.00	0.39	0.13	0.19	0.05	0.03	0.45
Pakistan	2.42	1.60	1.96	1.99	1.99	3.03	3.58	2.70
Thailand	7.52	7.25	7.55	10.14	10.14	7.27	7.38	9.56
United States	2.54	3.30	3.83	3.09	3.86	3.31	3.03	3.50
Viet Nam	3.53	3.25	3.80	4.30	4.30	5.17	4.71	4.52
World **c**	24.45	27.87	27.58	27.18	29.23	29.48	31.93	29.24

a Milled basis. **b** Regarded as twenty seven countries. Includes intra-EU trade. **c** Includes intra-EU trade.

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

204 US rice supply and disposal a

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Area harvested	million ha	1.23	1.34	1.30	1.21	1.35	1.36	1.14	1.11
Yield	t/ha	7.04	7.28	7.36	7.50	7.81	7.45	7.69	8.05
Opening stocks **b**	Mt	0.87	0.89	1.22	0.83	0.76	1.21	1.37	1.27
Production **b**	Mt	5.94	6.71	6.54	6.42	7.46	7.11	6.24	6.31
Total supply **c**	Mt	7.15	8.02	8.22	7.73	8.64	8.87	8.26	8.34
Exports	Mt	2.64	4.30	5.65	4.67	4.93	5.21	4.11	4.90
Long grain	Mt	2.05	3.35	4.51	3.66	3.80	4.17	3.27	3.72
Medium–short grain	Mt	0.59	0.95	1.14	1.01	1.13	1.04	0.85	1.18
Domestic and residual use	Mt	3.68	3.85	3.53	3.66	3.94	3.84	4.07	3.95
Total use	Mt	7.15	8.02	8.22	7.73	8.64	8.87	8.26	8.34
Target price **d**	US$/t	na	na	232	232	232	na	na	na
Statutory loan rate	US$/t	143	143	143	143	143	143	143	143
Farm price	US$/t	124	94	99	178	162	169	220	282

a August–July marketing year. **b** Milled basis. **c** Includes imports. **d** Authorised under the Food Security and Rural Investment Act of 2002. **na** Not applicable or not available.

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; ABARE.

205 Rice export price quotations, by country a

	Thailand Nominal price quote-US b	Arkansas c	California d
	US$/t	US$/t	US$/t
1983-84	278.33	411.25	340.34
1984-85	211.29	397.45	336.20
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	619.00	693.83
2007			
January	320.00	420.00	551.00
February	323.00	417.00	551.00
March	327.00	405.00	551.00
April	324.00	400.00	551.00
May	325.00	397.00	551.00
June	331.00	397.00	536.00
July	335.00	392.00	529.00
August	334.00	395.00	535.00
September	332.00	413.00	576.00
October	336.00	446.00	584.00
November	349.00	475.00	584.00
December	368.00	496.00	584.00
2008			
January	384.00	518.00	590.00
February	474.00	565.00	595.00
March	615.00	646.00	595.00
April	929.00	816.00	758.00
May	949.00	926.00	926.00
June	789.00	878.00	963.00
July	756.00	854.00	1 036.00
August	709.00	802.00	1 061.00

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. Prior to 1984-85 quoted form Thailand Board of Trade. **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); ABARE.

206 Rice supply and disposal in major exporting countries a

	Area harvested	Yield	Production b	Domestic use	Exports c	Closing stocks d
	million ha	t/ha	Mt	Mt	Mt	Mt
China						
2002-03	28.20	6.19	174.54	135.70	0.88	63.31
2003-04	26.51	6.06	160.66	132.10	0.88	43.92
2004-05	28.38	6.31	179.09	130.30	0.66	38.93
2005-06	28.85	6.26	180.59	128.00	1.22	36.78
2006-07	28.94	6.28	181.71	127.20	1.34	35.92
2007-08	28.92	6.43	186.03	127.50	1.00	37.94
Viet Nam						
2002-03	7.46	4.37	32.62	17.45	4.30	1.17
2003-04	7.47	4.48	33.46	18.23	4.30	1.03
2004-05	7.45	4.62	34.42	17.60	5.17	1.29
2005-06	7.31	4.72	34.50	18.39	4.71	1.32
2006-07	7.20	4.82	34.73	18.78	4.52	1.39
2007-08	7.39	4.97	36.69	19.35	4.75	1.91
Pakistan						
2002-03	2.23	3.02	6.72	2.55	1.99	0.25
2003-04	2.46	2.96	7.27	2.60	1.99	0.64
2004-05	2.52	2.99	7.54	2.55	3.03	0.31
2005-06	2.62	3.18	8.32	1.90	3.58	0.30
2006-07	2.58	3.18	8.18	2.21	2.70	0.70
2007-08	2.55	3.35	8.55	2.45	3.00	0.95
Thailand						
2002-03	10.16	2.56	26.06	9.46	10.14	3.30
2003-04	10.32	2.64	27.29	9.47	10.14	1.71
2004-05	10.00	2.63	26.30	9.48	7.27	2.31
2005-06	10.22	2.70	27.58	9.54	7.38	3.59
2006-07	10.27	2.69	27.65	9.78	9.56	2.51
2007-08	10.60	2.76	29.24	9.60	10.00	2.22
United States						
2002-03	1.30	7.36	9.57	3.53	3.09	0.83
2003-04	1.21	7.50	9.07	3.66	3.86	0.76
2004-05	1.35	7.81	10.54	3.94	3.31	1.21
2005-06	1.36	7.45	10.13	3.84	3.03	1.37
2006-07	1.14	7.69	8.79	4.07	3.50	1.27
2007-08	1.11	8.05	8.96	3.95	3.30	0.94
World						
2002-03	145.91	3.86	563.80	406.00	27.18	103.29
2003-04	148.62	3.94	584.98	411.95	29.23	81.15
2004-05	150.53	3.97	597.33	406.90	29.48	73.15
2005-06	152.57	4.09	623.41	412.03	31.93	75.68
2006-07	154.20	4.07	627.28	417.84	29.24	75.38
2007-08	155.62	4.13	642.81	424.38	30.37	78.39

a Simple aggregation of different crop years. The marketing period in each country is: United States, August–July; Thailand, August–July; China, December–November; Pakistan, October–September; Viet Nam, July–June. **b** Paddy. **c** On a calendar year basis: 1999-00 =2000; includes 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; ABARE.

207 Summary of Australian statistics for sugar

	Area harvested	Cane crushed	Sugar production a	No. 1 pool price	Exports
	'000 ha	kt	kt	$/t	kt
1961-62	157	9 730	1 362	98.9	857
1962-63	163	12 940	1 823	104.5	1 164
1963-64	169	12 313	1 699	120.7	1 134
1964-65	190	15 312	1 921	96.8	1 290
1965-66	204	14 382	1 924	85.7	1 273
1966-67	226	16 953	2 307	76.0	1 664
1967-68	224	17 025	2 300	83.1	1 622
1968-69	230	18 708	2 684	88.2	2 062
1969-70	213	15 784	2 146	100.3	1 386
1970-71	221	17 645	2 448	102.8	1 571
1971-72	234	19 391	2 708	111.8	2 008
1972-73	242	18 928	2 732	118.7	2 084
1973-74	226	19 278	2 449	129.9	1 781
1974-75	253	20 418	2 761	252.7	1 996
1975-76	257	21 959	2 769	232.2	2 000
1976-77	288	23 344	3 194	214.1	2 556
1977-78	295	23 493	3 240	196.4	2 478
1978-79	252	21 457	2 812	213.2	1 840
1979-80	267	21 151	2 871	281.7	2 201
1980-81	288	23 976	3 227	376.0	2 558
1981-82	316	25 094	3 329	275.0	2 498
1982-83	318	24 817	3 428	223.0	2 548
1983-84	307	24 190	3 073	259.0	2 357
1984-85	313	25 512	3 439	226.0	2 524
1985-86	304	24 414	3 275	223.3	2 799
1986-87	310	25 413	3 268	275.0	2 471
1987-88	317	25 669	3 334	287.0	2 776
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	4 153
2005-06	398	37 128	5 063	322.2	3 883
2006-07	409	36 397	5 026	368.0	3 714
2007-08	403	35 011	4 763	275.0	3 570

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; ABARE.

208 Australian cane and sugar production

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Area harvested for crushing	'000 ha	426	448	448	434	398	409	403
Cane yield	t/ha harvested	73.8	82.6	82.6	87.1	93.3	89.0	87.0
Cane crushed	kt	31 424	36 995	36 993	37 822	37 128	36 397	35 011
Commercial cane sugar	%	14.09	14.10	13.49	13.90	13.39	13.70	13.80
Sugar production **a**	kt	4 987	5 398	5 045	5 234	5 063	5 026	4 763
Sugar yield	t/ha harvested	11.7	12.1	11.3	12.1	12.7	12.3	11.8
Cane to sugar ratio		6.30	6.85	7.33	7.23	7.33	7.24	7.35
Gross value of sugarcane cut for crushing	$m	989	1 019	854	980	1 032	1 183	933

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; ABARE.

209 Volume of Australian exports of sugar, by destination

	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt	2006-07 kt	2007-08 p kt
Raw sugar in bulk								
Canada	512.1	477.5	329.3	381.2	332.9	110.0	50.0	na
China	60.0	230.0	367.7	99.8	179.0	192.9	59.8	na
Chinese Taipei	120.3	122.7	157.5	133.6	279.0	306.0	238.0	na
Egypt	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na
Indonesia	55.5	66.6	163.7	152.3	362.2	529.8	536.9	na
Iran	80.0	0.0	84.0	0.0	0.0	227.5	0.0	na
Japan	474.5	762.6	729.0	518.1	434.7	493.2	610.5	na
Korea, Rep. of	504.8	569.8	795.4	980.3	1 003.5	1 066.5	1 004.5	na
Malaysia	654.9	771.1	798.8	1 015.6	1 026.9	469.0	520.0	na
New Zealand	209.5	245.6	218.6	220.4	243.6	192.2	220.6	na
Philippines	0.0	0.0	30.0	0.0	0.0	0.0	0.0	na
Saudi Arabia	171.7	169.3	212.0	219.5	132.0	132.0	132.0	na
Singapore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	na
United States	62.9	83.2	88.0	108.3	83.5	126.7	130.0	na
Other countries	60.1	0.5	0.8	102.8	76.1	50.1	17.8	na
Total	2 966	3 499	3 975	3 932	4 153	3 896	3 520	na
Raw sugar in bags	7.2	6.3	7.0	7.0	3.7	1.9	2.4	2.1
Refined sugar	113.1	138.5	185.6	121.6	113.7	169.5	191.2	218.9
Total	3 087	3 644	4 167	4 061	4 271	4 067	3 714	3 600
(value, $m)	1 178	1 430	1 220	982	1 140	1 597	1 510	941

p Preliminary. **na** Not available.

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

210 World sugar supplies, consumption, trade and prices a

	Production	Total supply	Consumption	Closing stocks	Ratio b	Trade c	World price d US terms	World price d Australian terms
	Mt	Mt	Mt	Mt	%	Mt	USc/lb	A$/t e
1965-66	63.1	81.9	na	na	na	na	na	na
1966-67	65.6	84.8	na	na	na	na	na	na
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)	39.4	9.3	393.3
2001-02	137.3	195.6	135.6	56.9	(44.2)	43.5	6.8	281.8
2002-03	148.3	208.3	140.8	49.4	(46.9)	43.6	7.5	270.4
2003-04	142.2	209.1	144.5	63.8	(44.7)	45.0	6.6	201.4
2004-05	141.6	209.0	146.9	58.0	(41.6)	48.1	9.0	258.8
2005-06	152.1	220.7	152.6	55.5	(40.2)	48.1	14.7	439.2
2006-07	162.6	222.6	156.9	64.5	(38.3)	46.1	10.6	284.8
2007-08	169.0	225.4	160.5	73.0	(37.0)	49.7	13.0	231.5

a Raw sugar equivalent; October–September years. **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 Organisation, *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; ABARE.

211 World sugar production, by region and country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Europe	27.73	26.08	27.99	27.12	29.72	29.22	27.48	27.17
Eastern Europe	6.44	6.07	6.36	6.86	5.58	6.16	7.77	6.83
Poland **b**	2.18	1.69	2.01	2.08	na	na	na	na
Russian Federation	1.73	1.72	1.86	2.19	2.45	2.83	3.52	3.42
Ukraine	1.72	1.83	1.55	1.68	1.95	2.06	2.70	1.94
Other	0.81	0.84	0.94	0.92	1.18	1.28	1.55	1.48
Western Europe	21.29	20.00	21.62	20.26	24.14	23.05	19.57	20.34
European Union **c**	17.50	16.58	17.79	16.83	22.11	20.60	17.41	17.98
Turkey	2.43	1.86	2.27	1.98	2.03	2.23	1.96	2.10
Other	1.37	1.57	1.56	1.45	0.24	0.22	0.20	0.27
Africa	9.35	9.40	9.36	9.44	9.79	9.70	11.11	10.23
Mauritius	0.69	0.58	0.55	0.55	0.59	0.54	0.47	0.50
South Africa	2.65	2.45	2.55	2.30	2.40	2.25	2.37	2.48
Other	6.02	6.38	6.26	6.59	6.79	6.90	6.95	7.26
Americas	47.24	50.96	52.71	55.00	57.60	58.20	59.29	60.70
Brazil	19.07	22.72	25.19	25.92	28.08	31.96	31.65	31.59
Colombia	2.25	2.50	2.64	2.72	2.63	2.42	2.34	2.44
Cuba	3.60	3.70	2.25	2.50	1.42	1.25	1.20	1.40
Guatemala	1.65	1.95	1.85	2.00	2.18	1.91	2.28	2.18
Mexico	5.24	5.17	5.34	5.36	6.10	5.50	5.55	5.71
United States	7.91	7.17	7.63	7.85	7.17	6.71	7.67	7.70
Other	7.53	7.75	7.66	7.89	8.16	8.44	8.60	8.88
Asia	41.48	45.92	52.47	45.30	41.96	45.95	62.32	63.85
China	6.73	9.30	11.35	10.78	9.95	9.59	13.04	13.95
India	19.75	19.56	21.73	14.70	13.95	20.94	30.70	29.90
Indonesia	1.78	1.90	1.83	2.01	2.30	2.45	2.65	2.54
Pakistan	2.65	3.20	3.83	4.30	3.30	3.21	3.88	4.35
Philippines	1.88	1.95	2.23	2.41	2.25	2.23	2.28	2.44
Thailand	5.44	6.50	7.67	6.94	5.43	5.08	7.01	7.75
Other	3.26	3.53	3.84	4.17	4.18	2.46	2.77	2.92
Oceania	4.88	4.92	5.78	6.19	5.36	5.62	5.24	5.00
Australia	4.47	4.58	5.40	5.81	4.98	5.29	4.90	4.65
Fiji	0.37	0.29	0.33	0.32	0.33	0.29	0.31	0.31
Other	0.04	0.05	0.05	0.06	0.05	0.04	0.04	0.04
Total	130.68	137.28	148.32	142.20	141.64	152.08	162.62	169.00

a Raw sugar equivalent, October-September year. **b** Poland joined the enlarged EU-25 from 1 May 2004. **c** Regarded as fifteen countries to 2003-04, twenty five countries from 2004-05, then twenty seven countries from 2006-07. **na** Not available.

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

212 Volume of world sugar trade, by country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Australia	3.15	3.96	3.81	3.85	4.30	3.87	3.82	3.78
Brazil	9.97	13.47	13.16	15.98	19.15	16.87	21.53	19.41
China	0.09	0.44	0.10	0.04	0.32	0.20	0.12	0.16
Colombia	0.95	1.15	1.32	1.26	1.17	0.89	0.96	0.70
Cuba	2.93	3.07	1.80	1.94	0.77	0.73	0.73	0.90
Dominican Republic	0.17	0.18	0.18	0.18	0.18	0.19	0.21	0.22
European Union **b**	9.13	6.78	8.61	7.15	9.42	12.60	5.95	6.17
Fiji	0.33	0.25	0.28	0.26	0.32	0.27	0.24	0.20
Guatemala	1.37	1.33	1.26	1.51	1.10	1.55	1.32	1.28
Guyana	0.27	0.28	0.30	0.32	0.26	0.24	0.24	0.26
India	1.31	1.35	1.21	0.49	0.08	1.46	2.66	4.05
Korea, Rep. of	0.32	0.32	0.32	0.35	0.32	0.32	0.40	0.34
Mauritius	0.62	0.63	0.54	0.59	0.57	0.54	0.45	0.53
Mexico	0.12	0.58	0.17	0.10	0.28	0.87	0.17	0.72
Poland **c**	0.43	0.07	0.46	0.52	na	na	na	na
South Africa	1.47	1.25	1.04	0.97	1.05	1.14	0.69	1.07
Swaziland	0.60	0.48	0.55	0.56	0.70	0.63	0.62	0.62
Thailand	3.56	4.47	5.01	5.11	3.39	2.13	4.56	4.24
Ukraine	0.11	0.13	0.36	0.31	0.05	0.03	0.01	0.00
United States	0.11	0.11	0.13	0.13	0.21	0.20	0.38	0.30
Other countries	8.28	8.43	9.21	10.81	10.40	11.60	11.51	10.35
Total **d**	45.30	48.72	49.81	52.42	54.07	56.32	56.55	55.29
Imports								
Algeria	0.95	0.10	1.10	1.04	1.13	1.13	1.11	1.23
Canada	1.23	1.24	1.33	1.41	1.35	1.24	1.16	1.45
China	1.03	1.33	0.81	1.20	1.32	1.20	1.43	1.19
Egypt	0.91	0.18	1.02	1.18	1.21	1.03	1.03	1.09
European Union **b**	5.32	5.21	5.66	6.13	6.72	8.72	7.02	8.20
Indonesia	1.43	2.23	2.07	2.31	1.86	1.64	2.78	1.76
Iran	1.00	1.01	0.95	0.61	0.59	1.45	1.80	1.50
Israel	0.51	0.54	0.60	0.62	0.62	0.64	0.64	0.63
Japan	1.55	1.47	1.55	1.43	1.33	1.39	1.41	1.47
Korea, Rep. of	1.53	1.52	1.54	1.62	1.61	1.55	1.49	1.56
Malaysia	1.15	1.39	1.38	1.52	1.47	1.38	1.76	1.61
Morocco	0.51	0.52	0.61	0.59	0.63	0.66	0.72	0.72
Nigeria	1.08	1.42	1.51	1.36	1.40	1.38	1.26	1.40
Pakistan	1.27	0.11	0.04	0.07	0.85	1.98	0.65	0.30
Russian Federation	5.20	5.16	5.24	4.14	3.80	3.37	3.20	2.75
Saudi Arabia	0.83	0.93	0.95	1.13	1.24	1.26	1.25	1.29
Syria	0.93	1.05	1.12	1.16	1.12	1.09	1.00	1.04
Ukraine	0.41	0.32	1.50	0.55	0.35	0.07	0.02	0.11
United States	1.44	1.32	1.57	1.54	1.82	3.17	1.94	2.36
Other countries	14.31	16.59	15.96	18.01	20.58	19.73	20.06	19.83
Total **d**	43.89	44.93	48.41	49.14	50.99	54.10	51.71	51.46

a Includes both raw and white sugar measured in raw sugar equivalents, October-September years. **b** Regarded as fifteen countries to 2003-04, twenty five countries from 2004-05, then twenty seven countries from 2006-07. **c** Included in European Union from 2004-05. **d** 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. **na** Not available.

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

213 Summary of Australian statistics for wheat a

			Production		Exports b			
	Area c	Yield	Volume c	Unit value	Volume	Unit value d	Domestic use ef	Closing stocks fg
	'000 ha	t/ha	kt	$/t	kt	$/t	kt	kt
1969-70	9 485	1.11	10 547	50.4	8 185	49.0	2 403	7 217
1970-71	6 478	1.22	7 890	51.1	9 049	48.0	2 654	3 404
1971-72	7 137	1.19	8 510	54.4	7 760	50.0	2 703	1 451
1972-73	7 604	0.87	6 590	54.1	4 137	51.0	3 426	478
1973-74	8 948	1.34	11 987	109.4	7 418	102.0	3 165	1 882
1974-75	8 307	1.37	11 357	110.6	8 550	132.0	3 031	1 658
1975-76	8 555	1.40	11 982	104.3	8 233	122.0	2 742	2 665
1976-77	8 956	1.30	11 667	90.1	9 763	109.0	2 432	2 137
1977-78	9 955	0.94	9 370	99.8	8 098	93.0	2 629	780
1978-79	10 249	1.77	18 090	126.9	11 693	116.0	2 531	4 646
1979-80	11 152	1.45	16 188	153.1	13 197	146.0	3 369	4 268
1980-81	11 283	0.96	10 856	155.1	9 614	164.0	3 466	2 044
1981-82	11 885	1.38	16 360	158.9	11 068	158.0	2 457	4 879
1982-83	11 520	0.77	8 876	176.5	7 280	168.0	4 190	2 285
1983-84	12 800	1.72	22 016	163.8	14 159	172.0	2 641	7 501
1984-85	12 045	1.55	18 665	171.6	14 659	183.0	3 081	8 426
1985-86	11 736	1.39	16 259	165.7	16 331	185.0	2 526	5 828
1986-87	11 135	1.46	16 308	147.8	15 658	147.0	2 763	3 715
1987-88	9 005	1.37	12 368	161.9	9 993	145.0	3 367	2 723
1988-89	8 827	1.59	14 061	209.8	11 427	214.4	2 888	2 469
1989-90	9 004	1.58	14 214	195.2	10 993	213.0	2 416	3 274
1990-91	9 218	1.63	15 066	132.0	12 002	136.5	3 239	3 099
1991-92	7 183	1.47	10 557	200.2	7 136	202.4	4 095	2 426
1992-93	9 101	1.78	16 184	165.9	10 359	206.8	4 186	4 065
1993-94	8 383	1.97	16 479	174.0	13 818	174.7	3 900	2 826
1994-95	7 891	1.14	8 972	237.1	6 351	234.1	3 916	1 531
1995-96	9 221	1.79	16 504	260.8	13 319	286.4	4 111	604
1996-97	10 936	2.10	22 924	212.8	19 224	226.9	3 559	745
1997-98	10 439	1.84	19 224	197.7	15 725	240.9	4 111	132
1998-99	11 543	1.86	21 464	186.9	16 450	203.3	4 449	698
1999-00	12 168	2.03	24 758	195.1	17 838	205.4	4 786	2 832
2000-01	12 141	1.82	22 108	232.1	16 142	267.9	4 887	3 911
2001-02	11 529	2.11	24 298	261.6	16 318	277.9	5 018	6 873
2002-03	11 170	0.91	10 132	265.7	9 107	283.1	5 515	2 384
2003-04	13 067	2.00	26 132	215.7	17 868	231.1	5 738	4 910
2004-05	13 399	1.63	21 905	197.1	14 675	213.7	6 024	6 116
2005-06	12 443	2.02	25 150	202.8	15 969	221.6	6 623	8 675
2006-07	11 798	0.92	10 822	242.0	8 685	266.5	7 404	3 407
2007-08	12 344	1.06	13 039	420.2	7 460	451.0	6 532	2 455

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 $2 500 or more until 1985-86; EVAO of $5 000 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 $5 000 or more from 1993-94. **d** Export unit value based on financial year exports until 1987-88 and crop year exports thereafter. **e** Calculated as production less exports plus net change in stocks. Includes wastage. **f** Some ABARE estimates have been revised based on additional industry information. ABARE is continuing to investigate data. **g** Includes 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 Australian Commodities Produced,* Cat. no. 7503.0, Canberra; ABARE.

214 Australian wheat area, yield and production, by state

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia a
Area b								
1994-95	'000 ha	1 424	822	401	3 848	1 395	1	7 891
1995-96	'000 ha	2 328	853	627	3 892	1 519	1	9 221
1996-97	'000 ha	3 192	963	980	4 264	1 535	2	10 936
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	4 000	1 500	580	4 100	2 156	9	12 344
Yield								
1994-95	t/ha	0.61	1.15	0.56	1.41	1.07	2.19	1.14
1995-96	t/ha	1.94	2.25	0.83	1.75	1.79	3.86	1.79
1996-97	t/ha	2.62	2.35	2.02	1.76	1.82	4.00	2.10
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	0.45	1.23	1.57	1.49	1.09	3.67	1.06
Production b								
1994-95	kt	875	944	225	5 438	1 487	3	8 972
1995-96	kt	4 508	1 921	519	6 827	2 724	4	16 504
1996-97	kt	8 363	2 262	1 980	7 516	2 795	8	22 924
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	1 800	1 850	910	6 100	2 346	33	13 039

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 $5 000.

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.

215 Volume of Australian exports of wheat and flour, by destination [a]

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Egypt	957	1 680	602	2 534	752	1 818	251	284
Ethiopia	35	10	24	29	0	8	0	0
South Africa	141	98	48	247	183	85	0	0
Asia								
Bangladesh	252	133	130	141	162	179	3	65
China	60	46	38	755	1 893	303	183	2
India	7	0	0	4	0	93	1 593	9
Indonesia	2 192	2 097	1 686	2 647	2 720	3 016	2 574	1 621
Japan	1 161	1 195	1 134	1 250	1 171	1 106	1 114	878
Korea, Rep. of	1 139	953	1 014	1 065	1 213	1 002	989	694
Malaysia	775	682	370	737	888	780	629	623
Pakistan	0	0	9	140	653	146	0	0
Singapore	98	95	65	48	118	68	70	75
Sri Lanka	262	209	117	132	66	46	0	5
Thailand	272	285	291	422	478	545	192	255
Middle East								
Bahrain	44	0	0	6	3	0	5	0
Iran	2 352	2 420	1 064	0	0	425	41	0
Iraq	2 587	2 245	1 037	1 111	1 550	715	362	198
Kuwait	180	230	175	259	305	341	250	233
Oman	136	114	27	91	63	86	0	0
Qatar	28	0	0	0	0	61	64	72
United Arab Emirates	399	226	142	196	241	525	99	144
Yemen	507	450	412	198	314	499	385	408
Oceania								
Fiji	93	102	120	122	134	131	146	132
New Zealand	191	305	308	314	339	313	350	275
Papua New Guinea	136	110	130	99	134	155	148	153
Total	16 621	16 465	10 845	15 074	15 780	15 168	11 196	7 421
(value, $m)	4 197	4 612	3 109	3 475	3 488	3 296	2 765	2 997

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.

216 Australian wheat supply and disposal a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Opening stocks	2 832	3 911	6 873	2 384	4 910	6 116	8 675	3 407
Production	22 108	24 298	10 132	26 132	21 905	25 150	10 822	13 039
Availability	24 940	28 209	17 005	28 516	26 815	31 266	19 497	16 447
Total domestic use **b**	4 887	5 018	5 515	5 738	6 024	6 623	7 404	6 532
Food	2 368	2 415	2 427	2 518	2 342	2 361	2 287	2 354
Feed **c**	2 000	2 100	2 500	2 550	3 060	3 672	4 500	3 500
Seed	519	503	588	670	622	590	617	678
Exports								
Wheat	15 888	16 075	8 926	17 582	14 349	15 670	8 406	7 213
Flour **d**	255	242	180	286	325	298	279	247
Total	16 142	16 318	9 107	17 868	14 675	15 969	8 685	7 460
Closing stocks **b**	3 911	6 873	2 384	4 910	6 116	8 675	3 407	2 455

a 1 October to 30 September. **b** Some ABARE estimates have been revised based on additional industry information. ABARE is continuing to investigate data. **c** Calculated as residual: production less exports less other domestic uses plus net change in stocks. **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; ABARE.

217 Australian wheat prices a

	AWB Limited export quote a		Stock feed wheat b	Unit GVP
	US$/t	A$/t	A$/t	A$/t
1966-67	na	na	57.50	54.33
1967-68	na	na	60.81	57.70
1968-69	na	na	62.83	49.40
1969-70	na	na	63.38	50.36
1970-71	na	51.00	63.93	51.15
1971-72	na	49.00	54.75	54.35
1972-73	90.00	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	146.00	116.00	99.32	104.26
1976-77	114.00	99.00	105.40	90.06
1977-78	118.00	105.00	111.60	99.77
1978-79	143.00	126.00	116.61	126.91
1979-80	169.00	152.00	140.50	153.07
1980-81	180.00	155.00	151.37	155.13
1981-82	165.00	149.00	149.78	158.89
1982-83	164.00	175.00	184.11	176.45
1983-84	154.00	170.00	175.24	163.77
1984-85	150.00	194.00	204.36	171.60
1985-86	133.00	190.00	193.82	165.67
1986-87	110.00	166.00	170.12	147.80
1987-88	125.00	172.00	189.54	161.93
1988-89	172.00	212.00	221.84	209.82
1989-90	168.00	218.00	169.08	195.24
1990-91	126.58	161.07	132.33	131.96
1991-92	160.33	208.77	159.67	200.16
1992-93	155.67	222.97	143.50	165.94
1993-94	153.75	223.70	137.58	173.97
1994-95	175.08	236.97	232.75	237.09
1995-96	230.42	304.56	236.24	260.83
1996-97	206.67	264.92	188.38	212.79
1997-98	167.00	246.22	185.93	197.75
1998-99	146.91	234.65	155.38	186.87
1999-00	136.42	216.66	153.63	195.14
2000-01	153.97	285.88	171.83	232.06
2001-02	157.58	301.02	211.97	261.60
2002-03	185.03	316.46	309.69	265.68
2003-04	183.56	257.71	220.74	215.67
2004-05	175.43	233.55	194.66	197.06
2005-06	195.08	261.64	192.15	202.75
2006-07	231.90	295.95	289.44	241.96
2007-08	na	na	428.04	420.18

a Average of daily asking prices for Australian standard white wheat fob eastern states for the relevant financial year. AWB ceased quoting the Australian standard white wheat price as at September 2007. **b** Administered pricing of domestic wheat ceased after the 1988-89 season. Sydney cash price, ASW (July–June average) from 1989-90. **na** Not available.

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

218 Summary of world statistics for wheat

	Area	Production	Use	Closing stocks World a	Closing stocks Exporters b	Stocks to use ratio	Trade c	Use per person	Price d
	million ha	Mt	Mt	Mt	Mt	%	Mt	kg	US$/t
1961-62	202	227	236	73	54	31	47	77	63.00
1962-63	206	258	248	83	55	33	43	80	64.00
1963-64	209	241	252	72	46	29	56	79	66.00
1964-65	217	276	262	86	46	33	51	81	64.00
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	367	71	28	19	68	96	91.00
1973-74	221	376	360	87	26	24	63	93	177.00
1974-75	223	364	368	83	30	23	63	93	164.00
1975-76	227	359	362	80	38	22	66	90	152.00
1976-77	234	425	384	121	56	32	62	93	113.00
1977-78	228	386	409	98	53	24	72	98	116.00
1978-79	230	451	429	120	56	28	72	101	141.00
1979-80	229	429	448	101	49	23	86	103	175.00
1980-81	237	445	449	97	47	22	94	101	183.00
1981-82	240	454	447	104	59	23	101	99	170.00
1982-83	239	482	465	121	70	26	96	101	160.00
1983-84	231	494	483	132	66	27	100	104	154.00
1984-85	232	513	503	147	73	29	103	105	148.00
1985-86	231	500	495	157	85	32	84	103	128.00
1986-87	229	531	529	176	83	33	90	108	110.50
1987-88	221	505	537	150	61	28	107	108	123.40
1988-89	220	500	538	116	39	22	98	106	165.75
1989-90	226	537	532	120	36	23	95	102	160.83
1990-91	230	592	562	145	55	26	92	106	117.94
1991-92	221	543	556	133	48	24	108	103	150.96
1992-93	221	562	550	145	55	26	105	101	141.33
1993-94	220	557	562	142	45	25	93	101	141.52
1994-95	215	524	549	170	31	31	92	97	156.42
1995-96	219	541	549	162	29	30	96	97	215.33
1996-97	231	582	577	168	36	29	99	99	178.50
1997-98	228	610	582	195	52	33	99	99	141.75
1998-99	225	586	579	202	54	35	99	98	119.08
1999-00	217	585	582	205	52	35	109	97	113.17
2000-01	218	582	584	204	53	35	102	97	128.50
2001-02	213	581	585	200	47	34	107	96	127.51
2002-03	213	566	601	165	44	28	106	97	160.46
2003-04	208	557	596	126	41	21	103	95	160.49
2004-05	217	628	615	139	56	23	110	97	153.87
2005-06	217	621	624	135	55	22	109	97	176.28
2006-07	209	598	611	122	39	20	110	94	211.91
2007-08	215	610	614	118	29	19	110	95	362.08

a Sum of individual closing stocks at the end of respective national crop years. China not included before 1983-84. **b** United States, European Union, Canada, Australia and Argentina. **c** July–June year. Excludes intra-EU trade. **d** For US hard red winter wheat, (Ord.), fob Gulf.

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

219 World wheat production, by country

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Algeria	0.8	2.0	1.5	3.0	2.7	2.4	3.0	2.8
Egypt	6.6	6.3	6.8	6.8	7.2	8.1	8.3	7.4
Morocco	1.4	3.3	3.4	5.1	5.5	3.0	6.3	1.6
South Africa	2.4	2.5	2.4	1.5	1.7	1.9	2.1	1.9
Americas								
Argentina	16.5	15.3	12.3	14.6	16.0	12.6	14.6	16.3
Brazil	1.7	3.2	2.9	5.9	6.0	4.9	2.2	3.8
Canada	26.8	20.6	16.2	23.6	25.9	26.8	25.3	20.1
Mexico	3.3	3.3	3.3	2.9	2.9	3.0	3.4	3.5
United States	60.6	53.0	43.7	58.7	57.3	49.3	49.3	56.2
Asia								
China	99.7	93.9	90.3	86.5	92.0	97.5	108.5	109.9
India	76.4	69.7	71.8	65.1	72.1	68.6	69.4	75.8
Japan	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9
Kazakhstan	9.1	12.7	12.8	11.5	9.9	11.0	12.5	16.6
Pakistan	21.1	19.0	18.2	19.2	19.5	21.7	21.7	23.3
Uzbekistan	3.6	3.2	4.8	5.4	4.7	6.1	5.8	6.2
Europe								
Bulgaria	3.3	3.1	3.5	1.7	3.6	3.5	3.2	2.3
Czech Republic	4.1	4.5	3.8	2.6	5.0	4.1	3.5	4.0
European Union **a**	104.4	90.5	103.2	90.8	136.1	122.7	125.1	119.7
France	37.5	31.4	39.0	30.5	39.7	37.0	35.4	32.8
Germany	21.6	22.8	20.8	19.3	25.4	23.7	22.4	20.8
Italy	6.9	6.2	7.5	6.2	8.6	7.3	6.5	7.3
Spain	7.3	4.7	6.3	6.1	6.8	3.3	5.6	6.3
Sweden	2.4	2.3	2.1	2.3	2.4	2.3	2.0	2.3
United Kingdom	16.8	11.6	16.1	14.3	15.5	14.9	14.7	13.1
Hungary	3.7	5.2	3.9	2.9	6.0	5.1	4.4	4.0
Poland	8.5	9.3	9.3	7.9	9.9	8.8	7.1	8.3
Romania	4.4	7.7	4.4	2.5	7.8	7.6	5.0	2.9
Russian Federation	34.5	46.9	50.6	34.1	45.4	47.7	45.0	49.4
Serbia and Montenegro	2.3	2.5	2.2	1.4	2.8	2.0	1.9	2.0
Slovakia	1.3	1.8	1.6	0.9	1.7	1.6	1.4	1.5
Ukraine	10.2	21.0	19.8	3.6	16.5	18.7	13.8	13.9
Middle East								
Iran	7.0	7.5	12.5	13.5	14.0	14.5	14.8	15.0
Saudi Arabia	1.8	2.0	2.0	2.0	2.1	2.2	2.7	2.5
Syria	2.7	4.7	4.5	4.7	4.5	4.7	4.9	4.1
Turkey	17.5	15.5	17.3	18.5	18.5	18.0	17.5	15.5
Oceania								
Australia	22.1	24.3	10.1	26.1	21.9	25.2	10.8	13.0
Total **b**	582.3	581.3	566.0	557.0	628.0	621.0	598.0	609.8

a Regarded as fifteen countries to 2002-03, twenty five countries from 2003-04, then twenty seven countries from 2005-06. Production totals for individual EU countries sourced from International Grains Council. **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, *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; ABARE.

220 Volume of world wheat trade, by country a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	5.6	4.6	6.1	3.9	5.3	5.4	4.9	5.8
Egypt	6.1	6.9	6.4	7.3	7.9	7.7	7.1	7.7
Morocco	3.6	3.1	2.7	2.4	2.3	2.4	1.8	4.2
Nigeria	1.9	2.4	2.3	2.4	3.1	3.7	3.2	2.6
Tunisia	1.6	1.3	2.2	0.8	1.0	1.0	1.4	2.3
Americas								
Brazil	7.2	7.0	6.7	5.7	5.5	6.2	7.9	7.2
Cuba	0.0	1.1	0.8	0.7	0.8	0.8	0.7	0.9
Mexico	3.1	3.2	3.2	3.6	3.6	3.4	3.6	3.1
Peru	1.5	1.4	1.2	1.5	1.4	1.7	1.4	1.4
Venezuela	1.4	1.4	1.0	1.5	1.5	1.6	1.8	1.4
Asia								
Bangladesh	1.3	1.6	1.3	2.0	1.8	2.0	1.7	1.5
China	0.2	1.1	0.4	3.7	6.8	1.0	0.4	0.2
Chinese Taipei	1.0	1.0	1.0	1.2	1.1	1.2	1.1	1.3
India	0.4	0.0	0.0	0.0	0.0	0.1	6.7	1.9
Indonesia	4.1	3.7	4.0	4.8	4.8	5.1	5.7	5.2
Japan	5.9	5.8	5.6	5.8	5.4	5.4	5.6	5.7
Korea, Rep. of	3.1	4.0	4.1	3.4	3.6	3.8	3.2	3.0
Pakistan	0.0	0.2	0.2	0.2	1.4	0.9	0.1	1.5
Philippines	3.1	2.9	3.2	3.0	2.5	2.9	2.7	2.3
Europe								
European Union **b**	4.7	10.7	13.9	5.6	7.1	7.0	5.3	6.7
Russian Federation	1.6	0.6	1.0	1.0	1.1	1.3	0.8	0.3
Ukraine	0.7	0.0	0.8	3.4	0.0	0.1	0.1	0.3
Middle East								
Iran	6.3	5.3	2.1	0.2	0.2	1.0	0.3	0.2
Iraq	3.2	2.8	1.6	1.9	3.1	4.9	2.9	3.5
Turkey	0.5	1.0	1.2	1.1	0.4	0.1	1.8	2.2
Yemen	2.1	1.8	1.8	1.6	2.0	2.3	2.5	2.0
Exports								
Americas								
Argentina	11.3	10.1	6.1	7.4	13.2	8.1	11.9	9.9
Canada	17.3	16.3	9.2	15.6	15.4	15.5	19.4	16.4
United States	36.2	32.4	23.7	32.2	28.2	27.2	25.0	34.2
Europe								
European Union **b**	15.2	11.5	15.5	10.3	13.6	14.0	12.8	11.3
Russian Federation	1.1	4.6	13.0	4.0	7.9	10.6	10.9	12.1
Ukraine	0.8	5.5	6.7	0.1	4.3	6.5	3.3	1.2
Asia								
China	0.5	1.3	1.4	2.4	0.8	1.0	2.4	2.4
India	2.1	3.1	5.4	5.4	1.7	0.4	0.1	0.1
Japan	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4
Kazakhstan	3.7	3.8	5.6	4.6	3.0	3.8	8.1	8.2
Turkey	1.6	0.7	0.8	0.7	2.1	2.5	1.3	1.2
Oceania								
Australia **c**	16.6	16.5	10.8	15.1	15.8	15.2	11.2	7.4
Total **d**	103.2	108.5	105.9	102.7	110.2	109.9	110.7	109.1

a Local marketing years; wheat equivalent. **b** Regarded as fifteen countries to 2002-03, twenty five countries from 2003-04, then twenty seven 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.

221 US wheat supply and disposal a

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08 b
Area									
– planted	million ha	25.3	24.1	24.4	24.3	23.3	23.3	24.6	25.7
– harvested	million ha	21.5	19.7	18.5	20.3	20.4	19.0	20.8	22.7
Yield	t/ha	2.82	2.69	2.36	2.89	2.81	2.59	2.37	2.48
Production	Mt	60.6	53.0	43.7	58.7	57.3	49.3	49.3	56.2
Opening stocks	Mt	25.8	23.8	21.2	13.4	14.7	15.5	12.4	8.3
Imports	Mt	2.4	2.9	2.1	1.7	1.9	2.2	3.3	3.1
Availability	Mt	88.9	79.8	67.0	73.8	73.9	67.0	65.0	67.6
Domestic use	Mt	36.2	32.4	30.4	32.5	31.9	31.3	31.0	29.0
– food	Mt	25.8	25.2	25.0	24.8	24.8	25.0	25.5	25.8
– feed	Mt	8.2	5.0	3.1	5.5	5.0	4.3	3.3	0.8
– seed	Mt	2.2	2.3	2.3	2.2	2.1	2.1	2.2	2.4
Exports	Mt	28.9	26.2	23.1	31.5	29.0	27.3	24.7	34.4
Closing stocks	Mt	23.8	21.2	13.4	14.9	14.7	15.5	12.4	8.3
– Commodity Credit Corporation	Mt	2.6	2.7	1.8	1.7	1.5	1.2	1.1	0.0
– Free	Mt	21.2	18.5	11.6	13.2	13.2	14.3	11.3	8.3
Farm price	US$/bus	2.62	2.78	3.56	3.40	3.42	4.26	6.48	7.25
Loan rate	US$/bus	2.58	2.58	2.80	2.80	2.75	2.75	2.75	2.75
Export price c	US$/t	128.50	127.51	160.46	160.49	153.87	176.28	211.91	362.08

a June–May year. **b** US Department of Agriculture estimate. **c** US hard red winter wheat (ordinary), 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; ABARE.

222 Wheat export price quotation, by country and category

	Australian prime hard 14% (eastern states)	Canadian no. 1 western red spring 12.5% (Vancouver) a	Australian standard white (eastern states)	US no. 2 hard red winter (Gulf)	Argentinean bread wheat	EU standard (Rouen)	US no. 2 soft red winter (Gulf)
	US$/t	US$/t	US$/t	US$/t	US$/t	US$/t	US$/t
1984-85	169.00	188.00	150.33	148.00	125.00	131.00	139.00
1985-86	159.00	180.00	132.50	128.00	102.00	111.00	125.00
1986-87	131.00	148.00	110.00	110.50	84.00	83.00	113.00
1987-88	145.00	164.00	125.11	123.40	101.00	84.00	120.00
1988-89	193.75	224.92	171.90	165.75	151.17	146.75	161.42
1989-90	183.58	193.75	167.60	160.83	138.58	142.17	152.83
1990-91	148.58	160.67	126.73	117.94	86.75	89.92	112.67
1991-92	201.50	188.42	160.25	150.96	117.67	119.00	147.08
1992-93	191.42	192.83	157.05	141.33	124.17	132.83	142.17
1993-94	240.58	222.25	153.25	141.52	117.50	95.58	133.83
1994-95	218.86	209.17	174.37	156.42	132.83	128.11	146.75
1995-96	272.03	254.83	232.39	215.33	215.92	212.30	180.17
1996-97	224.00	216.58	207.47	178.50	153.33	169.55	159.00
1997-98	203.06	197.28	167.50	141.75	134.31	133.80	130.91
1998-99	194.10	180.78	147.43	119.08	114.15	102.08	102.93
1999-00	190.17	176.33	136.44	113.17	111.17	101.18	98.83
2000-01	192.00	183.91	153.57	128.50	125.04	109.21	102.94
2001-02	185.73	166.45	157.09	127.51	116.71	110.85	116.10
2002-03	205.79	211.80	185.97	160.46	144.54	113.50	140.16
2003-04	207.79	203.39	183.56	160.49	153.50	174.23	152.45
2004-05	200.71	205.83	175.70	153.87	123.82	138.66	142.30
2005-06	222.78	216.25	194.60	176.28	138.75	132.18	142.02
2006-07	256.69	242.64	231.66	211.91	187.75	198.73	180.55
2007-08	na	477.50	na	362.08	325.97	361.45	328.38
2007							
January	251.75	239.00	227.38	207.75	180.25	197.00	180.75
February	259.75	244.25	235.57	210.00	174.75	199.50	179.75
March	256.80	244.40	236.86	208.40	188.00	206.20	171.20
April	261.75	253.75	239.41	211.25	210.50	219.50	180.50
May	254.25	252.50	230.88	202.50	218.50	217.00	184.00
June	275.00	271.00	250.16	231.80	240.40	232.60	208.80
July	297.75	291.00	269.55	253.75	256.67	277.75	239.00
August	325.20	308.60	295.40	278.20	289.67	333.80	271.60
September	na	378.50	352.97	350.50	326.75	383.25	341.25
October	na	402.00	na	353.00	323.25	364.75	339.75
November	na	408.20	na	337.60	290.40	353.00	321.80
December	na	493.25	na	383.50	317.00	382.00	365.50
2008							
January	na	531.25	na	385.50	331.25	379.25	361.50
February	na	749.00	na	446.00	367.00	411.40	409.20
March	na	607.50	na	453.75	395.00	441.50	415.25
April	na	577.25	na	388.00	na	367.00	338.50
May	na	515.00	na	346.40	na	322.20	264.00
June	na	468.50	na	368.75	362.75	321.50	273.25
July	na	420.50	na	346.25	329.25	307.50	262.25
August	na	411.00	na	342.60	306.60	294.80	260.40

a Prior to October 1994 export price quotation for Canadian no. 1 western red spring wheat 13.5 per cent (Vancouver). **na** Not available.

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

223 Wheat supply and disposal in major exporting countries a

	Area	Yield	Production	Domestic use	Exports b	Closing stocks
	million ha	t/ha	Mt	Mt	Mt	Mt
United States (June–May)						
2002-03	18.5	2.36	43.7	30.4	23.7	13.4
2003-04	20.3	2.89	58.7	32.5	32.2	14.9
2004-05	20.4	2.81	57.3	31.9	28.2	14.7
2005-06	19.0	2.59	49.3	31.3	27.2	15.5
2006-07	20.8	2.37	49.3	31.0	25.0	12.4
2007-08	22.7	2.48	56.2	29.0	34.2	8.3
Canada (August–July)						
2002-03	8.8	1.84	16.2	8.2	9.2	5.7
2003-04	10.5	2.25	23.6	7.5	15.7	6.1
2004-05	9.8	2.64	25.9	9.2	14.8	7.9
2005-06	9.8	2.73	26.8	9.3	15.5	9.7
2006-07	8.3	3.05	25.3	8.6	19.4	6.8
2007-08	8.6	2.34	20.1	6.1	16.4	4.8
Argentina (December–November)						
2002-03	5.8	2.12	12.3	5.3	6.4	1.7
2003-04	6.0	2.42	14.6	5.2	9.4	3.1
2004-05	6.1	2.62	16.0	5.1	11.4	2.6
2005-06	5.2	2.42	12.6	4.8	8.1	1.1
2006-07	5.5	2.64	14.6	4.8	11.9	0.4
2007-08	5.4	3.02	16.3	5.3	9.9	1.4
Australia (October–September)						
2002-03	11.2	0.91	10.1	5.5	9.1	2.4
2003-04	13.1	2.00	26.1	5.7	17.9	4.9
2004-05	13.4	1.63	21.9	6.0	14.7	6.1
2005-06	12.4	2.02	25.2	6.6	16.0	8.7
2006-07	11.8	0.92	10.8	7.4	8.7	3.4
2007-08	12.3	1.06	13.0	6.5	7.5	2.5
European Union (July–June) c						
2002-03	17.9	5.76	103.2	95.8	15.4	14.9
2003-04	22.1	4.11	90.8	91.9	11.6	10.0
2004-05	23.0	5.92	136.1	117.0	15.2	23.0
2005-06	23.0	5.34	122.7	119.6	14.0	17.6
2006-07	24.7	5.06	125.1	123.6	12.8	14.0
2007-08	25.0	4.78	119.7	117.6	11.3	10.0
Total cd						
2002-03	62.2	2.98	185.5	145.3	63.9	43.7
2003-04	72.0	2.97	213.8	142.8	85.5	40.6
2004-05	72.7	3.54	257.2	169.2	82.7	56.0
2005-06	69.4	3.41	236.6	171.6	80.8	55.0
2006-07	71.1	3.16	225.1	175.5	77.8	39.0
2007-08	74.1	3.04	225.3	164.5	79.3	28.9

a The marketing period in each country is shown in parentheses. **b** Includes wheat equivalent of flour and other wheat products. **c** Regarded as fifteen countries from 1998-99, twenty five countries from 2004-05, then twenty seven 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; ABARE.

224 Summary of Australian statistics for wool

	Sheep numbers ab	Wool production (greasy) c		Clean yield ac	Closing stocks (at 30 June) d		Average price	
		Shorn	Total				Eastern market indicator (clean) e	Auction (greasy)
	million	kt	kt	%	'000 bales	kt	c/kg	c/kg
1971-72	155.4	778.6	881.7	59.1	185.4	26.0	na	75.3
1972-73	134.1	643.6	735.2	58.8	205.8	29.6	na	183.8
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	4 184.3	740.0	547.0	330.1
1994-95	120.9	679.4	727.9	64.6	3 597.4	632.2	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	115.5	639.9	687.6	65.5	2 104.0	375.6	550.2	323.4
1999-00	118.6	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	501.8	551.1	64.8	123.9	105.0	1 049.0	682.0
2003-04	101.3	466.3	509.5	64.4	707.7	156.3	820.0	533.0
2004-05	100.6	474.8	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	na	864.1	543.5
2007-08	80.4	400.0	442.7	62.6	na	na	945.0	591.6

a Sheep and lambs. **b** Before 1982, includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of $1 500 or more. Between 1982 and 1986, includes livestock holdings on establishments with an EVAO of $2 500 or more and from 1987, an EVAO of $5 000. **c** July–June years. **d** No official stocks of wool were held between 1951-52 and 1969-70. Australian wool held by the Australian Wool Board in 1970-71 and 1971-72, 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. Also includes stocks of wool held under the Price Averaging Plan in 1970-71 to 1972-73. 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 therfore 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, *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; ABARE.

225 Australian shorn wool production, by state

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia a
Number of sheep shorn (million)							
1997-98	43.22	39.78	10.45	35.42	18.55	4.47	148.29
1998-99	40.81	34.42	11.16	33.06	18.81	4.32	144.41
1999-00	41.67	32.91	9.67	32.95	19.16	4.22	139.60
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	105.12
2003-04	36.34	22.49	4.50	24.51	13.71	3.52	105.26
2004-05	38.91	24.23	5.84	23.88	12.70	2.89	106.94
2005-06	37.09	23.06	5.48	27.90	13.88	3.85	111.18 s
2006-07	34.19	24.99	5.33	26.25	15.68	4.21	110.35 s
2007-08	30.60	19.50	4.20	22.72	13.08	2.70	92.81 s
Average cut per head (kg greasy)							
1997-98	4.23	3.83	4.39	4.34	4.73	3.86	4.22
1998-99	4.45	4.51	4.65	4.40	4.76	3.76	4.32
1999-00	4.59	4.65	4.72	4.34	4.79	4.20	4.30
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	4.25
2003-04	4.49	4.17	4.12	4.51	4.84	3.93	4.51
2004-05	4.26	4.11	4.40	4.51	5.03	4.17	4.57
2005-06	4.25	4.07	4.28	4.27	4.59	3.68	4.25
2006-07	4.07	3.82	4.23	4.03	4.73	3.13	4.08
2007-08	4.53	4.19	4.61	4.06	4.45	3.67	4.37 s
Shorn wool production (kt greasy)							
1997-98	182.61	152.41	45.91	153.88	87.77	17.26	639.84
1998-99	181.71	155.11	51.88	145.52	89.45	16.23	639.90
1999-00	191.26	152.89	45.66	142.99	91.80	17.71	642.31
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	501.80
2003-04	163.10	93.79	18.55	110.61	66.41	13.87	466.30
2004-05	165.83	99.55	25.67	107.80	63.90	12.04	474.80
2005-06	157.58	93.90	23.45	119.22	63.77	14.17	472.52
2006-07	139.17	95.45	22.56	105.80	74.16	13.19	450.22
2007-08	138.60	81.70	19.35	92.25	58.20	9.90	400.00 s
Clean yield (%)							
1997-98	65.18	67.49	63.70	62.79	62.64	71.69	65.58
1998-99	66.30	67.30	64.00	63.80	63.30	70.60	65.50
1999-00	66.70	67.40	63.70	64.10	62.50	70.70	65.60
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

a Includes the Northern Territory and the Australian Capital Territory. **s** ABARE estimate. **na** Not available.

Sources: ABS, *Agriculture, Australia,* cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities Australia,* Cat. no. 7121.0, Canberra; ABS, *Livestock and Livestock Products, Australia,* cat. no. 7221.0, Canberra; Australian Wool Testing Authority, *Key Test Data Summary;* ABARE.

226 Australian sheep disposal and wool production

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Sheep disposal								
Opening number **a**	million	110.9	106.2	99.3	101.3	102.5	92.7	96.2
Lambs marked	million	37.7	33.9	36.3	37.2	35.1	34.1	na
Lambs slaughtered **b**	million	17.4	16.9	16.6	17.3	18.7	20.2	20.9
Sheep slaughtered **b**	million	14.4	13.7	10.4	11.4	11.8	13.3	11.9
Live sheep exports	million	6.4	5.8	3.8	3.2	4.2	4.1	4.1
Sheep deaths **c**	million	4.2	4.5	3.5	5.9	11.8	3.5	na
Closing number **d**	million	106.2	99.3	101.3	100.6	91.0	85.7	80.4 **s**
Wool production								
Number shorn	million	117.5	105.1	105.3	106.9	111.2	110.3	92.8 **s**
Cut per head	kg	4.38	4.25	4.51	4.57	4.25	4.08	4.37 **s**
Wool production (greasy)								
– shorn	kt	536.9	501.8	466.3	474.8	472.5	450.2	400.0 **s**
– on skins	kt	50.4	49.3	43.2	44.9	47.4	52.1	42.7 **s**
– total	kt	587.2	551.1	509.5	519.7	519.9	502.3	442.7
– clean yield	%	66.1	64.8	64.4	64.2	64.1	62.9	62.6

a Sheep and lambs at 1 July on enterprises with estimated value of agricultural operations (EVAO) of $5 000 or more. **b** For human consumption only, but excludes slaughterings on farms. **c** Calculated residually. **d** Sheep and lambs at 30 June on enterprises with an EVAO of $5 000 or more. **s** ABARE estimate. **na** Not available.

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

227 Average prices for greasy wool in principal exporting countries

	Australia a	New Zealand ab	South Africa ac
	c/kg	c/kg	c/kg
1970-71	na	73.25	na
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	325.40	948.23

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.

228 Average world prices for synthetic fibres

	US polyester price a	Chinese Taipei polyester price bc	Chinese Taipei acrylic price bd
	USc/lb	USc/lb	USc/lb
1983-84	78.00	na	79.00
1984-85	72.00	na	80.00
1985-86	64.00	na	82.00
1986-87	62.00	na	83.00
1987-88	70.00	53.54	82.80
1988-89	79.00	72.44	77.00
1989-90	88.00	61.22	72.65
1990-91	77.00	52.22	70.76
1991-92	73.00	na	77.00
1992-93	73.00	48.28	74.68
1993-94	72.00	55.08	68.06
1994-95	81.70	79.30	93.20
1995-96	88.00	76.00	88.00
1996-97	72.00	52.17	78.00
1997-98	69.00	42.00	70.00
1998-99	53.00	32.00	54.00
1999-00	54.00	42.00	57.00
2000-01	59.75	40.00	59.00
2001-02	60.25	34.00	54.00
2002-03	62.20	31.99	na
2003-04	60.08	33.10	na
2004-05	66.25	36.19	na
2005-06	66.58	39.60	na
2006-07	73.17	42.64	na
2007-08	74.00	50.75	na

a Reported average market price for 1.5 denier polyester staple for cotton blending, landed group B mill points fob producing plants. 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: Osaka Senken Ltd, *JTN Weekly*, Osaka; US Department of Agriculture, *Cotton and Wool*, Situation and Outlook Report, Washington DC.

229 Australian wool exports, by destination, recorded trade basis

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Volume (kt greasy equivalent)								
China	324	280	207	211	266	320	376	304
Chinese Taipei	40	37	27	21	21	17	11	0
Eastern Europe **a**	5	6	8	9	9	11	4	2
European Union **b**								
Czech Republic	21	14	9	14	13	19	15	18
France	35	25	21	19	11	1	0	0
Germany	37	22	17	16	10	7	3	2
Italy	135	109	80	62	63	47	41	37
United Kingdom	8	4	3	3	2	2	1	0
Other	30	22	14	10	12	8	5	1
Total	267	196	146	124	110	85	67	59
India	44	32	25	27	31	34	30	24
Japan	26	19	13	11	7	7	8	4
Korea, Rep. of	44	49	34	10	9	8	7	6
Thailand	14	12	13	13	11	8	5	5
Turkey	23	17	15	14	6	6	5	3
United States	12	7	5	3	4	4	4	2
Other	55	47	38	60	75	43	48	68
Total	854	701	532	502	547	543	566	477
Value ($m)								
China	1 360	1 451	1 423	1 175	1 382	1 485	2 031	1 748
Chinese Taipei	147	181	178	108	93	73	66	1
Eastern Europe **a**	23	26	52	45	46	54	19	11
European Union **b**								
Czech Republic	84	70	57	69	55	81	68	97
France	166	138	149	114	53	5	1	2
Germany	150	124	119	82	42	27	14	12
Italy	765	596	547	347	342	257	260	285
United Kingdom	35	17	18	16	11	8	7	2
Other	112	100	91	49	52	30	20	5
Total	1 311	1 046	981	677	555	409	370	403
India	189	167	177	154	154	156	162	144
Japan	119	99	88	59	34	33	42	22
Korea, Rep. of	247	275	225	60	47	34	28	30
Thailand	73	75	100	80	63	45	37	32
Turkey	114	99	104	81	29	27	22	14
United States	56	34	36	18	22	21	19	11
Other	242	229	215	320	392	193	264	381
Total	3 882	3 682	3 578	2 777	2 817	2 531	3 059	2 798

a Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Slovak Federal Republics, Estonia, Latvia, Lithuania, Macedonia, Poland, Romania, Slovenia and Serbia. **b** Regarded as twenty five countries.

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

230 Volume of Australian exports of semi-processed shorn wool

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	kt	kt	kt	kt	kt	kt	kt	kt
Scoured								
China	7.4	5.6	5.9	4.2	1.9	2.0	3.1	0.0
India	9.2	5.8	4.1	3.6	3.1	3.0	2.9	0.0
Italy	13.0	7.5	5.2	4.7	5.8	3.0	2.2	1.2
Japan	7.4	5.6	4.3	4.3	2.4	2.5	3.0	1.4
Korea, Rep. of	6.7	6.8	2.3	1.2	0.6	0.1	0.0	0.0
Malaysia	1.4	1.6	2.1	1.4	3.1	5.2	3.0	0.0
Thailand	8.2	7.7	8.5	8.1	6.2	5.2	3.5	2.5
Total	74.7	51.5	38.9	33.3	30.7	29.8	25.7	21.9
Carbonised								
China	7.2	6.7	6.4	7.0	6.8	5.5	4.1	2.0
Hong Kong	2.7	1.2	0.7	0.1	0.2	0.1	0.0	0.0
Italy	5.8	3.5	1.7	2.8	3.7	2.8	3.0	0.5
Japan	2.2	2.0	1.4	1.4	0.9	0.8	0.9	0.2
Korea, Rep. of	7.4	8.5	7.1	2.9	3.9	3.9	3.9	3.3
Turkey	1.0	0.8	0.9	1.3	1.3	1.1	1.1	0.9
Total	31.3	27.1	22.4	18.7	19.0	16.0	15.9	10.5
Tops and sliver								
China	11.1	9.2	6.6	1.1	0.2	0.2	0.1	1.1
Chinese Taipei	0.9	0.9	0.6	0.2	0.0	0.0	0.0	0.0
Italy	12.3	12.8	8.4	1.0	0.1	0.1	0.2	1.3
Iran	2.7	1.5	0.9	0.1	0.0	0.0	0.0	0.0
Japan	3.8	2.4	1.5	0.3	0.0	0.1	0.1	0.1
Korea, Rep. of	7.8	9.5	7.2	0.7	0.0	0.0	0.0	0.3
Mexico	2.4	1.5	1.0	0.2	0.0	0.0	0.0	0.0
No country detail	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	52.6	47.1	32.7	20.3	16.4	8.3	7.1	7.2
Noils and waste								
China	0.5	0.2	0.1	0.2	0.2	0.0	0.0	0.1
France	0.6	0.4	0.4	0.1	0.9	0.4	0.3	0.1
Germany	0.1	0.0	0.7	0.5	0.0	0.0	0.0	0.0
Italy	4.0	5.0	3.0	1.9	0.6	1.0	0.8	0.8
Japan	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Korea, Rep. of	1.2	0.8	0.4	0.1	0.0	0.0	0.0	0.0
United Kingdom	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total	7.9	7.3	5.3	3.5	2.1	1.5	1.4	1.0

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

231 World wool production, by country and type

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08 s
	kt	kt	kt	kt	kt	kt	kt	kt
Greasy								
Country or region								
Afghanistan	15	14	14	11	11	11	11	na
Algeria	18	20	20	19	19	19	19	na
Argentina	62	63	68	76	80	78	71	65
Australia	645	587	551	509	520	520	502	443
Chile	16	16	15	15	14	14	14	na
China **a**	298	308	338	374	393	395	399	na
Ethiopia	11	11	11	11	11	12	12	na
France	17	17	17	17	17	17	17	na
Greece	14	14	14	14	13	13	13	na
India	48	48	48	48	45	45	45	na
Iran	54	54	54	54	54	54	54	na
Ireland	26	26	26	18	16	16	22	na
Italy	11	11	11	11	11	11	na	na
Mongolia	20	19	15	15	15	15	15	na
Morocco	38	38	38	38	38	38	38	na
New Zealand	237	229	228	218	215	224	217	205
Pakistan	39	39	40	40	40	40	40	na
Peru	na	na	12	12	11	11	11	na
Romania	17	17	17	18	18	18	18	na
Russian Federation	130	135	141	146	148	145	163	na
Azerbaijan	12	12	12	12	13	14	14	na
Kazakhstan	24	25	27	28	30	32	34	na
Kyrgyzstan	11	11	11	10	10	11	11	na
Russia	39	41	43	46	48	49	51	na
Turkmenistan	18	18	18	18	18	18	18	na
Uzbekistan	16	17	17	19	20	21	23	na
Other CIS	11	12	12	13	13	13	13	na
South Africa **b**	49	48	44	46	46	46	47	48
Spain	39	39	36	36	36	36	36	na
Sudan	45	45	45	45	45	45	45	na
Syria	23	22	22	22	22	22	22	na
Turkey	58	56	54	54	46	46	46	na
United Kingdom	62	49	44	43	43	43	37	na
United States	22	22	20	19	19	19	18	na
Uruguay	57	49	41	37	38	46	47	43
Other producers	160	158	157	154	151	150	138	na
World	2 247	2 177	2 135	2 132	2 144	2 156	2 122	na
Clean								
Wool type								
Fine wool (<=24.5um)	511	473	470	464	466	469	444	na
Medium wool (24.6-32.5um)	278	275	260	260	260	263	264	na
Coarse wool (>32.5um)	480	486	491	496	493	502	495	na
World	1 268	1 233	1 220	1 220	1 218	1 234	1 202	na

a Includes Manchuria, Sinkiang and Tibet. **b** Excluding Lesotho and Namibia. **na** Not available.

Sources: International Wool Textile Organisation, *Market Information,* London; ABARE.

232 Volume of raw wool exports by main producing countries a

	Australia	New Zealand	Argentina b	Uruguay c	South Africa	Total
	kt	kt	kt	kt	kt	kt
1986-87	935	364	138	101	81	1 619
1987-88	925	331	116	91	80	1 543
1988-89	872	329	85	80	83	1 448
1989-90	752	257	104	103	72	1 288
1990-91	715	254	94	107	86	1 256
1991-92	929	302	81	109	89	1 510
1992-93	867	240	81	92	66	1 346
1993-94	912	299	109	115	66	1 500
1994-95	814	291	95	68	63	1 331
1995-96	772	186	77	82	29	1 147
1996-97	860	200	83	17	19	1 178
1997-98	799	192	25	9	24	1 049
1998-99	683	171	24	10	25	913
1999-00	802	182	30	14	21	1 048
2000-01	854	179	21	12	17	1 084
2001-02	701	163	22	10	21	917
2002-03	532	148	24	10	21	735
2003-04	502	153	18	9	24	706
2004-05	547	144	20	8	28	747
2005-06	543	161	12	19	28	763
2006-07	566	155	15	25	31	791
2007-08	477	147	14	25	34	697

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 Estadistico,* 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; 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.

233 Market prices for Australian wool, by category a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg	c/kg
19 micron	1 315.0	1 068.0	1 206.0	966.3	951.7	888.0	1 057.0	1 180.0
20 micron	784.0	850.0	1 150.9	913.4	839.8	776.0	955.0	1 033.0
21 micron	637.0	826.0	1 143.0	887.8	779.1	723.0	900.0	965.0
22 micron	597.0	824.0	1 133.9	865.1	742.5	702.0	861.0	924.0
23 micron	570.0	820.0	1 119.3	841.6	715.4	689.0	832.0	890.0
24 micron	554.0	815.0	1 096.2	811.4	673.8	669.0	766.0	828.0
25 micron	521.0	790.0	1 035.7	762.7	620.8	615.0	656.0	693.0
30 micron	444.0	585.0	595.6	430.9	451.7	426.0	415.0	359.0
Eastern market indicator	764.0	841.0	1 049.0	820.0	766.6	713.3	864.1	945.0
Western market indicator	778.9	835.8	1 051.2	821.3	746.5	691.7	855.9	946.9

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.

minerals & energy commodities

2007

234 Summary of Australian statistics for bauxite and alumina

	Production		Alumina exports a		
	Bauxite	Alumina	Volume	Value	Unit value b
	kt	kt	kt	$m	$/t
1960	71	30	na	na	na
1961	16	30	na	na	na
1962	30	34	na	na	na
1963	360	47	na	na	na
1964	797	161	na	na	na
1965	1 186	202	na	na	na
1966	1 827	307	na	7	na
1967	4 244	854	na	29	na
1968	4 955	1 310	na	60	na
1969	7 921	1 931	na	72	na
1970	9 256	2 152	na	97	na
1971	12 733	2 713	2 148	115	53.5
1972	14 437	3 068	2 646	135	51.0
1973	17 596	4 089	3 507	181	51.6
1974	19 994	4 900	4 705	251	53.3
1975	21 033	5 129	4 514	344	76.2
1976	24 084	6 206	5 826	527	90.5
1977	26 086	6 659	6 119	629	102.8
1978	24 293	6 776	6 250	671	107.4
1979	27 583	7 415	6 476	775	119.7
1980	27 179	7 246	6 994	1 021	146.0
1981	25 441	7 079	6 510	1 082	166.2
1982	23 625	6 631	5 953	1 103	185.3
1983	24 372	7 231	6 378	1 185	185.8
1984	31 537	8 781	6 905	1 579	228.7
1985	31 839	8 792	7 169	1 433	199.9
1986	32 384	9 423	7 688	1 427	185.6
1987	34 008	10 109	8 301	1 545	186.1
1988	36 192	10 518	8 519	1 836	215.6
1989	38 579	10 800	8 636	2 725	315.5
1990	41 389	11 231	8 708	2 940	337.6
1991	40 504	11 713	9 275	2 490	268.5
1992	39 741	11 783	9 604	2 253	234.6
1993	41 320	12 598	9 753	2 383	244.3
1994	42 159	12 819	10 570	2 193	207.4
1995	42 655	13 161	10 727	2 504	233.4
1996	43 063	13 348	10 754	2 612	242.9
1997	44 464	13 384	10 902	2 735	250.8
1998	44 653	13 853	10 804	3 055	282.7
1999	48 416	14 532	11 130	2 879	258.6
2000	53 802	15 680	12 419	4 222	340.0
2001	53 799	16 313	12 972	4 430	341.5
2002	54 135	16 382	12 932	3 752	290.2
2003	55 602	16 529	13 498	3 655	270.8
2004	56 593	16 701	13 702	4 110	299.9
2005	59 959	17 704	14 358	4 647	323.7
2006	61 780	18 312	14 986	6 082	405.9
2007	62 398	19 853	15 264	5 975	391.5

a Alumina (hydrate and oxide) only. **b** Average export unit value. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; International Monetary Fund, *International Financial Statistics,* Washington DC; World Bureau of Metal Statistics, *World Metal Statistics,* London.

235 Summary of Australian statistics for aluminium

	Primary aluminium		Exports		
	Production	Consumption a	Volume b	Value	Unit value c
	kt	kt	kt	$m	$/t
1961	13	30	na	na	na
1962	16	48	na	na	na
1963	42	49	5	2	400.0
1964	80	65	15	6	400.0
1965	88	67	22	9	409.1
1966	92	76	16	7	437.5
1967	93	82	11	5	454.5
1968	97	104	6	3	500.0
1969	126	107	21	10	476.2
1970	206	123	82	38	463.4
1971	224	138	85	35	411.8
1972	206	112	95	35	368.4
1973	207	151	57	24	421.1
1974	219	176	53	28	528.3
1975	214	138	77	46	597.4
1976	232	168	65	45	692.3
1977	248	170	78	70	897.4
1978	263	184	77	72	935.1
1979	270	198	76	86	1 131.6
1980	304	267	46	62	1 347.8
1981	379	254	79	97	1 227.8
1982	381	219	156	168	1 076.9
1983	478	245	235	333	1 417.0
1984	758	265	404	637	1 576.7
1985	851	288	564	862	1 528.4
1986	882	287	579	975	1 685.4
1987	1 004	319	711	1 423	2 001.4
1988	1 150	328	816	2 218	2 719.2
1989	1 244	324	922	2 347	2 546.4
1990	1 234	288	936	1 990	2 125.6
1991	1 235	298	954	1 771	1 857.2
1992	1 245	309	930	1 618	1 739.1
1993	1 388	338	1 056	1 822	1 725.2
1994	1 317	354	948	1 804	1 902.5
1995	1 297	343	957	2 431	2 540.7
1996	1 372	322	1 068	2 140	2 003.7
1997	1 495	352	1 156	2 527	2 186.3
1998	1 627	367	1 310	2 929	2 235.6
1999	1 718	344	1 381	2 919	2 114.2
2000	1 769	346	1 402	3 785	2 700.3
2001	1 797	317	1 489	4 233	2 842.3
2002	1 836	299	1 527	3 845	2 518.4
2003	1 857	337	1 528	3 426	2 242.4
2004	1 895	362	1 534	3 626	2 364.2
2005	1 903	380	1 585	4 024	2 539.5
2006	1 932	312	1 618	5 464	3 377.1
2007	1 959	327	1 652	5 365	3 247.0

a Apparent primary consumption. **b** Aluminium ingot metal. **c** Average export unit value. **na** Not available.

Sources: Australian Aluminium Council, *Australian Aluminium Statistical Summary,* Canberra; ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; International Monetary Fund, *International Financial Statistics,* Washington DC; World Bureau of Metal Statistics, *World Metal Statistics,* London.

236 Australian supply, disposal and prices of alumina and aluminium

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production									
Bauxite	kt	54 560	53 949	54 472	56 316	57 648	60 874	62 684	63 463
Alumina	kt	16 098	16 417	16 413	16 690	17 161	17 826	18 506	19 359
Aluminium	kt	1 788	1 809	1 855	1 877	1 890	1 912	1 954	1 965
Secondary metal **a**	kt	110	127	127	127	127	127	127	126
Exports									
Alumina **b**	kt	12 721	13 091	13 168	13 572	14 073	14 499	15 056	15 739
– value	$m	4 507	4 114	3 660	3 781	4 383	5 262	6 243	5 809
Aluminium **a**	kt	1 471	1 490	1 551	1 546	1 512	1 617	1 638	1 650
– value	$m	4 229	3 965	3 696	3 441	3 726	4 788	5 650	4 967
Imports									
Alumina	kt	0.8	0.9	1.6	1.1	1.3	1.4	10.7	11.9
– value	$m	1.4	1.7	2.5	1.1	1.4	1.6	12.2	12.7
Aluminium **a**	kt	6.0	6.8	4.8	6.7	5.9	6.3	2.7	3.0
– value	$m	20.5	20.5	14.3	16.2	16.6	19.9	10.7	10.2
Consumption c	kt	327.3	300.2	303.7	319.8	380.2	343.1	285.0	288.0
Export unit values									
Alumina	$/t	354.29	314.25	277.97	278.60	311.47	362.90	414.63	369.08
Aluminium	$/t	2 875.54	2 661.38	2 382.64	2 226.28	2 463.63	2 961.66	3 449.95	3 010.77

a Ingot metal. **b** Includes aluminium hydroxide. **c** Estimated apparent consumption (primary and secondary).

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Australian Aluminium Council, *Australian Statistical Summary,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

237 Volume of Australian exports of aluminium, by destination

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
China	17.7	18.6	20.0	46.4	72.0	75.2	59.5	37.4	29.3
Chinese Taipei	228.5	227.2	151.5	219.0	184.1	203.0	159.4	184.3	170.9
Hong Kong, China	71.8	102.1	61.6	74.3	90.0	108.8	85.5	66.0	42.3
Indonesia	52.7	51.1	47.6	51.3	56.3	57.1	88.1	83.3	77.7
Japan	528.4	610.3	610.8	577.5	569.9	551.9	581.0	578.1	591.5
Korea, Rep. of	256.3	230.5	210.2	234.8	217.2	188.5	222.4	233.0	243.2
Malaysia	41.9	24.4	52.1	53.4	61.8	75.2	81.3	82.1	105.6
Philippines	14.8	10.2	5.6	8.6	9.6	7.5	7.7	7.8	7.7
Singapore	9.0	4.1	5.3	5.4	6.0	13.5	16.0	27.9	23.8
Thailand	62.6	75.0	121.4	121.9	152.4	134.4	186.3	196.9	210.1
Other countries	97.0	48.0	203.1	133.9	108.6	118.6	97.4	121.2	150.3
Total	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7	1 584.7	1 617.9	1 652.4

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

238 World production, consumption, stocks and prices for aluminium

	Production							
			Aluminium					
	Bauxite	Alumina a	Primary	Secondary	Total	Primary consumption	Stocks	Price b
	kt	kt	kt	kt	kt	kt	kt	US$/t
1962	31 220	na	0	948	948	3 237	na	498.0
1963	30 456	na	3 523	1 061	4 584	3 458	na	498.9
1964	33 185	na	3 865	1 178	5 043	3 893	na	526.0
1965	37 233	na	4 253	1 311	5 564	4 322	na	540.1
1966	41 070	11 510	4 800	1 657	6 457	4 809	na	540.1
1967	45 087	13 118	5 098	1 700	6 798	5 226	na	540.1
1968	46 571	13 983	5 592	1 946	7 538	6 137	na	552.9
1969	54 475	16 175	6 160	2 256	8 416	6 088	na	588.4
1970	59 490	20 003	6 583	2 181	8 764	7 035	na	614.2
1971	66 663	22 719	7 439	2 295	9 734	7 732	na	627.9
1972	69 215	24 539	8 056	2 451	10 507	7 935	1 687	590.2
1973	75 208	21 908	8 621	2 817	11 438	8 471	1 352	599.2
1974	84 176	22 878	9 205	2 887	12 092	9 450	2 012	764.8
1975	77 380	22 093	10 129	2 542	12 671	11 350	3 129	868.4
1976	80 662	22 663	12 863	2 781	15 644	14 077	2 321	890.0
1977	84 480	25 186	14 322	3 052	17 374	14 511	2 505	1 143.8
1978	83 927	25 146	14 776	3 240	18 016	15 329	2 052	1 325.0
1979	89 131	26 034	15 175	3 316	18 491	15 981	1 513	1 602.8
1980	93 061	28 106	16 035	3 318	19 353	15 298	2 078	1 774.9
1981	88 552	26 648	15 698	3 618	19 316	14 516	3 275	1 262.8
1982	77 896	22 230	13 990	3 583	17 573	14 161	3 185	991.6
1983	78 585	23 342	14 334	3 960	18 294	15 361	2 249	1 438.3
1984	92 299	27 055	15 941	3 950	19 891	15 574	2 775	1 251.6
1985	89 609	25 543	15 555	4 022	19 577	15 858	2 444	1 042.8
1986	92 842	26 114	15 619	4 196	19 815	16 071	1 964	1 150.0
1987	96 499	28 053	16 483	4 511	20 994	17 053	1 474	1 580.0
1988	102 588	29 155	18 575	4 943	23 518	18 867	1 619	2 603.0
1989	107 584	31 537	19 135	4 943	24 078	19 253	1 634	1 953.0
1990	114 750	40 500	19 348	5 062	24 410	19 227	1 847	1 639.0
1991	114 977	40 890	19 653	5 336	24 988	18 743	2 741	1 303.5
1992	109 468	40 783	19 459	5 476	24 935	18 558	3 244	1 254.6
1993	114 124	42 978	19 715	6 058	25 773	18 134	4 497	1 139.4
1994	112 230	41 953	19 112	6 447	25 559	19 715	3 733	1 477.1
1995	118 231	43 809	19 668	6 876	26 544	20 552	2 576	1 806.0
1996	123 965	40 841	20 848	6 914	27 762	20 684	3 135	1 506.0
1997	126 381	43 297	21 798	7 484	29 282	21 870	2 749	1 599.8
1998	123 034	45 043	22 654	7 594	30 248	21 889	2 837	1 357.9
1999	130 158	45 784	23 707	8 132	31 839	23 356	3 020	1 361.1
2000	138 915	48 119	24 418	8 197	32 615	25 059	2 623	1 549.5
2001	139 044	48 488	24 436	7 264	31 700	23 722	3 103	1 443.8
2002	147 312	49 785	26 076	7 649	33 725	25 371	3 444	1 350.3
2003	158 315	52 591	28 001	7 656	35 657	27 607	3 672	1 431.6
2004	168 032	62 576	29 922	7 636	37 558	29 961	3 033	1 715.9
2005	176 363	66 692	32 021	7 763	39 784	31 709	3 010	1 898.8
2006	183 129	72 790	33 965	7 841	41 806	33 995	2 764	2 569.8
2007	191 378	79 619	38 046	9 177	47 222	37 398	2 960	2 638.5

a Western world production to 1989, total world production from 1990. **b** London Metal Exchange, 99.5 per cent purity, spot cash settlement until 1988; 99.7 per cent purity from 1989. Before 1979, UK producer price. **na** Not available.

Sources: International Monetary Fund, *International Financial Statistics,* Washington DC; Metallgesellschaft AG, *Metallstatistik,* Frankfurt; World Bureau of Metal Statistics, *World Metal Statistics,* London.

239 World primary aluminium production, by region and country

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Africa									
Cameroon	92	95	81	67	77	86	90	87	87
Egypt	187	189	191	195	195	216	244	252	258
Ghana	114	156	162	132	16	0	13	76	13
Nigeria	16	0	0	0	0	0	0	0	0
South Africa	687	683	654	704	733	864	851	887	898
Americas									
Argentina	206	262	245	269	272	272	271	273	287
Brazil	1 250	1 271	1 132	1 318	1 381	1 457	1 498	1 604	1 655
Canada	2 390	2 374	2 583	2 709	2 792	2 592	2 894	3 051	3 083
Mexico	63	61	52	38	18	0	0	0	0
Surinam	7	0	0	0	0	0	0	0	0
United States	3 779	3 668	2 637	2 705	2 705	2 517	2 480	2 281	2 560
Venezuela	567	569	572	605	606	631	624	617	616
Asia									
China	2 599	2 794	3 371	4 321	5 547	6 689	7 806	9 349	12 559
India	621	649	624	671	799	861	942	1 105	1 223
Indonesia	112	191	209	163	197	241	252	250	242
Japan	11	7	7	6	7	7	6	6	6
Tajikistan	229	269	289	308	319	358	380	414	419
Europe									
France	455	441	461	463	443	451	442	442	428
Germany	634	644	652	653	661	668	648	516	551
Greece	160	163	162	164	165	167	165	165	168
Hungary	34	34	35	35	35	34	31	0	0
Iceland	222	226	243	264	266	271	272	325	399
Italy	187	190	188	190	191	195	193	194	183
Netherlands	287	302	293	284	283	326	341	312	296
Norway	1 020	1 026	1 068	1 096	1 192	1 322	1 376	1 427	1 357
Poland	52	52	55	59	53	54	54	52	51
Romania	174	181	182	187	196	219	244	258	286
Russian Federation	3 149	3 247	3 302	3 348	3 478	3 594	3 647	3 718	3 955
Slovakia	109	110	110	112	131	157	158	157	160
Slovenia	77	76	77	88	110	121	139	140	125
Spain	364	366	376	380	389	398	394	367	405
Sweden	99	100	102	101	101	101	103	101	100
Switzerland	34	36	36	40	44	45	44	12	0
Ukraine	112	104	106	113	114	113	114	113	113
United Kingdom	270	305	341	344	343	360	368	360	365
Yugoslavia	81	96	108	117	120	121	120	122	124
Middle East									
Bahrain	503	509	522	517	526	524	708	844	858
Iran	138	140	145	166	172	203	232	240	204
Turkey	62	62	62	63	63	62	59	60	63
United Arab Emirates	441	536	536	536	536	683	850	789	890
Oceania									
Australia	1 718	1 769	1 797	1 836	1 857	1 895	1 903	1 932	1 959
New Zealand	327	328	322	334	334	350	349	338	358
Total	23 707	24 418	24 436	26 076	28 001	29 922	32 021	33 965	38 046

Sources: ABARE, *Australian Mineral Statistics*, Canberra; World Bureau of Metal Statistics, *World Metal Statistics*, London.

240 World primary aluminium consumption, by region and country

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Africa									
Cameroon	22	24	25	27	27	19	19	19	19
Egypt	83	82	97	91	101	98	98	110	107
Ghana	16	16	16	16	16	16	16	16	16
South Africa	125	186	198	180	180	222	240	264	279
Other Africa	6	8	8	9	9	19	14	14	17
Total	268	339	366	347	357	399	414	452	470
Americas									
Argentina	83	81	54	51	81	116	113	133	138
Brazil	463	514	553	578	589	651	759	773	854
Canada	777	800	743	747	736	755	801	846	718
Mexico	88	88	113	113	113	130	158	164	124
United States	6 158	6 161	5 230	5 509	5 667	5 800	6 114	6 150	5 580
Venezuela	155	183	165	173	181	208	179	160	148
Other Americas	24	38	39	44	47	54	56	58	58
Total	7 789	7 912	6 942	7 270	7 467	7 777	8 254	8 385	7 717
Asia									
China **a**	2 926	3 499	3 492	4 115	5 178	6 043	7 119	8 648	12 347
Chinese Taipei	464	502	321	407	431	497	412	422	368
Hong Kong, China	48	50	50	42	28	25	30	30	30
India	570	602	589	604	798	861	958	1 079	1 171
Indonesia	139	146	163	127	211	249	268	288	266
Japan	2 112	2 225	2 014	2 010	2 235	2 319	2 276	2 323	2 197
Korea, Rep. of	814	823	850	921	982	1 118	1 201	1 153	1 081
Malaysia	147	150	153	149	126	140	150	193	221
Philippines	34	33	25	30	26	29	28	26	19
Singapore	4	15	48	48	56	63	60	60	60
Thailand	156	195	227	250	323	378	374	407	401
Other Asia	77	86	96	104	109	121	121	131	168
Total	8 177	9 075	8 802	9 661	11 448	12 967	14 216	16 005	19 675
Europe									
Austria	143	168	201	208	241	234	218	269	288
Belgium	350	341	327	333	322	402	442	467	519
Croatia	30	29	38	41	28	56	71	70	76
Czech Republic	66	78	88	105	103	114	134	130	143
Denmark	39	41	44	56	60	66	63	69	75
Finland	37	39	37	32	29	33	37	39	42
France	774	782	746	762	754	749	719	713	737
Germany	1 439	1 491	1 580	1 690	1 916	1 795	1 758	1 823	2 008
Greece	213	231	218	220	243	266	281	280	277
Hungary	171	210	223	240	244	226	226	225	213
Italy	735	780	756	851	956	987	977	1 021	1 087
Netherlands	155	155	155	155	153	146	146	146	146
Norway	231	253	233	246	246	246	245	261	243
Poland	133	150	149	133	152	160	160	227	198
Portugal	82	78	67	78	72	90	88	93	92
Romania	98	128	113	112	163	163	213	246	263
Russian Federation	563	748	786	990	803	1 020	1 020	1 047	1 020
Slovakia	25	36	39	28	24	20	25	25	27
Slovenia	62	81	116	76	87	119	115	112	126
Spain	494	526	508	533	596	603	624	620	642

Continued

240 World primary aluminium consumption, by region and country continued

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Europe (continued)									
Sweden	133	147	119	127	126	124	113	106	114
Switzerland	157	165	161	152	168	169	162	193	185
Ukraine	50	50	50	50	30	33	37	40	51
United Kingdom	497	576	433	428	302	439	353	362	364
Yugoslavia	16	16	18	23	38	45	62	96	96
Total	6 736	7 341	7 249	7 721	7 925	8 379	8 374	8 777	9 142
Middle East									
Bahrain	226	239	261	248	255	353	355	328	323
Iran	123	117	117	126	126	161	154	158	158
Saudi Arabia	55	60	65	70	77	77	80	80	80
Turkey	169	211	176	231	308	351	390	433	543
Total	618	707	698	778	869	1 045	1 113	1 134	1 238
Oceania									
Australia	344	346	317	299	337	362	380	312	327
New Zealand	43	46	46	74	73	75	71	62	68
Total	387	392	363	373	410	437	451	374	395
Total	23 356	25 059	23 722	25 371	27 607	29 961	31 709	33 995	37 398

a Excludes Hong Kong.

Sources: ABARE, *Australian Mineral Statistics*, Canberra; World Bureau of Metal Statistics, *World Metal Statistics*, London.

241 Volume of world aluminium trade, by country [a]

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports									
Argentina	123.4	187.0	182.5	203.4	199.9	163.1	168.5	131.1	73.1
Australia	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7	1 584.7	1 617.9	1 652.4
Austria	88.0	91.8	102.2	108.9	103.7	136.0	132.8	126.5	120.0
Bahrain	276.5	269.8	261.1	268.8	270.9	na	na	na	530.0
Belgium	66.7	61.6	184.4	287.3	198.7	308.7	306.7	240.4	203.6
Brazil	788.6	760.0	587.9	749.4	798.8	818.4	753.1	842.1	823.3
Cameroon	72.0	69.8	56.8	39.8	51.4	72.9	65.0	na	na
Canada	1 862.6	1 837.3	2 046.1	2 133.3	2 233.2	1 996.9	2 239.6	2 359.9	2 500.6
Chinese Taipei	94.4	103.1	96.1	113.6	121.1	125.8	111.3	117.5	545.9
Denmark	25.7	23.3	26.1	23.4	17.7	14.1	23.6	31.9	37.8
Egypt	109.7	114.4	95.1	108.7	99.2	119.8	144.6	140.7	60.7
Finland	39.6	38.9	33.7	23.5	18.6	17.3	14.1	11.4	12.9
France	153.3	157.4	151.0	156.7	139.0	148.1	172.8	214.2	181.7
Germany	300.3	374.8	366.7	387.6	389.3	413.4	391.6	432.3	423.0
Ghana	39.4	na	68.7	na	na	na	na	na	na
Greece	60.8	94.5	15.8	62.9	67.6	70.4	76.0	83.3	94.9
Hong Kong, China	215.0	193.0	134.4	145.9	183.4	203.3	118.1	80.2	42.7
Hungary	12.7	12.2	10.9	10.6	16.2	10.0	22.6	28.9	27.6
Iceland	221.4	209.7	258.0	282.5	286.0	278.0	283.6	303.3	446.3
India	100.3	91.4	101.5	135.7	71.4	76.2	108.3	119.9	163.7
Indonesia	79.9	172.2	149.6	142.7	119.9	167.7	166.1	186.1	168.3
Italy	29.6	33.8	31.5	42.0	34.5	47.8	66.3	93.5	123.3
Japan	10.5	10.0	12.6	12.4	18.2	36.3	34.4	24.3	26.8
Korea, Rep. of	31.8	11.8	8.0	24.3	49.9	56.1	48.6	50.8	77.7
Mexico	7.1	10.3	7.5	5.5	4.7	13.6	14.7	22.2	46.3
Netherlands	480.5	450.5	470.0	581.7	635.6	609.6	482.3	608.8	795.0
New Zealand	287.2	296.1	293.5	298.5	289.7	316.1	319.5	308.9	327.8
Norway	988.0	1 041.8	1 187.6	1 127.8	1 362.5	1 485.0	1 513.2	1 539.4	1 609.9
Russian Federation	3 115.7	3 177.2	3 074.4	2 782.0	3 107.9	3 700.2	2 740.3	3 163.6	3 948.6
Singapore	77.8	75.0	88.8	127.5	127.9	101.6	103.9	107.2	226.8
South Africa	630.6	504.4	461.0	584.6	625.8	646.4	671.2	601.3	625.2
Spain	80.4	82.1	92.2	70.9	88.3	103.2	115.0	136.5	141.0
Sweden	64.8	53.3	66.2	81.2	76.0	127.8	97.7	113.5	90.3
Switzerland	11.6	15.7	5.5	7.1	0.8	8.2	14.5	21.3	22.7
Tajikistan	224.3	288.0	287.0	304.0	316.7	342.6	374.9	408.9	411.2
United Arab Emirates	441.2	515.9	452.8	377.3	341.0	327.2	301.0	287.4	189.8
United Kingdom	233.6	347.7	263.3	250.4	271.2	335.9	379.1	350.2	141.2
United States	425.0	451.4	339.3	305.2	241.6	344.1	379.0	419.5	399.1
Venezuela	429.4	388.3	398.0	437.4	392.1	389.7	403.3	373.6	na
Yugoslavia	69.5	92.5	95.8	116.5	35.0	1.7	1.3	4.2	7.0
Total	14 794.2	15 285.4	15 176.3	15 911.5	16 852.3	18 090.7	17 017.6	17 699.0	18 325.6

Continued

241 Volume of world aluminium trade, by country a continued

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Imports									
Australia	5.6	6.0	7.6	4.4	6.1	6.9	5.1	4.7	2.9
Austria	223.7	251.5	293.0	307.3	326.3	336.0	297.1	350.3	391.3
Belgium	413.2	431.9	599.8	669.7	599.6	749.6	763.0	737.7	754.4
Brazil	2.1	2.3	8.7	8.9	6.8	12.0	18.6	11.6	22.4
Canada	246.5	276.3	223.0	196.1	137.9	165.5	163.2	155.3	139.3
China	534.0	914.1	529.6	581.8	880.8	1 033.3	637.0	512.0	282.2
Chinese Taipei	558.5	604.7	417.4	520.8	552.1	622.5	523.5	540.0	504.0
Denmark	43.6	45.4	48.7	61.5	65.4	75.2	70.6	79.6	86.4
Finland	43.2	52.0	50.5	37.5	36.7	41.3	44.6	40.9	50.5
France	464.7	527.8	506.9	474.3	490.5	513.8	517.2	593.0	587.0
Germany	1 333.2	1 586.2	1 602.0	1 666.6	1 895.6	1 798.9	1 770.5	2 073.0	2 230.8
Greece	113.2	135.6	122.4	118.9	144.3	167.6	190.2	188.4	198.7
Hong Kong, China	262.4	242.8	162.9	188.1	211.2	228.5	148.8	114.9	47.1
Hungary	154.1	193.0	203.3	209.3	227.9	366.6	163.7	182.1	282.0
India	49.4	44.7	66.6	68.3	70.6	76.4	123.8	109.7	149.1
Ireland	16.4	12.2	11.5	6.8	6.5	6.6	4.1	2.8	1.4
Italy	652.8	704.8	670.2	781.2	871.5	903.3	890.1	986.1	1 079.4
Japan	2 657.4	2 905.2	2 611.6	2 575.1	2 941.3	3 021.4	2 976.7	3 036.1	2 985.7
Korea, Rep. of	880.4	889.7	880.6	973.3	1 080.2	1 197.1	1 230.6	1 204.4	1 190.5
Mexico	198.6	231.7	229.4	292.1	325.3	403.9	406.8	439.7	452.8
Netherlands	584.1	615.6	520.6	526.0	583.5	594.3	656.3	971.4	1 043.2
New Zealand	12.8	9.7	5.7	10.7	17.3	22.1	19.1	17.1	16.1
Norway	186.0	252.5	224.1	282.2	301.6	355.5	370.8	387.1	508.3
Portugal	159.7	194.9	175.0	172.9	193.2	211.2	238.6	253.9	231.8
Singapore	76.7	81.0	229.9	271.7	85.0	188.7	234.2	292.9	217.8
South Africa	6.0	8.2	5.4	4.8	7.7	3.9	18.1	29.3	6.6
Spain	220.7	231.0	216.1	222.7	283.3	326.5	333.9	399.0	450.6
Sweden	104.6	109.1	97.2	120.2	118.9	150.2	135.1	143.2	205.3
Switzerland	123.6	136.3	130.5	119.4	125.1	132.5	132.0	191.7	214.9
Thailand	159.6	356.1	232.2	259.3	330.3	390.7	386.9	418.4	420.9
Turkey	132.8	169.6	125.5	185.5	274.0	327.0	382.9	414.4	489.8
United Kingdom	444.0	277.1	346.9	371.1	294.7	234.2	200.8	294.2	295.3
United States	2 835.9	2 687.6	2 677.1	2 918.2	2 982.7	3 297.7	3 690.7	3 461.1	2 951.1
Yugoslavia	1.7	3.0	4.2	11.0	20.1	24.5	39.7	63.1	77.8
Total	14 308.7	15 720.8	14 686.3	15 642.8	17 008.3	18 551.3	18 318.2	19 253.9	19 251.5

a Covers principal imports and exports of aluminium and aluminium alloys. **na** Not available or not applicable.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

242 Australian exports of clays, by destination [a]

	Japan	New Zealand	United Kingdom	Other	Total Volume	Total Value
	t	t	t	t	t	$'000
1962	na	775	na	na	874	26
1963	na	634	na	na	801	36
1964	na	2 193	na	na	2 756	77
1965	na	552	na	na	2 560	56
1966	na	714	na	na	3 514	120
1967	na	650	na	na	4 890	223
1968	na	657	na	na	4 544	224
1969	na	614	na	na	6 145	182
1970	2 894	973	2 433	1 004	7 304	324
1971	2 271	681	2 827	598	6 377	299
1972	1 554	703	1 998	489	4 744	211
1973	2 038	1 011	3 249	332	6 630	286
1974	1 198	895	3 953	201	6 247	278
1975	1 732	175	4 816	126	6 849	294
1976	1 500	101	3 025	326	4 952	228
1977	2 115	462	5 400	1 950	9 927	679
1978	1 609	600	5 001	6 198	13 408	1 054
1979	1 939	1 175	2 597	381	6 092	525
1980	735	125	1 206	327	2 393	281
1981	1 539	313	596	577	3 025	364
1982	1 364	463	1 376	2 133	5 336	983
1983	927	365	1 601	5 025	7 918	1 041
1984	2 878	829	2 234	11 074	17 015	1 683
1985	1 549	719	1 877	4 259	8 404	1 021
1986	9 670	1 241	2 106	4 428	17 445	1 980
1987	14 990	3 908	1 059	11 401	31 358	4 743
1988	40 983	9 003	1 965	16 133	68 084	10 480
1988-89	71 466	10 044	1 808	27 281	110 599	16 315
1989-90	94 507	6 779	2 303	39 601	143 190	19 953
1990-91	119 979	7 528	1 175	32 203	160 885	24 557
1991-92	97 614	5 260	135	46 424	149 433	23 408
1992-93	115 735	5 009	100	43 774	164 618	28 090
1993-94	122 866	5 495	0	43 209	171 570	30 926
1994-95	85 853	4 987	844	60 509	152 193	24 656
1995-96	103 848	5 226	1 224	68 504	178 802	33 523
1996-97	52 775	5 671	43	47 208	105 697	20 801
1997-98	2 797	6 036	1 321	34 068	44 222	10 609
1998-99	4 886	6 237	2 320	30 059	43 502	10 570
1999-00	4 039	11 760	3 474	60 069	79 342	10 203
2000-01	6 152	4 768	266	21 539	32 725	7 924
2001-02	31 119	7 963	332	100 828	140 242	11 109
2002-03	12 137	11 346	231	87 538	111 252	15 862
2003-04	18 364	7 869	232	33 132	59 597	13 738
2004-05	2 893	19 366	308	37 147	59 714	12 420
2005-06	2 875	25 084	82	27 530	55 571	9 976
2006-07	2 407	17 603	122	44 151	64 283	10 933
2007-08	2 525	34 494	61	232 816	269 896	11 958

a Excludes activated clays. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; ABARE.

243 Australian imports of clays

	Bentonite a		Kaolin b		Refactory clays c		Other clays d	
	t	$'000	t	$'000	t	$'000	t	$'000
1961	7 006	239	15 789	278	298	23	5 684	232
1962	9 353	357	15 131	280	1 491	47	6 321	303
1963	10 938	492	24 589	448	1 649	65	5 960	250
1964	14 286	569	25 089	496	4 380	171	9 578	354
1965	16 312	644	26 128	517	3 524	182	14 793	271
1966	15 346	494	31 991	686	3 705	148	9 939	406
1967	21 263	615	37 908	878	2 391	101	14 270	519
1968	44 513	984	44 603	1 030	5 071	173	12 578	548
1969	54 597	1 134	43 606	1 075	4 825	112	13 177	590
1970	66 484	1 474	56 571	1 458	7 720	285	20 245	686
1971	88 803	1 887	42 579	1 268	10 565	267	12 178	726
1972	49 861	1 540	33 314	991	5 949	174	12 442	504
1973	57 965	1 390	38 344	1 130	2 154	70	16 920	665
1974	85 363	1 649	37 535	1 028	4 880	106	25 616	1 207
1975	54 736	1 142	5 572	387	16 139	561	26 654	1 286
1976	22 204	708	8 620	426	5 054	231	25 711	1 679
1977	13 191	558	7 488	521	6 665	367	29 342	2 051
1978	30 355	1 375	11 773	750	3 652	350	57 957	3 872
1979	57 241	2 028	6 751	537	2 610	198	45 635	3 842
1980	55 917	2 424	3 624	404	15 119	1 125	25 097	2 505
1981	43 034	1 828	11 737	1 113	16 564	1 431	36 658	2 720
1982	32 571	2 067	15 668	1 780	10 874	1 141	8 649	1 836
1983	17 767	1 611	9 829	1 663	3 327	461	9 261	1 373
1984	24 419	2 617	7 652	1 580	13 408	1 485	16 216	2 606
1985	30 531	3 474	2 586	870	904	209	29 166	5 412
1986	24 942	2 643	4 785	2 892	2 719	431	21 776	4 400
1987	8 654	1 822	12 641	6 002	17 367	2 079	14 021	3 773
1988	22 269	3 530	12 487	3 113	17 324	2 253	5 217	1 946
1988-89	21 344	2 553	17 174	3 927	30 795	3 793	9 441	4 410
1989-90	28 476	4 427	11 896	3 204	10 953	1 653	24 462	5 070
1990-91	28 348	3 858	11 331	3 172	4 979	813	18 574	4 146
1991-92	12 529	2 596	7 119	3 413	13 752	1 834	8 330	2 950
1992-93	21 004	4 078	11 965	6 104	1 442	371	10 569	3 806
1993-94	16 227	3 537	12 476	4 774	2 016	464	6 875	3 155
1994-95	29 151	3 290	17 686	7 450	6 038	1 717	26 312	5 524
1995-96	4 202	2 864	17 167	5 284	5 192	927	44 704	8 194
1996-97	9 633	2 481	19 535	6 919	1 910	473	23 648	5 340
1997-98	12 124	3 872	16 298	7 500	5 220	1 021	26 641	7 427
1998-99	7 035	3 179	13 525	8 510	1 539	443	19 873	6 553
1999-00	15 291	4 353	9 410	6 235	3 414	819	19 988	6 875
2000-01	25 611	5 524	11 629	9 321	8 985	1 559	23 333	9 563
2001-02	28 900	6 636	10 239	9 113	2 794	754	19 963	8 068
2002-03	26 841	4 870	6 957	4 097	10 402	2 176	12 086	5 702
2003-04	26 629	5 854	13 379	8 293	12 819	2 231	14 846	5 322
2004-05	22 009	5 130	13 376	6 714	6 417	1 071	11 856	4 755
2005-06	36 930	4 751	18 772	8 477	9 469	1 748	5 728	2 970
2006-07	37 945	4 617	16 861	7 573	5 090	1 036	7 813	4 372
2007-08	43 574	6 351	19 182	8 180	4 500	1 154	9 338	4 468

a Includes bentonitic clay. **b** Includes ball and china clay. **c** Includes fireclay and chamotte. **d** Includes andalusite, mullite, kyanite, sillimanite and other clays.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; ABARE.

244 Summary of Australian statistics for black coal

	Production		Domestic	Exports		Closing
	Raw	Net a	consumption	Volume	Unit value	stocks b
	Mt	Mt	Mt	Mt	$/t	Mt
1963-64	27.86	25.49	21.32	3.86	8.39	na
1964-65	30.11	27.54	22.02	5.94	8.31	na
1965-66	34.23	31.22	22.85	8.87	8.12	na
1966-67	35.95	32.29	23.15	8.04	8.03	na
1967-68	39.06	34.71	24.04	10.48	8.21	na
1968-69	44.86	39.81	24.71	14.41	8.33	na
1969-70	50.41	44.30	25.57	17.97	9.32	na
1970-71	52.97	45.00	24.96	18.96	10.50	7.59
1971-72	58.86	49.02	25.49	21.85	10.89	9.27
1972-73	66.19	54.63	27.39	25.83	11.28	10.68
1973-74	66.58	54.74	27.68	28.39	12.50	9.35
1974-75	72.21	63.78	30.19	32.42	22.10	10.52
1975-76	77.13	62.33	29.45	30.43	34.96	12.97
1976-77	85.96	69.55	32.19	35.37	37.23	14.95
1977-78	87.79	71.01	32.56	37.91	39.14	15.50
1978-79	91.90	73.37	33.43	38.28	38.99	17.17
1979-80	90.20	73.59	35.62	43.16	39.35	11.97
1980-81	106.20	87.39	37.71	47.25	41.64	14.22
1981-82	110.20	91.08	36.79	46.12	49.64	21.34
1982-83	120.34	99.59	37.29	54.65	56.21	28.02
1983-84	129.44	105.55	38.64	64.33	51.77	27.98
1984-85	145.14	118.26	40.67	86.10	54.09	21.95
1985-86	163.62	134.31	42.56	90.30	57.49	23.93
1986-87	182.43	148.73	44.07	97.70	55.46	32.71
1987-88	167.69	136.35	46.01	102.10	46.61	20.59
1988-89	184.05	149.35	49.87	97.66	48.04	20.91
1989-90	196.85	160.41	50.68	104.58	55.74	27.37
1990-91	204.68	166.56	50.92	113.37	56.08	29.10
1991-92	218.20	176.47	52.81	123.30	55.38	29.61
1992-93	222.50	177.99	52.94	129.18	58.28	26.23
1993-94	221.50	177.98	54.18	129.06	55.49	21.81
1994-95	237.23	192.35	55.36	136.24	50.45	23.30
1995-96	243.02	194.53	57.41	138.55	56.00	21.29
1996-97	261.34	207.50	57.88	145.75	54.42	24.91
1997-98	278.64	222.37	61.26	162.61	58.62	25.77
1998-99	284.29	225.01	61.64	169.41	54.54	19.92
1999-00	298.66	239.43	61.30	175.78	47.20	20.03
2000-01	321.48	258.22	64.13	193.50	55.81	21.48
2001-02	345.14	272.59	66.16	197.87	67.37	27.39
2002-03	348.92	274.85	66.34	207.74	57.26	27.14
2003-04	360.41	286.03	69.24	218.43	49.82	21.87
2004-05	393.36	305.01	71.29	231.31	73.90	23.66
2005-06	398.37	307.19	71.58	231.30	104.67	25.36
2006-07	413.74	323.92	na	243.59	89.48	na
2007-08	416.88 s	324.83 s	na	252.00	96.67	na

a Before 1980-81, net production referred to raw coal production less rejects removed at coal industry washeries plus/less unexplained stock adjustments at mines and ports. From 1980-81, net production refers to raw coal production less rejects removed at coal industry washeries plus/less unexplained stock adjustments at mines only. Thus, from 1980-81, net production is identical to salable production. **b** Calendar year basis before 1984-85. **s** ABARE estimate. **na** Not available.

Sources: Joint Coal Board, *Black Coal in Australia 1987-88,* Sydney; Coal Services Pty Ltd, *Australian Black Coal Statistics,* Sydney; Queensland Department of Natural Resources, Mines and Energy; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABARE.

245 Australian raw coal production, by state

	New South Wales Mt	Victoria a Mt	Queensland Mt	Western Australia Mt	South Australia Mt	Tasmania Mt
1960-61	18.45	15.98	3.07	0.75	1.02	0.29
1961-62	19.39	17.00	3.47	0.95	1.25	0.26
1962-63	19.03	18.05	3.48	0.95	1.50	0.24
1963-64	20.56	18.98	4.50	0.93	1.63	0.18
1964-65	22.16	19.87	4.86	0.97	1.94	0.13
1965-66	25.41	21.90	5.56	1.08	2.04	0.10
1966-67	26.63	22.87	6.06	1.10	2.05	0.08
1967-68	28.57	23.43	7.19	1.08	2.02	0.09
1968-69	32.24	23.50	9.20	1.12	2.18	0.11
1969-70	35.32	24.31	11.65	1.17	2.15	0.12
1970-71	35.72	23.18	14.32	1.18	1.62	0.12
1971-72	36.96	23.63	19.01	1.21	1.56	0.12
1972-73	38.66	24.12	25.27	1.15	1.58	0.13
1973-74	36.63	26.44	27.15	1.20	1.49	0.12
1974-75	42.31	27.54	32.10	1.88	1.79	0.14
1975-76	40.59	29.21	32.40	2.14	1.82	0.18
1976-77	46.79	30.99	34.66	2.38	1.95	0.20
1977-78	49.25	30.47	34.14	2.42	1.78	0.19
1978-79	50.52	32.10	37.26	2.41	1.47	0.25
1979-80	48.71	32.90	36.53	3.03	1.72	0.21
1980-81	58.29	32.10	42.76	3.12	1.73	0.30
1981-82	59.82	37.57	45.14	3.42	1.44	0.39
1982-83	67.46	34.71	46.91	3.96	1.45	0.56
1983-84	66.53	33.20	57.20	3.93	1.33	0.45
1984-85	70.03	38.38	69.21	3.65	1.75	0.49
1985-86	77.19	36.08	80.01	3.75	2.17	0.50
1986-87	88.51	41.81	87.09	3.78	2.43	0.62
1987-88	76.27	44.29	84.61	3.69	2.52	0.60
1988-89	81.27	48.65	95.48	3.89	2.76	0.65
1989-90	93.89	45.96	95.30	4.13	2.94	0.60
1990-91	96.70	49.39	99.67	5.21	2.53	0.59
1991-92	101.17	50.72	108.32	5.29	2.88	0.54
1992-93	102.91	47.90	110.93	5.40	2.79	0.48
1993-94	101.95	49.68	111.12	5.15	2.69	0.57
1994-95	107.78	49.92	119.97	5.82	3.04	0.61
1995-96	113.09	54.28	120.93	5.97	2.45	0.58
1996-97	123.68	60.79	128.92	5.59	2.59	0.56
1997-98	134.01	65.27	135.56	5.80	2.70	0.58
1998-99	131.38	66.65	143.79	5.74	2.80	0.57
1999-00	132.90	67.36	155.72	6.63	2.87	0.55
2000-01	138.78	64.96	172.88	6.19	3.16	0.47
2001-02	145.23	66.66	190.07	6.25	3.06	0.54
2002-03	143.07	66.81	195.96	6.14	3.24	0.52
2003-04	147.05	66.34	203.70	5.98	3.21	0.48
2004-05	156.31	67.15	226.62	6.22	3.64	0.58
2005-06	161.14	67.72	226.53	6.30	3.80	0.60
2006-07	169.72	65.61	233.47	6.18	3.60	0.77
2007-08 s	177.02	72.40	228.94	6.44	3.84	0.64

a Brown coal. Between 1960-61 and 1968-69, Victoria produced small quantities of black coal which are not included in this table. **s** ABARE estimate.
Sources: Joint Coal Board, *Black Coal in Australia 1987-88*, Sydney; Joint Coal Board and the Queensland Department of Mines and Energy, *Australian Black Coal Statistics*, Sydney; Victorian Department of Natural Resources and Environment; ABARE.

246 Australian consumption of coal, by major end use

	Black coal					Brown coal
	Electricity generation	Iron and steel a	Cement Industry	Other consumers	Total	Electricity generation
	Mt	Mt	Mt	Mt	Mt	Mt
1983-84	28.06	6.22	0.92	3.44	38.64	32.05
1984-85	29.74	6.25	1.02	3.67	40.67	37.09
1985-86	31.48	6.20	0.93	3.95	42.56	34.89
1986-87	32.76	6.44	0.70	4.18	44.07	40.49
1987-88	33.91	7.22	0.69	4.20	46.01	43.07
1988-89	36.82	7.92	0.79	4.34	49.87	47.35
1989-90	38.17	7.43	0.85	4.23	50.68	44.87
1990-91	38.41	7.40	0.86	4.25	50.92	49.39
1991-92	39.88	7.35	0.85	4.72	52.81	50.72
1992-93	40.68	7.11	0.87	4.28	52.94	47.65
1993-94	41.83	7.09	0.90	4.37	54.18	48.75
1994-95	42.82	7.55	0.74	4.26	55.36	50.75
1995-96	45.60	6.39	0.82	4.60	57.41	53.71
1996-97	46.15	6.24	0.80	4.68	57.88	58.16
1997-98	48.16	7.55	0.86	4.69	61.26	66.26
1998-99	49.68	6.48	0.87	4.61	61.64	69.55
1999-00	50.16	5.63	0.85	4.66	61.30	69.96
2000-01	53.54	5.20	0.74	4.66	64.13	67.96
2001-02	55.46	5.46	0.78	4.46	66.16	68.71
2002-03	55.55	5.41	0.85	4.52	66.34	68.81
2003-04	58.51	5.28	0.90	4.55	69.24	69.83
2004-05	60.43	4.99	0.90	4.97	71.29	70.27
2005-06	61.48	4.26	0.94	4.90	71.58	na
2006-07	na	na	na	na	na	na

a As received basis. **na** Not available.

Sources: Joint Coal Board, *Black Coal in Australia 1987-88*, Sydney; Joint Coal Board and the Queensland Department of Mines and Energy, *Australian Black Coal Statistics*, Sydney; Victorian Department of Natural Resources and Environment; ABARE.

247 Australian exports of coal, by coal type

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Metallurgical coal									
High quality									
Volume	Mt	61.96	65.46	66.45	67.55	80.73	77.48	82.81	83.67
Value	$m	4 241	5 353	5 122	4 340	7 692	12 203	11 010	10 849
Unit value	$/t	68.44	81.77	77.08	64.26	95.28	157.49	132.96	129.66
Excluding high quality									
Volume	Mt	43.56	40.37	41.34	44.19	44.19	42.99	49.15	53.28
Value	$m	2 356	2 685	2 325	2 169	3 067	4 800	4 029	5 146
Unit value	$/t	54.07	66.51	56.25	49.10	69.40	111.65	81.97	96.60
Total									
Volume	Mt	105.53	105.83	107.79	111.73	124.92	120.48	131.97	136.95
Value	$m	6 597	8 038	7 448	6 510	10 758	17 003	15 039	15 996
Unit value	$/t	62.51	75.95	69.09	58.26	86.12	141.13	113.96	116.80
Thermal coal									
Volume	Mt	87.98	92.04	99.95	106.69	106.40	110.82	111.62	115.05
Value	$m	4 204	5 294	4 448	4 372	6 336	7 206	6 758	8 364
Unit value	$/t	47.78	57.51	44.50	40.98	59.55	65.02	60.54	72.70

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Department of Foreign Affairs and Trade, computer database compiled from trade data supplied by the ABS.

248 Volume of Australian exports of thermal coal, by destination

	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt	2006-07 Mt	2007-08 Mt
Asia								
ASEAN **a**	2.24	2.48	2.62	2.61	3.79	4.12	7.22	4.82
China **b**	0.60	2.95	3.99	2.45	1.75	3.99	3.22	1.48
Chinese Taipei	8.65	10.24	10.82	9.89	14.33	13.21	16.23	18.56
Hong Kong, China	0.42	0.26	0.73	1.20	0.37	0.08	0.01	0.00
Japan	49.99	49.62	52.44	58.78	57.28	59.33	58.64	66.92
Korea, Rep. of	12.80	13.40	14.20	16.22	17.95	20.24	15.06	18.53
Other Asia	4.92	3.45	2.79	3.51	2.42	1.59	1.17	0.87
Total	79.63	82.40	87.59	94.66	97.89	102.55	101.56	111.18
Europe								
European Union **c**	6.54	6.30	7.49	7.86	3.48	2.32	3.73	2.15
Denmark	0.16	0.19	0.41	0.79	0.00	0.28	0.16	0.00
Germany	0.00	0.17	0.00	0.26	0.12	0.00	0.13	0.00
Netherlands	1.39	1.51	1.82	1.59	0.73	0.30	0.74	0.19
United Kingdom	1.75	0.97	1.28	1.88	0.99	0.43	0.60	0.07
Other Europe	1.86	3.38	4.98	4.29	5.19	6.77	6.43	1.97
Total all countries	87.98	92.04	99.95	106.69	106.40	110.82	111.62	115.05

a Includes Brunei Darrusalam, Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. **b** Excludes Hong Kong. **c** Regarded as twenty five countries for all years.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Department of Foreign Affairs and Trade, computer database compiled from trade data provided by the ABS.

249 Volume of Australian exports of high quality metallurgical coal, by destination

	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt	2006-07 Mt	2007-08 Mt
Asia								
China **a**	0.43	0.04	0.68	3.07	3.73	2.22	2.41	1.37
Chinese Taipei	3.90	4.01	3.82	3.43	3.51	3.31	3.47	3.43
India	9.09	9.67	11.08	10.09	13.41	13.63	16.30	18.94
Japan	16.76	17.37	18.22	17.78	22.87	23.87	25.42	24.89
Korea, Rep. of	6.43	6.63	7.44	6.80	8.01	6.58	6.25	6.57
Pakistan	0.42	0.49	0.44	0.43	0.59	0.05	0.20	0.21
Other Asia	1.55	2.11	1.80	1.20	1.18	1.34	1.48	1.59
Total Asia	38.57	40.33	43.50	42.82	53.32	51.00	55.53	57.01
Europe								
European Union **b**	17.31	18.43	16.60	17.77	19.49	19.32	20.20	19.49
France	3.22	2.94	2.54	2.32	2.47	2.20	2.26	1.89
Germany	1.40	1.24	1.46	1.37	1.58	1.78	2.16	1.62
Italy	2.24	2.34	1.63	1.93	2.53	2.26	2.29	2.25
United Kingdom	4.31	3.97	3.72	3.67	4.01	3.52	3.65	3.28
Other Europe	7.28	8.19	7.76	8.43	9.52	13.23	7.08	7.18
Total all countries	61.96	65.46	66.45	67.55	80.73	77.48	82.81	83.67

a Excludes Hong Kong. **b** Regarded as twenty five countries for all years.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Department of Foreign Affairs and Trade, computer database compiled from trade data provided by the ABS.

250 Volume of Australian exports of metallurgical coal other than high quality, by destination

	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt	2006-07 Mt	2007-08 Mt
Asia								
India	1.64	2.27	3.02	3.49	4.03	2.77	3.32	5.28
Japan	26.72	23.02	23.09	23.60	22.09	20.35	23.44	25.34
Europe								
European Union a	4.76	4.24	3.42	4.04	4.76	4.73	4.34	4.62
Americas								
Brazil	2.20	1.62	2.30	0.77	0.00	0.00	0.00	0.59
Total all countries	43.56	40.37	41.34	44.19	44.19	42.99	49.15	53.28

a Regarded as twenty five countries for all years.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Department of Foreign Affairs and Trade, computer database compiled from trade data provided by the ABS.

251 Volume of world exports of coal, by coal type and major exporters

	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 Mt	2006 Mt	2007 Mt
Metallurgical coal								
Australia a	100.8	106.1	104.4	111.5	116.7	124.9	124.4	138.2
Canada	28.4	26.9	23.0	23.7	23.8	26.7	24.6	26.7
China	6.5	11.4	13.3	13.1	5.8	5.3	4.3	3.0
Poland	5.3	3.8	3.5	2.7	3.0	3.2	3.6	2.4
Russian Federation	7.3	14.4	9.2	9.5	11.9	10.0	10.0	14.9
United States	29.8	23.1	19.5	20.0	24.3	26.0	24.9	29.2
World a	185.9	189.3	186.1	189.8	199.9	205.6	209.6	227.2
Total seaborne	171.3	181.3	172.4	190.5	191.3	196.6	204.6	226.7
Thermal coal								
Australia	85.5	86.7	98.5	103.1	106.9	107.6	111.6	112.2
Canada	4.1	2.7	2.1	1.3	1.9	1.4	2.9	4.0
China a	48.6	78.7	70.6	80.9	80.9	66.4	58.9	50.7
Colombia	35.6	39.1	35.5	45.5	50.9	53.6	62.0	67.2
Indonesia	57.4	65.3	74.2	84.9	96.2	128.0	170.0	190.7
Poland	18.0	19.2	19.1	17.4	16.6	16.2	13.1	9.5
Russian Federation	29.4	27.1	34.3	45.2	56.7	76.0	81.4	85.2
South Africa	69.9	68.2	68.5	70.9	67.0	70.9	68.9	65.8
United States	23.2	21.0	16.3	18.9	19.0	19.1	19.9	24.2
World	431.3	478.4	492.7	534.8	582.6	610.2	672.8	696.5
Total seaborne	356.5	384.7	407.6	445.3	489.0	532.1	571.1	607.0

a Includes pulverised coal injection – coal used for metallurgical purposes.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; International Energy Agency, *Coal Information,* OECD, Paris; ABARE.

252 Volume of Japanese imports of coal, by source

	Total imports	Australia	Canada	China	Indonesia	Russian Federation	South Africa	United States	Other
	Mt	%	%	%	%	%	%	%	%
Thermal coal									
1999	60.32	39.1	1.3	8.7	3.7	2.5	2.2	2.7	0.0
2000	65.29	41.8	1.4	11.1	3.5	3.1	1.6	2.7	0.0
2001	71.14	45.0	0.5	15.0	4.7	3.3	1.1	1.5	0.0
2002	72.83	45.3	0.9	15.7	5.4	3.8	0.9	0.9	0.1
2003	79.60	51.9	1.0	16.6	6.1	3.9	0.1	0.0	0.0
2004	91.52	59.5	0.9	17.7	8.3	5.0	0.0	0.1	0.1
2005	90.98	59.4	0.7	16.3	7.8	6.6	0.1	0.0	0.0
2006	86.67	58.3	1.6	13.6	7.8	5.3	0.0	0.0	0.0
2007	95.17	65.2	2.1	11.0	9.0	7.5	0.4	0.0	0.0
Metallurgical coal									
1999	74.10	40.7	14.2	3.1	10.1	2.3	0.6	2.1	1.1
2000	76.30	44.1	12.0	4.2	10.5	2.4	0.3	1.5	1.3
2001	79.52	45.5	11.0	7.4	11.5	2.4	0.1	0.8	0.9
2002	80.81	45.0	8.4	10.3	13.2	2.6	0.0	0.3	0.9
2003	82.43	42.8	8.2	11.5	15.4	3.6	0.0	0.1	0.9
2004	82.62	42.8	5.3	8.7	16.6	4.1	0.0	3.9	1.1
2005	83.94	43.9	6.6	5.7	21.6	3.3	0.0	2.1	0.8
2006	84.58	44.1	7.2	4.9	23.7	3.3	0.0	0.4	1.1
2007	85.79	47.4	8.5	2.1	23.7	3.5	0.0	0.0	0.6

Source: ABS; International Energy Agency, *Energy Prices and Taxes,* OECD, Paris.

253 Volume of European Union imports of coal, by source a

	Total imports	Australia	Canada	Columbia	Russian Federation	South Africa	United States	Other
	Mt	%	%	%	%	%	%	%
Thermal coal								
1999	105.05	8.2	0.2	14.8	4.8	30.1	5.4	36.5
2000	115.50	6.4	0.2	15.9	7.3	31.5	5.3	33.4
2001	134.21	6.0	0.2	13.5	10.3	30.1	6.5	33.4
2002	129.54	6.1	0.1	13.9	9.9	33.5	2.9	33.6
2003	144.18	6.5	0.0	14.6	11.8	34.5	1.9	30.8
2004	159.05	5.3	0.0	13.1	17.3	31.1	2.4	30.8
2005	158.17	3.5	0.1	13.5	21.2	30.8	2.0	28.8
2006	169.99	3.4	0.1	12.5	12.7	27.4	2.0	41.8
2007	180.75	3.9	0.2	14.3	26.5	23.2	2.8	29.0
Metallurgical coal								
1999	40.87	37.4	12.9	0.6	0.7	2.7	35.0	10.8
2000	41.85	41.3	12.7	0.4	0.4	1.8	31.0	12.4
2001	39.63	43.9	13.5	0.2	0.6	4.3	25.3	12.3
2002	35.66	44.8	13.4	0.0	0.7	2.7	23.9	14.5
2003	37.12	42.8	12.1	0.4	1.8	6.6	24.9	11.4
2004	45.22	39.8	12.5	1.1	2.2	6.1	23.3	14.9
2005	46.43	39.8	12.7	0.7	5.7	4.0	22.7	14.4
2006	50.98	39.5	11.0	0.0	4.2	2.4	21.1	21.7
2007	59.80	34.8	11.3	0.9	5.5	1.2	23.4	23.0

a Imports from non-EU countries only. Regarded as fifteen countries.

Source: International Energy Agency, *Energy Prices and Taxes,* OECD, Paris.

254 Japanese and European Union coal import unit values, by country of origin a

	1999 US$/t	2000 US$/t	2001 US$/t	2002 US$/t	2003 US$/t	2004 US$/t	2005 US$/t	2006 US$/t	2007 US$/t
Japan									
Thermal coal									
Australia	36.12	34.59	38.32	37.38	35.13	50.20	61.90	63.90	71.03
Canada	33.50	34.72	36.94	37.34	33.82	52.60	63.79	56.32	66.04
China	34.89	33.69	36.95	36.25	35.28	55.06	65.65	63.88	73.60
Indonesia	32.40	31.85	35.17	34.52	32.72	46.98	59.65	60.31	66.45
South Africa	37.34	35.82	38.05	40.30	35.21	na	80.64	na	77.46
United States	45.37	45.49	45.99	48.63	na	186.48	na	596.68	553.99
All sources b	35.87	34.59	37.95	36.95	34.93	51.48	62.73	63.33	70.92
Metallurgical coal									
Australia	41.83	39.01	40.96	43.32	43.56	56.85	96.44	106.20	96.03
Canada	51.05	45.46	47.30	50.50	51.64	62.04	106.05	125.68	112.61
China	40.01	37.12	39.35	38.97	39.09	72.57	100.45	91.98	100.91
Indonesia	34.07	32.36	35.13	34.12	31.94	40.78	53.51	53.73	60.43
South Africa	39.74	39.99	47.09	na	na	na	na	na	na
United States	55.79	52.69	47.81	52.07	42.93	163.61	159.01	159.35	516.32
All sources b	42.95	39.46	41.13	42.14	41.73	61.40	88.80	93.10	88.43
European Union c									
Thermal coal									
Australia	36.68	39.04	44.13	43.28	46.83	69.05	106.40	109.71	103.73
Indonesia	29.35	30.05	36.08	36.48	39.29	52.56	61.27	61.85	71.95
Poland	35.03	35.30	44.41	40.75	43.26	68.95	78.34	na	na
South Africa	31.78	33.83	42.32	36.65	39.10	58.00	67.64	66.24	80.25
United States	40.67	41.07	46.52	43.48	47.37	61.50	86.75	82.08	97.50
All sources d	34.43	35.22	42.96	38.69	41.94	61.91	71.27	69.80	82.21
Metallurgical coal									
Australia	47.33	45.45	51.24	55.52	58.03	73.63	114.89	135.52	127.74
Poland	47.48	50.43	51.58	50.15	62.24	108.71	138.92	na	na
South Africa	36.21	39.09	42.10	38.69	39.20	61.31	71.77	66.18	96.82
United States	54.14	52.91	58.54	61.48	64.18	84.75	110.91	123.44	126.95
All sources d	48.97	47.88	53.56	56.63	59.61	78.12	109.61	125.86	125.73

a Average unit value cif. **b** Average includes countries not listed separately. **c** Fifteen countries for all years. **d** Average includes non-EU countries not listed separately. **na** Not available.

Source: International Energy Agency, *Energy Prices and Taxes,* OECD, Paris.

255 Selected Australian-Japanese prices for metallurgical and thermal coal a

	2001	2002	2003	2004	2005	2006	2007	2008
Metallurgical coal								
Hard b								
US$/t	42.75	48.10	46.20	57.00	125.00	115.00	98.00	300.00
A$/t	83.07	85.53	66.59	77.20	166.43	150.65	112.94	340.74
Real A$/t	102.25	102.09	77.61	87.84	184.16	161.22	117.59	340.74
Other c								
US$/t	36.00	33.05	31.05	41.00	80.00	56.00	64.00	240.00
A$/t	69.95	58.77	44.76	55.53	106.52	73.36	73.76	272.60
Real A$/t	86.11	70.14	52.16	63.18	117.86	78.51	76.79	272.60
Thermal coal d								
US$/t	34.50	28.75	26.75	45.00	52.50	52.50	55.50	125.00
A$/t	67.04	51.12	38.56	60.95	69.90	68.77	63.96	141.98
Real A$/t	82.52	61.02	44.94	69.35	77.35	73.60	66.59	141.98

a Japanese fiscal year beginning 1 April. Prices are fob; real prices are in 2008 Australian dollar terms. **b** For example, Goonyella export coal. **c** Non-hard coking coal price based on Australian/Japanese contract settlements. **d** For steaming coal with a calorific value of 6700 kcal/kg (gross air dried).
Sources: International Energy Agency, *Coal Information*, OECD, Paris; ABARE.

256 Australian and US coal export unit values, by destination a

	1999 US$/t	2000 US$/t	2001 US$/t	2002 US$/t	2003 US$/t	2004 US$/t	2005 US$/t	2006 US$/t	2007 US$/t
Australia									
Thermal coal									
France	22.37	19.14	31.38	22.62	24.05	29.77	45.88	46.28	44.93
Italy	22.27	21.30	31.07	25.26	24.77	31.26	na	na	na
Japan	27.02	24.72	29.69	29.20	26.00	38.45	49.42	50.59	54.61
Netherlands	20.49	20.65	26.45	24.65	26.69	42.90	60.71	50.50	49.60
All destinations **b**	26.49	24.27	28.71	28.01	25.41	37.65	48.86	47.05	51.11
Metallurgical coal									
France	36.49	33.37	37.32	41.41	39.06	46.79	96.94	100.91	89.99
Italy	40.38	34.97	42.68	45.90	45.51	51.40	102.14	116.96	99.64
Japan	34.60	31.64	34.46	36.79	36.18	45.51	83.74	94.04	79.50
Netherlands	37.73	34.10	41.09	46.17	45.45	52.07	98.18	102.32	92.15
All destinations **b**	35.99	32.85	36.93	40.16	39.75	48.84	88.94	98.27	84.16
United States									
Thermal coal									
France	42.14	28.96	30.50	na	na	na	40.17	64.19	91.66
Italy	51.13	30.67	42.50	42.91	46.67	46.90	89.78	51.04	76.87
Japan	35.40	34.90	37.70	40.41	166.40	91.47	105.21	166.53	198.41
Netherlands	28.44	28.90	35.71	36.88	33.13	43.79	76.28	69.91	69.83
All destinations **b**	32.02	31.84	34.51	37.70	37.00	53.93	67.09	55.66	52.61
Metallurgical coal									
France	47.10	44.19	48.54	54.96	55.56	71.81	99.69	102.30	96.39
Italy	51.02	49.45	53.11	56.41	54.49	66.99	86.21	104.96	104.34
Japan	44.46	41.99	na	na	56.01	98.14	100.61	89.80	na
Netherlands	47.90	45.46	48.90	55.39	52.13	72.20	93.04	95.44	94.55
All destinations **b**	46.19	42.98	45.88	50.06	49.11	70.14	89.91	111.72	98.10

a Average unit value, fob. **b** Average for all countries. **na** Not available.
Source: International Energy Agency, *Energy Prices and Taxes,* OECD, Paris.

257 World hard coal production, by country a

	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 Mt	2006 Mt	2007 Mt
Australia	239.4	264.2	273.2	274.9	285.9	300.2	299.7	323.0
Brazil	0.2	0.1	0.2	0.2	0.3	0.5	0.2	0.7
Canada	33.8	34.0	29.6	26.6	29.3	30.7	29.9	32.8
China **b**	1 178.8	1 218.6	1 343.6	1 587.7	1 867.6	2 066.6	2 219.4	2 437.5
Colombia	38.2	44.3	40.1	50.5	54.2	59.1	65.6	71.7
Former Soviet Union **c**	289.2	302.3	295.5	322.1	332.1	352.1	363.6	383.5
Germany	37.4	30.7	29.2	28.8	29.2	28.0	23.8	24.2
India	304.9	319.7	332.9	353.5	374.8	399.1	422.5	445.4
Indonesia	62.8	73.0	83.3	96.7	119.2	145.4	193.4	231.2
Poland	102.2	103.3	102.7	101.7	100.5	97.1	94.4	89.4
South Africa	224.2	223.6	220.2	238.8	242.8	245.0	244.8	243.6
United Kingdom	30.6	31.5	29.5	27.8	24.5	20.0	18.1	18.1
United States	894.0	948.8	917.0	892.9	932.2	949.7	977.7	967.2
World total **d**	3 539.9	3 699.0	3 798.9	4 104.6	4 504.2	4 815.8	5 082.8	5 409.9

a Hard coal includes anthracite and bituminous coal, and for the United States and New Zealand, sub-bituminous coal. **b** Excludes Hong Kong. **c** Total of fifteen countries. **d** Includes countries not listed separately.
Sources: International Energy Agency, *Coal Information,* OECD, Paris.

258 Summary of Australian statistics for dimension stone

	Production a	Exports		Imports
	Volume	Volume	Value	Value
	kt	t	$'000	$'000
1966	245	1 629	32	440
1967	290	280	16	408
1968	280	657	32	407
1969	269	792	44	427
1970	90	1 821	84	466
1971	81	1 209	57	569
1972	318	731	42	708
1973	144	1 621	105	395
1974	143	2 347	155	440
1975	255	379	na	606
1976	112	112	na	489
1977	84	757	180	832
1978	115	387	133	2 371
1979	122	1 086	83	2 224
1980	116	2 762	220	4 472
1981	125	205	46	5 450
1982	129	84	33	7 768
1983	97	1 224	367	6 619
1984	102	4 244	1 861	9 980
1985	190	2 537	782	14 025
1986	106	5 226	1 893	12 097
1987	99	2 974	1 119	15 231
1988	149	1 659	776	16 295
1988-89	92	2 913	1 441	19 732
1989-90	198	1 665	1 520	17 455
1990-91	na	3 393	4 417	11 237
1991-92	na	11 672	2 963	11 466
1992-93	553	8 721	4 501	11 173
1993-94	na	10 007	5 829	10 604
1994-95	na	14 605	5 531	9 811
1995-96	na	17 372	6 220	8 411
1996-97	na	15 364	5 519	7 828
1997-98	na	10 107	5 804	9 560
1998-99	na	16 766	6 509	12 327
1999-00	119	21 747	6 249	14 818
2000-01	104	18 029	7 725	11 958
2001-02	132	39 651	8 716	6 902
2002-03	143	16 851	6 074	9 111
2003-04	147	27 067	8 606	8 875
2004-05	266	28 099	9 263	9 321
2005-06	227	28 823	9 096	9 872
2006-07	193	31 466	9 681	7 439
2007-08	na	30 020	8 699	6 372

a Data incomplete because coverage differs between states. **b** Excludes the Australian Capital Territory, the Northern Territory and Queensland. **c** Excludes the Australian Capital Territory and the Northern Territory. **d** Excludes the Australian Capital Territory. **e** Excludes the Australian Capital Territory and Queensland. **f** Excludes the Australian Capital Territory, Queensland and Western Australia. **g** Excludes the Australian Capital Territory, Queensland and Tasmania. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* BMR, Canberra; state mines departments and their equivalents; ABARE.

259 Australian production of dimension stone, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
	kt	kt	kt	kt	kt	kt	kt
1965	225	15	4	189	32	1	474
1966	45	10	2	149	31	1	245
1967	45	11	2	129	47	2	290
1968	42	7	5	148	42	4	280
1969	31	9	3	167	49	2	269
1970	23	8	na	4	51	2	90
1971	13	10	na	7	50	1	81 **b**
1972	27	13	na	228	47	1	318 **c**
1973	14	15	na	67	46	2	144 **c**
1974	14	11	na	67	49	2	143 **c**
1975	12	12	na	187	40	2	255 **c**
1976	15	11	na	30	36	2	112 **c**
1977	13	8	4	22	27	3	84 **b**
1978	14	13	2	45	29	4	115 **b**
1979	16	7	8	56	28	6	122 **b**
1980	14	26	12	31	32	3	116 **d**
1981	24	29	24	20	27	1	125 **d**
1982	16	20	44	24	24	1	129 **e**
1983	21	35	na	11	29	1	97 **e**
1984	22	18	na	25	35	1	102 **e**
1985	22	28	na	101	34	4	190 **f**
1986	21	19	na	32	31	2	106 **f**
1987	21	46	na	na	31	1	99 **g**
1988	32	31	na	50	34	2	149 **h**
1988-89	34	17	na	na	40	1	92 **g**
1989-90	32	52	9	72	31	2	198
1990-91	40	6	na	na	42	2	na
1991-92	35	na	na	na	61	2	na
1992-93	33	12	31	414	61	2	553
1993-94	na	na	25	na	na	na	na
1994-95	na	na	na	na	na	na	na
1995-96	29	na	na	na	31	na	na
1996-97	25	na	20	1	28	na	na
1997-98	25	na	17	3	37	na	na
1998-99	34	5	25	4	41	na	na
1999-00	32	4	20	3	52	7	119
2000-01	27	2	30	1	38	6	104
2001-02	28	21	39	2	36	5	132 **i**
2002-03	32	15	43	2	42	3	143 **i**
2003-04	29	16	49	3	40	5	147 **i**
2004-05	27	18	126	5	79	9	266 **i**
2005-06	62	28	74	2	46	14	227 **i**
2006-07	41	33	50	2	49	16	193 **i**

a Data incomplete because coverage differs between states. Australian totals may include estimates for states for which data are not available separately. **b** Includes the Australian Capital Territory, the Northern Territory and Queensland. **c** Excludes the Australian Capital Territory, the Northern Territory and Queensland. **d** Excludes the Australian Capital Territory and the Northern Territory. **e** Excludes the Australian Capital Territory. **f** Excludes the Australian Capital Territory and Queensland. **g** Excludes the Australian Capital Territory, Queensland and Western Australia. **h** Excludes the Australian Capital Territory, Queensland and Tasmania. **i** Includes Northern Territory. **na** Not available.

Sources: ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

260 Australian exports of dimension stone, by destination

	Italy	New Zealand	Other	Total Volume	Total Value
	t	t	t	t	$'000
1961	na	na	na	na	9
1962	na	na	na	na	8
1963	na	na	na	na	24
1964	na	na	na	na	7
1965	na	na	na	na	12
1966	na	na	na	1 629	32
1967	na	na	na	280	16
1968	na	na	na	657	32
1969	na	na	na	792	44
1970	na	na	na	1 821	84
1971	na	na	na	1 209	57
1972	na	na	na	731	42
1973	na	na	na	1 621	105
1974	na	na	na	2 347	155
1975	na	na	na	379	na
1976	na	na	na	112	na
1977	na	na	na	757	180
1978	na	na	na	387	133
1979	na	na	na	1 086	83
1980	1 973	40	749	2 762	220
1981	0	4	201	205	46
1982	0	31	53	84	33
1983	1 178	6	40	1 224	367
1984	3 290	26	928	4 244	1 861
1985	2 364	133	40	2 537	782
1986	4 831	259	136	5 226	1 893
1987	1 903	324	747	2 974	1 119
1988	634	272	753	1 659	776
1988-89	530	290	2 092	2 913	1 441
1989-90	249	158	1 258	1 665	1 520
1990-91	910	110	2 373	3 393	4 417
1991-92	490	57	11 125	11 672	2 963
1992-93	1 324	54	7 343	8 721	4 501
1993-94	203	199	9 604	10 007	5 829
1994-95	136	178	14 292	14 605	5 531
1995-96	2 168	23	15 180	17 372	6 220
1996-97	2 546	148	12 670	15 364	5 519
1997-98	1 962	75	8 070	10 107	5 804
1998-99	220	186	16 359	16 766	6 509
1999-00	1 015	106	20 626	21 747	6 249
2000-01	2 565	25	15 439	18 029	7 725
2001-02	3 400	268	35 983	39 651	8 716
2002-03	6 715	21	10 115	16 851	6 074
2003-04	6 339	80	20 648	27 067	8 606
2004-05	6 958	81	21 060	28 099	9 263
2005-06	5 996	90	22 736	28 823	9 096
2006-07	3 384	278	27 804	31 466	9 681
2007-08	2 193	154	27 672	30 020	8 699

na Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; ABARE.

261 Australian imports of dimension stone

	Slate		Marble a		Crystalline rock b		Quartzite c		Total
	Volume	Value	Volume	Value	Volume	Value	Volume	Value	Value
	'000 m^2	$'000	t	$'000	t	$'000	t	$'000	$'000
1970	na	na	1 910	246	1 591	77	na	na	466
1971	na	na	3 372	330	2 007	110	na	na	569
1972	na	na	2 711	407	1 468	85	na	na	708
1973	na	na	1 309	206	1 898	118	na	na	395
1974	na	na	1 376	204	1 267	73	na	na	440
1975	na	na	1 634	289	1 610	133	na	na	606
1976	na	na	1 183	218	2 791	177	na	na	489
1977	na	na	1 706	397	1 862	215	na	na	832
1978	na	na	1 578	457	1 658	160	na	na	2 371
1979	na	na	1 752	507	2 479	287	na	na	2 224
1980	na	2 109	2 707	995	2 026	391	na	na	4 472
1981	na	3 728	2 800	1 205	1 982	369	207	94	5 450
1982	na	5 510	3 631	1 516	3 277	572	659	170	7 768
1983	689	4 535	3 049	1 493	1 993	420	3 521	171	6 619
1984	988	6 521	3 569	1 964	3 517	1 170	5 703	325	9 980
1985	1 266	8 911	4 449	2 999	3 859	1 956	222	159	14 025
1986	1 062	7 717	3 001	2 354	2 685	1 698	357	328	12 097
1987	1 343	9 105	3 221	2 982	8 873	2 663	349	481	15 231
1988	1 674	11 414	2 300	1 903	17 122	2 552	580	426	16 295
1988-89	2 139	14 023	2 688	2 058	28 732	3 120	905	530	19 732
1989-90	1 687	11 584	1 975	2 087	15 232	3 348	744	436	17 455
1990-91	1 255	7 598	960	784	5 291	2 598	483	257	11 237
1991-92	1 659	8 330	694	663	3 688	2 110	463	363	11 466
1992-93	1 410	7 406	557	499	4 181	2 613	1 071	655	11 173
1993-94	1 200	6 401	702	618	4 824	3 241	659	343	10 604
1994-95	1 044	5 475	689	718	6 172	3 273	364	346	9 811
1995-96	608	3 098	700	750	7 350	4 211	217	352	8 411
1996-97	509	2 778	702	675	7 915	4 160	128	215	7 828
1997-98	401	2 316	1 330	1 238	10 435	5 743	200	264	9 560
1998-99	333	2 350	1 809	2 659	10 323	7 114	112	204	12 327
1999-00	370	3 452	1 654	2 000	14 576	8 967	248	398	14 818
2000-01	269	1 406	1 368	1 648	12 018	8 660	152	244	11 958
2001-02	215	1 373	406	273	10 283	4 827	434	429	6 902
2002-03	177	1 381	947	975	13 324	6 114	880	641	9 111
2003-04	123	898	1 398	1 173	15 929	6 527	316	277	8 875
2004-05	250	948	1 315	1 069	16 530	6 855	695	450	9 321
2005-06	94	863	1 468	1 092	15 376	7 129	1 085	788	9 872
2006-07	56	585	1 281	1 277	11 635	4 685	1 055	891	7 439
2007-08	54	621	1 385	1 338	9 277	3 894	895	518	6 372

a Includes calcareous stone. **b** Includes sandstone. **c** Predominantly quartzite. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; ABARE.

262 Australian production of sand, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Australia
	kt	kt	kt	kt	kt	kt	kt	kt
1964	5 209	3 352	na	na	1 884	163	na	10 929
1965	5 045	3 989	na	na	1 823	280	na	11 628
1966	4 246	4 356	na	na	1 611	232	na	10 838
1967	4 598	4 278	na	na	1 784	234	na	11 328
1968	6 718	5 075	na	na	2 110	281	na	14 637
1969	6 686	6 680	1 022	na	2 930	265	na	18 199
1970	6 174	5 242	2 282	na	2 627	271	na	16 973
1971	6 353	5 747	3 031	na	2 707	185	371	18 394 **b**
1972	7 603	5 619	3 619	na	2 387	185	471 **c**	19 884 **b**
1973	8 798	6 660	4 182	na	2 525	179	581 **c**	22 925 **b**
1974	8 797	7 788	4 733	na	2 476	252	474 **c**	24 520 **b**
1975	8 415	7 541	4 933	na	2 567	190	766 **c**	24 412 **b**
1976	7 793	7 766	5 172	na	2 575	391	568 **c**	24 264 **b**
1977	7 676	9 040	4 137	na	3 919	439	389 **c**	25 600 **b**
1978	7 077	8 951	3 768	na	2 808	349	310 **c**	23 264 **b**
1979	8 263	8 357	4 410	na	2 526	448	285 **c**	24 290 **b**
1980	9 553	8 400	4 800	na	2 287	361	293 **c**	25 694 **b**
1981	10 738	7 929	5 787	na	2 753	334	460 **c**	28 002 **b**
1982	10 767	7 449	6 337	na	2 564	332	1 268 **c**	28 718 **b**
1983	8 403	6 884	5 583	na	2 094	388	192	23 543 **d**
1984	8 401	6 951	5 876	na	2 542	450	455	24 675 **d**
1985	8 989	7 437	6 386	na	2 852	576	399	26 640 **d**
1986	10 239	6 653	5 949	na	4 145	510	396	27 892 **d**
1987	9 501	8 476	6 179	na	2 961	572	377	28 067 **d**
1988	10 176	7 339	7 596	na	3 435	713	75	29 334 **d**
1988-89	11 188	7 339	6 970	na	3 195	518	154	30 121 **e**
1989-90	11 605	6 633	7 561	na	3 646	498	146	33 856 **e**
1990-91	10 098	5 693	na	na	2 694	426	na	18 912 **f**
1991-92	10 035	na	na	na	2 745	448	na	na
1992-93	10 647	9 984	5 733	na	3 129	495	186	32 970
1993-94	na	na	na	na	3 185	na	na	na
1994-95	na	na	na	na	na	na	na	na
1995-96	8 902	na	na	na	2 225	na	na	na
1996-97	7 109	na	na	na	2 286	na	578	na
1997-98	9 428	na	na	na	2 389	na	na	na
1998-99	10 378	na	na	na	2 892	na	na	na
1999-00	10 498	na	na	na	na	423	306	na
2000-01	8 769	5 981	na	na	661	316	165	na
2001-02	8 634	6 905	5 034	1 545	4 104	382	196	26 800
2002-03	9 642	7 092	5 560	1 436	4 681	383	194	28 988
2003-04	8 632	6 408	6 376	2 240	4 530	485	154	28 825
2004-05	6 681	7 064	6 037	2 730	4 178	582	120	27 394
2005-06	8 101	7 545	6 520	3 660	4 027	580	109	30 540
2006-07	7 438	9 099	9 796	4 230	4 048	601	319	35 532

a Data incomplete because coverage differs between states. Australian totals may include estimates for states for which data are not available separately. **b** Excludes Western Australia. **c** Includes the Australian Capital Territory. **d** Excludes the Australian Capital Territory and Western Australia. **e** Excludes the Australian Capital Territory. **f** Excludes the Australian Capital Territory, Queensland, Western Australia and the Northern Territory. **na** Not available.

Sources: ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

263 Australian production of gravel, by state a

	New South Wales	Victoria	Queensland	South Australia	Tasmania	Northern Territory	Australia
	kt	kt	kt	kt	kt	kt	kt
1965	2 292	3 662	na	555	1 260	59	7 884
1966	2 474	3 326	na	871	1 449	na	8 686
1967	2 329	3 683	na	935	1 468	na	9 193
1968	3 043	3 247	na	350	1 621	na	8 473
1969	3 118	2 834	1 155	918	1 531	na	10 501
1970	3 869	2 797	2 106	820	1 295	na	12 093
1971	4 021	3 599	2 392	847	915	1 074 **b**	12 849 **c**
1972	3 341	3 486	3 306	833	1 034	770 **b**	12 771 **c**
1973	3 652	3 634	4 447	694	1 093	922 **b**	14 441 **c**
1974	3 667	4 858	5 481	754	1 016	1 725 **b**	17 500 **c**
1975	3 530	4 732	4 874	458	1 063	1 524 **b**	16 181 **c**
1976	3 498	4 493	5 045	490	1 004	1 110 **b**	15 640 **c**
1977	3 224	4 743	4 126	1 098	1 219	1 073 **b**	15 483 **c**
1978	3 522	4 807	3 178	806	1 184	679 **b**	14 176 **c**
1979	4 354	4 918	3 377	394	1 176	1 786 **b**	16 005 **c**
1980	4 736	5 131	3 030	331	1 102	1 336 **b**	15 667 **c**
1981	4 612	4 740	3 525	125	1 077	561 **b**	14 639 **c**
1982	5 552	5 053	3 513	74	1 156	1 323 **b**	16 813 **c**
1983	4 080	4 478	3 205	74	1 238	857	13 931 **d**
1984	4 486	3 494	3 777	284	1 165	1 824	15 031 **d**
1985	4 666	5 206	3 297	2 258	1 171	1 793	18 393 **d**
1986	5 461	4 176	3 186	221	986	1 870	15 900 **d**
1987	4 992	4 334	2 797	207	832	2 203	15 365 **d**
1988	5 003	3 558	3 548	442	314	2 819	15 684 **d**
1988-89	5 464	3 753	4 247	213	107	2 243	16 050 **e**
1989-90	6 532	1 002	3 069	176	91	1 380	12 259 **e**
1990-91	6 091	1 131	na	415	35	na	7 672 **g**
1991-92	6 241	na	na	424	33	na	na
1992-93	5 823	1 780	2 788	555	47	1 090	12 141
1993-94	na	na	na	na	na	na	na
1994-95	na	na	na	na	na	na	na
1995-96	5 871	na	na	na	na	na	na
1996-97	7 925	na	na	na	na	2 764	na
1997-98	5 495	na	na	na	na	na	na
1998-99	5 220	3 939	na	239	61	1 097	na
1999-00	4 565	2 479	na	181	64	276	7 771
2000-01	3 644	3 556	na	58	41	174	7 635
2001-02	3 087	3 404 **s**	1 110	85	1 549	270	9 858 **s**
2002-03	4 265	3 802 **s**	1 222	115	1 989	608	12 155 **s**
2003-04	4 355	3 542 **s**	2 391	79	1 801	414	12 718 **s**
2004-05	3 760	3 865 **s**	4 116	45	2 488	206	14 783 **s**
2005-06	3 956	5 027 **s**	1 906	198	2 182	181	13 581 **s**
2006-07	5 202	3 600 **s**	1 663	47	2 663	317	13 670 **s**

a Data incomplete because coverage differs between states. Australian totals may include estimates for states for which data are not available separately. **b** Includes the Australian Capital Territory. **c** Excludes Western Australia. **d** Excludes the Australian Capital Territory and Western Australia. **e** Excludes the Australian Capital Territory. **f** Victorian data after 1988-89 includes only establishments holding titles under the *Extractive Industries Act 1966*. Previous details represent estimates for all establishments. **g** Excludes the Australian Capital Territory, Queensland, Western Australia and the Northern Territory. **s** ABARE estimate. **na** Not available.

Sources: ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* BMR, Canberra; state mines departments and their equivalents; ABARE.

264 Australian production of crushed and broken stone, by state a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Australia
	kt	kt	kt	kt	kt	kt	kt	kt
1964	4 033	13 198	2 497	2 060	11 638	1 026	89	34 723
1965	6 802	15 784	2 817	2 510	10 948	1 361	na	40 810
1966	8 434	19 409	3 174	3 011	10 978	2 149	na	47 547
1967	8 590	18 301	4 762	3 107	10 709	1 176	na	47 011
1968	9 345	17 575	3 917	3 719	9 016	1 206	na	45 087
1969	9 217	15 865	4 030	4 517	12 418	1 377	na	47 830
1970	10 867	15 451	4 159	4 743	1 027	1 313	na	50 793 b
1971	10 020	17 505	4 665	5 234	10 817	1 365	670 b	50 275 b
1972	11 322	16 079	4 218	4 574	12 680	1 336	906 b	51 115
1973	11 452	15 805	6 933	4 451	10 084	1 558	999 b	51 281
1974	11 451	17 499	8 246	5 128	9 864	1 486	996 b	54 671
1975	13 196	18 382	9 454	5 166	9 242	1 495	1 278 b	58 213
1976	10 581	16 885	8 241	5 043	9 765	1 697	820 b	53 033
1977	9 728	17 884	9 411	5 031	9 618	1 621	1 104 b	54 398
1978	10 699	18 665	10 811	5 258	8 848	1 582	1 046 b	56 910
1979	12 081	19 115	12 588	5 801	4 146	1 707	1 090	56 498
1980	14 436	18 001	12 722	4 762	4 460	1 746	1 611 b	57 737
1981	14 543	14 073	15 784	7 397	3 759	1 562	992 b	58 110
1982	12 765	13 279	19 601	5 145	4 189	1 719	303	57 100 c
1983	10 185	13 527	16 592	4 272	2 435	1 609	495	49 115 c
1984	10 452	14 756	19 869	5 067	3 613	2 023	551	56 331 c
1985	12 641	20 539	20 692	6 596	4 066	1 981	959	67 474 c
1986	13 819	20 658	21 597	6 160	4 335	3 040	646	70 255 c
1987	13 135	19 526	20 433	5 743	3 600	2 488	353	65 278 c
1988	12 575	20 001	22 644	6 297	3 432	2 361	193	67 503 c
1988-89	14 861	22 763	22 724	na	3 567	2 525	270	66 710 d
1989-90	15 437	21 232	25 623	8 176	3 703	2 460	367	76 998 d
1990-91	15 488	14 854	na	na	3 571	2 065	na	35 977 e
1991-92	14 326	na	na	na	3 192	2 013	na	na
1992-93	14 725	28 517	20 189	3 839	4 402	2 533	451	74 656
1993-94	na	na	na	na	na	na	na	na
1994-95	na	na	na	na	na	na	na	na
1995-96	na	na	na	na	na	na	na	na
1996-97	16 292	na	na	na	na	na	516	na
1997-98	15 171	na	na	na	na	na	na	na
1998-99	16 775	na	na	na	na	na	na	na
1999-00	17 620	21 864	na	480	3 445	1 452	626	58 556
2000-01	16 256	23 535	na	536	2 991	1 277	352	52 949
2001-02	15 130	24 249	22 394	900	4 311	1 868	1 548	70 400
2002-03	13 864	23 616	22 905	829	3 841	1 663	1 653	68 369
2003-04	11 679	25 096	31 156	826	4 197	1 930	765	75 649
2004-05	11 459	24 300	29 972	761	4 732	2 904	939	75 066
2005-06	14 141	28 048	29 634	1 480	4 354	2 736	585	80 978
2006-07	16 047	32 854	32 238	1 492	8 865	2 660	698	94 855

a Data incomplete because coverage differs between states. Australian totals may include estimates for states for which data are not available separately. **b** Includes the Australian Capital Territory and the Northern Territory. **c** Excludes the Australian Capital Territory. **d** Excludes the Australian Capital Territory and Western Australia. **e** Excludes the Australian Capital Territory, Queensland, Western Australia and the Northern Territory. **na** Not available.

Sources: ABS, *Mineral Production, Australia* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* BMR, Canberra; state mines departments and their equivalents; ABARE.

265 Summary of Australian statistics for copper

	Production					Consumption c	Exports d		Price e
			Refined						
	Mine a	Smelter b	Primary	Secondary	Total		Volume	Value	
	kt	kt	kt	kt	kt	kt	kt	$m	$/t
1966	111	97	90	10	100	108	30	36	944.0
1967	92	79	66	18	84	88	30	30	1 026.0
1968	109	103	84	17	101	105	38	40	1 099.0
1969	131	124	101	19	120	106	54	66	1 324.0
1970	158	120	104	21	125	114	70	86	1 317.0
1971	177	150	127	15	142	116	96	85	991.4
1972	186	150	139	17	156	112	109	91	942.3
1973	220	166	145	14	159	133	106	112	1 234.3
1974	251	200	162	12	174	120	133	177	1 298.2
1975	219	183	166	12	178	97	176	139	950.1
1976	218	170	161	15	176	119	139	157	1 143.3
1977	222	172	152	15	167	106	126	146	1 190.1
1978	222	167	152	14	166	127	102	114	1 189.8
1979	238	169	138	16	154	127	122	206	1 768.0
1980	242	182	145	20	165	128	120	250	1 956.6
1981	231	177	164	15	179	143	114	201	1 535.7
1982	245	180	160	11	171	131	110	156	1 474.5
1983	262	182	169	34	203	115	158	276	1 790.5
1984	236	188	171	26	197	118	126	226	1 592.5
1985	260	175	164	30	194	126	139	274	2 064.8
1986	248	179	164	21	185	117	125	248	2 111.2
1987	233	183	172	36	208	124	119	267	2 559.7
1988	238	193	196	27	223	128	157	510	3 319.4
1989	296	240	230	35	265	129	175	601	3 606.0
1990	330	235	247	24	271	118	230	765	3 413.9
1991	320	258	252	20	272	111	243	723	3 013.4
1992	378	315	300	13	313	123	258	770	3 114.2
1993	430	344	318	13	331	139	271	723	2 818.3
1994	418	337	340	20	360	150	305	816	3 158.2
1995	379	224	266	24	290	158	215	804	3 980.3
1996	548	264	311	24	314	162	363	993	2 948.7
1997	549	216	276	25	276	159	402	1 098	3 061.5
1998	618	211	279	25	279	160	488	1 298	2 636.9
1999	738	332	412	25	412	164	560	1 429	2 438.2
2000	839	390	484	0	484	165	621	1 931	3 127.6
2001	898	455	558	0	558	163	754	2 318	3 043.4
2002	872	456	543	0	542	189	683	2 000	2 869.6
2003	830	435	484	0	484	184	704	2 024	2 730.9
2004	854	443	498	0	490	169	653	2 589	3 902.0
2005	930	412	461	0	471	158	784	4 088	4 844.1
2006	879	377	429	0	429	144	723	6 600	8 937.3
2007	880	399	442	0	442	147	708	6 404	8 490.5

a Total metallic content of minerals produced. **b** Includes both primary and secondary (scrap) production of blister copper. **c** Primary refined; producers' shipments to domestic consumers plus imports. **d** Quantities refer to total metallic content of all ores, concentrates, intermediate products or refined metal; value of metals contained in host mine and smelter products (for example, copper in lead concentrate or lead bullion) is not available separately and is included in the value of the mineral product or metal in which it is exported. **e** Mount Isa Mines, cathode, fot Townsville refinery, price discountinued end of June 2000. 2000 onwards based on average US$ LME spot calendar price converted into A$.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; Metallgesellschaft AG, *Metallstatistik,* Frankfurt; London Metal Exchange.

266 Australian supply, disposal and prices of copper

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production									
Mine **a**	kt	875	882	883	811	895	936	859	863
Smelter	kt	419	456	469	389	434	404	389	393
Refined	kt	542	561	537	458	479	461	435	590
Primary	kt	517	561	537	458	486	461	435	442
Secondary	kt	25	0	0	0	0	0	0	0
Exports b									
Ores and concentrates **c**	kt	1 150	1 271	1 193	1 286	1 326	1 635	1 493	1 695
Value	$m	1 037	1 028	1 048	1 242	1 750	3 492	3 914	4 170
Refined **d**	kt	366	388	359	301	322	314	290	296
Value	$m	1 249	1 131	956	924	1 332	2 161	2 612	2 558
Consumption e	kt	153	181	222	236	168	136	146	156
Export unit value									
Ores and concentrates	A$/t	902.0	808.7	878.8	966.3	1 319.7	2 135.6	2 621.8	2 459.7
Refined	A$/t	3 409.7	2 918.1	2 666.9	3 075.5	4 140.5	6 882.0	9 004.4	8 652.9

a Total metallic content of minerals produced. **b** Value of metals contained in host mine and smelter products is not available separately and is included in the value of the mineral product or metal in which it is exported. **c** Gross weight of ores and concentrates. **d** Refinery shapes, unworked. **e** Refined copper, domestic despatches and imports.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

267 Volume of Australian exports of copper, by destination

	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt	2006 kt	2007 kt
Ores and concentrates								
China	285.1	453.2	370.9	361.7	216.3	571.4	540.0	412.3
Germany	0.9	0.0	14.8	4.8	4.0	0.1	0.0	0.0
India	340.4	453.7	362.5	451.1	452.7	443.2	444.2	565.3
Japan	271.5	261.9	322.2	415.7	346.8	440.9	372.2	380.6
Korea, Rep. of	39.9	20.3	38.1	105.5	36.8	82.4	93.5	162.9
Philippines	60.7	30.6	34.3	26.9	76.1	35.9	67.7	20.5
Other	16.9	25.3	11.7	0.8	49.9	32.4	41.8	0.0
Total	1 015.3	1 245.1	1 154.5	1 366.5	1 182.5	1 606.4	1 559.3	1 541.6
Total Cu content **s**	292.5	353.3	317.0	371.2	328.3	449.1	432.9	399.7
Refined								
Chinese Taipei	81.9	90.9	89.8	81.6	96.0	65.4	83.6	95.5
European Union **a**	55.8	72.6	34.8	31.6	2.6	0.1	0.0	1.8
Indonesia	6.0	7.3	12.4	13.1	31.1	38.2	18.5	13.0
Korea, Rep. of	39.9	51.8	57.6	19.6	6.7	39.5	21.0	34.1
Malaysia	75.0	81.7	83.8	81.8	72.6	51.4	55.1	52.8
Thailand	19.0	28.8	35.0	39.6	52.6	64.3	52.7	38.6
Other	45.8	65.4	50.5	56.3	61.1	56.6	53.4	58.8
Total	323.4	398.6	363.8	323.7	322.7	315.5	284.4	294.6

a Regarded as twenty five countries. **s** ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

268 World copper production, consumption, stocks and prices

	Production						Price	
			Refined				US	
	Mine	Smelter	Secondary a	Total b	Consumption	Stocks c	producer d	LME e
	kt	kt	kt	kt	kt	kt	USc/lb	US$t
1964	4 848	4 903	2 645	5 825	4 984	na	32.0	966.0
1965	5 070	5 119	2 850	6 181	5 033	na	35.0	1 288.0
1966	5 220	5 103	3 081	6 366	5 224	na	36.2	1 528.8
1967	5 062	4 897	2 872	6 004	5 032	na	38.2	1 135.0
1968	5 459	5 510	3 176	6 653	6 548	na	41.8	1 236.0
1969	5 935	5 965	3 452	7 205	7 136	na	47.5	1 464.0
1970	6 382	6 308	3 298	7 583	7 294	582	57.7	1 413.6
1971	6 458	6 374	3 155	7 393	7 295	610	51.4	1 080.5
1972	7 044	7 007	3 272	8 084	7 948	657	50.6	1 069.0
1973	7 498	7 286	3 639	8 525	8 754	394	58.9	1 781.1
1974	7 576	7 565	3 502	8 759	8 310	832	76.6	2 052.6
1975	7 185	7 280	2 699	8 177	7 445	1 744	63.2	1 232.2
1976	7 661	7 616	3 163	8 624	8 539	1 828	69.0	1 405.2
1977	7 856	7 810	3 109	8 878	9 057	1 985	66.2	1 308.3
1978	7 678	7 686	3 313	9 020	9 527	1 564	65.8	1 363.4
1979	7 767	7 738	3 668	9 181	9 848	1 116	92.2	1 978.1
1980	7 704	7 681	3 738	9 297	9 396	1 035	101.3	2 189.2
1981	8 164	8 036	3 671	9 545	9 522	1 133	84.2	1 740.2
1982	8 078	7 850	3 518	9 378	9 003	1 640	72.8	1 477.9
1983	8 101	8 379	3 688	9 694	9 099	1 709	76.5	1 590.1
1984	8 258	8 684	3 848	9 512	9 914	1 220	66.9	1 371.4
1985	8 365	8 933	3 837	9 689	9 665	1 074	67.0	1 415.5
1986	8 393	9 165	3 905	9 862	10 075	893	64.7	1 414.5
1987	8 747	9 287	3 996	10 160	10 449	522	81.1	1 764.9
1988	8 698	9 372	4 307	10 485	10 531	585	119.1	2 597.1
1989	9 025	9 720	4 250	10 858	10 969	636	129.5	2 838.8
1990	8 957	9 132	4 325	10 809	10 789	716	121.8	2 669.0
1991	9 099	9 066	4 317	10 688	10 695	843	107.9	2 338.1
1992	9 418	9 730	4 408	11 170	10 806	833	106.0	2 282.0
1993	9 475	9 671	4 948	11 306	10 996	1 116	91.6	1 910.8
1994	9 575	9 740	5 026	11 166	11 665	768	110.2	2 307.3
1995	10 180	9 745	5 337	11 817	12 152	699	138.3	2 935.6
1996	11 111	10 407	5 917	12 756	12 399	527	109.2	2 293.7
1997	11 480	10 779	6 200	13 600	13 017	897	106.8	2 277.1
1998	12 273	10 928	5 976	14 120	13 353	1 274	78.6	1 654.2
1999	12 749	11 494	5 883	14 465	14 057	1 360	75.9	1 572.6
2000	13 246	11 855	6 028	14 816	15 192	971	82.3	1 813.5
2001	13 757	12 350	5 747	15 675	14 685	1 636	71.6	1 577.5
2002	13 565	11 965	5 427	15 350	15 051	1 712	70.8	1 560.8
2003	13 700	11 982	5 367	15 221	15 317	1 212	80.7	1 779.5
2004	14 721	12 242	5 484	15 850	16 664	518	134.2	2 865.9
2005	15 204	12 832	5 558	16 610	16 632	547	173.6	3 677.7
2006	15 120	12 941	5 755	17 325	16 988	703	315.6	6 740.6
2007	15 561	13 115	5 745	17 972	17 964	683	328.7	7 133.0

a Includes direct use by manufacturers. **b** Excludes copper recovered from secondary materials by simple remelting. **c** Unwrought copper. **d** Average price for US producer cathodes. **e** LME average cash settlement price, grade A copper. Before December 1981, wirebars; from 1982 to 1986, higher grade copper. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; Metallgesellschaft AG, *Metallstatistik,* Frankfurt; World Bureau of Metal Statistics, *World Metal Statistics,* London; London Metal Exchange; International Copper Study Group, *Copper Bulletin,* Lisbon.

269 World copper production, by region and country

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Mine production a								
Africa	460	526	481	545	611	681	800	913
Congo, Dem. Rep. of	33	33	32	57	70	98	131	130
South Africa	146	142	90	89	86	97	120	158
Zambia	249	307	308	347	410	441	502	556
Americas	7 779	8 033	7 737	8 007	8 859	8 817	8 873	9 235
Argentina	145	192	204	199	177	187	180	180
Canada	634	634	603	557	563	595	603	589
Chile	4 602	4 739	4 581	4 904	5 413	5 321	5 361	5 557
Peru	554	722	845	843	1 036	1 010	1 050	1 190
Mexico	365	371	330	356	406	429	1 048	347
United States	1 444	1 340	1 140	1 120	1 160	1 140	1 221	1 223
Asia	2 331	2 441	2 515	2 405	2 374	2 635	2 436	2 776
China	593	587	568	604	742	762	755	831
Indonesia	1 006	1 047	1 163	1 003	842	1 064	817	789
Kazakhstan	430	470	473	485	468	436	459	424
Mongolia	127	136	135	132	130	129	132	133
Philippines	31	24	20	20	16	16	18	23
Uzbekistan	65	97.276	80	82	83	104	104	104
Europe	1 420	1 435	1 526	1 505	1 645	1 682	1 625	1 568
Bulgaria	93	97	84	80	80	95	84	103
Poland	454	474	503	503	531	512	497	452
Portugal	76	83	77	78	96	89	79	90
Russian Federation	580	600	685	665	767	805	779	770
Sweden	78	74	72	83	82	87	87	63
Middle East	222	221	215	207	203	241	271	307
Iran	147	146	141	146	153	193	217	242
Turkey	75	75	75	61	50	48	54	65
Oceania	1 035	1 100	1 090	1 032	1 027	1 123	1 069	1 040
Australia	839	898	872	830	854	930	879	880
Papua New Guinea	203	204	211	202	173	193	194	169
Other countries	0	0	0	0	0	0	0	0
Total	13 246	13 757	13 565	13 700	14 721	15 204	15 120	15 561

Continued

269 World copper production, by region and country continued

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Smelter production b								
Africa	493	489	459	464	440	454	519	521
South Africa	136	121	117	112	89	101	103	111
Zambia	308	306	311	320	320	320	384	384
Americas	3 919	4 018	3 493	3 354	3 393	3 435	3 448	3 389
Canada	604	643	539	457	476	472	521	517
Chile	1 460	1 503	1 439	1 542	1 518	1 558	1 565	1 514
Mexico	327	348	263	220	271	301	260	223
Peru	340	392	380	376	378	382	381	296
United States	1 002	919	683	539	542	523	501	621
Asia	4 123	4 409	4 484	4 725	4 996	5 461	5 754	5 792
China	1 014	1 145	1 180	1 379	1 503	1 752	1 802	2 013
Japan	1 481	1 444	1 499	1 516	1 465	1 518	1 628	1 613
Kazakhstan	415	433	446	432	445	405	425	393
Korea, Rep. of	370	390	390	410	390	390	390	390
Philippines	160	217	138	112	217	201	240	220
Uzbekistan	75	97	80	82	85	115	115	115
Australia	390	455	456	435	443	412	377	399
Europe	2 934	2 974	3 061	3 004	3 050	3 118	3 077	2 997
Belgium	145	138	126	120	108	113	104	115
Germany	572	559	578	494	541	510	510	510
Poland	483	514	540	584	581	584	589	559
Russian Federation	758	758	800	790	850	850	850	850
Spain	330	305	298	290	224	284	264	256
Total	11 855	12 350	11 965	11 982	12 242	12 832	12 941	13 115
Refined copper production								
Africa	380	453	449	459	501	555	613	673
South Africa	106	107	92	90	81	97	102	116
Zambia	226	308	347	360	410	446	497	522
Americas	6 073	6 390	5 914	5 682	5 764	5 711	5 669	5 730
Canada	551	568	495	455	527	515	500	453
Chile	2 668	2 882	2 850	2 902	2 837	2 824	2 811	2 937
Peru	452	472	503	517	505	510	508	414
United States	1 802	1 800	1 512	1 310	1 310	1 260	1 250	1 313
Asia	4 603	4 937	5 051	5 326	5 741	6 432	7 155	7 743
China	1 371	1 523	1 632	1 836	2 199	2 600	3 003	3 497
India	259	325	374	391	419	518	627	719
Japan	1 437	1 426	1 401	1 430	1 380	1 395	1 532	1 577
Kazakhstan	395	422	453	432	446	419	430	408
Korea, Rep. of	471	476	499	510	496	527	575	585
Philippines	139	165	144	171	176	172	181	160
Uzbekistan	75	97	80	82	85	115	115	115
Australia	484	558	542	484	490	471	429	442
Europe	3 276	3 337	3 391	3 269	3 332	3 441	3 477	3 395
Belgium	423	423	427	423	383	383	379	394
Germany	709	694	696	598	653	638	662	666
Poland	486	498	509	530	550	560	557	533
Russian Federation	824	888	861	855	909	968	959	923
Spain	316	280	322	293	228	267	260	272
Total	14 816	15 675	15 350	15 221	15 850	16 610	17 325	17 972

a Metal content. **b** Metal produced in the form of blister and anodes from ores, concentrates, other primary materials and secondary blister produced from scrap.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

270 World refined copper consumption, by region and country

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Africa									
South Africa	69	83	74	80	75	86	88	83	83
Total	110	132	142	148	142	163	195	224	233
Americas									
Argentina	53	52	50	39	28	33	34	30	31
Brazil	301	298	345	247	303	346	334	344	334
Canada	266	268	265	271	256	347	291	302	206
Chile	74	83	92	81	96	99	103	111	105
Mexico	395	464	437	383	353	394	402	335	299
United States	2 985	3 026	2 619	2 364	2 290	2 410	2 270	2 128	2 170
Peru	50	55	55	55	55	55	55	55	55
Total	4 136	4 289	3 862	3 428	3 394	3 635	3 488	3 331	3 223
Asia									
China	1 484	1 928	2 307	2 737	3 084	3 364	3 656	3 610	4 861
Chinese Taipai	655	628	540	656	619	690	638	643	603
India	263	240	293	295	308	335	397	407	442
Indonesia	56	60	104	109	121	188	180	185	205
Japan	1 293	1 349	1 145	1 164	1 202	1 279	1 229	1 282	1 252
Korea, Rep. of	784	862	849	936	901	940	869	828	857
Malaysia	158	166	160	185	133	186	224	224	224
Turkey	201	248	194	225	265	281	316	302	324
Thailand	117	151	167	186	204	247	241	254	224
Total	5 384	6 025	6 169	6 959	7 313	8 035	8 250	8 338	9 635
Europe									
Finland	116	116	101	89	102	105	93	83	80
France	550	574	538	561	551	536	472	461	337
Germany	1 138	1 307	1 120	1 067	1 010	1 100	1 115	1 398	1 392
Greece	115	135	130	126	106	118	89	104	104
Italy	635	674	676	673	665	715	681	801	764
Poland	250	2 469	272	247	253	274	274	269	299
Russian Federation	170	183	224	355	422	550	667	693	687
Spain	255	289	299	327	312	331	292	280	280
Sweden	177	203	195	170	185	189	164	184	180
United kingdom	305	323	286	261	242	243	165	172	42
Total	4 256	4 579	4 342	4 327	4 284	4 664	4 543	4 952	4 726
Total	14 057	15 192	14 686	15 051	15 317	16 664	16 632	16 988	17 964

271 Volume of world copper exports, by country

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Concentrates (Cu content)								
Australia	293	353	317	371	328	449	433	400
Canada	480	622	283	170	165	256	231	215
Chile	1 780	1 798	1 553	1 798	2 166	2 190	2 171	2 258
Indonesia	644	649	719	595	452	596	583	432
Papua New Guinea	186	189	177	222	163	204	174	187
Peru	80	93	371	280	502	523	462	747
Portugal	81	92	49	72	87	94	82	100
United States	175	45	23	10	24	137	383	302
Other	457	448	507	552	634	653	626	604
World total	4 177	4 290	3 999	4 037	4 488	5 054	5 106	5 225
Blister and anode copper								
Chile	170	155	182	276	366	347	457	506
Finland	42	52	43	33	25	30	35	11
Mexico	22	24	18	16	21	18	20	24
Namibia	10	27	25	26	25	na	na	na
Peru	24	31	25	22	0	0	0	0
South Africa	1	35	26	12	1	6	7	8
Spain	27	35	21	37	51	62	46	37
Other	321	351	345	349	380	353	349	308
World total	616	709	685	771	869	816	914	893
Refined copper								
Australia	323	397	364	323	323	315	287	295
Belgium	199	241	201	337	170	241	237	201
Canada	289	310	241	222	289	297	280	298
Chile	2 518	2 696	2 767	2 614	2 954	2 799	2 606	2 910
Germany	94	108	91	118	137	149	146	117
Japan	299	416	378	290	195	248	320	428
Kazakhstan	392	399	391	376	391	401	357	na
Peru	377	433	415	459	318	514	449	512
Philippines	129	157	143	167	159	114	177	175
Poland	240	227	262	284	280	290	288	240
Russian Federation	650	651	505	397	359	301	268	275
Singapore	77	61	59	38	39	34	94	69
United States	97	23	29	123	127	51	124	52
Zambia	217	308	339	363	393	423	476	491
Other	823	887	918	925	895	1 277	1 371	1 360
World total	6 726	7 313	7 105	7 034	7 029	7 455	7 478	7 422

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

272 Volume of world copper imports, by country

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Ores and concentrates								
Brazil	122	136	116	103	135	101	134	121
Canada	212	220	128	72	67	84	106	59
China	453	564	516	671	721	1 009	908	1 132
Finland	114	126	125	136	132	126	136	111
Germany	177	259	259	220	285	287	287	325
Japan	1 348	1 285	1 261	1 246	1 274	1 320	1 327	1 408
Korea, Rep. of	294	293	320	331	327	348	364	351
Spain	234	226	264	263	194	260	275	250
United States	0	122	226	27	23	0	0	12
Other	419	404	422	505	689	771	1 076	1 006
Total	3 374	3 634	3 638	3 574	3 848	4 307	4 614	4 775
Blister and anode copper								
Belgium	215	149	209	291	291	238	268	227
Canada	11	21	58	127	149	159	93	102
China	125	91	105	123	114	129	89	173
Germany	32	27	38	17	12	37	42	32
Korea, Rep. of	48	59	69	51	53	33	87	100
Mexico	82	119	73	62	70	64	78	75
United States	195	218	145	159	149	133	172	155
Other	51	43	27	24	70	106	152	97
Total	759	726	726	854	908	899	980	960
Refined copper								
Belgium	41	44	37	58	17	10	22	28
Brazil	158	141	103	151	154	168	175	218
China	668	835	1 181	1 357	1 200	1 222	827	1 496
Chinese Taipei	629	541	657	621	692	640	647	615
France	586	564	576	579	590	517	507	432
Germany	690	528	459	517	585	625	881	844
Greece	136	130	126	107	120	91	106	106
Italy	603	650	643	651	700	652	774	746
Japan	203	156	114	79	88	74	75	102
Korea, Rep. of	419	380	446	441	488	428	380	419
Malaysia	166	161	187	134	186	246	186	201
Singapore	58	67	40	34	48	41	110	62
Thailand	151	167	186	204	224	235	268	245
Turkey	181	137	187	229	217	224	150	128
United Kingdom	339	311	316	246	214	182	184	47
United States	1 022	1 199	1 062	687	704	977	1 076	832
Other	746	692	570	572	573	572	522	438
Total	6 794	6 702	6 891	6 669	6 801	6 902	6 891	6 959

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

273 Summary of Australian statistics for gemstones

	Exports			Imports
	Diamonds	Opals	Sapphires a	Gem diamonds
	$m	$m	$m	$m
1961	0.44	2.81	na	2.38
1962	0.41	6.21	na	2.37
1963	0.37	5.39	na	2.62
1964	0.35	5.40	na	2.96
1965	0.42	5.33	na	3.69
1966	0.43	7.65	na	3.94
1967	0.33	8.62	na	4.23
1968	0.37	10.65	na	4.23
1969	0.39	12.21	3.09	5.25
1970	0.51	11.97	3.21	5.45
1971	0.77	11.20	3.32	6.57
1972	0.81	13.80	2.80	7.44
1973	1.63	17.68	2.91	11.74
1974	4.86	12.70	2.63	15.01
1975	4.61	14.60	3.01	15.45
1976	4.58	22.62	3.61	20.04
1977	5.28	19.21	4.03	24.05
1978	11.99	26.69	10.31	34.25
1979	13.25	24.98	17.17	33.36
1980	12.90	25.55	10.81	50.38
1981	11.16	23.69	14.57	38.25
1982	9.86	16.73	14.46	32.59
1983	36.54	22.69	13.48	31.48
1984	25.90	22.76	9.89	36.14
1985	29.83	17.67	7.78	48.16
1986	180.00	24.41	12.86	55.38
1987	285.00	45.99	19.95	66.62
1988	349.42	67.54	23.13	77.96
1989	410.19	77.19	31.60	108.16
1990	433.13	84.87	17.49	106.68
1991	453.80	83.67	11.27	110.99
1992	574.60	77.13	11.46	105.71
1993	482.30	78.07	22.46	90.24
1994	485.40	96.24	18.27	96.40
1995	480.24	99.79	13.65	103.60
1996	442.99	101.85	10.97	112.41
1997	421.19	75.64	8.52	154.85
1998	621.78	63.20	7.70	150.88
1999	560.57	53.86	5.94	172.28
2000	714.96	75.96	8.35	223.34
2001	517.01	69.78	6.43	241.97
2002	724.10	61.75	1.37	269.90
2003	754.54	56.16	1.11	301.69
2004	507.77	47.28	1.08	320.02
2005	880.88	55.42	1.36	370.57
2006	782.57	49.85	0.45	386.01
2007	684.46	39.66	1.11	426.70

a Excludes cut and polished sapphires from 1 July 1999, for which data are not available separately. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Department of Minerals and Energy Western Australia, *Statistics Digest; Bureau of Mineral Resources, Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra.

274 Australian supply and disposal of gemstones

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Diamonds									
Production	'000 ct	26 647	26 176	33 648	31 013	20 620	30 703	29 308	19 231
Exports									
Unsorted **s**	'000 ct	42 386	21 722	34 442	28 193	20 447	30 594	29 220	18 960
	$m	630	428	621	623	385	749	641	552
Sorted									
Gem	'000 ct	48	39	43	74	89	108	87	271
	$m	85	89	103	126	122	132	142	132
Industrial	'000 ct	0.33	0.98	0.19	2 761.25	84.99	0.37	1.32	0.79
	$m	0.62	0.18	0.50	5.19	0.51	0.21	0.12	0.12
Total exports	$m	715	517	724	755	508	881	783	684
Imports									
Gem diamonds	$m	223	242	270	302	320	371	386	427
Other gemstones									
Exports									
Opals	$m	76	70	62	56	47	55	50	40
Sapphires **a**	$m	8	6	1	1	1	1	0	1
Others **b**	$m	15	13	14	10	8	9	5	7

a Excludes cut and polished sapphires from 1 July 1999, for which data are not available separately. **b** Includes cut and polished sapphires from 1 July 1999. **s** ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Department of Minerals and Energy Western Australia, *Statistics Digest,* Perth; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

275 World production of natural gem and cheap gem diamonds

	1999	2000	2001	2002	2003	2004	2005	2006
	million ct	million ct	million ct	million ct	million ct	million ct	million ct	million ct
Angola	3.57	4.01	5.10	5.70	6.30	7.50	10.00	9.18
Australia	29.78	26.65	26.18	33.65	31.01	20.62	30.70	29.31
Botswana	21.26	24.64	26.19	28.37	30.40	31.13	31.89	34.29
Congo, Dem. Rep. of	22.00	16.50	19.64	21.99	29.00	29.00	27.00	28.99
Namibia	1.63	1.54	1.49	1.54	1.45	2.00	1.90	2.40
Russian Federation	16.20	20.50	20.50	20.00	33.02	35.52	38.00	38.36
South Africa	10.01	10.79	11.16	10.88	12.67	14.46	15.78	14.93
Other	6.75	6.87	8.05	9.28	15.13	17.37	18.20	17.73
Total	111.20	111.50	118.30	131.40	159.00	157.60	173.50	175.20

Sources: Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; British Gelological Survey, *World Mineral Statistics,* Nottingham England.

276 Summary of Australian statistics for gold

	Mine production	Exports a		Price d	
		Volume b	Value c		
	t	t	$m	A$/oz	US$/oz
1963	32	17	15	31.32	35.00
1964	30	15	13	31.41	35.00
1965	27	27	23	31.36	35.00
1966	29	29	23	31.40	35.00
1967	25	22	17	31.40	35.00
1968	24	16	13	34.71	38.68
1969	22	22	21	36.92	41.09
1970	19	12	6	32.22	35.95
1971	21	7	3	36.15	41.16
1972	23	14	13	49.02	58.44
1973	17	9	11	68.43	97.59
1974	16	12	23	111.39	159.62
1975	16	8	17	122.87	161.23
1976	16	15	40	102.30	124.94
1977	19	14	43	133.37	147.98
1978	20	8	42	168.88	193.44
1979	19	10	59	271.77	303.22
1980	17	7	90	537.37	612.52
1981	18	7	56	398.19	458.06
1982	27	13	136	371.97	375.76
1983	31	21	270	469.65	423.83
1984	40	32	418	409.94	360.29
1985	59	50	668	455.70	317.28
1986	75	56	972	554.15	367.76
1987	110	85	1 694	639.18	446.43
1988	157	139	2 642	557.34	433.45
1989	204	166	2 559	483.54	381.49
1990	244	238	3 424	493.94	384.35
1991	236	259	3 684	465.21	362.29
1992	244	298	4 458	467.74	343.67
1993	227	275	4 672	530.94	359.89
1994	237	277	4 664	527.92	384.09
1995	236	316	5 251	521.02	384.15
1996	277	325	5 223	497.98	387.72
1997	304	340	4 912	446.17	331.14
1998	300	504	7 621	469.17	294.23
1999	289	334	4 720	433.07	279.08
2000	291	296	4 634	480.37	279.28
2001	280	304	5 086	521.30	271.09
2002	266	269	4 908	570.30	310.20
2003	281	313	5 551	559.68	363.68
2004	258	311	5 551	557.15	409.28
2005	262	306	5 693	585.23	444.91
2006	246	349	8 863	804.30	604.71
2007	245	411	10 789	831.26	696.81

a Prior to July 1999 includes exports of refined gold that was imported as unrefined bullion, thereafter includes Australian origin gold only. **b** Quantities refer to total metallic content of all ores, concentrates, intermediate products or refined metal of which gold is the predominant constituent. **c** Value of metal contained in host mine and smelter products (for example, gold in copper concentrates or lead bullion) is not separately available; this is included in the value of the mineral product or metal product in which it is exported. **d** Average London AM fix.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; London Bullion Market Association; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

277 Australian gold production, imports and exports

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Production									
Mine	t	290.9	280.1	266.2	281.4	258.1	261.5	245.8	245.0
Refined primary									
Australian origin	t	302.2	288.0	261.8	257.0	230.8	220.2	205.6	204.8
Overseas origin	t	15.1	16.8	40.5	74.1	81.7	71.1	60.8	54.0
Refined secondary									
Australian origin	t	7.6	23.3	7.2	4.3	4.3	6.3	5.7	4.6
Overseas origin	t	24.4	45.1	39.8	75.9	53.4	43.4	107.3	111.5
Exports									
Refined and unrefined bullion **a**									
Chinese Taipei	t	17.7	15.7	6.5	3.6	0.5	0.0	0.5	0.0
Hong Kong, China	t	25.5	49.1	29.6	11.7	1.2	1.2	0.0	0.0
India	t	0.5	9.8	13.8	66.1	161.0	164.4	140.4	160.5
Japan	t	23.1	16.0	24.5	8.5	9.4	16.5	12.6	7.0
Korea, Rep. of	t	58.1	45.1	50.3	41.7	30.6	5.3	4.8	2.3
Middle East	t	6.4	28.2	11.1	0.8	0.0	0.0	7.9	41.5
Switzerland	t	1.5	4.5	1.1	4.6	0.0	1.1	8.0	56.7
Thailand	t	8.3	5.1	22.5	11.5	27.2	55.7	21.9	21.5
United Kingdom	t	26.6	54.6	69.8	148.9	56.6	29.2	114.6	100.4
Other	t	128.7	75.6	40.0	15.1	24.8	32.6	38.5	21.1
Total	t	296.4	303.6	269.1	312.6	311.4	305.8	349.3	411.0
	$m	4 634.5	5 085.8	4 907.9	5 551.2	5 550.8	5 693.5	8 863.2	10 788.6
Imports									
Refined and unrefined	$m	1 643.3	2 145.6	2 503.8	2 910.4	2 448.5	2 792.0	5 786.4	6 121.7
Price b	$/oz	480.37	521.30	570.30	559.68	557.15	585.23	804.30	831.26

a Prior to July 1999 includes exports of refined gold that was imported as unrefined bullion, thereafter includes Australian origin gold only. **b** Average London AM fix price, expressed in Australian dollars.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; London Bullion Market Association; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

278 Australian gold production, by state

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
	t	t	t	t	t	t	t	t
Mine production								
1985	1.54	0.96	9.28	na	41.20	2.33	3.22	58.53
1986	0.96	1.15	11.12	na	53.88	2.67	5.30	75.10
1987	4.25	1.21	15.43	0.00	78.08	2.23	8.71	109.90
1988	5.63	1.77	24.78	0.01	110.75	2.03	11.97	156.95
1989	8.75	1.84	27.72	0.28	146.61	1.76	17.06	204.02
1990	8.05	3.93	29.73	0.89	180.79	1.68	19.04	244.10
1991	6.33	3.76	27.06	0.76	179.44	1.62	17.30	236.28
1992	5.65	3.35	32.61	1.05	181.29	1.15	18.64	243.74
1993	8.11	4.36	27.40	1.68	167.36	1.30	17.09	227.31
1994	7.60	3.82	29.23	1.84	175.67	1.32	17.42	236.92
1995	9.74	4.30	27.84	1.72	173.72	0.62	18.45	236.40
1996	11.10	4.52	28.20	1.81	208.14	1.63	21.33	276.73
1997	11.72	4.82	28.83	1.64	228.49	4.15	24.33	303.98
1998	14.77	4.90	32.33	1.74	221.32	4.18	20.39	299.62
1999	21.04	4.63	33.65	1.77	201.12	4.95	22.30	289.47
2000	18.58	4.23	37.10	2.95	198.23	6.68	23.15	290.91
2001	17.10	3.50	31.89	4.31	196.59	6.18	20.51	280.08
2002	23.48	3.24	25.06	3.14	187.20	6.05	18.03	266.21
2003	27.49	3.11	26.24	5.33	187.07	9.32	22.85	281.40
2004	29.14	3.46	23.16	5.12	164.32	10.60	22.27	258.07
2005	28.05	5.24	23.99	6.24	173.14	8.34	16.55	261.53
2006	27.04	6.27	21.47	6.75	165.10	5.10	14.03	245.76
2007	34.89	6.42	20.81	6.92	155.29	4.19	16.54	245.04
Share of total	%	%	%	%	%	%	%	
1985	2.63	1.64	15.86	na	70.39	3.98	5.50	
1986	1.28	1.53	14.81	na	71.74	3.56	7.06	
1987	3.87	1.10	14.04	0.00	71.04	2.03	7.93	
1988	3.59	1.13	15.79	0.01	70.57	1.29	7.63	
1989	4.29	0.90	13.59	0.14	71.86	0.86	8.36	
1990	3.30	1.61	12.18	0.36	74.06	0.69	7.80	
1991	2.68	1.59	11.45	0.32	75.94	0.69	7.32	
1992	2.32	1.38	13.38	0.43	74.38	0.47	7.65	
1993	3.57	1.92	12.06	0.74	73.63	0.57	7.52	
1994	3.21	1.61	12.34	0.78	74.15	0.56	7.35	
1995	4.12	1.82	11.78	0.73	73.49	0.26	7.80	
1996	4.01	1.63	10.19	0.65	75.21	0.59	7.71	
1997	3.85	1.59	9.48	0.54	75.17	1.36	8.00	
1998	4.93	1.63	10.79	0.58	73.87	1.39	6.81	
1999	7.27	1.60	11.62	0.61	69.48	1.71	7.70	
2000	6.39	1.45	12.75	1.01	68.14	2.30	7.96	
2001	6.11	1.25	11.39	1.54	70.19	2.21	7.32	
2002	8.82	1.22	9.42	1.18	70.32	2.27	6.77	
2003	9.77	1.11	9.32	1.89	66.48	3.31	8.12	
2004	11.29	1.34	8.98	1.98	63.67	4.11	8.63	
2005	10.72	2.00	9.17	2.39	66.20	3.19	6.33	
2006	11.00	2.55	8.73	2.75	67.18	2.07	5.71	
2007	14.24	2.62	8.49	2.83	63.37	1.71	6.75	

na Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

279 World supply, demand and price of gold

	Unit	1999	2000	2001	2002	2003	2004	2005	2006	2007
Supply										
Mine production										
Australia	t	289	291	280	266	281	258	262	246	245
Asia	t	294	296	331	309	330	292	336	284	317
Canada	t	158	155	157	148	141	129	120	104	101
China	t	163	172	193	202	211	217	230	247	281
Europe	t	24	20	20	21	20	20	19	19	17
Latin America	t	381	378	375	392	406	413	462	495	472
Russian Federation	t	138	154	165	181	182	182	175	173	169
South Africa	t	477	454	417	419	398	363	315	296	270
Other Africa	t	185	193	221	238	231	215	234	244	241
United States	t	342	355	335	299	281	260	262	252	240
Other	t	141	145	146	138	138	144	131	126	123
Total mine production	t	2 592	2 613	2 640	2 613	2 619	2 493	2 547	2 485	2 475
Forward sales and option hedging	t	506	- 15	- 151	- 412	- 289	- 438	- 92	- 410	- 446
Net official sales	t	477	479	520	547	620	479	663	370	481
Net scrap sales	t	620	619	749	872	985	878	897	1 126	956
Net other sales	t	0	292	115	171	0	0	0	0	0
Total supply **a**	t	4 195	4 018	3 909	4 032	4 224	3 863	4 107	3 981	3 912
Demand										
Fabrication consumption										
Jewellery	t	3 140	3 204	3 008	2 660	2 482	2 613	2 708	2 284	2 401
Electronics	t	247	283	197	206	233	262	281	308	311
Dentistry	t	66	69	69	69	67	68	62	61	58
Official coins	t	155	77	83	97	107	115	111	129	137
Medals and unofficial coins	t	25	29	29	27	26	26	37	59	73
Other	t	99	99	97	83	82	84	88	91	92
Total fabrication	t	3 732	3 761	3 482	3 141	2 997	3 168	3 287	2 932	3 072
Net bullion purchases	t	463	242	276	480	938	257	728	639	394
Total demand **a**	t	4 195	4 018	3 909	4 032	4 224	3 863	4 107	3 981	3 912
Gold price **b**	$/oz	279.08	279.28	271.09	310.20	363.68	409.28	444.91	604.71	696.81

a Total supply is defined as the flow of new mine output, and the net sale of aboveground stocks, while total demand is equal to net gold purchases. This classification of annual gold flows is symmetric, so that total annual supply equals total annual demand. **b** Average London AM fix price, expressed in US dollars.

Sources: ABARE, *Australian Commodities,* Canberra; Gold Fields Mineral Services Ltd, *Gold,* Surrey London; London Bullion Market Association.

280 Summary of Australian statistics for gypsum

		Exports a		
	Production	Volume	Value	Unit value
	kt	kt	$'000	$/t
1962	641.0	141.6	747	5.27
1963	737.1	146.1	715	4.89
1964	807.8	208.8	1 008	4.83
1965	846.9	140.9	747	5.30
1966	814.4	235.2	1 100	4.68
1967	928.8	211.0	879	4.17
1968	857.3	251.9	1 135	4.51
1969	912.1	232.8	1 006	4.32
1970	845.4	218.4	1 051	4.81
1971	889.2	258.3	1 251	4.84
1972	959.1	282.3	1 444	5.12
1973	1 165.2	437.3	2 128	4.87
1974	1 068.9	303.2	1 778	5.86
1975	932.6	215.8	1 539	7.13
1976	941.9	187.7	1 527	8.13
1977	916.0	190.5	1 624	8.52
1978	939.9	181.0	1 640	9.06
1979	1 230.2	423.0	3 105	7.34
1980	1 309.3	389.3	3 814	9.80
1981	1 752.3	645.2	6 861	10.63
1982	1 863.7	604.5	7 982	13.20
1983	1 509.8	800.0	11 044	13.81
1984	1 931.2	726.0	9 653	13.30
1985	1 744.5	516.0	8 362	16.21
1986	1 671.0	423.2	7 702	18.20
1987	1 811.9	195.4	2 968	15.19
1988	1 655.9	116.2	1 391	11.97
1988-89	1 834.6	68.1	1 048	15.39
1989-90	1 885.5	na	na	na
1990-91	1 381.7	53.2	759	14.28
1991-92	1 347.5	160.7	1 775	11.04
1992-93	1 589.5	161.6	1 807	11.19
1993-94	1 691.6	151.7	2 036	13.42
1994-95	1 995.5	231.1	2 993	12.95
1995-96	1 916.3	85.6	1 476	17.24
1996-97	2 392.6	116.9	2 134	18.25
1997-98	3 052.3	570.9	12 070	21.14
1998-99	3 465.6	988.8	18 781	18.99
1999-00	3 796.5	1 121.2	21 059	18.78
2000-01	3 225.5	724.4	16 096	22.22
2001-02	4 267.7	1 010.0	21 835	21.62
2002-03	4 066.0	1 045.0	18 788	17.98
2003-04	4 325.1	1 083.0	16 570	15.30
2004-05	3 881.6	878.4	15 172	17.27
2005-06	4 264.9	1 525.8	26 449	17.33
2006-07	3 896.1	1 179.7	21 550	18.27
2007-08	na	1 032.2	18 584	18.00

a Raw gypsum. Bulk only to 1978; bulk and bagged thereafter. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; state mines departments and their equivalents; ABARE.

281 Australian production of gypsum, by state

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Australia
	kt	kt	kt	kt	kt	kt
1961	98.8	81.5	na	393.5	45.9	619.7
1962	73.0	80.0	na	435.6	52.5	641.0
1963	63.2	116.3	na	505.9	51.6	737.1
1964	65.6	105.9	na	590.5	45.7	807.8
1965	59.3	171.3	na	568.9	47.4	846.9
1966	45.7	113.1	na	613.1	42.6	814.4
1967	43.2	227.7	na	617.2	40.7	928.8
1968	32.8	78.7	na	640.1	105.6	857.3
1969	32.1	85.7	na	728.8	65.4	912.1
1970	39.0	47.6	na	667.4	91.4	845.4
1971	36.4	46.3	na	652.7	153.9	889.2
1972	39.1	42.1	na	721.5	156.5	959.1
1973	32.8	43.7	na	921.9	166.8	1 165.2
1974	42.6	43.0	na	769.8	213.5	1 068.9
1975	34.2	54.1	na	759.3	85.1	932.6
1976	36.2	69.0	na	721.0	115.8	941.9
1977	33.6	84.8	na	694.0	103.7	916.0
1978	18.0	107.4	na	648.1	166.3	939.9
1979	26.8	201.2	na	782.3	219.9	1 230.2
1980	25.0	269.4	na	768.6	246.3	1 309.3
1981	20.2	282.8	na	1 017.2	432.0	1 752.3
1982	17.4	235.9	na	1 159.3	451.2	1 863.7
1983	14.7	79.3	na	924.0	491.9	1 509.8
1984	38.9	236.4	na	1 018.2	637.7	1 931.2
1985	51.0	239.8	na	1 001.9	451.8	1 744.5
1986	47.3	173.4	na	1 135.8	314.5	1 671.0
1987	34.5	412.0	na	1 229.4	136.0	1 811.9
1988	33.7	233.0	na	1 277.2	112.0	1 655.9
1988-89	27.8	241.4	na	1 399.4	166.0	1 834.6
1989-90	29.0	301.5	na	1 400.0	155.0	1 885.5
1990-91	27.5	49.2	na	1 222.5	82.5	1 381.7
1991-92	18.7	53.1	na	1 173.9	101.8	1 347.5
1992-93	24.0	180.2	na	1 260.5	124.8	1 589.5
1993-94	0.0	176.8	3.8	1 315.8	195.2	1 691.6
1994-95	69.0	193.1	24.9	1 478.9	229.6	1 995.5
1995-96	37.3	198.7	25.6	1 401.8	252.9	1 916.3
1996-97	43.2	501.5	40.6	1 555.3	251.9	2 392.6
1997-98	105.2	479.8	36.4	1 596.0	834.9	3 052.3
1998-99	174.4	404.9	29.6	1 601.3	1 255.5	3 465.6
1999-00	161.7	462.8	11.0	1 824.1	1 336.9	3 796.5
2000-01	198.2	437.7	27.0	1 615.2	947.4	3 225.5
2001-02	284.8	781.2	78.7	1 776.6	1 346.3	4 267.7
2002-03	183.3	546.4	55.3	1 822.3	1 458.6	4 066.0
2003-04	230.4	571.9	69.2	1 919.5	1 534.1	4 325.1
2004-05	174.6	450.5	52.1	1 796.7	1 407.7	3 881.6
2005-06	168.1	541.2	48.6	1 913.2	1 593.9	4 264.9
2006-07	129.3	305.8	67.4	1 898.7	1 494.8	3 896.1

na Not available.

Sources: ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; state mines departments and their equivalents; ABARE.

282 Australian exports of gypsum

	Raw a						Calcined	
					Total			
	Indonesia	New Zealand	Singapore	Other	Volume	Value	Volume	Value
	kt	kt	kt	kt	kt	$'000	t	$'000
1961	0.0	70.3	0.0	19.7	90.0	570	na	na
1962	0.0	80.4	0.0	61.3	141.6	747	na	na
1963	0.0	78.2	0.0	67.9	146.1	715	na	na
1964	0.0	106.0	0.0	102.8	208.8	1 008	na	na
1965	5.1	102.2	0.0	33.6	140.9	747	na	na
1966	5.6	109.7	0.0	119.9	235.2	1 100	na	na
1967	14.0	87.7	0.0	109.3	211.0	879	na	na
1968	10.6	85.8	0.0	155.6	251.9	1 135	na	na
1969	21.1	101.5	17.0	93.2	232.8	1 006	na	na
1970	11.7	104.8	18.8	83.2	218.4	1 051	na	na
1971	15.9	100.3	12.1	129.9	258.3	1 251	na	na
1972	23.6	107.7	26.3	124.6	282.3	1 444	na	na
1973	26.2	147.5	42.1	221.4	437.3	2 128	na	na
1974	30.6	173.1	14.9	84.6	303.2	1 778	na	na
1975	15.6	151.7	27.3	21.2	215.8	1 539	na	na
1976	34.5	122.9	27.5	2.8	187.7	1 527	na	na
1977	37.9	113.0	15.9	23.8	190.5	1 624	na	na
1978	29.7	84.5	16.2	50.6	181.0	1 640	na	na
1979	148.1	63.7	49.7	161.5	423.0	3 105	1 696	223
1980	197.9	98.3	42.9	50.2	389.3	3 814	2 003	172
1981	183.0	104.6	67.1	290.5	645.2	6 861	1 771	188
1982	173.6	124.5	88.0	218.5	604.5	7 982	2 350	263
1983	174.4	98.2	110.4	416.9	800.0	11 044	3 187	416
1984	251.4	128.2	96.9	249.5	726.0	9 653	6 196	901
1985	192.6	143.0	57.0	123.5	516.0	8 362	4 751	728
1986	148.1	118.1	38.4	118.7	423.2	7 702	5 348	893
1987	15.5	122.7	0.0	57.2	195.4	2 968	4 866	848
1988	0.0	116.2	0.0	0.0	116.2	1 391	4 704	845
1988-89	0.1	68.0	0.0	0.0	68.1	1 048	3 940	752
1989-90	0.1	0.0	0.0	na	na	na	10 437	1 032
1990-91	0.0	15.5	0.0	37.6	53.2	759	5 702	1 100
1991-92	0.0	97.2	0.0	63.5	160.7	1 775	6 128	1 318
1992-93	0.0	111.5	12.0	38.1	161.6	1 807	8 610	1 958
1993-94	0.0	101.6	0.0	50.1	151.7	2 036	9 986	2 408
1994-95	0.0	155.2	12.4	63.5	231.1	2 993	8 836	2 338
1995-96	0.2	32.3	0.0	53.1	85.6	1 476	11 477	3 212
1996-97	1.3	0.4	0.1	115.0	116.9	2 134	12 012	3 487
1997-98	48.2	0.8	0.2	521.7	570.9	12 070	17 538	5 656
1998-99	38.5	0.1	0.0	950.2	988.8	18 781	6 926	2 046
2000-01	0.0	0.4	0.0	724.0	724.4	16 096	2 576	916
2001-02	0.0	0.1	0.0	1 009.8	1 010.0	21 835	779	494
2002-03	0.0	0.1	0.1	1 044.8	1 045.0	18 788	36 986	941
2003-04	0.0	0.1	0.1	1 082.8	1 083.0	16 570	30 921	1 589
2004-05	0.0	0.1	0.0	878.3	878.4	15 172	1 717	1 149
2005-06	0.0	126.1	0.1	1 399.7	1 525.8	26 449	977	452
2006-07	0.0	93.7	0.1	1 085.9	1 179.7	21 550	676	299
2007-08	0.0	348.0	0.1	684.0	1 032.2	18 584	201	238

a Bulk only to 1978; bulk and bagged thereafter. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

283 World mine production gypsum, by country

	Australia	Canada	China a	France	Japan	Spain	United States	Other	Total
	kt	kt	kt	kt	kt	kt	kt	kt	kt
1960	590	4 620	na	3 777	735	2 487	8 913	19 520	40 642
1961	620	4 591	na	3 836	724	3 052	8 618	20 217	41 658
1962	641	4 837	na	3 997	800	3 557	8 221	22 653	44 706
1963	737	5 381	na	4 208	782	4 598	9 424	21 608	46 738
1964	808	5 770	na	4 913	751	2 854	9 692	21 951	46 738
1965	847	5 720	na	5 013	649	2 855	9 104	20 518	44 706
1966	814	5 427	na	5 272	597	2 947	8 751	20 898	44 706
1967	929	4 471	na	5 190	584	2 947	8 522	22 064	44 706
1968	857	5 664	na	5 162	572	3 963	9 235	23 064	48 516
1969	912	6 334	na	6 055	569	4 064	9 108	23 557	50 599
1970	845	5 844	na	6 088	581	4 288	8 584	24 570	50 800
1971	889	6 169	na	5 111	536	4 200	9 451	26 644	53 000
1972	959	7 200	na	5 850	465	4 100	11 840	27 236	57 650
1973	1 165	7 540	na	6 160	460	4 100	12 330	29 105	60 860
1974	1 069	7 470	na	6 220	na	4 400	10 890	31 941	61 990
1975	933	5 700	na	5 800	na	4 200	8 800	31 567	57 000
1976	942	6 002	na	5 900	na	4 200	10 868	34 858	62 770
1977	916	7 234	na	6 032	na	5 482	12 147	39 894	71 705
1978	940	8 075	1 500	6 036	na	5 369	13 509	40 280	75 709
1979	1 230	8 098	3 630	6 240	na	5 275	13 272	43 615	81 360
1980	1 309	7 209	3 360	5 889	na	5 223	11 227	43 150	77 367
1981	1 752	7 025	3 450	6 147	na	5 223	10 430	42 129	76 156
1982	1 864	5 987	3 540	6 039	6 363	5 048	9 560	33 913	72 314
1983	1 510	7 507	4 260	5 544	5 845	5 620	11 688	36 695	78 669
1984	1 931	7 756	4 810	5 400	6 100	5 365	12 990	36 378	80 730
1985	1 744	8 400	5 700	5 400	6 300	5 500	13 360	38 706	85 110
1986	1 671	8 500	6 500	5 500	6 300	5 500	14 300	39 309	87 580
1987	1 812	8 600	6 800	5 400	6 300	5 500	14 300	39 680	88 160
1988	1 656	8 500	8 100	5 400	6 300	5 500	14 870	49 534	99 860
1989	1 835	8 700	8 100	5 700	6 300	5 500	16 000	46 385	98 520
1990	1 886	8 200	8 000	5 620	6 350	5 000	14 550	48 055	97 660
1991	1 382	8 000	8 100	5 600	6 350	5 000	14 022	45 481	93 935
1992	1 348	7 054	10 977	5 715	5 443	4 990	14 759	47 257	97 791
1993	1 590	7 345	9 616	4 536	4 990	6 804	14 344	44 504	93 623
1994	1 692	8 500	10 500	5 000	5 300	7 250	17 200	45 735	101 000
1995	1 995	7 960	11 000	5 000	3 900	7 500	16 600	44 297	98 100
1996	1 916	8 330	8 000	5 000	5 350	8 000	17 500	45 802	99 700
1997	2 393	8 500	7 800	5 000	5 500	7 400	18 600	49 309	104 000
1998	3 052	8 100	9 000	4 500	5 300	7 400	19 000	51 128	107 000
1999	3 466	9 470	9 000	4 500	5 500	7 500	22 400	50 940	107 000
2000	3 796	8 550	6 800	4 500	5 600	7 500	19 500	45 233	106 000
2001	3 225	8 560	6 800	4 500	5 900	7 500	16 300	51 249	104 000
2002	4 268	8 850	6 850	3 500	5 900	7 500	15 700	48 432	101 000
2003	4 066	9 000	6 900	3 500	5 700	7 500	16 000	51 334	104 000
2004	4 325	9 340	7 000	3 500	5 800	11 500	17 200	50 335	109 000
2005	3 882	9 400	7 300	3 500	5 890	11 500	21 100	55 428	118 000
2006	4 265	9 500	7 500	4 800	5 950	13 200	21 100	58 685	125 000
2007	3 896	9 500	7 700	4 800	5 950	13 200	22 000	59 954	127 000

a Excludes Hong Kong. **na** Not available.

Sources: ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; US Department of the Interior, US Geological Survey, *Mineral Commodity Summaries,* Washington DC; ABARE.

284 Summary of Australian statistics for iron ore and steel

	Production a				Exports		
	Iron ore		Pig	Crude	Iron ore	Pig	Crude
	Pellets	Total	iron	steel	and pellets	iron	steel bs
	kt	kt	kt	kt	kt	kt	kt
1964	0	5 846	4 049	5 099	13	57	9
1965	0	6 805	4 252	5 464	152	46	10
1966	0	11 071	4 743	5 891	2 045	97	255
1967	0	17 314	5 058	6 268	9 164	152	344
1968	3 000	26 632	5 573	6 503	16 398	246	356
1969	5 871	38 576	6 107	7 016	26 858	375	545
1970	5 957	51 188	6 148	6 822	41 112	310	226
1971	6 800	62 063	6 128	6 737	52 796	519	122
1972	6 424	64 401	6 491	6 743	54 079	582	597
1973	10 153	84 828	7 658	7 682	74 181	853	771
1974	10 066	96 950	7 250	7 755	83 654	753	775
1975	9 469	97 651	7 475	7 843	80 363	520	1 636
1976	9 594	93 255	7 417	7 774	81 231	698	1 534
1977	10 226	95 932	6 753	7 313	78 908	647	1 280
1978	9 471	83 134	7 337	7 589	75 264	711	1 008
1979	9 303	91 717	7 811	8 125	78 447	643	611
1980	5 329	95 534	6 959	7 594	80 375	515	306
1981	3 887	84 661	6 830	7 635	71 729	158	378
1982	3 321	87 694	5 956	6 371	72 567	101	218
1983	3 043	71 485	5 045	5 657	74 088	469	384
1984	3 497	89 046	5 329	6 303	85 477	71	294
1985	3 725	97 447	5 607	6 578	84 746	26	583
1986	3 338	94 015	5 889	6 703	79 523	26	496
1987	3 309	101 748	5 569	6 125	77 829	165	523
1988	3 400	96 084	5 730	6 399	94 855	25	843
1989	3 600	105 810	6 094	6 735	101 681	24	948
1990	4 537	109 166	6 125	6 666	95 928	1	1 740
1991	3 475	117 134	5 647	6 017	111 557	0	1 934
1992	1 437	113 097	6 388	6 990	103 487	0	2 315
1993	1 512	121 429	7 284	7 837	111 527	0	2 621
1994	1 507	128 662	7 855	8 455	119 093	0	3 069
1995	1 596	139 067	7 861	8 481	130 367	0	2 950
1996	1 608	147 200	7 381	8 429	128 274	22	3 130
1997	168	157 767	7 685	8 837	146 757	4	3 188
1998	3 618	153 459	7 723	8 886	136 418	0	3 364
1999	1 932	154 979	7 047	8 481	139 278	3	3 253
2000	2 066	167 935	7 049	7 855	157 368	3	2 815
2001	2 024	181 174	6 017	8 299	156 718	0	3 187
2002	2 139	187 198	6 106	8 874	165 869	0	3 385
2003	2 256	212 981	6 116	9 661	187 708	72	3 955
2004	2 103	233 994	5 735	8 104	209 828	70	2 997
2005	2 165	261 855	6 203	7 789	239 313	0	2 265
2006	2 441	275 098	6 433	7 937	247 429	67	2 595
2007	3 623	298 974	6 351	8 047	266 910	98	2 501

a Iron ore figures expressed in natural weight. **b** Series up to and including 1987 do not include flat rolled products, bars and rods, and wire and steel sections. Subsequent series include all items in ABS, *Australian Harmonized Export Commodity Classification*, chapter 72, 'Iron and steel', excluding ferrous waste, scrap and ferroalloys. **s** ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics*, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics*, Canberra.

285 Volume of Australian exports of iron and steel, by destination [a]

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	16	59	8	5	7	2	5	6
Americas								
North	544	88	270	254	259	251	492	308
Other	93	44	44	35	15	4	14	47
Total	637	132	314	289	274	255	506	355
Asia								
China	93	698	877	1 251	430	6	6	4
Chinese Taipei	183	78	39	65	155	50	8	22
Hong Kong, China	45	16	9	12	5	15	10	6
India	20	4	41	6	5	1	18	4
Indonesia	82	75	36	46	61	51	25	25
Japan	53	25	175	3	5	27	5	7
Korea, Rep. of	302	343	149	271	93	78	129	209
Malaysia	66	48	17	94	51	6	32	61
Philippines	11	19	2	3	3	3	2	7
Singapore	19	7	51	7	7	3	5	12
Thailand	124	29	51	70	81	64	102	219
Other	52	37	78	139	50	57	25	72
Total	1 049	1 379	1 525	1 966	946	360	366	650
Europe	212	73	224	77	6	4	187	154
New Zealand	92	91	137	112	117	67	90	88
Other	809	1 453	1 175	1 505	1 646	1 576	1 441	1 249
Total	2 815	3 187	3 385	3 955	2 997	2 265	2 595	2 501

a Includes all items in ABS, *Australian Harmonized Export Commodity Classification,* chapter 72, 'Iron and steel', excluding ferrous waste, scrap and ferroalloys. Data for slab, hot rolled, cold rolled and coated steel products became confidential in 2000. Estimates or export volumes are included in 'other' category.

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

286 Australian supply and disposal of iron ore and steel

	Unit	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production								
Iron ore and concentrate	kt	185 273	199 149	222 815	251 918	263 815	287 653	324 693
Pig iron	kt	6 062	6 111	5 926	5 969	6 195	6 337	6 307
Raw steel	kt	8 611	9 399	9 430	7 395	7 866	8 010	8 121
Exports								
Iron ore and pellets	kt	156 130	181 478	194 773	228 456	239 380	257 365	294 208
	$m	5 160	5 342	5 277	8 120	12 854	15 512	20 423
Iron and steel **s**	kt	3 297	3 589	3 818	2 338	2 428	2 648	2 131
	$m	1 484	1 855	2 004	2 031	1 674	1 743	1 562
Scrap	kt	934	890	955	1 009	1 876	1 328	1 783
	$m	177	211	298	402	467	607	834
Export unit value								
Iron ore and pellets	$/t	33.05	29.44	27.09	35.54	53.70	60.27	69.42

s ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

287 Volume of Australian iron ore exports, by destination a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Asia								
China	33 293	38 023	44 018	59 971	80 109	117 537	128 568	142 436
Chinese Taipei	9 089	9 904	9 347	8 664	9 095	9 144	9 448	9 997
Japan **b**	69 362	66 830	70 492	75 353	80 314	76 200	73 834	77 310
Korea, Rep. of	21 203	23 810	25 120	26 000	26 472	24 978	26 261	30 503
Other	828	922	865	594	494	215	208	212
United States	609	436	628	67	0	0	0	0
Western Europe	21 484	15 867	14 450	16 051	12 563	10 914	8 575	6 218
Other **c**	1 501	926	949	1 008	782	325	536	235
Total	157 368	156 718	165 869	187 708	209 828	239 313	247 429	266 910

a Dry weight. **b** Includes exports to the Philippines which were subsequently re-exported to Japan. **c** Includes data for which details of export destinations are not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

288 Summary of world statistics for iron ore and steel

	Production				
	Iron ore a				
	Pellets	Total	Iron b	Crude steel	Iron ore exports a
	Mt	Mt	Mt	Mt	Mt
1964	40.5	568.9	307.9	429.9	198.7
1965	46.5	624.3	326.3	452.4	211.7
1966	58.0	625.9	335.8	471.3	214.9
1967	71.5	629.2	352.4	493.3	223.7
1968	94.5	687.7	378.4	523.9	256.7
1969	104.3	720.3	408.4	570.9	278.8
1970	117.9	773.9	426.5	595.3	323.1
1971	122.2	780.5	423.1	582.3	318.0
1972	127.5	781.7	447.1	630.2	311.4
1973	150.7	845.6	493.5	696.4	377.0
1974	153.6	896.3	503.4	703.5	411.8
1975	161.5	888.8	469.9	643.5	381.0
1976	174.5	922.9	489.4	675.1	379.8
1977	163.3	880.8	485.8	675.3	358.0
1978	182.6	891.3	506.7	716.5	350.6
1979	205.4	947.6	528.3	746.7	398.1
1980	186.3	917.9	508.1	716.3	384.6
1981	195.2	894.6	497.2	707.1	372.9
1982	155.1	818.2	452.6	644.9	329.3
1983	171.0	782.1	458.1	663.4	315.1
1984	192.8	882.2	490.7	710.3	372.4
1985	201.9	909.6	499.6	718.9	375.8
1986	196.5	920.7	496.3	714.0	370.0
1987	211.5	945.5	509.0	735.5	367.8
1988	230.2	964.4	538.4	780.1	400.9
1989	237.1	991.0	544.8	785.9	424.3
1990	225.3	980.6	531.6	770.1	397.1
1991	211.5	952.1	508.6	736.2	398.9
1992	205.9	907.8	476.4	719.6	334.0
1993	205.3	944.3	477.4	727.6	354.0
1994	218.7	967.8	482.6	725.1	383.0
1995	245.3	918.6	524.2	752.3	459.8
1996	238.9	898.0	517.4	750.1	442.7
1997	249.5	924.4	546.6	798.9	473.8
1998	242.6	906.6	539.5	777.3	453.9
1999	233.5	884.6	541.1	789.0	437.6
2000	259.1	959.7	576.3	847.7	502.3
2001	239.1	932.0	578.4	850.4	497.4
2002	267.6	986.4	611.0	903.9	532.6
2003	284.3	1 074.2	670.1	969.7	582.3
2004	305.7	1 184.2	724.1	1 068.6	669.4
2005	342.9	1 315.8	800.8	1 146.2	718.6
2006	351.0	1 482.6	881.1	1 250.2	765.2
2007	361.2	1 655.5	947.6	1 343.5	835.6

a Natural weight. **b** Total production of primary iron less total production of directly reduced iron.

Sources: Association of Iron Ore Exporting Countries, *Iron Ore Statistics,* Geneva; International Iron and Steel Institute, *Steel Statistical Yearbook,* Brussels; United Nations Conference on Trade and Development, Trust Fund on Iron Ore, *Iron Ore Statistics,* Geneva; United Nations Conference on Trade and Development, *Review of Iron Ore Statistics, Iron Ore Statistics,* Geneva; United Nations Conference on Trade and Development, *Statistical Issues: Statistics on Iron Ore,* Geneva; United Nations Conference on Trade and Development, Trust Fund Project on Iron Ore Information, *The Iron Ore Market 1999-2000,* Geneva.

289 World iron ore production, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	167.9	181.2	187.2	213.0	234.0	261.9	275.1	299.0
Brazil b	208.8	210.0	225.1	245.6	270.5	292.4	321.5	358.5
Canada	35.9	27.9	30.9	33.3	28.3	30.1	34.1	33.2
China c	105.3	102.6	108.8	122.7	145.7	197.6	276.4	332.3
India	74.9	79.2	86.4	99.1	120.6	142.7	180.9	206.9
Russian Federation	87.0	83.0	84.3	91.4	97.0	96.8	103.9	105.0
South Africa	33.7	34.8	36.5	38.1	39.3	39.5	41.3	41.6
Sweden	20.6	19.5	20.3	21.5	22.3	23.3	23.3	24.7
Ukraine	55.6	54.7	58.9	62.5	65.5	68.6	73.1	77.4
United States	63.1	45.8	51.5	48.5	54.7	54.3	52.9	52.0
Venezuela	17.4	19.0	20.9	19.2	20.0	21.2	22.1	20.7
Other	89.4	74.4	75.6	79.4	86.3	87.5	78.0	104.2
Total	959.7	932.0	986.4	1 074.2	1 184.2	1 315.8	1 482.6	1 655.5

a Natural weight. **b** Pellets not included. **c** Converted to correspond with world average Fe content.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; United Nations Conference on Trade and Development, Trust Fund on Iron Ore, *Iron Ore Statistics,* Geneva; United Nations Conference on Trade and Development, *Review of Iron Ore Statistics,* Geneva.

290 Volume of world iron ore exports, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	157.4	156.7	165.9	187.7	209.8	239.3	247.4	266.9
Brazil	160.1	155.7	170.0	184.4	200.9	223.4	246.6	269.4
Canada	26.5	22.0	25.6	27.1	23.1	27.9	27.7	28.3
India	32.9	37.3	46.6	57.3	62.7	80.9	89.3	93.7
Mauritania	11.1	10.1	10.5	9.6	11.0	10.6	10.7	11.9
Russian Federation	17.4	23.3	13.0	16.2	17.0	20.1	22.8	25.5
South Africa	21.4	23.5	24.3	24.1	24.7	26.6	27.4	31.5
Sweden	16.0	13.6	14.2	15.6	17.3	17.8	18.2	19.1
Ukraine	19.5	18.1	18.7	20.2	18.1	19.6	20.2	19.4
Venezuela	6.9	6.9	6.7	7.4	9.3	7.6	5.6	8.5
Other	30.0	26.1	38.3	31.9	78.6	41.5	49.2	61.3
Total	502.3	497.4	532.6	582.3	669.4	718.6	765.2	835.6

a Natural weight.

Sources: Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; United Nations Conference on Trade and Development, Trust Fund on Iron Ore Information, *Iron Ore Market 1999-2000,* Geneva; United Nations Conference on Trade and Development, *Review of Iron Ore Statistics,* Geneva.

291 Volume of world iron ore imports, by region and country [a]

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa and Middle East									
Qatar	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.8
Saudi Arabia	3.5	4.6	4.4	4.7	4.3	3.9	9.7	5.5	5.1
Other	6.2	9.2	9.5	10.1	10.5	9.6	8.7	8.6	8.3
Total	10.8	14.9	15.1	15.9	16.0	14.8	19.7	15.5	15.2
Americas									
Argentina	4.1	5.1	4.5	5.2	6.3	13.5	5.7	6.7	4.3
Canada	7.3	6.6	5.9	6.8	6.6	8.0	9.6	7.6	6.5
Mexico	3.9	3.1	2.3	2.7	3.6	4.4	4.2	3.9	3.9
United States	14.2	15.7	10.6	12.5	12.5	11.8	13.0	11.5	9.4
Other	2.5	2.6	3.5	3.3	3.4	3.9	3.9	4.5	4.5
Total	32.0	33.0	26.8	30.6	32.5	41.5	36.3	34.1	28.6
Asia and Oceania									
China	55.3	70.0	92.4	111.4	148.1	208.1	275.3	326.3	383.7
Chinese Taipei	13.2	14.9	15.6	15.2	15.6	15.7	14.6	15.5	16.0
Indonesia	2.1	2.2	1.3	1.3	1.6	1.6	1.5	1.8	1.7
Japan	120.1	131.7	126.3	129.1	132.1	134.9	132.3	134.4	139.0
Korea, Rep. of	35.4	39.0	45.9	43.3	43.1	44.2	43.5	43.9	46.6
Malaysia	1.4	1.7	1.6	1.3	2.4	2.2	1.9	2.1	2.7
Pakistan	1.6	0.1	1.5	1.5	1.0	1.0	2.1	1.3	0.9
Other	4.7	4.8	4.6	5.0	4.8	4.6	5.3	5.0	5.0
Total	233.8	264.4	289.1	308.1	348.7	412.3	476.4	530.3	595.6
Europe									
Austria	4.3	5.4	5.3	5.8	5.7	5.8	7.4	7.7	9.0
Belgium–Luxembourg	12.2	11.8	11.2	12.2	11.6	10.4	9.4	11.4	9.6
Bulgaria	1.7	1.8	1.3	1.5	1.6	1.7	1.4	1.3	1.2
Czech Republic	5.4	6.6	6.9	6.8	8.2	9.4	6.8	7.6	5.3
Finland	3.8	3.9	3.9	3.8	4.2	3.8	4.2	3.5	3.2
Former Yugoslavia	1.3	0.3	0.0	0.1	1.8	2.1	2.9	3.0	3.0
France	20.3	19.7	16.7	19.0	19.0	20.8	19.5	19.9	19.4
Germany	38.8	47.5	40.1	44.3	33.9	43.3	39.1	44.9	46.2
Hungary	1.7	2.1	1.7	1.7	1.8	1.7	1.0	0.9	2.1
Italy	15.6	17.6	15.8	14.9	15.2	16.7	17.6	17.8	17.0
Netherlands	7.9	7.3	7.7	7.4	14.7	30.3	12.3	11.3	12.7
Poland	7.2	9.7	7.7	6.9	8.7	5.2	6.8	8.6	9.2
Portugal	0.6	0.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Romania	4.2	5.0	3.9	6.2	7.0	6.6	6.6	6.6	6.2
Russian Federation	4.1	9.1	8.8	8.7	10.1	10.4	9.7	11.2	12.6
Slovakia	4.3	4.7	4.6	5.1	5.7	5.3	5.5	6.5	5.9
Spain	6.3	6.3	6.6	6.2	5.8	6.1	6.2	5.5	5.7
Turkey	3.0	4.1	3.6	5.8	5.5	5.4	4.6	5.6	6.1
Ukraine	3.3	7.4	6.3	5.0	7.6	3.3	3.0	2.0	3.6
United Kingdom	17.0	16.8	15.4	13.3	16.1	15.3	16.1	16.4	17.6
Other	0.6	0.3	0.3	0.3	0.3	0.6	0.7	0.6	0.6
Total	163.5	188.2	168.1	175.1	184.5	204.2	180.7	192.3	196.2
Total	440.1	500.5	499.1	529.6	581.7	672.9	713.2	772.2	835.6

a Natural weight.

Sources: United Nations Conference on Trade and Development, Trust Fund on Iron Ore, *Iron Ore Statistics,* Geneva; United Nations Conference on Trade and Development, *Review of Iron Ore Statistics,* Geneva.

292 Iron ore prices

	Australian export unit value a		Negotiated b	
			Fines	Lump
	A$/t	US$/t	USc/dltu	USc/dltu
1964	6.09	6.79	na	na
1965	8.26	9.22	na	na
1966	8.38	9.34	na	na
1967	8.36	9.32	12.00	15.50
1968	8.67	9.66	12.00	15.50
1969	8.69	9.67	12.00	15.50
1970	8.04	8.97	12.00	15.10
1971	7.69	8.75	11.90	15.00
1972	7.29	8.69	11.80	14.90
1973	6.19	8.81	11.70	14.80
1974	7.04	10.15	13.30	17.30
1975	9.32	12.21	15.40	19.30
1976	10.23	12.53	17.40	21.20
1977	12.06	13.38	17.70	21.70
1978	12.06	13.81	20.20	24.70
1979	12.87	14.39	21.20	24.30
1980	14.59	16.63	23.10	26.10
1981	15.79	18.15	27.60	31.20
1982	19.88	20.20	29.70	34.20
1983	21.23	19.14	34.80	40.00
1984	18.87	16.58	30.45	34.85
1985	22.98	16.07	26.67	30.87
1986	24.33	16.25	27.05	31.55
1987	21.54	15.05	25.97	30.29
1988	18.68	14.60	24.67	28.78
1989	20.53	16.21	23.68	28.78
1990	23.55	18.34	26.76	33.76
1991	25.92	20.12	31.03	39.15
1992	27.18	19.16	33.49	41.48
1993	25.93	17.59	31.85	38.84
1994	21.75	15.84	28.35	35.34
1995	22.49	16.59	27.15	35.89
1996	22.68	17.68	28.78	37.68
1997	24.29	18.01	29.10	37.68
1998	29.23	18.34	29.92	38.79
1999	25.63	16.53	26.63	34.83
2000	28.14	16.38	27.79	36.84
2001	33.38	17.31	28.98	38.03
2002	31.33	17.04	28.28	36.13
2003	27.15	17.69	30.83	39.35
2004	29.40	21.61	35.99	45.93
2005	46.26	35.21	61.72	78.77
2006	58.06	43.63	73.45	93.74
2007	60.92	51.04	80.43	102.64
2008	na	na	144.67	201.69

a Australia commenced commercial exports of iron ore in 1964. **b** Negotiated Japanese fiscal year hematite ores, fob. USc/dmtu from 2004. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; International Monetary Fund, *International Financial Statistics,* Washington DC; TEX Report Co. Ltd, *Iron Ore Manual,* Tokyo.

293 Summary of Australian statistics for lead

	Production				Exports d		
	Mine a	Bullion b	Refined c	Consumption	Volume	Value	Price e
	kt	kt	kt	kt	kt	$m	$/t
1963	416	82	225	64	380	53	166.5
1964	381	80	203	63	350	73	235.5
1965	368	68	193	64	340	86	276.6
1966	371	75	193	65	354	79	248.8
1967	382	103	191	66	335	80	217.5
1968	389	118	175	66	334	87	218.6
1969	453	156	186	71	342	97	259.2
1970	457	171	180	62	401	123	282.1
1971	404	162	163	63	338	87	239.1
1972	396	139	180	63	320	87	241.3
1973	403	150	190	74	329	107	275.2
1974	375	144	193	72	315	155	389.4
1975	408	152	158	72	298	126	324.2
1976	397	161	182	75	359	157	358.6
1977	432	156	182	77	339	226	531.8
1978	400	152	204	74	369	236	563.2
1979	422	169	215	72	351	437	1 031.2
1980	398	160	200	79	344	570	843.3
1981	388	163	208	66	329	315	662.5
1982	455	182	219	56	397	334	622.4
1983	481	183	196	56	409	383	592.2
1984	441	179	199	59	427	358	515.3
1985	498	183	200	59	430	358	568.1
1986	445	188	156	60	412	361	604.5
1987	489	197	202	62	388	512	867.6
1988	462	191	193	60	420	490	885.7
1989	495	183	212	61	338	382	892.8
1990	565	195	212	58	398	464	1 123.6
1991	579	182	220	56	425	331	801.6
1992	580	231	232	58	542	460	813.6
1993	510	221	221	62	496	334	670.7
1994	505	197	212	78	465	368	810.8
1995	455	164	215	77	479	429	912.6
1996	527	191	204	67	488	489	1 074.7
1997	526	179	203	63	517	431	919.2
1998	618	164	173	54	578	544	914.3
1999	677	162	239	56	696	571	860.2
2000	699	139	223	41	656	576	854.9
2001	759	195	237	41	717	709	1 017.8
2002	694	187	268	39	751	706	1 025.6
2003	688	169	270	38	723	638	950.2
2004	674	140	232	39	715	907	1 356.0
2005	766	159	230	28	815	1 205	1 597.8
2006	668	118	206	27	669	1 368	1 995.5
2007	641	125	202	25	620	2 051	3 282.5

a Total metallic content of minerals produced. **b** Metal content. **c** Primary lead production (excludes scrap). **d** Quantities refer to the total metallic content of all ores and concentrates, intermediate products and refined metal; the value of lead contained in other mine and smelter products (for example, in zinc concentrates) is included in the value of the metal in which it is exported. **e** BHAS, 99.97–99.99 per cent, fob/for Port Pirie.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

294 Australian supply and disposal of lead

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production									
Mine **a**	kt	724	744	695	677	682	762	642	641
Bullion **b**	kt	153	201	181	143	153	141	114	152
Refined									
Primary	kt	215	275	267	247	234	234	191	203
Secondary	kt	33	34	36	35	36	33	33	39
Exports									
Ores and concentrates	kt	433	380	366	417	417	502	422	309
	$m	318.2	323.3	288.7	387.2	490.4	710.8	854.5	780.8
Bullion	kt	119	153	150	113	164	140	112	169
	$m	151.5	194.8	164.8	141.9	245.8	235.3	268.1	595.1
Refined metal	kt	199	236	269	231	243	244	215	193
	$m	167.2	210.6	203.4	198.8	305.1	349.7	456.6	674.4
Consumption c	kt	41	39	38	38	33	28	32	32
Export unit value									
Ores and concentrates	A$/t	735.1	850.2	788.9	927.6	1 176.6	1 415.0	2 025.5	2 523.0
Bullion	A$/t	1 276.4	1 276.7	1 097.3	1 253.4	1 498.9	1 679.2	2 401.5	3 528.5
Refined	A$/t	841.2	891.2	755.5	860.9	1 256.0	1 431.1	2 120.7	3 494.1

a Total metallic content of minerals produced. **b** Metal content. **c** Refined metal only.

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

295 Volume of Australian exports of lead, by destination a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Ores and concentrates b								
Belgium	73	64	57	50	30	24	34	34
China	70	74	42	64	83	138	127	63
Japan	39	48	31	43	22	43	40	37
Korea, Rep. of	81	100	130	98	98	110	69	77
United States	9	6	na	na	na	na	na	na
Other	13	12	4	8	31	16	10	18
Total	285	304	264	263	264	331	280	229
Bullion								
United Kingdom	109	148	151	133	150	164	120	129
Total c	109	148	151	133	150	164	120	129
Refined metal								
Chinese Taipei	44	30	30	34	12	6	8	5
Hong Kong, China	9	12	13	17	11	15	17	21
India	24	21	20	13	23	32	36	37
Indonesia	21	16	13	17	11	12	11	5
Japan	2	na	na	na	na	na	na	0
Korea, Rep. of	26	28	33	42	49	19	35	44
Malaysia	16	13	15	18	13	9	11	12
South Africa	9	11	12	11	13	12	9	11
Thailand	10	16	21	25	14	26	20	17
United States	31	37	53	20	na	21	9	0
Other	27	23	53	70	65	93	62	71
Total	219	207	263	267	211	245	218	222

a Excludes slags and residues and scrap. **b** Lead content of lead ores and concentrates only. **c** Includes a substantial amount of contained silver, for which separate details are not available. **na** Not available.

Source: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; International Lead–Zinc Study Group, *Lead and Zinc Statistics,* Lisbon, Portugal.

296 World production, consumption, stocks and prices of lead

	Production						
		Refined metal					
	Mine a	Primary	Secondary b	Total	Consumption	Stocks b	Price c
	kt	kt	kt	kt	kt	kt	US$/t
1962	2 531	2 568	728	3 296	3 275	478	153.0
1963	2 543	2 664	796	3 460	3 429	411	172.2
1964	2 604	2 695	910	3 605	3 633	370	275.0
1965	2 784	2 756	958	3 714	3 670	365	312.5
1966	2 937	2 885	940	3 825	3 847	368	258.5
1967	2 961	2 925	959	3 884	3 861	459	224.7
1968	3 034	3 094	1 044	4 138	4 200	338	236.9
1969	3 295	3 894	1 148	4 542	4 431	414	285.6
1970	3 443	3 616	1 287	4 688	4 502	500	303.8
1971	3 476	3 388	1 261	4 614	4 671	479	252.9
1972	3 585	3 491	1 324	4 803	4 863	470	303.8
1973	3 673	3 580	1 426	4 991	5 218	375	428.2
1974	3 642	3 593	1 462	5 042	5 173	523	591.5
1975	3 570	3 442	1 410	4 828	4 742	576	412.4
1976	3 464	3 539	1 487	5 049	5 183	482	452.8
1977	3 646	3 662	1 707	5 372	5 486	466	618.1
1978	3 622	3 697	1 738	5 459	5 583	396	658.0
1979	3 589	3 716	1 903	5 622	5 683	458	1 204.4
1980	3 495	3 600	1 815	5 417	5 429	525	910.3
1981	3 342	3 560	1 798	5 309	5 345	518	736.9
1982	3 366	3 641	1 649	5 210	5 179	560	543.9
1983	3 265	3 637	1 561	5 198	5 189	560	425.1
1984	3 126	3 470	1 829	5 299	5 312	535	444.3
1985	3 248	3 539	1 835	5 374	5 315	427	394.2
1986	3 082	3 345	1 891	5 236	5 380	480	406.9
1987	3 152	3 386	2 047	5 433	5 464	400	596.1
1988	3 151	3 475	2 102	5 577	5 527	443	656.3
1989	3 110	3 362	2 348	5 710	5 558	356	677.4
1990	3 110	3 087	2 369	5 456	5 411	540	820.0
1991	3 097	3 071	2 262	5 325	5 226	583	559.0
1992	3 047	3 238	2 268	5 437	5 174	735	541.0
1993	2 700	3 176	2 303	5 479	5 225	788	406.0
1994	2 707	2 968	2 483	5 462	5 488	750	549.0
1995	2 750	3 091	2 649	5 740	5 849	611	631.0
1996	3 006	3 074	2 784	5 822	5 987	438	774.0
1997	3 030	3 127	2 905	6 033	6 040	440	624.0
1998	2 990	3 095	2 918	6 010	6 049	420	528.6
1999	2 966	3 291	2 990	6 280	6 246	467	502.6
2000	3 046	3 546	3 109	6 655	6 518	440	453.9
2001	3 008	3 521	3 072	6 594	6 510	436	475.9
2002	2 830	3 560	3 110	6 670	6 649	483	452.6
2003	3 111	3 647	3 117	6 762	6 848	407	515.1
2004	3 138	3 776	3 181	6 980	7 294	294	886.5
2005	3 423	4 392	3 244	7 640	7 805	287	967.3
2006	3 515	4 600	3 322	7 973	8 061	270	1 289.2
2007	3 596	4 691	3 421	8 112	8 149	264	2 580.4

a Metal content. **b** Western world refined metal. **c** Average London Metal Exchange cash price, midday, standard grade, minimum 99.97 per cent.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; International Lead–Zinc Study Group, *Lead and Zinc Statistics,* Lisbon, Portugal; London Metal Exchange.

297 World lead production, by region and country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Mine								
Africa	178	150	130	102	117	130	113	90
Morocco	82	77	62	41	59	46	53	36
South Africa	75	51	50	40	37	42	48	42
Americas	1 053	1 092	1 024	1 029	985	1 013	1 014	1 034
Canada	149	154	97	81	77	79	83	75
Mexico	138	149	139	139	118	134	135	137
Peru	271	289	297	308	306	319	313	329
United States	458	463	449	458	439	432	429	434
Asia	805	728	772	1 104	1 154	1 309	1 521	1 597
China	660	599	641	955	997	1 142	1 331	1 402
India	36	32	32	44	51	58	69	78
Kazakhstan	39	43	43	44	44	45	48	40
Korea, Dem. Rep. of	12	9	10	20	20	20	25	35
Other	58	45	43	41	42	45	48	42
Australia	650	714	658	648	642	715	621	589
Europe	360	324	245	228	230	256	247	287
Bulgaria	14	16	24	17	13	13	10	15
Ireland	57	45	32	50	65	72	62	57
Poland	51	53	57	55	53	51	50	51
Sweden	107	88	44	51	55	61	56	63
Other	131	122	88	55	44	59	69	101
Total	3 046	3 008	2 830	3 111	3 138	3 423	3 515	3 596
Refined b								
Africa	125	125	144	138	100	130	122	115
Americas	2 216	2 087	2 092	2 092	2 005	2 043	2 068	2 058
Canada	284	231	252	223	241	230	250	237
Mexico	241	236	232	239	242	256	255	255
Peru	116	118	120	112	119	122	120	117
United States	1 457	1 376	1 364	1 392	1 262	1 293	1 297	1 303
Other	118	111	124	126	141	141	146	146
Asia	2 163	2 209	2 361	2 630	3 002	3 486	3 833	3 924
China	1 100	1 195	1 325	1 564	1 934	2 391	2 680	2 788
India	67	63	78	71	49	59	104	124
Japan	312	302	286	295	283	275	280	276
Kazakhstan	208	159	152	141	144	142	160	118
Korea, Rep. of	220	211	243	230	243	256	240	260
Other	256	278	277	323	349	363	369	358
Australia	259	271	302	307	273	268	242	249
Europe	1 881	1 893	1 761	1 589	1 569	1 702	1 645	1 765
France	262	230	203	101	104	90	88	88
Germany	387	375	378	357	411	418	379	405
Italy	231	227	196	214	202	211	191	212
Spain	120	122	116	102	105	110	131	136
United Kingdom	338	382	368	320	243	304	298	275
Other	545	557	500	495	504	569	558	649
Other countries	11	9	10	8	8	8	8	1
Total	6 655	6 594	6 670	6 762	6 980	7 640	7 973	8 112

a Lead content by analysis of lead ores and concentrates plus the lead content of other ores and concentrates known to be intended for lead recovery. **b** Includes primary and secondary lead.

Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

298 Volume of world lead trade, by major countries

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Ores and concentrates a								
Australia	285	304	264	263	264	331	280	235
Belgium	63	58	64	51	68	58	68	58
Canada	49	58	42	8	1	0	0	17
Ireland	57	49	31	49	64	65	57	56
Peru	145	151	179	178	186	227	209	187
South Africa	77	38	45	39	44	51	40	68
Sweden	73	68	36	34	34	35	29	32
United States	117	185	245	257	295	387	302	303
Refined lead								
Australia	219	207	263	267	211	245	218	222
Belgium	104	81	62	75	62	90	72	84
Bulgaria	72	68	58	60	54	58	65	66
Canada	167	144	163	149	150	161	184	168
China	443	448	399	438	448	455	538	244
France	76	61	56	11	5	5	23	12
Germany	114	145	133	100	79	97	99	113
Mexico	20	13	9	12	9	18	22	46
Morocco	56	52	70	58	21	50	41	40
Peru	111	115	109	109	113	118	117	117
Sweden	65	52	58	66	63	63	69	60
United Kingdom	84	89	100	62	38	51	86	68
United States	21	17	31	92	59	46	53	52
Imports								
Ores and concentrates a								
Belgium	71	61	69	48	72	78	72	65
Canada	47	53	68	70	93	60	38	48
China	158	255	216	374	454	567	662	697
France	133	109	88	0	0	0	0	0
Germany	115	146	122	108	121	103	97	127
Italy	95	66	63	52	59	65	39	67
Japan	128	117	117	109	94	102	94	93
Korea, Rep. of	126	145	138	151	143	156	145	154
United Kingdom	14	8	0	0	0	0	0	0
Refined lead								
Austria	39	40	42	38	30	12	15	12
Chinese Taipei	126	121	122	98	125	98	101	78
France	80	74	74	101	86	106	120	115
Germany	112	157	136	134	89	85	109	108
Italy	68	77	107	61	95	67	99	94
Korea, Rep. of	113	131	147	153	157	159	121	110
Malaysia	79	74	77	125	62	34	44	35
Singapore	80	89	86	17	41	50	na	64
Spain	104	114	171	119	150	171	141	138
Thailand	51	48	65	79	77	68	81	68
United Kingdom	105	31	29	20	35	27	51	29
United States	357	270	211	176	199	298	333	267

a Metal content.

Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

299 Summary of Australian statistics for limestone

	Production	Exports		Imports	
		Volume	Value	Volume	Value
	kt	t	$'000	kt	$'000
1970	9 996	na	na	511	708
1971	10 335	na	na	713	1 018
1972	10 494	na	na	605	1 001
1973	11 224	na	na	1 130	1 890
1974	11 046	na	na	1 432	2 572
1975	10 854	na	na	1 490	3 775
1976	10 583	na	na	1 527	4 475
1977	10 552	na	na	1 100	4 433
1978	10 924	na	na	1 380	7 085
1979	11 450	na	na	1 317	6 522
1980	11 730	na	na	1 077	4 928
1981	11 983	na	na	1 323	6 345
1982	12 698	15	1	977	4 344
1983	10 131	80	6	833	4 393
1984	9 608 **a**	35	8	940	5 381
1985	8 570 **b**	76	8	1 022	7 292
1986	10 747 **a**	21	10	996	10 794
1987	10 803 **a**	63	7	859	10 065
1988	10 614 **a**	30	6	1 004	11 480
1988-89	12 915	24	8	1 038	10 656
1989-90	13 283	15	17	na	9 382
1990-91	12 566	65	16	971	10 194
1991-92	na	258	49	1 161	12 412
1992-93	15 895	1 729	165	819	11 859
1993-94	na	18 893	1 145	1 011	17 156
1994-95	na	463	206	1 038	14 618
1995-96	na	133 080	1 889	991	14 777
1996-97	na	178 758	2 241	1 027	12 712
1997-98	na	226 529	2 724	1 576	15 391
1998-99	na	170 795	2 500	1 066	15 881
1999-00	15 853	229 934	4 515	705	10 540
2000-01	14 743	213 469	4 101	665	10 835
2001-02	15 215	241 526	4 683	595	9 995
2002-03	18 333	242 446	5 132	582	9 170
2003-04	17 152	332 931	6 516	547	8 695
2004-05	18 366	331 515	6 568	473	7 218
2005-06	18 381	177 610	4 254	475	7 130
2006-07	19 223	171 945	4 242	567	7 575
2007-08	na	745	734	693	8 182

a Excludes Western Australia. **b** Excludes Queensland and Western Australia. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, Mining Operations, cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; state mines departments and their equivalents; ABARE.

300 Australian production of limestone, by state

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
	kt	kt	kt	kt	kt	kt	kt
1961	2 617	1 263	645	390	1 123	206	6 245
1962	2 471	1 233	706	361	1 422	324	6 518
1963	2 565	1 248	711	356	1 599	351	6 829
1964	2 743	1 415	803	462	1 567	358	7 348
1965	2 850	1 483	818	555	1 587	343	7 637
1966	2 738	1 831	886	571	1 478	350	7 854
1967	2 749	2 024	1 038	710	1 617	351	8 489
1968	2 729	1 849	1 198	745	1 583	504	8 608
1969	2 955	2 058	1 240	996	1 801	559	9 608
1970	3 155	2 022	1 242	1 201	1 853	523	9 996
1971	3 224	2 200	1 470	1 175	1 782	486	10 335
1972	3 403	2 127	1 590	1 301	1 484	581	10 494
1973	3 656	2 248	1 740	1 227	1 719	634	11 224
1974	3 779	2 192	1 758	1 157	1 562	599	11 046
1975	3 295	2 255	1 872	1 378	1 508	545	10 854
1976	3 096	2 068	1 959	1 104	1 720	635	10 583
1977	2 787	2 105	1 952	1 221	1 827	659	10 552
1978	2 903	2 245	1 802	1 365	1 890	718	10 924
1979	3 315	1 653	2 224	1 369	2 136	754	11 450
1980	3 496	2 211	1 951	1 232	1 120	720	11 730
1981	3 620	2 249	1 842	1 382	2 119	771	11 983
1982	3 417	2 303	2 235	1 762	2 061	910	12 698 **a**
1983	2 881	2 143	1 478	1 203	1 826	581	10 131 **b**
1984	3 234	2 507	1 634	na	1 469	763	9 608 **c**
1985	3 222	2 749	na	na	1 798	800	8 570 **d**
1986	3 420	2 776	1 687	na	2 012	852	10 747 **c**
1987	3 429	2 463	2 160	na	1 942	809	10 803 **c**
1988	3 411	2 580	1 880	na	1 918	826	10 614 **c**
1988-89	3 667	2 684	1 987	1 739	1 918	920	12 915
1989-90	3 972	2 639	2 121	1 699	1 889	963	13 283
1990-91	3 318	2 346	2 309	1 738	1 903	951	12 566
1991-92	3 410	na	2 369	2 054	2 014	na	na
1992-93	3 529	4 566	2 432	2 104	2 429	835	15 895
1993-94	na	na	2 485	2 147	2 666	na	na
1994-95	na	na	2 596	2 195	2 456	na	na
1995-96	3 746	na	na	2 612	1 729	na	na
1996-97	3 953	na	2 127	2 353	2 760	na	na
1997-98	3 887	na	1 994	2 280	2 476	na	na
1998-99	4 194	na	2 407	3 046	2 272	na	na
1999-00	4 164	2 127	2 552	3 008	2 580	1 843	15 853
2000-01	4 031	1 776	689	3 835	2 478	1 894	14 743
2001-02	4 077	992	2 776	3 196	2 164	1 934	15 215
2002-03	4 534	1 228	2 791	4 884	2 852	1 961	18 333
2003-04	4 561	1 201	2 830	4 614	1 983	1 924	17 152
2004-05	4 813	1 133	3 101	4 001	3 475	1 764	18 366
2005-06	4 856	1 316	2 954	4 009	3 124	2 034	18 381
2006-07	4 489	1 565	3 954	3 792	3 411	1 918	19 223

a Includes 10 000 tonnes for the Northern Territory. **b** Includes 18 000 tonnes for the Northern Territory. **c** Excludes Western Australia. **d** Excludes Queensland and Western Australia. **na** Not available.

Sources: ABS, *Mineral Production, Australia*, cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry*, cat. no. 8414.0, Canberra; ABS, Mining Operations, cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; state mines departments and their equivalents; ABARE.

301 Australian imports of limestone and lime

	Limestone				Lime	
			Total			
	Japan	Other	Volume	Value	Volume	Value
	kt	kt	kt	$'000	t	$'000
1970	511	0	511	708	na	na
1971	713	0	713	1 018	na	na
1972	605	0	605	1 001	na	na
1973	1 130	0	1 130	1 890	na	na
1974	1 432	0	1 432	2 572	na	na
1975	1 449	41	1 490	3 775	na	na
1976	1 526	0	1 527	4 475	na	na
1977	1 099	0	1 100	4 433	na	na
1978	1 332	48	1 380	7 085	na	na
1979	1 269	48	1 317	6 522	na	na
1980	978	99	1 077	4 928	na	na
1981	1 275	48	1 323	6 345	3 445	355
1982	946	31	977	4 344	8 158	1 050
1983	833	0	833	4 393	1 999	273
1984	940	0	940	5 381	28 026	2 145
1985	1 022	0	1 022	7 292	16 927	1 556
1986	996	0	996	10 794	230	103
1987	859	0	859	10 065	511	322
1988	1 004	0	1 004	11 480	470	211
1988-89	1 038	0	1 038	10 656	467	275
1989-90	na	na	na	9 382	478	372
1990-91	969	3	971	10 194	189	105
1991-92	1 120	41	1 161	12 412	369	114
1992-93	777	42	819	11 859	449	182
1993-94	948	63	1 011	17 156	334	125
1994-95	916	122	1 038	14 618	1 659	374
1995-96	986	5	991	14 777	342	103
1996-97	1 010	17	1 027	12 712	3 444	431
1997-98	1 498	78	1 576	15 391	309	82
1998-99	943	123	1 066	15 881	426	102
1999-00	680	25	705	10 540	289	74
2000-01	615	50	665	10 835	2 786	397
2001-02	553	42	595	9 995	2 848	435
2002-03	525	56	582	9 170	307	106
2003-04	473	75	547	8 695	556	87
2004-05	415	58	473	7 218	1 176	191
2005-06	420	55	475	7 130	618	204
2006-07	503	64	567	7 575	2 605	291
2007-08	648	45	693	8 182	1 108	177

na Not available.

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; BMR, *Australian Mineral Industry Annual Review*, AGPS, Canberra.

302 Summary of Australian statistics for manganese

	Mine production (ore)	Exports		Prices b
		Ore	Ferromanganese a	
	kt	kt	kt	US$/mtu
1961	89	53	0	79
1962	73	64	0	76
1963	37	17	0	68
1964	62	54	0	70
1965	102	67	0	78
1966	318	144	0	80
1967	558	320	0	73
1968	744	565	0	64
1969	903	664	0	53
1970	751	631	0	53
1971	1 051	794	0	64
1972	1 165	na	0	62
1973	1 522	1 513	na	76
1974	1 522	1 203	1	116
1975	1 555	1 132	na	139
1976	2 154	1 711	1	142
1977	1 389	811	13	148
1978	1 257	936	19	141
1979	1 724	1 157	32	135
1980	2 020	1 328	23	164
1981	1 449	900	16	172
1982	1 127	906	17	164
1983	1 370	1 004	29	137
1984	1 849	1 460	19	137
1985	2 003	1 403	20	139
1986	1 649	1 145	44	138
1987	1 854	1 306	47	128
1988	1 986	1 553	41	165
1989	2 119	1 620	27	285
1990	1 950	1 600	43	396
1991	1 390	1 075	20	400
1992	1 239	902	46	377
1993	1 887	1 720	59	267
1994	1 985	1 590	76	212
1995	1 905	1 630	73	204
1996	2 109	1 740	59	212
1997	2 136	1 541	41	206
1998	1 501	1 067	57	204
1999	1 899	1 213	na	191
2000	1 658	1 411	na	186
2001	1 961	1 591	na	199
2002	2 189	1 836	na	199
2003	2 564	2 308	na	199
2004	3 431	1 518	na	199
2005	3 830	2 929	na	327
2006	4 567	4 207	na	260
2007	5 290	4 840	na	357

a Data became confidential in 1999. **b** Annual average of free market prices; Manganese ore: 48-50 % Mn. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; UNCTAD Commodity Price Bulletin.

303 Australian supply and disposal of manganese

		2000	2001	2002	2003	2004	2005	2006	2007
Production									
Manganese ore	kt	1 658	1 961	2 189	2 564	3 431	3 830	4 567	5 290
Exports									
Manganese ore **s**	kt	1 411	1 591	1 836	2 308	1 518	2 929	4 207	4 840
Imports									
Ferromanganese	kt	4.7	5.8	6.0	6.9	9.8	7.3	8.4	9.0
	$m	4.7	6.3	5.4	5.8	12.5	11.4	9.8	10.1
Ferrosilicon and silicomanganese	kt	29.1	28.1	30.7	31.7	33.5	37.3	34.7	41.0
	$m	30.8	33.2	34.5	31.6	35.3	42.2	43.2	49.8
Prices									
Japanese negotiated **a**	US$/mtu	1.90	2.03	2.11	1.97	2.12	2.45	3.98	3.00

a High grade ore (48 per cent Mn) to Japan for Japanese fiscal year commencing 1 April. **s** ABARE estimate.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

304 World production of manganese ore, by country

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	1 658	1 961	2 189	2 564	3 431	3 830	4 567	5 290
Brazil	1 925	1 970	2 529	2 544	3 143	3 200	3 128	3 200
China	5 300	5 300	5 300	5 300	5 300	5 300	5 300	5 300
Gabon	1 743	1 791	1 856	2 000	2 460	2 859	3 000	3 300
Georgia	63	98	103	174	219	220	225	250
Ghana	896	1 077	1 136	1 509	1 594	1 715	1 659	1 050
India	1 604	1 483	1 625	2 018	2 149	2 163	1 910	2 325
Kazakhstan	1 202	1 385	1 835	2 361	2 318	2 208	2 200	2 200
Mexico	411	259	172	294	357	350	336	410
South Africa	3 635	3 271	3 082	3 799	4 207	4 612	5 213	5 341
Ukraine	2 741	2 740	2 762	2 523	2 278	2 226	2 245	2 390
Others	197	414	691	246	322	373	305	307
Total	21 376	21 750	23 280	25 332	27 777	29 054	30 088	31 361

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; World Bureau of Metal Statistics, *World Metal Statistics Yearbook,* London.

305 Summary of Australian statistics for nickel

	Production a							
		Smelter and refinery b						
	Mine	Intermediate products c	Refined nickel class 2 d	Refined nickel class 1 e	Exports volume fs	Exports value s	Imports	Price g
	kt	kt	kt	kt	kt	$m	$m	A$/t
1970	29.8	0.0	0.0	9.0	na	na	23.3	2 551.3
1971	35.5	0.0	0.0	15.0	na	na	11.9	2 576.9
1972	35.5	0.0	0.0	16.5	na	na	8.3	2 583.7
1973	40.1	5.8	0.0	19.8	na	na	13.3	2 370.3
1974	45.9	14.6	0.0	20.5	na	96.0	12.8	2 653.7
1975	75.8	32.2	10.3	22.6	na	172.6	12.1	3 489.6
1976	82.5	32.0	18.0	21.8	na	260.9	18.5	4 059.6
1977	85.9	33.2	17.4	16.7	na	252.5	21.0	4 691.2
1978	82.4	32.7	18.7	18.6	na	222.1	25.1	4 026.4
1979	69.7	38.7	17.4	21.9	na	327.2	21.6	5 354.2
1980	74.3	32.5	17.9	17.4	na	427.0	30.4	5 728.3
1981	74.3	32.9	19.3	23.2	na	388.1	21.4	5 197.7
1982	87.6	49.4	20.6	25.3	na	393.7	19.7	4 771.7
1983	76.6	49.8	12.3	29.5	na	321.6	7.2	5 205.2
1984	76.9	51.1	13.1	25.6	na	386.0	15.2	5 420.7
1985	85.8	51.6	17.9	23.0	na	498.6	17.5	7 020.7
1986	76.7	49.1	20.4	21.6	na	440.3	22.3	5 813.7
1987	74.6	47.8	19.9	24.6	na	390.0	24.1	6 973.9
1988	58.0	40.0	21.1	20.3	62.1	633.5	13.7	18 164.3
1989	63.1	41.6	21.9	18.3	65.0	851.7	20.2	16 886.4
1990	67.8	49.2	22.3	25.2	73.7	666.5	30.2	11 422.9
1991	67.6	54.8	24.9	27.8	82.7	682.5	37.6	10 511.2
1992	57.9	47.8	25.9	29.5	75.4	768.7	48.5	9 938.3
1993	106.3	43.9	26.0	35.4	95.3	574.3	49.4	7 866.8
1994	193.2	68.4	23.0	43.5	111.4	765.0	57.3	8 706.9
1995	192.1	75.9	18.6	58.3	122.9	1 188.6	71.8	11 154.4
1996	183.2	76.8	12.6	61.4	132.0	1 081.0	70.0	9 628.5
1997	185.3	85.8	14.8	58.9	144.4	1 094.4	66.0	9 340.4
1998	192.1	100.1	15.3	64.3	171.6	985.7	66.0	7 379.5
1999	183.4	79.7	10.2	73.4	149.9	1 117.9	60.4	9 327.4
2000	169.2	100.9	10.2	98.7	198.6	2 366.8	80.8	14 845.2
2001	195.5	35.0	8.5	115.5	206.6	2 076.2	88.1	11 470.6
2002	188.2	32.5	9.5	120.8	209.7	2 199.4	89.8	12 458.9
2003	191.2	46.5	11.8	115.8	214.3	2 686.7	92.1	14 784.6
2004	186.8	42.9	10.2	112.4	143.1	2 673.2	104.5	18 818.9
2005	188.9	55.5	9.7	112.6	173.9	2 984.8	112.2	19 368.7
2006	185.0	48.0	11.4	105.1	161.1	4 242.1	180.2	32 276.0
2007	184.0	52.8	14.2	100.3	159.2	5 767.9	282.9	44 425.7

a Total metallic content of minerals produced. **b** Includes imported ores for processing at the Yabulu refinery in Queensland. **c** Includes matte and speiss for further refining. Incomplete series from 2001. **d** Product with a nickel content of less than 99 per cent. Includes ferronickel, oxides and oxide sinter. Excludes nickel–cobalt sulphides. **e** Products with a nickel content of 99 per cent or more. **f** Total metallic content. **g** London Metal Exchange average cash settlement price for refined nickel, melting grade, in Australian dollar equivalent. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* AGPS, Canberra; International Nickel Study Group, *World Nickel Statistics,* Lisbon, Portugal; World Bureau of Metal Statistics, *World Metal Statistics,* London; London Metal Exchange.

306 World production, consumption and prices of nickel

	Production				
	Mine s	Smelter/refinery s	Stocks a	Consumption s	Price b
	kt	kt	kt	kt	US$/t
1961	404	384	na	357	1 711.0
1962	398	395	na	358	1 761.0
1963	393	374	na	384	1 742.0
1964	422	411	na	441	1 742.0
1965	462	440	na	473	1 735.0
1966	443	429	na	512	1 739.0
1967	508	493	na	524	1 936.0
1968	580	524	na	537	2 075.0
1969	547	517	na	549	2 363.0
1970	702	645	na	625	2 846.0
1971	718	655	na	577	2 932.0
1972	662	624	na	618	3 080.0
1973	719	703	na	696	3 373.0
1974	792	765	na	751	3 825.0
1975	794	741	171	627	4 570.0
1976	814	790	179	728	4 973.0
1977	830	767	247	701	5 203.0
1978	684	651	149	755	4 609.0
1979	721	720	87	811	5 986.0
1980	786	788	204	774	6 530.3
1981	765	762	218	718	5 973.3
1982	687	695	202	722	4 848.5
1983	718	745	183	761	4 692.0
1984	815	822	126	852	4 761.5
1985	879	848	131	834	4 910.3
1986	844	821	126	838	3 883.0
1987	889	857	92	909	4 871.3
1988	928	900	85	930	14 191.8
1989	972	918	97	911	13 334.8
1990	983	931	88	926	8 895.0
1991	946	921	113	886	8 158.3
1992	897	886	176	809	7 004.3
1993	908	809	226	785	5 337.5
1994	877	825	236	871	6 342.1
1995	1 007	919	148	984	8 228.8
1996	1 051	953	144	943	7 506.0
1997	1 073	1 012	156	1 016	6 926.4
1998	1 117	1 034	157	1 009	4 631.0
1999	1 058	1 028	124	1 082	6 014.8
2000	1 177	1 082	93	1 123	8 641.9
2001	1 225	1 160	100	1 104	5 947.9
2002	1 248	1 180	97	1 175	6 775.4
2003	1 264	1 192	99	1 219	9 633.4
2004	1 327	1 252	98	1 246	13 830.3
2005	1 386	1 293	112	1 248	14 742.3
2006	1 485	1 352	87	1 392	24 251.8
2007	1 603	1 430	125	1 323	37 225.6

a Commercial stocks excluding those held by the former Soviet Union. **b** London Metal Exchange cash settlement price for refined nickel, melting grade. Prior to 1980, US producer price for electrolytic cathodes. **s** ABARE estimates prior to 1989. **na** Not available.

Sources: International Nickel Study Group, *World Nickel Statistics*, Lisbon, Portugal; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE; London Metal Exchange.

307 World nickel smelter/refinery, by region and country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	50.2	52.9	55.0	54.0	54.8	55.5	56.0	48.8
South Africa b	36.6	33.4	32.7	37.6	41.4	42.4	41.6	34.4
Zimbabwe	13.6	19.5	22.3	16.4	13.3	13.1	14.4	14.4
Americas	252.9	274.1	290.4	281.4	313.2	308.4	324.5	330.7
Brazil	23.2	22.5	23.7	24.6	26.2	30.3	31.2	31.5
Canada	134.2	140.6	144.5	124.4	151.5	139.7	153.7	162.6
Colombia	27.7	38.4	44.0	47.9	48.8	52.8	51.3	49.4
Cuba	40.0	41.2	39.2	40.1	39.6	39.6	42.0	41.5
Dominican Republic	27.8	22.3	23.5	27.2	29.5	28.7	29.7	29.1
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	0.0	9.0	15.5	17.2	17.5	17.4	16.6	16.6
Asia	221.8	213.5	220.3	238.9	249.4	269.8	303.0	379.3
China	50.9	49.5	53.5	64.7	72.6	98.0	136.0	199.3
Indonesia	10.1	10.3	8.9	8.9	7.3	6.4	14.5	18.5
Japan	160.7	153.7	157.9	165.3	169.5	165.5	152.5	161.5
Europe	403.1	445.5	433.7	451.4	468.5	485.6	500.1	515.3
Austria	1.3	1.5	1.0	1.0	1.3	0.6	0.7	0.9
Finland	54.3	54.6	55.3	51.0	49.6	40.8	47.3	55.0
France	12.3	13.0	11.4	11.1	9.6	12.7	13.3	13.2
Greece	17.5	17.7	19.2	18.0	18.1	19.2	17.7	18.7
Macedonia c	0.0	3.0	5.2	5.5	5.1	7.8	10.9	15.0
Norway	58.7	68.2	68.5	77.2	71.4	84.9	80.9	87.6
United Kingdom	38.0	33.8	33.8	24.2	38.6	37.1	38.0	34.1
Serbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Russian Federation	221.0	252.2	239.3	263.4	262.8	270.0	273.3	272.0
Ukraine	0.0	1.5	0.0	0.0	12.0	12.5	18.0	18.0
Oceania	152.8	170.0	179.0	178.3	165.6	169.0	165.1	159.5
Australia	108.8	124.1	130.4	127.6	122.6	122.3	116.5	114.5
New Caledonia (Fr)	43.9	45.9	48.7	50.7	43.0	46.7	48.6	45.0
World total	1 082.4	1 160.0	1 180.1	1 192.2	1 252.1	1 293.2	1 351.8	1 430.3

a Includes the metal content of smelter/refinery production of electrolytic nickel, nickel pellets, briquettes, steel making powder, nickel salts, chemical grade nickel oxide, ferronickel, nickel oxide sinter and utility nickel. **b** Includes Bophuthatswana production. **c** Former Yugoslavian Republic of Macedonia.
Sources: International Nickel Study Group, *World Nickel Statistics*, Lisbon, Portugal; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

308 World nickel mine production, by region and country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	69.3	67.7	73.2	80.9	73.5	76.7	79.1	71.5
Botswana	24.4	23.9	26.7	31.0	25.2	27.7	30.0	27.6
South Africa b	36.6	36.4	38.8	42.1	40.5	42.4	41.6	37.9
Zimbabwe	8.3	7.4	7.8	7.8	7.8	6.6	7.5	6.0
Americas	386.9	391.5	398.8	393.7	424.8	446.8	494.5	517.8
Brazil c	35.6	34.2	36.8	37.8	37.8	36.0	42.6	38.4
Canada	190.7	194.1	189.3	162.8	186.5	198.4	233.5	254.8
Colombia	58.9	53.0	58.5	70.8	75.1	89.0	94.1	100.5
Cuba	71.4	76.5	75.2	78.0	78.0	77.4	78.0	78.4
Dominican Republic c	27.8	22.3	23.5	27.2	30.0	29.0	29.7	29.1
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	2.5	11.4	15.5	17.0	17.5	17.0	16.6	16.6
Asia	173.1	176.7	200.3	226.4	222.7	233.1	278.8	350.6
China	51.0	51.5	54.6	60.6	63.0	59.8	68.9	67.5
Indonesia	98.2	102.1	121.6	143.9	142.7	150.0	150.0	188.4
Kazakhstan	3.6	0.0	0.0	0.0	0.0	1.2	1.0	1.2
Philippines	20.2	23.1	24.1	22.0	17.0	22.2	58.9	93.5
Europe	260.2	265.8	267.5	270.7	300.8	328.9	344.8	354.3
Finland	3.3	2.7	2.5	3.4	3.4	3.4	3.0	3.6
Greece c	19.5	20.8	22.7	21.4	21.7	23.2	21.7	21.2
Macedonia d	0.0	3.0	5.2	5.5	5.3	7.8	10.9	15.0
Norway	2.3	2.8	2.1	0.3	0.4	0.3	0.4	0.0
Russian Federation	235.0	235.0	235.0	240.0	264.0	280.0	286.0	288.0
Serbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Ukraine	0.0	1.5	0.0	0.0	6.0	6.0	12.0	12.0
Oceania	286.8	313.1	288.1	303.2	305.0	300.8	288.0	309.2
Australia	169.2	195.5	188.2	191.2	186.8	188.9	185.0	184.0
New Caledonia (Fr)	117.6	117.6	99.9	112.0	118.3	112.0	103.0	125.2
World total	1 177.3	1 224.5	1 248.2	1 263.8	1 326.8	1 385.6	1 485.0	1 603.4

a Nickel content of all ores and concentrates. **b** Includes Bophuthatswana production. **c** Figures refer to nickel content of ferronickel. **d** Former Yugoslavian Republic of Macedonia.

Sources: International Nickel Study Group, *World Nickel Statistics*, Lisbon, Portugal; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

309 World primary refined nickel consumption, by region and country [a]

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	32.2	31.2	35.9	45.5	45.5	32.0	42.0	33.6
South Africa	31.0	30.0	34.7	44.0	44.0	30.5	40.5	31.5
Other	1.2	1.2	1.2	1.5	1.5	1.5	1.5	2.1
Americas	193.3	170.7	159.7	159.0	164.6	173.7	182.7	171.4
Brazil	21.7	21.1	23.6	25.3	23.3	23.5	24.6	23.0
Canada	15.0	14.8	10.5	10.0	8.0	8.7	7.8	7.6
Mexico	2.2	2.0	1.6	2.0	2.2	2.5	2.7	3.2
United States	150.0	129.1	120.6	117.6	128.6	136.1	144.8	134.6
Other	4.1	3.2	2.9	4.1	2.5	2.9	2.8	3.0
Asia	463.9	441.5	501.2	550.4	579.6	592.1	677.7	690.9
China	62.0	83.0	93.6	125.0	150.0	190.0	255.0	330.0
Chinese Taipei	90.0	81.0	91.0	90.9	85.0	76.0	88.0	69.5
Hong Kong, China	1.3	4.5	4.7	5.5	5.8	5.0	5.0	4.8
India	22.5	25.0	25.5	26.0	27.4	30.0	33.0	33.0
Japan	200.1	161.5	191.2	192.8	192.5	172.8	183.2	169.0
Korea, Rep. of	78.0	75.4	83.2	98.0	103.2	99.0	93.0	62.5
Thailand	2.0	2.2	2.2	2.0	2.4	2.6	2.6	2.8
Turkey	2.2	1.9	1.8	2.0	2.4	3.3	3.2	3.0
Other	5.8	7.0	8.0	8.2	10.9	13.4	14.7	16.3
Europe	432.0	458.3	476.0	461.0	454.3	447.2	485.8	414.3
Austria	4.2	5.6	4.8	5.0	5.5	6.5	7.0	8.1
Belgium–Luxembourg	28.5	28.2	32.5	39.0	40.7	46.0	54.0	41.1
Czech Republic	2.3	2.4	2.0	2.0	2.3	1.8	2.0	3.0
Finland	43.3	38.6	40.6	52.0	53.0	50.0	55.0	36.0
France	49.8	51.0	55.3	43.6	34.0	30.5	32.7	28.9
Germany	103.5	110.2	106.6	99.7	99.6	96.1	105.5	96.5
Italy	52.6	57.0	66.0	64.9	61.9	60.0	68.0	53.8
Norway	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Poland	2.3	2.4	2.4	2.0	1.9	1.8	2.1	2.3
Russian Federation	21.0	28.0	27.0	25.6	26.0	26.0	24.7	26.0
Spain	37.8	43.8	47.0	47.0	45.0	45.0	51.0	44.0
Sweden	36.8	36.6	37.9	34.8	36.0	34.5	38.0	36.5
Switzerland	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.8
Ukraine	4.5	4.8	4.8	4.5	4.1	4.7	5.5	5.4
United Kingdom	32.4	37.5	34.4	28.6	33.3	32.8	30.0	30.2
Other	10.9	10.0	12.5	10.2	8.5	9.1	7.9	1.3
Oceania	2.0	2.0	2.0	2.7	2.0	2.8	2.9	2.9
Australia	1.6	1.6	1.6	2.3	1.6	2.4	2.5	2.5
New Zealand	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
World total	1 123.5	1 103.7	1 174.8	1 218.6	1 245.9	1 248.4	1 392.3	1 322.7

a Metal content. The consumption of primary unwrought nickel including refined nickel and nickel contained in other smelter/refinery products.
Sources: International Nickel Study Group, *World Nickel Statistics*, Lisbon, Portugal; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

310 Summary of Australian statistics for primary petroleum a

	Production of crude oil condensate and LPG	Exports of crude oil and other refinery feedstocks b	Exports of liquefied petroleum gas	Imports of crude oil and other refinery feedstocks	Production of natural gas and ethane c	Exports of liquefied natural gas ds	Imports of natural gas
	ML	ML	ML	ML	Gm^3	Mt	kt
1965-66	504	na	na	19 965	0.00	0	0
1966-67	645	na	na	22 543	0.00	0	0
1967-68	1 902	na	na	23 013	0.01	0	0
1968-69	2 236	na	na	23 897	0.06	0	0
1969-70	4 919	na	na	23 176	0.78	0	0
1970-71	15 688	241	661	13 913	1.96	0	0
1971-72	20 266	1 090	1 193	11 174	2.63	0	0
1972-73	22 464	330	1 672	10 004	3.74	0	0
1973-74	25 223	305	1 984	10 469	4.45	0	0
1974-75	25 306	234	2 000	10 171	4.88	0	0
1975-76	26 059	243	1 950	9 702	5.45	0	0
1976-77	27 128	206	2 253	10 116	6.50	0	0
1977-78	28 287	221	2 855	11 214	7.18	0	0
1978-79	28 067	371	3 031	10 407	8.01	0	0
1979-80	26 823	127	2 764	11 263	9.24	0	0
1980-81	26 077	86	2 569	11 450	10.66	0	0
1981-82	25 419	44	2 622	12 460	11.80	0	0
1982-83	24 978	61	2 334	11 780	11.92	0	0
1983-84	29 960	1 056	2 851	8 553	12.49	0	0
1984-85	34 820	5 819	2 620	7 294	13.37	0	0
1985-86	35 750	5 051	2 977	6 186	14.69	0	0
1986-87	35 431	5 702	2 675	7 724	15.08	0	0
1987-88	35 187	6 453	2 402	9 577	15.68	0	0
1988-89	32 080	4 789	2 177	12 058	16.15	0	0
1989-90	36 003	7 202	1 983	11 603	20.27	2.01	0
1990-91	35 755	8 830	1 507	13 389	21.23	3.40	0
1991-92	35 171	8 967	1 568	15 332	23.49	4.66	0
1992-93	34 776	10 098	1 483	19 421	24.61	4.98	0
1993-94	32 960	9 538	1 290	20 296	26.76	6.03	0
1994-95	35 158	11 445	1 189	20 639	29.47	7.02	0
1995-96	34 365	10 899	1 469	23 703	30.24	7.48	0
1996-97	35 302	12 401	2 421	24 768	30.66	7.49	0
1997-98	38 862	14 785	2 824	25 017	31.92	7.65	0
1998-99	32 265	14 291	2 486	29 729	32.78	7.82	0
1999-00	42 279	20 877	2 857	26 936	34.04	7.92	0
2000-01	44 398	24 044	2 785	26 489	34.82	7.53	0
2001-02	42 467 s	23 936	3 211	27 308	36.20	7.60	0
2002-03	39 704 s	20 950	3 194	27 958	37.22	7.83	0
2003-04	35 352 s	17 526	2 916	23 498	37.41	7.91	0
2004-05	31 939 s	15 731	2 844	26 054	41.68	10.59	0
2005-06	29 037 s	13 026	2 800	24 416	42.63	12.50	953
2006-07	33 105 s	15 965	2 824	25 345	44.09	15.20	4 268
2007-08	29 508 s	15 975	2 589	26 222	44.47	14.75	4 032

a Export volumes for primary petroleum up to June 1977 are direct from ABS overseas trade reports. As a result of changes in ABS classifications from July 1977, other statistics are taken from Department of Resources and Energy and ABARE publications. **b** Before 1983 exports were principally semiprocessed and re-export feedstocks. **c** Includes ethane, methane and noncommercial natural gas. **d** 1 million tonnes (Mt) of LNG is approximately equal to 1.31 billion cubic metres (Gm^3) of gas; production began in 1989-90. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Overseas Trade, Part 1 – Exports and Imports,* cat. no. 5409.0, Canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics),* Canberra.

311 Summary of Australian statistics for refined petroleum products a

	Production	Domestic consumption b	Imports Volume	Imports Value	Exports c Volume	Exports c Value	Bunkers d
	ML	ML	ML	$m	ML	$m	$m
1964-65	18 821	19 268	2 013	na	1 459	na	na
1965-66	20 353	20 953	1 899	na	1 099	na	na
1966-67	23 110	22 734	1 227	na	1 365	na	na
1967-68	25 229	24 837	1 123	na	1 374	na	na
1968-69	26 651	27 423	1 741	na	970	na	na
1969-70	27 884	29 317	2 860	na	1 440	na	na
1970-71	28 846	30 355	3 256	63	1 740	23	43
1971-72	29 524	31 754	3 978	78	2 321	46	44
1972-73	30 575	32 518	4 126	75	1 846	42	42
1973-74	33 853	36 587	4 422	133	2 488	96	70
1974-75	34 066	36 637	4 083	247	1 954	146	136
1975-76	34 106	36 991	4 009	290	2 192	144	137
1976-77	35 744	39 042	4 193	347	1 904	190	190
1977-78	36 992	39 813	4 104	360	1 956	224	na
1978-79	36 671	38 921	4 215	450	2 344	306	na
1979-80	36 654	39 315	4 540	710	1 882	427	na
1980-81	35 292	37 937	3 748	770	1 990	577	na
1981-82	35 877	37 676	2 939	629	1 955	539	na
1982-83	34 692	35 511	2 666	608	2 427	707	438
1983-84	35 586	36 929	2 526	559	2 925	803	394
1984-85	35 924	37 204	2 823	683	2 207	641	460
1985-86	35 171	36 260	2 761	712	2 383	673	437
1986-87	34 826	37 713	4 078	732	2 270	459	338
1987-88	37 579	39 395	3 319	629	2 738	563	406
1988-89	38 210	41 173	3 342	664	2 769	520	371
1989-90	39 424	41 678	3 621	930	2 422	520	416
1990-91	40 487	41 468	1 819	727	2 952	787	631
1991-92	41 440	41 804	2 146	455	3 819	769	522
1992-93	42 933	43 349	3 940	634	3 711	830	568
1993-94	43 104	44 561	3 057	606	3 507	747	512
1994-95	44 421	46 746	3 479	676	3 289	719	511
1995-96	46 343	48 193	3 522	765	4 101	933	586
1996-97	46 872	47 829	4 286	955	5 041	1 147	547
1997-98	47 400	48 395	3 263	766	4 941	1 097	505
1998-99	47 030	48 973	4 129	868	4 236	866	397
1999-00	47 630	50 450	4 632	1 375	4 116	1 202	666
2000-01	47 690	50 010	4 746	1 845	4 564	1 844	899
2001-02	46 677	51 260	4 655	1 625	3 415	1 234	760
2002-03	46 723	51 906	5 497	2 050	3 159	1 198	775
2003-04	43 486	52 906	10 542	3 595	2 488	918	696
2004-05	44 555	54 017	11 188	5 123	1 864	844	951
2005-06	40 679	55 151	14 171	8 609	2 102	1 195	1 322
2006-07	43 652	na	14 018	7 784	1 762	1 098	1 295
2007-08	44 086	na	17 982	12 735	1 807	1 321	1 457

a Export and import values up to June 1977 are direct from ABS overseas trade reports. As a result of changes in ABS classifications from July 1977, other statistics are taken from Department of Industry, Tourism and Resources and ABARE publications, with ABARE estimates of import values used from 1977-78 to 1980-81. **b** Includes fuels not marketed commercially and domestic sales of all ships and aircraft stores. **c** Excludes LPG. **d** Ships' and aircraft stores. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Overseas Trade, Part 1 – Exports and Imports,* cat. no. 5409.0, Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics*).

312 Australian production of primary petroleum

	Crude oil	Condensate b	Crude oil and condensate	Liquefied petroleum gas	Natural gas c	Ethane
	ML a	ML	ML	ML	Gm^3	Gm^3
1968-69	2 236	na	2 236	na	0.06	0.00
1969-70	4 882	na	4 882	37	0.78	0.00
1970-71	14 936	na	14 936	752	1.96	0.00
1971-72	19 038	na	19 038	1 228	2.63	0.00
1972-73	20 668	na	20 668	1 796	3.71	0.03
1973-74	23 193	na	23 193	2 030	4.40	0.05
1974-75	23 134	na	23 134	2 172	4.82	0.06
1975-76	23 827	na	23 827	2 232	5.38	0.07
1976-77	24 598	na	24 598	2 530	6.40	0.10
1977-78	25 369	na	25 369	2 918	7.05	0.13
1978-79	24 896	na	24 896	3 171	7.86	0.14
1979-80	23 711	na	23 711	3 112	9.09	0.15
1980-81	23 093	na	23 093	2 984	10.52	0.14
1981-82	22 386	na	22 386	3 033	11.65	0.15
1982-83	21 085	984	22 069	2 909	11.75	0.17
1983-84	25 732	1 096	26 828	3 132	12.31	0.18
1984-85	29 241	1 715	30 956	3 864	13.17	0.20
1985-86	29 782	1 952	31 734	4 016	14.50	0.20
1986-87	29 457	2 047	31 504	3 927	14.90	0.18
1987-88	28 551	2 713	31 264	3 923	15.48	0.20
1988-89	25 574	2 681	28 255	3 825	15.96	0.19
1989-90	28 744	3 250	31 994	4 009	20.08	0.19
1990-91	28 661	3 294	31 955	3 800	21.05	0.18
1991-92	27 780	3 529	31 309	3 862	23.30	0.19
1992-93	27 037	3 666	30 703	4 073	24.42	0.19
1993-94	25 216	3 730	28 945	4 015	26.57	0.19
1994-95	26 795	4 395	31 190	3 969	29.26	0.20
1995-96	24 058	6 193	30 251	4 113	30.04	0.20
1996-97	24 164	6 885	31 049	4 253	30.23	0.43
1997-98	25 779	8 183	33 961	4 901	31.35	0.57
1998-99	19 937	7 960	27 897	4 368	32.22	0.56
1999-00	29 594	7 861	37 447	4 832	33.43	0.61
2000-01	32 671	7 169	39 839	4 558	34.34	0.48
2001-02	29 945 s	7 875 s	37 820 s	4 647	35.80	0.41
2002-03	26 492 s	8 532 s	35 023 s	4 681	36.81	0.41
2003-04	23 198 s	7 515 s	30 713 s	4 639	37.03	0.38
2004-05	20 259 s	7 052 s	27 311 s	4 628	41.27	0.41
2005-06	17 246 s	7 069 s	24 315 s	4 722	42.18	0.46
2006-07	21 151 s	7 404 s	28 555 s	4 550	43.62	0.47
2007-08	na	na	25 537 s	3 971	43.97	0.50

a 58 030 million litres equals 1 million barrels a day. **b** Before 1982-83, condensate production is included in crude oil. **c** Includes noncommercial natural gas and methane from other than natural gas fields. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; Bureau of Resource Economics, *Australian Energy Projections, Australia: 1961-62 to 1998-99,* AGPS, Canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics),* Canberra.

313 Australian production of refined petroleum products

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	ML	ML	ML	ML	ML	ML	ML	ML	ML
Automotive gasoline	18 652	17 886	17 999	17 984	17 375	17 913	16 528	17 732	17 079
Automotive diesel oil	12 737	13 212	13 064	13 335	12 544	12 822	10 154	11 055	12 177
Aviation turbine fuel	5 539	5 837	5 390	5 149	4 964	5 325	5 216	5 332	5 182
Fuel oil	1 839	1 951	1 684	1 441	1 105	1 092	1 048	942	979
Liquefied petroleum gas **a**	1 674	1 795	1 718	1 657	1 062	995	1 125	1 387	1 515
Industrial and marine diesel fuel	60	98	105	117	84	22	31	21	3
Bitumen	719	693	725	751	678	1 091	831	1 356	1 452
Lubricants	649	641	564	521	259	202	163	146	121
Aviation gasoline	158	137	147	134	114	144	119	119	119
Heating oil	217	194	192	195	118	106	102	86	102
Other **a**	5 387	5 245	5 088	5 439	5 183	4 844	5 363	5 475	5 356
Total products	47 630	47 690	46 677	46 723	43 486	44 555	40 679	43 652	44 086

a Includes byproducts of petrochemical and downstream processing.

Sources: ABARE, *Australian Energy Projections 1961-62 to 1998-99*, Canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics)*, Canberra.

314 Australian consumption of petroleum

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Crude oil and other refinery feedstock									
Stock	days **a**	24	29	26	26	23	23	23	23
Refinery input	ML	44 708	42 911	44 548	39 949	40 334	36 895	39 465	38 346
Refined products									
Automotive gasoline	ML	18 166	18 669	18 874	19 962	19 876	19 048	19 251	19 234
Automotive diesel oil	ML	12 952	13 441	13 888	14 461	15 185	15 804	17 028	18 245
Aviation turbine fuel	ML	5 318	4 603	4 250	4 329	4 730	5 359	5 837	6 070
Fuel oil	ML	1 705	1 777	1 423	1 466	1 595	1 586	1 513	1 583
Liquefied petroleum gas	ML	3 892	4 178	3 851	3 569	3 386	4 050	4 038	4 024
Industrial and marine diesel fuel	ML	22	46	18	17	15	19	15	11
Bitumen	ML	716	755	671	742	812	805	808	785
Lubricants	ML	545	555	569	618	470	451	421	435
Aviation gasoline	ML	101	97	90	90	91	86	90	88
Heating oil	ML	63	50	48	46	34	25	15	12
Kerosene	ML	29	75	24	22	12	27	32	43
Other	ML	1 072	1 068	1 012	953	939	973	699	258
Total products	ML	44 581	45 313	44 718	46 276	47 145	48 234	49 746	50 788

a Days of forward consumption.

Sources: DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics)*, Canberra.

315 Australian production of primary petroleum, by basin

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	ML	ML	ML	ML	ML	ML	ML	ML
Crude oil								
Adavale	0	0	2	0	0	0	0	0
Amadeus	80	72	59	136	132	53 s	55 s	50
Bonaparte	9 602	5 987	4 806 s	3 037 s	1 868 s	1 403 s	1 470	826
Bowen–Surat	45	39	27	28	24	23	21	16
Canning	6	4	4	3	2	2	2	4
Carnarvon								
Barrow Island	646	580	547	502	448	390	390	2 849
North West Shelf	7 055	9 315	8 842	8 564 s	7 859 s	4 524 s	5 850 s	4 063 s
Other	5 739	4 855	4 284	3 688	3 831	5 854 s	7 044 s	4 710 s
Cooper–Eromanga								
Queensland	499	432	450 s	387	529	432	791 s	901
South Australia	439	490	413	445	401	489	1 116	1 354
Gippsland	8 560	8 164	6 937 s	6 019 s	4 647 s	3 681 s	3 598 s	3 250
Otway	0	0	0	0	0	0	0	17
Perth	1	5	119	387	517	395 s	816 s	668
Total	32 671	29 945	26 492 s	23 198 s	20 259 s	17 247 s	21 153 s	18 707 s
Condensate								
Adavale	0	0	1	0	0	0	0	0
Amadeus	0	0	0	0	0	0	0	0
Bonaparte	0	0	0	46	307	394 s	394 s	33 s
Bowen–Surat	18	13	12	15	23	20	21	19
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	365	366	349	203	120	0	8	0
North West Shelf	5 199	5 869	6 686	5 840 s	5 041 s	5 265 s	5 692 s	5 572 s
Other	118	110	101	142	250	202	134	143
Cooper–Eromanga								
Queensland	151	216	239 s	242 s	270	205	167	163
South Australia	467	378	349	176	221	208	239	193
Gippsland	832	898	769 s	836 s	813 s	770 s	744 s	804
Otway	17	23	23 s	13 s	7 s	3 s	2	11
Perth	2	1	2	1	1	2	3	2
Total	7 169	7 875	8 532 s	7 515 s	7 052 s	7 069 s	7 404 s	6 940 s
Liquefied petroleum gas								
Adavale	0	0	0	0	0	0	0	0
Amadeus	0	0	0	0	0	0	0	0
Bonaparte	0	0	0	0	0	0	0	0
Bowen–Surat	22	18	18	20	24	23	24	24
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	0	0	0	0	0	0	0	0
North West Shelf	1 493	2 028	1 911	1 817	1 963	2 160	2 067	1 500
Other	0	0	0	0	0	0	0	0
Cooper–Eromanga								
Queensland	0	0	0	0	0	0	0	0
South Australia	816	768	783	827	663	597	551	557
Gippsland	1 725	1 799	1 970	1 976	1 977	1 942	1 908	1 883
Otway	0	0	0	0	0	0	0	6
Perth	0	0	0	0	0	0	0	0
Total	4 056	4 612	4 682	4 639	4 628	4 722	4 550	3 971

Continued

315 Australian production of primary petroleum, by basin continued

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	GL	GL	GL	GL	GL	GL	GL	GL
Naturally occurring ethane and natural gas a								
Adavale	19	15	9	8	10	12	12	12
Amadeus	459	471	452	424	479	494	532	541
Bonaparte	0	0	0	0	0	0	0	0
Bowen–Surat	614	518	641	613	696	641	555	417
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	929	452	1 116	1 023	545	1 172	1 937	1 804
North West Shelf	16 042	16 561	17 753	17 827	21 437	22 947	23 803	24 460
Other	1 384	1 359	1 113	1 533	2 364	1 430	1 145	956
Cooper–Eromanga								
Queensland	0	0	0	19	0	0	0	0
South Australia	5 764	6 308	5 753	4 288	4 149	4 004	3 791	3 227
Gippsland	6 304	6 355	6 432	7 487	7 477	7 274	7 606	8 005
Otway	203	316	100	260	281	161	77	36
Perth	286	188	197	178	236	338	313	279
Total	32 004	32 543	33 568	33 659	37 674	38 473	39 771	39 737

a Does not include methane or ethane produced from other than natural gas fields or non commercial production. **s** ABARE estimate.
Sources: DRET, *Australian Petroleum Statistics* Canberra; APPEA; Energy Quest.

316 Volume of Australian trade in petroleum

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Exports									
Automotive gasoline	ML	1 288	1 186	1 058	774	774	714	771	628
Diesel fuel	ML	1 276	948	1 052	872	367	419	288	462
Aviation turbine fuel	ML	755	549	645	528	240	127	120	149
Fuel oil	ML	724	293	95	81	201	490	209	257
Aviation gasoline	ML	28	71	52	36	38	85	81	96
Kerosene	ML	10	2	0	0	0	0	0	0
Lubricants	ML	278	163	163	122	156	179	231	178
Other	ML	203	203	94	74	88	89	62	35
Total refined products	ML	4 564	3 415	3 159	2 488	1 864	2 102	1 762	1 807
Liquefied petroleum gas **a**	ML	2 785	3 211	3 194	2 916	2 844	2 800	2 824	2 589
Bunkers **b**	ML	2 291	2 267	2 238	2 216	2 207	2 163	2 156	2 169
Crude oil and other refinery feedstock	ML	24 044	23 936	20 950	17 526	15 731	13 026	15 965	15 975
Liquefied natural gas **cs**	MT	7.530	7.600	7.826	7.914	10.589	12.495	15.200	14.750
Imports									
Automotive gasoline	ML	1 189	1 436	1 673	3 242	3 131	3 687	2 912	3 533
Diesel fuel	ML	1 129	1 280	1 627	3 374	3 944	6 122	5 439	7 470
Aviation turbine fuel	ML	387	225	429	681	983	817	1 045	1 846
Fuel oil	ML	814	557	611	1 285	1 281	1 418	1 363	1 625
Lubricants	ML	33	57	216	195	327	370	365	396
Liquefied petroleum gas	ML	633	588	299	785	540	599	748	965
Other	ML	561	511	642	979	981	1 158	2 146	2 147
Total refined products	ML	4 746	4 655	5 497	10 542	11 188	14 171	14 018	17 982
Crude oil and other refinery feedstock	ML	26 489	27 308	27 958	23 498	26 054	24 416	25 345	26 222
Natural gas	kt	0	0	0	0	0	953	4 268	4 032

a Mostly naturally occurring. **b** Ship and aircraft stores. **c** 1 tonne of LNG is approximately equal to 2174 litres of LNG. **s** ABARE estimate.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics),* Canberra.

317 Value of Australian trade in petroleum

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
	$m	$m	$m	$m	$m	$m	$m	$m
Exports								
Automotive gasoline	500	389	367	280	339	419	468	443
Diesel fuel	498	308	366	292	166	238	188	363
Aviation turbine fuel	301	184	228	172	108	80	74	120
Fuel oil	183	70	29	21	51	215	84	130
Aviation gasoline	17	33	29	20	26	54	69	73
Kerosene	5	1	0	0	0	0	0	0
Lubricants	238	164	141	100	112	139	157	152
Other products	103	85	39	33	41	52	57	41
Total refined products	1 844	1 234	1 198	918	844	1 195	1 098	1 321
Liquefied petroleum gas	830	721	855	647	804	1 002	1 038	1 182
Bunkers [a]	899	760	775	696	951	1 322	1 295	1 457
Crude oil and other refinery feedstock	8 137	6 390	6 402	5 055	6 330	6 638	8 317	10 487
Liquefied natural gas	2 671	2 613	2 607	2 174	3 199	4 416	5 222	5 854
Imports								
Automotive gasoline	432	448	569	1 168	1 463	2 342	1 872	2 719
Diesel fuel	438	414	561	1 134	1 933	4 071	3 466	6 160
Aviation turbine fuel	154	68	146	220	483	527	668	1 505
Fuel oil	222	143	180	313	364	569	536	831
Lubricants	60	126	190	206	288	418	495	477
Liquefied petroleum gas	160	116	76	166	143	198	261	436
Other products	380	310	328	388	448	637	1 285	1 331
Total refined products	1 845	1 625	2 050	3 595	5 123	8 609	7 784	12 735
Crude oil and other refinery feedstock	8 753	7 458	8 610	6 594	9 995	12 820	13 360	17 059
Natural gas	0	0	0	0	0	152	800	724

a Ships and aircraft stores.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, canberra; DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics),* Canberra.

318 Australian exports of petroleum, by destination a

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity									
Crude oil and other refinery feedstock									
China	ML	912	1 160	1 699	2 389	732	404	518	972
Chinese Taipei	ML	3 712	1 920	580	125	916	346	446	343
Japan	ML	4 068	3 168	3 402	2 079	1 927	2 201	1 957	2 280
Korea, Rep. of	ML	4 358	5 521	4 012	3 778	2 787	2 725	3 873	3 701
New Zealand	ML	613	1 426	784	722	1 425	465	1 045	600
Singapore	ML	6 079	6 215	6 567	3 948	2 861	3 110	3 752	3 089
United States	ML	2 962	2 674	2 944	1 808	1 154	297	190	1 157
Other	ML	1 339	1 851	962	2 677	3 929	3 478	4 183	3 833
Total	ML	24 044	23 936	20 950	17 526	15 731	13 026	15 965	15 975
Liquefied petroleum gas									
China	ML	416	441	154	696	598	393	308	465
Japan	ML	2 241	2 575	2 783	2 109	2 081	2 142	1 821	1 587
Korea, Rep. of	ML	61	127	234	0	81	0	384	178
Other	ML	67	68	23	111	84	264	311	359
Total b	ML	2 785	3 211	3 194	2 916	2 844	2 800	2 824	2 589
Refined products									
Fiji	ML	748	473	384	122	7	62	4	3
Japan	ML	18	71	26	29	53	74	84	71
New Zealand	ML	1 086	1 247	1 250	828	1 113	716	872	837
Singapore	ML	697	367	246	127	471	771	576	505
Other Pacific	ML	1 564	921	861	776	156	274	131	275
United States	ML	328	153	99	123	0	37	6	3
Other	ML	123	184	292	482	63	168	90	113
Total	ML	4 564	3 415	3 159	2 488	1 864	2 102	1 762	1 807
Value c									
Crude oil and other refinery feedstock									
China	$m	317	316	528	671	309	219	266	654
Chinese Taipei	$m	1 284	508	179	33	372	172	237	223
Japan	$m	1 394	854	1 058	582	782	1 111	1 033	1 474
Korea, Rep. of	$m	1 486	1 490	1 217	1 057	1 091	1 366	1 968	2 398
New Zealand	$m	213	406	256	238	602	256	583	421
Singapore	$m	1 973	1 597	1 956	1 118	1 080	1 481	1 864	1 972
United States	$m	1 012	693	883	527	473	149	100	843
Other	$m	458	525	324	828	1 620	1 884	2 266	2 503
Total	$m	8 137	6 390	6 402	5 055	6 330	6 638	8 317	10 487
Liquefied petroleum gas									
China	$m	125	96	36	159	169	129	107	204
Japan	$m	667	580	755	466	595	766	668	726
Korea, Rep. of	$m	19	30	59	0	18	0	150	89
Other	$m	19	15	6	22	21	107	113	162
Total b	$m	830	721	855	647	804	1 002	1 038	1 182
Refined products									
Fiji	$m	293	161	140	43	8	43	5	5
Japan	$m	9	25	14	13	22	40	43	41
New Zealand	$m	461	437	460	310	516	463	557	639
Singapore	$m	201	112	95	41	170	375	311	307
Other Pacific	$m	669	367	349	294	103	177	119	237
United States	$m	143	56	39	47	0	20	3	1
Other	$m	67	76	101	170	24	78	60	92
Total	$m	1 844	1 234	1 198	918	844	1 195	1 098	1 321

a Does not include LNG exports or ships and aircraft stores. **b** Includes confidential exports. **c** Actual values are used and aggregated for each category.

Sources: DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics)*, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; ABARE.

319 Australian imports of petroleum, by source

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	3 788	6 795	5 380	4 012	3 328	3 929	3 391	3 239
Malaysia	ML	2 249	2 290	2 299	4 073	4 761	3 976	3 730	4 202
New Zealand	ML	1 104	1 089	990	708	663	638	635	1 974
Other Middle East	ML	453	42	334	42	158	199	118	43
Papua New Guinea	ML	2 772	2 208	1 683	1 189	1 717	2 386	2 059	2 190
Qatar	ML	439	646	191	0	77	0	106	0
Saudi Arabia	ML	4 016	3 004	3 680	1 517	3 101	1 602	1 151	573
Singapore	ML	287	554	719	596	652	829	841	713
United Arab Emirates	ML	3 170	2 305	2 294	2 207	1 917	863	2 971	3 659
Viet Nam	ML	6 282	5 652	6 699	5 778	6 560	6 708	6 677	6 317
Other	ML	1 930	2 724	3 690	3 375	3 122	3 286	3 665	3 311
Total	ML	26 489	27 308	27 958	23 498	26 054	24 416	25 345	26 222
Natural gas a	kt	0	0	0	0	0	953	4 268	4 032
Refined products									
Indonesia	ML	121	80	57	281	162	98	17	11
Korea, Rep. of	ML	144	289	144	280	237	961	821	794
Malaysia	ML	8	27	45	97	93	220	8	316
Middle East	ML	846	474	140	1 036	588	691	642	1 047
New Zealand	ML	20	42	17	3	4	84	96	40
Singapore	ML	1 692	2 110	2 832	5 904	7 395	8 452	7 681	10 257
United States	ML	401	462	407	434	423	456	378	421
Other **b**	ML	1 549	1 171	1 855	3 370	2 334	2 926	3 099	3 961
Total	ML	4 781	4 655	5 497	11 405	11 236	13 887	12 742	16 848
Value									
Crude oil and other refinery feedstock									
Indonesia	$m	1 295	1 846	1 671	1 141	1 335	2 108	1 779	2 168
Malaysia	$m	770	647	735	1 199	1 924	2 180	2 042	2 773
New Zealand	$m	379	309	316	212	275	349	351	1 331
Other Middle East	$m	138	12	101	12	59	103	55	23
Papua New Guinea	$m	974	601	527	347	711	1 283	1 113	1 459
Qatar	$m	141	191	58	0	24	0	46	0
Saudi Arabia	$m	1 201	758	1 074	408	1 114	775	535	322
Singapore	$m	98	149	225	152	202	368	381	396
United Arab Emirates	$m	1 041	674	664	584	659	446	1 551	2 251
Viet Nam	$m	2 115	1 528	2 095	1 584	2 517	3 493	3 566	4 187
Other	$m	601	743	1 145	955	1 173	1 714	1 942	2 149
Total	$m	8 753	7 458	8 610	6 594	9 995	12 820	13 360	17 059
Natural gas a	$m	0	0	0	0	0	152	800	724
Refined products									
Indonesia	$m	41	23	17	92	75	59	6	6
Korea, Rep. of	$m	67	101	56	108	126	642	543	649
Malaysia	$m	4	11	18	36	49	134	10	271
Middle East	$m	243	94	39	260	165	260	224	496
New Zealand	$m	9	12	6	3	4	37	47	26
Singapore	$m	660	684	1 000	2 061	3 532	5 534	4 957	8 183
United States	$m	287	321	277	236	250	299	285	339
Other **b**	$m	534	379	637	799	922	1 796	2 510	3 490
Total	$m	1 845	1 625	2 050	3 595	5 123	8 761	8 583	13 459

a International waters. **b** Includes confidential imports of refined products.

Sources: DRET, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; ABARE.

320 World crude oil supply, demand and prices a

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Supply									
OPEC b	mbd	30.7	30.2	28.6	30.7	32.8	34.2	34.4	35.5
Non-OPEC									
Asia Pacific	mbd	3.2	3.2	3.1	3.3	3.3	3.3	3.3	3.3
China	mbd	3.2	3.3	3.4	3.4	3.5	3.6	3.7	3.7
Europe	mbd	8.4	8.4	8.5	8.3	8.3	7.9	7.7	7.8
Mexico	mbd	3.5	3.6	3.6	3.8	3.8	3.8	3.7	3.5
Middle East Africa	mbd	4.8	4.9	5.1	5.0	5.3	5.6	5.7	4.2
North America	mbd	10.8	10.9	11.0	10.8	10.8	10.4	10.6	10.8
Russian Federation	mbd	6.5	7.0	7.7	8.5	9.2	9.5	9.7	10.1
South America	mbd	3.8	3.8	3.9	4.0	4.1	4.3	4.4	4.3
Total c	mbd	76.7	76.9	76.6	79.7	83.0	84.5	85.2	85.6
Demand									
Africa	mbd	2.4	2.5	2.7	2.7	2.8	2.9	2.9	3.1
China	mbd	4.8	4.7	5.0	5.6	6.4	6.7	7.2	7.5
Japan and Korea, Rep. of	mbd	7.6	7.5	7.6	7.8	7.5	7.5	7.4	7.2
Latin America	mbd	6.9	6.9	6.8	6.6	7.0	7.2	7.3	7.7
Middle East	mbd	4.7	4.9	5.4	5.4	5.8	6.0	6.3	6.5
North America	mbd	22.1	21.9	22.2	22.6	23.4	23.4	22.9	23.4
Russian Federation	mbd	2.4	2.5	2.5	2.5	2.6	2.6	2.7	2.9
Western Europe 4 d	mbd	8.4	8.4	8.3	8.3	8.3	8.2	8.2	7.9
Other Asia Pacific	mbd	8.3	8.4	8.9	9.1	9.7	9.9	10.1	10.4
Other Europe	mbd	8.6	9.1	8.7	8.7	8.9	9.2	9.4	9.5
Total	mbd	76.2	76.8	78.0	79.3	82.4	83.5	84.3	86.1
OECD stocks e	days	52	54	50	50	51	52	54	53
Prices									
West Texas Intermediate	US$/bbl	30.28	26.12	26.14	31.08	41.51	56.67	66.05	72.35
Brent	US$/bbl	29.17	24.64	24.95	28.88	38.30	54.58	65.16	72.41
Dubai	US$/bbl	26.44	22.92	23.75	26.81	34.16	50.08	61.89	68.31
World trade weighted average	US$/bbl	27.50	23.14	23.67	27.25	34.41	49.57	60.21	68.31

a Includes crude oil, marine bunkers, refinery fuel, nonconventional oil and natural gas liquids. **b** Includes natural gas liquids produced by OPEC (around 4.5 million barrels a day). **c** Includes around 1.8 million barrels a day net gain in the processing of primary fuels other than crude oil. **d** France, Germany, Italy and United Kingdom. **e** Industry stocks measured in days of forward consumption at 31 December.

Sources: BP Statistical Review of World Energy; International Energy Agency, *Monthly Oil Market Report,* OECD, Paris; Energy Information Administration, US Department of Energy, Washington DC.

321 Prices for crude oil, by origin a

	World trade weighted b	Dubai c	Brent d	WTI e	Gippsland f	Tapis g
	US$/bbl	US$/bbl	US$/bbl	US$/bbl	US$/bbl	US$/bbl
1990 quarter						
March	18.14	16.63	19.80	21.77	na	na
June	14.43	14.02	15.94	17.79	na	na
September	24.12	23.39	26.36	26.36	na	na
December	29.15	27.80	32.63	32.18	na	na
1991 quarter						
March	17.98	16.20	20.73	21.96	na	na
June	16.56	15.57	18.82	20.77	na	na
September	17.61	16.89	19.90	21.66	na	na
December	18.57	17.53	20.57	21.78	na	na
1992 quarter						
March	16.37	15.61	17.95	18.90	na	na
June	18.49	17.80	20.03	21.21	na	na
September	19.04	18.25	20.09	21.65	na	na
December	18.08	17.14	19.20	20.50	na	na
1993 quarter						
March	16.87	15.85	18.22	19.83	na	na
June	16.95	15.92	18.22	19.74	na	na
September	15.16	14.38	16.50	17.80	na	na
December	14.02	13.50	15.03	16.43	na	na
1994 quarter						
March	13.34	12.71	13.96	14.83	na	na
June	15.28	14.84	16.06	17.85	na	na
September	16.45	15.83	16.69	18.47	na	na
December	16.15	15.62	16.54	17.66	na	na
1995 quarter						
March	16.90	16.31	16.90	18.36	na	na
June	17.80	16.95	18.08	19.32	na	na
September	15.98	15.32	16.17	17.86	na	na
December	16.55	15.80	16.94	18.13	na	na
1996 quarter						
March	18.13	16.48	18.61	19.75	na	na
June	19.09	17.26	19.50	21.75	na	na
September	20.22	18.91	20.90	22.38	na	na
December	22.75	21.50	23.60	24.71	na	na
1997 quarter						
March	20.69	19.44	21.18	22.84	22.56	24.62
June	17.53	17.48	18.02	19.98	19.45	20.98
September	17.59	17.68	18.53	19.78	18.35	20.08
December	17.80	17.99	18.72	19.92	19.43	20.97
1998 quarter						
March	12.78	12.39	14.03	15.92	14.35	16.70
June	11.95	12.24	13.27	14.62	13.96	14.44
September	11.87	12.49	12.46	14.16	12.99	12.72
December	11.11	11.53	11.16	12.88	12.20	13.47
1999 quarter						
March	10.93	11.11	11.34	13.15	11.98	11.63
June	15.33	15.29	15.49	17.66	16.15	14.50
September	20.10	19.75	20.61	21.74	21.19	19.69
December	23.46	22.75	24.12	24.55	24.29	23.89

Continued

321 Prices for crude oil, by origin a continued

	World trade weighted b	Dubai c	Brent d	WTI e	Gippsland f	Tapis g
	US$/bbl	US$/bbl	US$/bbl	US$/bbl	US$/bbl	US$/bbl
2000 quarter						
March	26.33	24.41	26.93	28.91	26.75	26.52
June	26.31	25.17	26.89	28.97	27.79	27.16
September	28.79	27.66	30.43	31.66	31.82	31.36
December	28.58	27.68	29.68	31.96	31.10	29.77
2001 quarter						
March	24.33	23.67	25.79	28.72	26.81	27.87
June	25.57	25.17	27.38	27.88	28.18	27.89
September	24.24	24.03	25.30	26.70	25.26	26.46
December	18.40	18.41	19.42	20.41	20.26	23.24
2002 quarter						
March	19.78	20.10	21.09	21.55	21.04	21.22
June	23.95	24.39	25.07	26.30	25.49	25.61
September	25.54	25.54	26.91	28.30	26.98	27.24
December	25.41	25.16	26.81	28.29	27.99	28.28
2003 quarter						
March	29.71	28.39	31.49	34.00	32.34	32.46
June	24.37	24.44	26.03	29.02	27.04	27.23
September	27.25	26.57	28.38	30.19	29.19	29.53
December	27.67	27.67	29.43	31.15	30.92	31.23
2004 quarter						
March	29.60	29.54	32.03	35.33	34.38	34.50
June	32.78	33.28	35.32	38.28	37.45	37.54
September	36.50	36.22	41.54	43.88	44.51	44.63
December	38.74	35.55	43.85	48.29	45.52	47.12
2005 quarter						
March	42.34	41.41	47.62	49.88	50.17	49.73
June	47.13	47.98	51.63	53.08	53.23	55.23
September	56.50	55.36	61.63	63.18	62.19	64.72
December	52.33	52.87	56.87	60.01	58.90	60.84
2006 quarter						
March	56.28	57.93	61.79	63.29	65.42	67.49
June	63.87	64.82	69.59	70.46	71.90	73.77
September	65.70	65.96	69.60	70.44	73.04	75.43
December	54.99	57.24	59.59	59.90	61.43	63.32
2007 quarter						
March	52.50	55.45	57.76	58.05	62.19	63.55
June	64.62	64.80	68.76	64.89	73.45	74.99
September	71.46	69.98	74.75	75.24	77.39	79.64
December	84.64	82.83	88.45	90.47	89.35	93.34
2008 quarter						
March	93.00	90.71	96.16	97.22	100.73	102.29
June	118.79	117.23	122.13	123.97	126.34	128.82

a Based on daily prices unweighted and averaged over the period using posted or official selling prices with Rotterdam spot prices for Middle East and North Sea crudes after 1980. **b** Quarterly averages of weekly rates; average contract selling prices fob of internationally traded crude oils only, weighted by estimated export volume. **c** Middle East crude, 32 API gravity. **d** North Sea crude, 38 API gravity. **e** North American crude, 40 API gravity. **f** Australian crude, 42 API gravity. Price series discontinued in 1988. **g** Malaysia tapis blend 44 API. **na** Not available.

Sources: ABARE averaging of daily prices using: Middle East Petroleum and Economic Publications, *International Crude Oil and Product Prices,* London; Department of Resources and Energy, *Australian Energy Statistics,* AGPS, Canberra; Energy Information Administration, US Department of Energy, Washington DC; *Platts Oilgram Price Reports,* London; Reuterlink; Tokyo Commodity Exchange.

322 Summary of Australian statistics for salt

		Exports		
	Production	Volume	Value	Unit value a
	kt	kt	$m	$/t
1961	517	61	0.7	11.48
1962	545	76	0.7	9.21
1963	591	122	0.8	6.56
1964	554	119	0.8	6.72
1965	665	115	0.6	5.22
1966	655	95	0.5	5.26
1967	714	89	0.5	5.62
1968	914	228	0.9	3.95
1969	1 680	775	2.1	2.71
1970	3 071 b	2 331	8.2	3.52
1971	3 788 b	2 815	9.0	3.20
1972	3 340 b	2 417	7.0	2.90
1973	4 204	3 475	10.6	3.05
1974	5 009	4 211	15.4	3.66
1975	4 660	3 652	17.5	4.79
1976	5 489	4 258	26.9	6.32
1977	4 716	4 057	29.5	7.27
1978	5 873	4 654	32.9	7.07
1979	5 215	4 513	33.3	7.38
1980	5 665	4 515	44.3	9.81
1981	6 716	3 964	44.0	11.10
1982	4 811	4 144	55.2	13.32
1983	5 170	4 535	69.4	15.30
1984	5 695	4 783	74.7	15.62
1985	5 835	5 166	97.4	18.85
1986	6 131	5 213	102.0	19.57
1987	6 486	2 745 c	56.0 c	20.40
1988	6 958 b	6 206	117.2	18.89
1989	7 070 d	6 194	121.5	19.61
1990	7 229 d	6 466	136.3	21.08
1991	7 768 d	7 061	165.6	23.46
1992	7 693 d	7 028	174.9	24.89
1993	7 553 d	6 982	185.5	26.56
1994	7 792 d	7 259	174.1	23.99
1995	8 298 d	7 649	176.5	23.08
1996	7 993 d	7 651	166.6	21.77
1997	8 883 d	8 187	190.9	23.32
1998	9 033 d	8 701	233.4	26.82
1999	9 888 d	8 418	213.7	25.38
2000	8 847 d	8 257	221.7	26.85
2001	9 254 d	8 817	267.1	30.29
2002	9 961 d	9 504	259.6	27.32
2003	10 526 d	10 114	200.6	19.83
2004	11 088 d	11 181	194.6	17.40
2005	12 219 d	11 488	228.3	19.87
2006	11 478 d	10 911	240.2	22.01
2007	10 855 d	10 613	233.6	22.01

a Average export unit value of all salt, bulk, bagged and table. **b** Excludes Victoria. **c** Excludes salt, common, in bulk from 1 January to 30 June. **d** Excludes Victoria and the Northern Territory.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

323 Australian supply and disposal of salt

	Unit	2001	2002	2003	2004	2005	2006	2007
Production								
Queensland	kt	150	217	230	143	50	115	195
South Australia	kt	693	577	560	556	620	647	560
Western Australia **a**	kt	8 410	9 167	9 736	10 388	11 549	10 716	10 101
Total	kt	9 254	9 961	10 526	11 088	12 219	11 478	10 855
Exports (all types)								
Total	kt	8 817	9 504	10 114	11 181	11 488	10 911	10 613
	$m	267	260	201	195	228	240	234
Imports								
Common salt	t	14 869	17 285	15 157	16 578	15 369	18 033	14 582
	$'000	3 591	4 445	4 540	5 280	5 762	5 906	6 632

a Sales.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

324 World production of salt, by country

	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 Mt	2006 Mt	2007 Mt
Argentina	1.3	1.3	1.1	1.7	1.4	na	na	na
Australia	8.8	9.3	10.0	10.5	11.1	12.2	11.5	10.9
Brazil	6.1	5.6	6.1	6.6	6.6	6.7	7.3	7.3
Canada	12.0	13.7	12.3	14.0	14.1	14.5	15.0	15.0
Chile	5.1	6.0	3.5	6.2	4.9	4.9	6.0	6.1
China **a**	35.2	34.5	36.0	34.4	37.1	44.5	48.0	56.0
Egypt	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
France	6.6	7.6	6.8	7.4	7.6	7.0	7.0	7.0
Germany	12.6	12.7	13.7	14.0	15.5	18.7	18.6	18.0
India	15.7	14.3	17.9	14.9	14.8	15.5	16.0	15.5
Iran	1.3	1.5	1.5	1.6	1.8	2.0	2.0	2.0
Italy	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.0
Japan	1.4	1.4	1.3	1.3	1.2	na	na	na
Mexico	8.9	8.5	7.8	7.5	8.6	9.2	8.2	8.2
Netherlands **b**	5.6	5.7	5.8	6.0	5.9	5.0	5.0	5.0
Poland	3.5	3.5	3.6	3.6	4.0	5.0	5.0	5.0
Romania	2.3	2.2	2.3	2.4	2.4	2.4	2.5	2.5
Russian Federation	3.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Spain	3.9	3.8	3.9	4.0	3.9	3.2	3.2	3.9
Turkey	2.1	1.8	2.2	2.2	2.3	2.2	2.2	2.2
Ukraine	2.3	2.3	2.3	2.9	3.3	2.3	3.5	3.5
United Kingdom	5.8	6.0	5.7	5.9	6.2	5.8	5.8	5.8
United States **c**	43.2	42.2	40.3	43.7	46.4	45.1	44.3	43.8
Other	18.6	19.6	20.6	21.3	22.3	22.6	19.2	24.1
Total	211.4	212.3	213.3	220.8	230.3	238.0	240.0	250.0

a Marketable salt. **b** Includes the Antilles. **c** Includes Puerto Rico. **na** Not available.

Sources: Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; British Geological Survey, *World Mineral Statistics,* Nottingham, England; US Department of the Interior, US Geological Survey, *Mineral Yearbook,* Washington DC; ABARE.

325 Summary of Australian statistics for silica

	Production	Exports a		Imports	
	Volume	Volume	Value	Volume	Value
	kt	kt	$'000	t	$'000
1964	330	na	na	97	25
1965	337	na	na	44	55
1966	354	na	na	533	33
1967	446	na	na	478	na
1968	550	na	na	438	31
1969	652	na	na	624	37
1970	879	178 **b**	575 **b**	785 **b**	53 **b**
1971	1 112	211 **b**	736 **b**	1 126 **b**	85 **b**
1972	1 058	219 **b**	658 **b**	1 000 **b**	86 **b**
1973	1 259	557 **b**	1 836 **b**	696	259
1974	1 443 **c**	555 **b**	1 838 **b**	846	74
1975	1 219	513 **b**	2 193 **b**	1 121	119
1976	1 381	389 **b**	1 867 **b**	343	52
1977	1 224	495 **b**	3 030 **b**	441	77
1978	1 290	467 **b**	3 112 **b**	283	45
1979	1 768	647	4 896	368	77
1980	1 828	649	5 762	199	49
1981	1 743	383	4 075	569	169
1982	1 813	519	5 399	3 678	589
1983	1 928	670	6 879	2 464	647
1984	2 242	686	7 430	3 087	550
1985	2 091	895	9 972	1 267	648
1986	2 091	1 137	13 590	852	567
1987	2 361	1 094	13 249	535	397
1988	2 667	1 577	20 973	3 633	609
1988-89	2 795 **d**	1 660	23 319	3 473	523
1989-90	3 116 **d**	2 226	34 848	2 029	282
1990-91	3 835 **d**	2 398	37 685	6 835	667
1991-92	3 347 **e**	2 547	40 175	9 025	1 205
1992-93	3 570 **e**	2 488	41 825	2 231	906
1993-94	na	2 600	43 083	1 130	631
1994-95	4 576	3 007	49 163	2 431	989
1995-96	na	3 227	49 538	1 731	1 153
1996-97	na	3 074	52 062	4 237	2 681
1997-98	na	3 280	61 616	3 495	2 306
1998-99	na	2 986	58 401	2 704	975
1999-00	4 266	3 232	64 567	2 427	1 159
2000-01	3 997	3 213	75 376	2 658	1 455
2001-02	4 472	2 629	57 598	4 084	1 933
2002-03	4 046	2 794	59 900	4 330	2 004
2003-04	4 404	2 687	62 290	3 477	1 572
2004-05	4 145	1 844	52 643	2 708	1 375
2005-06	4 393	1 839	59 009	2 325	1 360
2006-07	5 314	2 313	71 290	3 114	1 779
2007-08	na	2 281	64 413	2 577	1 462

a Includes quartz sand from July 1999, data not available separately. **b** Year ended 30 June. **c** Excludes Western Australia. **d** Excludes Victoria. **e** Excludes Tasmania and Victoria. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

326 Australian production of silica, by state

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
	kt	kt	kt	kt	kt	kt	kt
1962	173.4	na	26.0	10.5	23.8	0.5	234.2 a
1963	176.7	na	32.5	10.1	25.3	2.7	247.3 a
1964	241.9	na	38.2	10.2	25.4	13.8	329.6 a
1965	234.9	na	46.2	9.4	36.4	10.1	337.0 a
1966	234.1	na	39.4	28.7	46.2	5.5	353.9 a
1967	289.1	na	70.2	42.4	35.1	8.7	445.6 a
1968	283.6	na	164.5	20.9	67.1	14.3	550.4 a
1969	315.4	na	208.9	49.7	49.4	28.3	651.7 a
1970	335.2	114.5	295.0	39.3	43.2	51.8	879.1
1971	430.2	108.1	405.7	57.8	74.0	36.7	1 112.4
1972	464.2	98.8	395.4	20.9	60.5	18.1	1 058.0
1973	459.7	109.0	568.1	27.4	66.2	28.1	1 258.5
1974	474.9	141.8	712.4	na	75.2	38.4	1 442.8 b
1975	392.9	142.6	544.1	28.3	77.6	33.3	1 218.8
1976	511.7	166.3	516.5	40.6	118.7	27.7	1 381.4
1977	410.3	199.4	458.7	78.1	104.4	51.5	1 224.3
1978	417.3	184.3	520.2	91.2	114.8	53.1	1 289.7
1979	544.9	196.2	627.3	217.7	91.7	89.9	1 767.6
1980	588.1	255.3	670.7	148.1	99.9	65.5	1 827.6
1981	548.5	288.2	581.4	168.1	120.4	36.5	1 743.1
1982	557.5	361.0	563.7	144.0	146.8	40.1	1 813.2
1983	471.5	348.5	627.4	322.8	114.5	43.3	1 927.8
1984	448.4	406.9	866.7	352.6	124.4	43.1	2 242.1
1985	338.5	273.7	924.6	373.1	143.4	37.1	2 090.5
1986	412.3	267.0	839.4	390.4	141.3	40.9	2 091.3
1987	464.8	224.0	1 079.2	386.0	147.2	59.5	2 360.7
1988	457.6	218.7	1 467.0	348.9	96.8	78.0	2 667.0
1988-89	480.2	na	1 682.6	364.5	109.7	158.0	2 794.9 a
1989-90	574.0	na	1 802.0	478.0	112.0	150.0	3 116.0 a
1990-91	551.1	na	2 145.1	861.7	104.4	172.3	3 834.6 a
1991-92	552.5	na	2 019.8	654.6	119.8	na	3 346.7 c
1992-93	495.0	na	2 421.0	518.0	136.0	na	3 570.0 c
1993-94	na	na	2 494.2	568.4	na	na	na
1994-95	565.0	220.0	2 828.7	614.5	174.0	174.0	4 576.0
1995-96	636.2	na	na	741.9	132.0	na	na
1996-97	699.1	na	2 680.5	700.2	157.0	na	na
1997-98	489.4	na	2 851.1	821.5	131.0	na	na
1998-99	438.4	na	2 087.2	583.0	126.1	na	na
1999-00	442.2	443.0	2 637.0	599.6	114.8	139.9	4 265.8
2000-01	433.5	78.0	2 619.0	557.3	145.3	163.4	3 996.5
2001-02	452.0	530.9	2 488.0	653.0	185.0	163.3	4 472.2
2002-03	491.7	20.1	2 406.3	752.5	246.4	128.9	4 046.0
2003-04	398.1	476.6	2 510.4	644.2	239.1	135.2	4 403.6
2004-05	504.5	564.1	1 902.7	700.2	320.1	153.0	4 144.8
2005-06	661.1	338.3	2 087.0	778.1	337.9	190.8	4 393.2
2006-07	1 215.9	371.6	2 583.4	630.5	328.0	185.0	5 314.5

a Excludes Victoria. **b** Excludes Western Australia. **c** Excludes Tasmania and Victoria. **na** Not available.

Sources: ABS, *Mineral Production, Australia*, cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry*, cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia*, cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964*, Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

327 Australian imports of silica based products

	Silicon		Ferrosilicon		Ferrosilicomanganese		Piezoelectric crystals
	Volume	Value	Volume	Value	Volume	Value	Value
	t	$'000	t	$'000	t	$'000	$'000
1963	830	249	5 720	710	na	na	na
1964	1 593	466	10 348	1 167	na	na	na
1965	638	194	13 211	1 747	na	na	na
1966	na	142	7 620	1 061	na	na	na
1967	na	422	9 440	1 379	na	na	na
1968	na	na	6 327	923	na	na	na
1969	na	625	7 722	1 180	na	na	na
1970	na	621	13 603	2 272	na	na	na
1971	3 403	1 192	12 281	2 073	na	na	112
1972	1 950	688	9 771	1 794	na	na	259
1973	2 366	777	9 202	1 526	na	na	159
1974	2 496	1 047	14 286	3 048	na	na	330
1975	2 602	2 723	21 578	8 528	na	na	558
1976	1 845	1 229	14 258	5 249	na	na	467
1977	3 896 a	2 982 a	6 437	3 114	390 a	200 a	738 a
1978	2 006 a	1 492 a	6 363	2 893	414	271	536 a
1979	2 573 a	2 950 a	7 149	3 640	488	392	819 a
1980	4 888 a	5 749 a	14 598	8 856	532	376	971 a
1981	3 093 a	3 553 a	9 716	4 675	217	180	1 040 a
1982	2 961	3 685	10 761	6 222	193	127	1 886
1983	2 695	4 064	7 174	4 280	336	300	1 859
1984	4 572	7 422	9 461	5 273	774	709	2 402
1985	4 914	9 447	13 890	7 153	940	1 183	3 782
1986	5 852	10 461	11 469	6 873	392	558	3 407
1987	5 083	11 853	12 897	8 894	656	913	4 106
1988	3 759	6 592	9 095	7 533	433	571	3 444
1988-89	3 714	8 062	14 100	12 065	293	401	4 347
1989-90	2 908	10 160	21 507	18 566	205	308	4 470
1990-91	2 443	10 545	19 330	13 929	231	316	3 475
1991-92	2 301	11 469	13 229	11 460	913	922	8 486
1992-93	3 611	11 910	24 738	21 091	932	832	4 423
1993-94	3 025	11 393	35 732	31 342	510	548	6 114
1994-95	2 863	15 083	32 593	25 699	377	375	6 607
1995-96	4 899	14 862	34 506	38 060	288	482	7 951
1996-97	3 226	10 408	52 952	38 258	279	468	6 305
1997-98	3 054	11 369	36 016	39 544	199	304	6 485
1998-99	4 110	15 289	32 044	33 968	451	752	9 431
1999-00	4 887	14 683	29 189	27 749	329	474	12 066
2000-01	5 966	23 530	29 004	33 006	468	723	20 325
2001-02	3 857	13 719	28 965	34 115	259	439	8 509
2002-03	6 437	21 935	29 692	30 695	240	368	8 863
2003-04	6 134	19 553	35 474	35 501	540	817	9 716
2004-05	6 284	21 039	34 877	38 631	398	714	13 092
2005-06	9 518	26 979	32 653	37 898	297	570	7 307
2006-07	13 256	31 324	36 775	46 249	444	837	7 312
2007-08	18 258	42 111	46 025	60 583	377	826	6 947

a Year ended 30 June. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra.

328 Summary of Australian statistics for silver

	Production		Exports a		
	Mine	Refinery	Volume	Value	Price b
	t	t	t	$m	$/kg
1970	808	374	304	na	59.39
1971	678	328	203	na	47.92
1972	681	313	219	na	49.75
1973	707	261	115	na	60.08
1974	670	256	112	na	104.75
1975	726	283	134	na	109.17
1976	779	255	100	na	115.17
1977	856	280	136	na	135.00
1978	813	299	76	na	153.00
1979	832	320	85	na	319.25
1980	777	355	85	na	598.00
1981	744	376	90	na	297.17
1982	907	357	234	na	253.67
1983	1 033	329	222	na	411.33
1984	972	302	164	na	299.75
1985	1 086	329	167	na	285.33
1986	1 023	336	192	na	264.58
1987	1 119	362	178	na	325.83
1988	1 134	359	26 c	26 d	275.75
1989	1 075	376	23 c	28 d	229.67
1990	1 173 s	419	16 c	43 d	205.92
1991	1 180 s	387	106 c	38 d	175.58
1992	1 218 s	369	200 c	49 d	181.25
1993	1 152 s	357	257 c	60 d	212.25
1994	1 045 s	363	190 c	53 d	240.92
1995	939 s	346	192 c	52 d	234.06
1996	974 s	220	316 c	73 d	222.42
1997	1 107 s	174	215 c	54 d	220.70
1998	1 473 s	292	365 c	123 d	291.56
1999	1 715 s	437	428 c	117 d	268.62
2000	2 059	404	427	138	285.31
2001	1 970	584	524	159	287.72
2002	2 070	644	540	154	290.78
2003	1 868	649	432	109	258.89
2004	2 224	650	477	150	308.13
2005	2 417	701	528	170	308.28
2006	1 728	634	421	209	492.71
2007	1 879	625	413	214	512.81

a Refined silver only. **b** Pasminco Metals, fob/fot Port Pirie. **c** Refined bullion only. **d** Includes refined bullion, powder, unwrought silver and semi-manufactured forms. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Australian Associated Press Financial News Wire; Factiva.

329 Australian supply and disposal of silver

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Production									
Mine									
New South Wales	t	146	133	88	82	92	101	94	69
Queensland	t	1 576	1 545	1 760	1 582	1 914	2 065	1 385	1 527
Western Australia	t	137	107	68	70	51	88	96	112
South Australia	t	34	34	26	20	34	38	30	27
Tasmania	t	118	104	78	67	89	82	88	105
Northern Territory	t	47	48	50	46	45	43	35	37
Total **s**	t	2 059	1 970	2 070	1 868	2 224	2 417	1 728	1 879
Refinery	t	404	584	644	649	650	701	634	625
Exports									
Refined silver									
India	t	131	190	192	124	92	66	47	83
Japan	t	185	178	143	204	267	216	191	180
Korea, Rep. of	t	53	42	34	34	37	60	80	60
Singapore	t	17	72	5	9	20	20	3	4
United Kingdom	t	0	0	42	0	0	50	1	1
Other	t	42	41	125	62	59	116	99	86
Total	t **a**	427	524	540	432	477	528	421	413
	$m **b**	138	159	154	109	150	170	209	214
Silver content of lead bullion	t	332	441	455	402	453	498	70	117
Prices									
World	USc/troy oz	499.91	434.98	460.04	487.65	664.98	731.23	1 157.25	1 339.34
Australia **c**	A$/kg	285.31	287.72	290.78	258.89	308.13	308.28	492.71	512.81

a Refined bullion only. **b** Includes refined bullion, powder, unwrought silver and semimanufactured forms. **c** Pasminco Metals, fob/fot Port Pirie. **s** ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Australian Associated Press Financial News Wire; Factiva; London Bullion Market Association.

330 World mine production of silver

	1999	2000	2001	2002	2003	2004	2005	2006	2007
	t	t	t	t	t	t	t	t	t
Australia **s**	1 715	2 059	1 970	2 070	1 868	2 224	2 417	1 728	1 879
Bolivia	424	434	408	450	466	413	420	473	525
Brazil	130	130	130	130	130	130	130	130	130
Canada	1 246	1 212	1 320	1 408	1 309	1 337	1 124	995	862
Chile	1 380	1 245	1 349	1 205	1 313	1 360	1 400	1 607	1 929
China	1 330	1 330	1 908	2 000	2 000	2 000	2 000	2 000	2 000
Indonesia	292	335	348	289	377	377	283	182	205
Japan	94	104	80	81	79	76	54	11	5
Kazakhstan	816	816	943	856	805	690	804	811	833
Korea, Dem. Rep. of	200	200	50	50	22	22	22	22	22
Mexico	2 483	2 483	2 760	2 749	2 551	2 531	2 870	2 999	3 082
Morocco	270	290	240	277	200	200	210	246	246
Peru	2 231	2 438	2 571	2 870	2 921	3 060	3 193	3 471	3 494
Poland	1 093	1 088	1 231	1 342	1 332	1 330	1 263	1 306	1 302
Russian Federation	240	240	400	400	400	400	400	400	400
South Africa	152	144	112	111	87	71	88	87	70
Spain	66	66	66	13	2	4	4	4	4
Sweden	284	304	285	294	341	320	310	268	294
United States	1 952	2 017	1 606	1 419	1 240	1 250	1 230	1 139	1 172
Uzbekistan	150	150	218	157	150	150	150	150	150
Other	658	660	819	876	882	827	1 031	1 098	1 189
Total **a**	17 208	17 747	18 815	19 047	18 475	18 730	19 402	19 125	19 795

a Excludes countries for which data are not available. **s** ABARE estimate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

331 Summary of Australian statistics for talc

	Production b	Exports a			Imports a	
		Volume	Value	Unit value	Volume	Value
	t	t	$'000	$/t	t	$'000
1963	12 790	4 090	142	34.63	2 591	81
1964	15 439	5 264	177	33.69	2 351	75
1965	19 695	6 887	234	33.98	2 404	68
1966	21 616	7 758	231	29.78	2 903	62
1967	20 431	8 787	277	31.52	2 199	74
1968	37 860	24 875	661	26.57	3 590	117
1969	52 259	34 134	863	25.28	1 823	77
1970	47 517	31 037	791	25.49	3 441	164
1971	41 280	32 662	861	26.36	4 091	197
1972	43 849	32 051	897	27.99	1 186	69
1973	50 850	36 179	996	27.53	1 109	66
1974	63 992	51 325	1 428	27.82	1 606	10
1975	67 242	45 457	1 527	33.59	947	72
1976	77 447	62 306	2 425	38.92	370	62
1977	112 920	87 271	4 052	46.43	335	65
1978	137 553	107 177	5 338	49.81	527	103
1979	138 266	107 849	6 330	58.69	420	86
1980	159 962	83 059	5 286	63.64	382	82
1981	74 840	82 641	5 529	66.90	329	105
1982	143 325	80 512	5 428	67.42	93	30
1983	167 009	131 914	8 401	63.69	147	68
1984	179 709	163 370	10 810	66.17	215	111
1985	132 074	122 306	9 577	78.30	352	196
1986	179 467	183 357	15 028	81.96	151	85
1987	206 865	129 656	11 012	84.93	266	189
1988	201 740	168 758	13 073	77.47	509	223
1988-89	208 998	126 597	9 447	74.62	578	216
1989-90	234 579	200 870	18 158	90.39	631	297
1990-91	173 803	137 260	12 770	93.03	528	237
1991-92	179 678	152 009	13 717	90.24	563	298
1992-93	172 273	119 830	14 184	118.36	629	372
1993-94	154 073	152 297	15 440	101.38	534	328
1994-95	125 701	133 060	12 672	95.23	1 053	353
1995-96	176 163	182 600	17 388	95.22	1 066	423
1996-97	185 601	143 227 c	12 861 c	89.80	1 262	451
1997-98	199 315	1 614 c	572 c	354.23	1 341	578
1998-99	190 037	3 333 c	1 053 c	315.82	886	695
1999-00	178 545	184 559	20 391	110.48	1 115	893
2000-01	173 446	135 771	24 298	178.96	1 234	707
2001-02	160 741	144 216	21 768	150.94	1 058	630
2002-03	165 980	148 281	22 040	148.63	1 742	856
2003-04	123 080	132 782	18 884	142.22	1 992	750
2004-05	150 923	129 756	19 104	147.23	1 853	827
2005-06	na	125 730	17 247	137.17	3 538	1 556
2006-07	na	100 098	13 769	137.55	6 326	3 255
2007-08	na	109 440	15 142	138.36	7 952	3 413

a Includes pyrophyllite. **b** Excludes pyrophyllite. **c** Excludes uncrushed product from 1 June 1997 to 31 May 1999. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

332 Australian production of talc and pyrophllite, by state

	Talc				Pyrophyllite
	New South Wales	South Australia	Western Australia	Australia	New South Wales
	t	t	t	t	t
1963	878	7 168	4 744	12 790	1 176
1964	1 388	8 533	5 518	15 439	723
1965	1 710	10 783	7 202	19 695	0
1966	1 426	6 611	13 580	21 616	266
1967	2 169	7 303	10 958	20 431	564
1968	2 153	10 586	25 121	37 860	985
1969	2 925	12 459	36 876	52 259	3 165
1970	1 162	14 559	31 796	47 517	7 707
1971	698	11 506	29 076	41 280	6 596
1972	650	11 336	31 863	43 849	12 299
1973	765	14 088	35 997	50 850	12 820
1974	430	12 773	50 789	63 992	15 845
1975	280	12 975	53 987	67 242	15 145
1976	305	16 892	60 250	77 447	14 650
1977	90	16 391	96 439	112 920	16 039
1978	105	14 070	123 378	137 553	9 401
1979	150	15 565	122 551	138 266	19 209
1980	77	16 414	143 471	159 962	11 002
1981	76	21 046	53 718	74 840	8 146
1982	0	20 497	122 828	143 325	9 467
1983	63	14 913	152 033	167 009	9 569
1984	145	18 588	160 976	179 709	7 051
1985	239	16 804	115 031	132 074	7 317
1986	38	18 061	161 368	179 467	8 588
1987	120	17 471	189 274	206 865	6 036
1988	126	18 840	182 774	201 740	3 932
1988-89	155	13 536	195 307	208 998	3 436
1989-90	88	14 228	220 263	234 579	2 965
1990-91	136	12 107	161 560	173 803	1 032
1991-92	0	10 787	168 891	179 678	1 260
1992-93	0	13 484	158 789	172 273	1 175
1993-94	na	13 016	141 057	154 073	na
1994-95	27	12 950	112 724	125 701	777
1995-96	0	14 751	161 412	176 163	595
1996-97	0	8 061	177 540	185 601	337
1997-98	0	8 018	191 297	199 315	702
1998-99	0	8 428	181 609	190 037	347
1999-00	0	9 410	169 135	178 545	1 727
2000-01	0	9 126	164 320	173 446	0
2001-02	0	8 372	152 369	160 741	868
2002-03	0	8 616	157 364	165 980	0
2003-04	0	6 440	116 640	123 080	0
2004-05	0	7 919	143 004	150 923	0
2005-06	0	5 109	na	na	0
2006-07	0	4 697	na	na	0

na Not available.

Sources: ABS, *Mineral Production, Australia,* cat. no. 8405.0, Canberra; ABS, *The Australian Mining Industry,* cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842–1964,* Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

333 Australian exports of talc, by destination a

	Belgium	Japan	Nether-lands	New Zealand	Korea, Rep. of	United States	Other	Total Volume	Total Value
	t	t	t	t	t	t	t	t	$'000
1961	na	na	na	957	na	na	na	4 258	149
1962	na	na	412	1 116	na	na	na	5 068	164
1963	na	na	0	1 259	na	na	na	4 090	142
1964	na	na	217	1 049	na	na	na	5 264	177
1965	na	na	1 852	1 421	na	na	na	6 887	234
1966	na	na	4 864	1 198	na	na	na	7 758	231
1967	na	78	6 971	1 235	na	na	503	8 787	277
1968	na	190	19 026	1 285	na	na	4 374	24 875	661
1969	na	9 976	22 236	1 474	na	na	448	34 134	863
1970	na	16 445	12 786	1 567	na	na	239	31 037	791
1971	na	20 754	10 048	1 740	na	na	120	32 662	861
1972	na	14 953	14 991	2 029	na	na	78	32 051	897
1973	na	20 061	14 346	1 661	na	na	111	36 179	996
1974	na	30 889	18 703	1 644	na	na	89	51 325	1 428
1975	na	28 329	12 163	2 060	na	na	2 905	45 457	1 527
1976	na	39 050	15 107	2 802	na	na	5 347	62 306	2 425
1977	na	66 557	13 422	2 461	na	na	4 831	87 271	4 052
1978	na	90 577	11 291	1 860	na	na	3 449	107 177	5 338
1979	na	85 511	12 868	3 099	na	na	6 371	107 849	6 330
1980	3 150	64 152	13 500	1 868	na	na	389	83 059	5 286
1981	6 096	60 406	6 215	2 917	na	na	7 007	82 641	5 529
1982	12 597	51 096	10 063	2 419	na	na	4 337	80 512	5 428
1983	5 004	93 988	14 655	1 325	5 023	9 990	1 929	131 914	8 401
1984	11 213	119 678	14 327	1 988	14 167	0	1 997	163 370	10 810
1985	20 051	66 765	14 980	1 848	15 420	0	3 242	122 306	9 577
1986	15 007	120 312	15 252	1 069	15 745	14 003	1 969	183 357	15 028
1987	8 084	84 701	5 001	1 079	9 311	15 472	6 008	129 656	11 012
1988	12 112	124 843	11 960	669	0	18 030	1 144	168 758	13 073
1988-89	5 000	107 482	5 507	548	0	7 019	1 041	126 597	9 447
1989-90	21 754	137 648	13 565	366	4 648	18 510	4 379	200 870	18 158
1990-91	6 000	87 984	35 167	476	0	6 003	1 630	137 260	12 770
1991-92	5 255	103 279	30 200	421	0	4 728	8 126	152 009	13 717
1992-93	17 002	70 331	14 630	686	0	8 166	9 015	119 830	14 184
1993-94	6 317	94 451	37 356	689	0	10 911	2 573	152 297	15 440
1994-95	6 300	68 657	46 800	679	0	9 300	1 324	133 060	12 672
1995-96	12 803	85 375	48 300	797	680	30 100	4 545	182 600	17 388
1996-97 **b**	6 300	69 029	45 625	669	4 815	5 262	11 527	143 227	12 861
1997-98 **b**	0	0	0	910	3	0	701	1 614	572
1998-99 **b**	0	1 200	0	944	99	0	1 090	3 333	1 053
1999-00	2 501	65 101	78 939	1 013	43	12 400	24 562	184 559	20 391
2000-01	0	62 567	57 550	1 138	129	0	14 387	135 771	24 298
2001-02	0	55 436	61 767	2 574	178	4 200	20 061	144 216	21 768
2002-03	0	42 547	78 318	1 625	21	6 300	19 470	148 281	22 040
2003-04	0	28 261	77 958	3 928	0	20	22 615	132 782	18 884
2004-05	0	15 811	87 257	3 146	38	6 010	17 494	129 756	19 104
2005-06	9 100	25 300	73 080	2 405	38	21	15 786	125 730	17 247
2006-07	0	33 815	44 550	2 345	25	3 721	15 642	100 098	13 769
2007-08	10 679	30 065	58 650	1 066	0	0	8 980	109 440	15 142

a Includes pyrophyllite. **b** Excludes uncrushed product from 1 June 1997 to 31 May 1999. **na** Not available.

Sources: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

334 Australian imports of talc, by source a

	Norway	United Kingdom	United States	Other	Total Volume	Total Value
	t	t	t	t	t	$'000
1961	na	na	na	na	1 489	45
1962	34	na	64	na	2 156	72
1963	41	na	119	na	2 591	81
1964	61	na	135	na	2 351	75
1965	82	na	139	na	2 404	68
1966	19	na	256	na	2 903	62
1967	13	na	381	na	2 199	74
1968	40	na	469	na	3 590	117
1969	9	na	442	na	1 823	77
1970	23	na	560	2 858	3 441	164
1971	31	na	732	3 328	4 091	197
1972	65	na	765	356	1 186	69
1973	86	na	647	376	1 109	66
1974	97	na	355	1 154	1 606	10
1975	2	na	244	701	947	72
1976	62	na	188	120	370	62
1977	26	na	186	123	335	65
1978	51	na	236	240	527	103
1979	41	na	168	211	420	86
1980	23	na	187	172	382	82
1981	60	na	228	41	329	105
1982	22	na	49	22	93	30
1983	27	29	82	9	147	68
1984	39	61	111	4	215	111
1985	46	47	248	11	352	196
1986	43	61	36	11	151	85
1987	66	47	107	46	266	189
1988	31	17	431	30	509	223
1988-89	45	34	338	161	578	216
1989-90	25	23	571	13	631	297
1990-91	58	75	368	28	528	237
1991-92	17	65	451	29	563	298
1992-93	30	99	354	146	629	372
1993-94	35	50	297	152	534	328
1994-95	20	46	287	700	1 053	353
1995-96	4	24	305	733	1 066	423
1996-97	11	44	185	1 022	1 262	451
1997-98	14	42	218	1 068	1 341	578
1998-99	6	24	224	632	886	695
1999-00	8	5	280	822	1 115	893
2000-01	39	0	250	945	1 234	707
2001-02	59	0	168	830	1 058	630
2002-03	16	4	185	1 537	1 742	856
2003-04	0	1	412	1 578	1 992	750
2004-05	1	2	344	1 506	1 853	827
2005-06	16	1	771	2 750	3 538	1 556
2006-07	16	4	717	5 590	6 326	3 255
2007-08	0	5	1 094	6 853	7 952	3 413

a Includes pyrophyllite. **na** Not available.

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra.

335 World mine production of talc, by country a

	Australia	Brazil	China b	Japan	Korea, Rep. of	United States	Other	Total
	kt	kt	kt	kt	kt	kt	kt	kt
1960	16	na	150	592	na	666	833	2 520
1961	15	na	150	635	na	692	914	2 708
1962	15	na	150	589	na	700	931	2 712
1963	14	na	150	654	na	730	993	2 857
1964	16	na	150	1 055	na	807	1 032	3 485
1965	20	na	150	1 008	na	783	1 038	3 444
1966	22	na	150	1 109	na	812	1 003	3 526
1967	21	na	150	1 370	na	819	1 003	3 831
1968	39	na	150	1 689	na	869	1 058	4 298
1969	55	112	150	1 705	180	934	1 280	4 490
1970	55	130	150	1 676	204	932	1 413	4 940
1971	48	130	150	1 895	212	932	1 203	4 950
1972	56	130	150	1 507	236	1 005	1 290	4 764
1973	64	90	150	1 564	417	1 131	1 457	5 272
1974	80	201	150	1 542	443	1 170	1 276	5 272
1975	82	221	270	1 192	416	841	1 430	4 872
1976	92	247	300	1 345	496	963	1 532	5 415
1977	129	254	150	1 359	605	1 093	1 601	5 641
1978	147	240	150	1 272	665	1 202	1 577	5 723
1979	157	366	150	1 709	778	1 318	1 889	6 847
1980	171	413	916	1 749	719	1 125	1 946	7 529
1981	83	503	898	1 545	565	1 218	1 912	7 224
1982	153	384	898	1 492	591	1 030	1 780	6 838
1983	177	396	950	1 466	632	967	1 982	7 070
1984	187	413	952	1 498	848	1 023	2 177	7 615
1985	139	425	1 000	1 434	932	1 151	2 257	7 855
1986	188	425	1 000	1 334	900	1 181	2 190	7 735
1987	213	600	na	1 260	900	1 120	3 763	7 856
1988	206	400	na	1 266	850	1 249	3 678	7 649
1989	212	620	1 000	1 286	800	1 253	2 279	7 980
1990	238	720	1 000	1 293	910	1 267	2 823	8 251
1991	175	570	2 300	1 295	840	1 037	2 715	8 932
1992	181	480	2 650	1 123	760	997	2 673	8 864
1993	173	440	2 700	1 090	750	968	2 579	8 700
1994	na	440	2 400	999	710	935	2 396	7 880
1995	126	460	2 400	994	730	1 060	1 380	7 150
1996	177	510	2 400	965	820	994	2 324	8 190
1997	186	625	2 350	1 010	810	1 050	2 439	8 470
1998	200	452	2 300	965	822	971	2 340	8 050
1999	190	452	3 900	800	875	925	2 328	9 470
2000	180	452	3 500	743	776	851	3 138	9 640
2001	173	450	3 500	668	1 100	853	2 176	8 920
2002	162	450	3 600	665	1 100	775	2 118	8 870
2003	166	400	3 600	640	940	869	2 305	8 920
2004	123	570	3 000	585	958	857	2 336	8 320
2005	151	607	3 000	431	900	856	2 305	8 250
2006	na	608	3 000	375	1 010	895	3 032	8 920
2007	na	610	2 500	375	750	839	3 026	8 100

a Includes pyrophyllite. **b** Excludes Hong Kong. **na** Not available.

Sources: ABS, *Mining Operations, Australia,* cat. no. 8415.0, Canberra; BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; US Department of the Interior, US Geological Survey, *Mineral Commodity Summaries,* Washington DC; ABARE.

336 Summary of Australian statistics for tin

	Production		Exports		
	Mine a	Refinery	Volume b	Value	Price c
	t	t	t	$m	A$/t
1962	2 715	2 704	0	0	2 470.0
1963	2 860	2 626	97	0	2 506.0
1964	3 642	3 021	253	1	3 416.0
1965	3 849	3 179	633	2	3 892.0
1966	4 807	3 640	1 327	4	3 570.0
1967	5 586	3 594	1 690	5	3 339.0
1968	6 537	3 692	3 238	8	3 125.0
1969	8 177	4 156	4 075	10	3 427.0
1970	8 828	5 211	4 681	14	3 669.0
1971	10 035	6 333	5 249	14	3 497.0
1972	11 997	7 027	8 129	23	3 761.0
1973	10 801	6 904	7 414	21	4 802.0
1974	10 481	6 714	6 755	30	8 167.0
1975	9 577	5 254	6 977	32	6 841.0
1976	10 611	5 603	5 670	30	7 650.0
1977	10 634	5 561	7 405	60	10 788.0
1978	11 864	5 129	9 071	89	12 867.0
1979	12 571	5 423	8 450	103	15 419.0
1980	11 588	4 819	8 919	118	16 795.0
1981	12 233	4 286	8 622	98	14 244.0
1982	12 093	3 105	7 779	92	12 764.0
1983	9 252 d	2 913	6 692	120	12 995.0
1984	7 923 d	2 899	6 577	83	12 217.0
1985	6 363 d	2 683	5 667	85	12 161.0
1986	8 508 d	1 399	7 512	58	11 581.0
1987	7 691	563	7 163	60	12 004.0
1988	7 009	439	7 376	60	11 299.0
1989	7 709	424	7 511	85	13 352.0
1990	7 425	312	6 187	55	9 913.0
1991	5 380	268	5 770	35	9 054.0
1992	6 609	240	6 569	45	8 549.1
1993	8 057	222	8 161	53	7 589.8
1994	7 400	320	7 234	44	7 502.4
1995	8 656	570	8 574	59	8 432.0
1996	8 733	481	8 779	56	7 892.3
1997	10 326	646	10 160	63	7 611.5
1998	10 174	655	10 066	73	8 831.9
1999	10 011	586	10 556	70	8 373.8
2000	9 115	735	9 057	67	9 335.9
2001	9 840	1 094	9 325	66	8 646.7
2002	7 017	791	6 995	43	7 469.4
2003	3 864	597	2 885	18	7 514.4
2004	1 196	467	218	0	11 583.3
2005	2 308	594	2 573	16	9 687.4
2006	1 477	572	1 022	8	11 647.9
2007	2 071	118	2 533	31	17 344.3

a Metallic content. **b** Tin content of all ores, concentrates, slags, residues and refined tin. **c** London Metal Exchange cash settlement price for refined tin, 99.75 per cent purity, expressed in Australian dollars; between 1 January 1986 and 31 May 1989, Kuala Lumpur Tin Market. **d** Excludes content of copper–tin concentrate.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; London Metal Exchange.

337 Australian supply and disposal of tin

	Unit	2000	2001	2002	2003	2004	2005	2006	2007
Production									
Mine a									
New South Wales	t	0	0	750	1 031	429	0	0	0
Queensland	t	10	0	0	0	0	282	2 396	2 031
Tasmania	t	8 327	8 961	5 609	2 282	396	1 832	0	0
Western Australia	t	778	879	659	552	371	476	387	40
Total	t	9 115	9 840	7 017	3 864	1 196	2 308	1 477	2 071
Refinery	t	735	1 094	791	597	467	594	572	118
Exports									
Tin ore and concentrate									
Malaysia	t	8 067	5 728	1 199	605	41	3 696	1 180	3 301
Thailand	t	6 076	9 426	10 342	4 123	0	0	6	729
Other	t	0	0	0	0	0	40	0	0
Total	t	14 143	15 154	11 541	4 728	41	3 736	1 186	4 030
	$m	67.43	66.08	43.36	18.41	0.25	16.29	7.69	30.81
Refined									
Malaysia	t	50	1	0	65	180	539	302	181
Thailand	t	27	0	0	0	0	0	0	0
United States	t	1	0	0	0	0	0	0	0
Other	t	217	96	12	4	15	21	13	36
Total	t	295	97	12	69	195	560	315	217
	$m	0.97	0.53	0.17	0.25	1.06	0.70	2.29	2.78
Tin content of primary materials exported b	t	9 057	9 325	6 995	2 885	218	2 573	1 022	2 533
Prices c									
World	US$/t	5 434.8	4 483.6	4 062.0	4 896.3	8 512.0	7 382.0	8 780.0	14 533.3

a Metallic content. **b** Tin content of all ores, concentrates, slags, residues and refined tin. **c** London Metal Exchange cash settlement price for refined tin, 99.75 per cent purity.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London; London Metal Exchange.

338 World mine production of tin in concentrates, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	9.1	9.8	7.0	3.9	1.2	2.3	1.5	2.1
Bolivia	12.5	12.0	13.2	16.4	18.1	18.4	17.7	16.0
Brazil	13.8	13.0	12.0	12.2	12.2	11.7	9.5	9.6
China	97.1	99.4	81.0	101.8	118.2	121.6	114.3	136.3
Indonesia	51.6	56.3	78.6	64.0	78.4	120.0	117.5	102.0
Kazakhstan	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Laos	0.4	0.8	1.1	1.1	1.1	1.1	1.1	1.1
Malaysia	6.3	5.0	4.2	3.4	2.7	2.9	2.4	2.8
Myanmar	1.6	0.6	0.3	0.5	0.4	0.4	1.0	1.0
Nigeria	2.0	1.3	0.9	0.9	0.9	0.9	0.9	2.4
Peru	37.4	38.2	38.8	40.2	41.6	42.1	38.5	39.0
Portugal	1.2	1.2	0.3	0.2	0.2	0.2	0.0	0.0
Rwanda	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
Russian Federation	6.6	5.5	5.2	5.4	5.3	5.1	5.1	5.1
Thailand	2.2	2.5	1.1	0.9	0.7	0.2	0.2	0.2
Viet Nam	1.8	1.7	1.7	2.1	3.5	5.4	5.4	5.4
Other s	0.2	0.1	1.3	2.5	5.9	8.1	7.3	13.1
Total s	244.6	247.8	247.0	255.6	290.6	340.9	322.2	335.4

a Recoverable tin content of ores and concentrates produced. **s** ABARE estimate; excludes some small producer countries.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; World Bureau of Metal Statistics, *World Metal Statistics,* London.

339 Summary of Australian statistics for titanium

	Ilmenite concentrate				Rutile concentrate			
	Production a	Exports			Production a	Exports		
	Volume	Volume	Value	Unit value	Volume	Volume	Value	Unit value
	kt	kt	$m	$/t	kt	kt	$m	$/t
1962	182 b	158	1.4	8.9	121	119	7.3	61.3
1963	205 b	155	1.5	9.7	185	157	10.6	67.5
1964	309 b	250	2.3	9.2	185	197	14.1	71.6
1965	448 b	367	3.5	9.5	221	243	17.1	70.4
1966	522	362	3.7	10.2	251	235	17.8	75.7
1967	554	391	3.9	10.0	270	263	19.7	74.9
1968	562	402	4.1	10.2	293	290	21.9	75.5
1969	721	576	6.0	10.4	326	304	25.5	83.9
1970	886	648	6.6	10.2	371	374	34.8	93.0
1971	814	657	6.7	10.2	375	325	35.8	110.2
1972	707	410	4.4	10.7	313	354	41.1	116.1
1973	720	650	7.2	11.1	335	336	40.5	120.5
1974	817	739	8.8	11.9	319	345	48.2	139.7
1975	991	534	6.8	12.7	348	319	60.0	188.1
1976	959	951	13.5	14.2	390	347	72.5	208.9
1977	1 033	1 083	17.5	16.2	325	247	53.5	216.6
1978	1 255	994	16.1	16.2	257	371	69.2	186.5
1979	1 181	907	15.2	16.8	275	318	69.3	217.9
1980	1 385	1 059	20.1	19.0	312	315	88.8	281.9
1981	1 321	908	21.4	23.6	231	216	64.1	296.8
1982	1 149	879	22.3	25.4	221	199	50.9	255.8
1983	893	817	23.0	28.2	163	218	54.0	247.7
1984	1 493	1 173	33.9	28.9	170	192	58.0	302.1
1985	1 419	1 152	39.7	34.5	212	212	83.5	393.9
1986	1 238	1 034	48.5	46.9	216	230	116.4	506.1
1987	1 349	1 046	61.0	58.3	249	257	149.9	583.7
1988	1 610	1 046	68.3	65.3	231	238	137.5	576.9
1989	1 690	1 001	72.6	72.5	243	252	165.0	655.0
1990	1 616	1 041	82.8	79.5	244	186	143.9	775.3
1991	1 466	977	82.0	84.0	192	175	124.1	708.8
1992	1 787	945	76.6	81.1	183	196	111.6	568.5
1993	1 795	962	79.4	82.6	187	182	98.9	543.3
1994	1 777	1 084	89.7	82.8	233	209	113.4	541.3
1995	1 980	1 075	98.0	91.1	204	221	132.1	598.0
1996	2 030	1 062	103.4	97.4	192	169	128.5	761.3
1997	2 233	1 350	137.2	101.6	245	208	150.3	724.1
1998	2 413	1 286	141.4	110.0	233	218	176.1	807.9
1999	1 976	1 051	135.0	128.4	182	157 s	117.7 s	747.2 s
2000	2 146	1 148	159.8	139.2	207	189 s	146.4 s	776.4 s
2001	2 019	915	144.2	157.6	207	188 s	165.8 s	880.2 s
2002	1 954	969	138.6	143.1	219	204 s	171.7 s	840.4 s
2003	2 006	868	104.6	120.4	173	164 s	112.2 s	685.9 s
2004	1 920	756	76.6	101.4	163	147 s	98.2 s	666.4 s
2005	2 030	714	71.4	100.0	177	168 s	130.6 s	775.6 s
2006	2 377	905	99.5	110.0	232	231 s	191.5 s	827.9 s
2007	na	874	100.1	114.5	na	346 s	276.0 s	797.4 s

a Ex mine. **b** Despatches. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

340 World ilmenite production, by country

	Australia a	India	Malaysia	Norway	Ukraine s	United States	Other s	Total s
	kt	kt	kt	kt	kt	kt	kt	kt
1961	169	174	109 b	311	135	710	1 217	2 825
1962	182	138	103 b	245 c	144	727	923	2 470
1963	205	26	149 b	242	153	806	1 079	2 660
1964	309	11	131 b	272	163	908	1 516	3 310
1965	448	30	124 b	284	174	879	1 591	3 530
1966	522	34	118 b	370	185	876	1 635	3 740
1967	554	42	91 b	427	197	874	1 565	3 750
1968	562	59	126 b	402	210	888	1 723	3 970
1969	721	48	133 b	491	224	845	1 728	4 190
1970	886	79	223 b	579	238	787	2 537	5 340
1971	814	140 c	156 b	595	254	618	2 559	5 150
1972	707	165 c	153 b	610	270	659	2 195	4 770
1973	720	185 c	154 b	750	288	735	2 247	5 090
1974	817	132 c	154 b	844	307	685 c	2 246	5 200
1975	991	140 c	112 b	516 c	327	632	1 990	4 725
1976	959	150 c	180 b	759	381	590	2 249	5 280
1977	1 033	185 c	185 b	823	399	576	1 988	5 200
1978	1 255	185 c	187 b	763	408	535	2 141	5 490
1979	1 181	160	187 b	820	408	580	2 162	5 520
1980	1 385	160	189 b	828	417	498	2 439	5 940
1981	1 321	189	173 b	656	426	462	2 954	6 200
1982	1 149	190	77 b	552	431	239	2 642	5 300
1983	893	180	223 b	544	435	235	1 777	4 300
1984	1 493	150	177 b	661	440	240	2 906	6 100
1985	1 419	143	247 b	736	445	240	3 756	7 000
1986	1 238	140	415	804	450	240	3 599	6 900
1987	1 349	140	509	852	454	240	4 496	8 200
1988	1 610	140 d	506 d	898 d	460	240 d	4 164	8 030
1989	1 690	160 d	520 d	930 d	460	240 d	5 116	9 140
1990	1 616	305 d	250 d	814 d	350	255 d	4 109	7 699
1991	1 466	270 d	200 d	625 d	350	220 d	3 641	6 773
1992	1 787	215 d	338 d	708 d	200	240 d	4 296	7 784
1993	1 795	260	279	713	180	240	4 030	7 497
1994	1 777	290	155	826	150	315	4 139	7 652
1995	1 980	290	179	833	180	330	4 201	7 993
1996	2 030	330	101	747	270	300	4 653	8 431
1997	2 233	305	167	558	162	270	4 815	8 510
1998	2 413	368	67	590	192	360	5 247	9 237
1999	1 976	395	100	590	230	389	5 091	8 764
2000	2 146	416	110	750	260	418	5 488	9 593
2001	2 019	457	170	750	319	437	5 908	10 063
2002	1 954	522	185	790	356	410	5 883	10 103
2003	2 006	632	175	850	420	474	5 622	10 180
2004	1 920	691	189	870	448	506	5 761	10 386
2005	2 030	619	223	816	470	511	6 359	11 028
2006	2 377	685	90	850	470	461	6 691	11 624
2007	na	715	50	870	585	351	7 164	12 075

a Includes leucoxene. **b** Exports to 1985. **c** Bureau of Mineral Resources estimate. **d** DEMA Pty Ltd estimates. **s** ABARE estimate. **na** Not available.
Sources: British Geological Survey, *World Mineral Statistics,* Keyworth, Nottingham, United Kingdom; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; Metal Bulletin, *Prices and Data,* Surrey, England; Mining Journal, *Mining Annual Review,* London; TZ Minerals International, *Mineral Sands Annual Review,* Surrey, England; TZ Minerals International, *Mineral Sands Report,* Surrey, England; US Department of the Interior, Bureau of Mines, *Mineral Commodity Summaries,* Washington DC; ABARE.

341 World rutile concentrate and titaniferous slag production, by country

	Rutile concentrate						Titaniferous slag a	
	Australia	Sierra Leone	South Africa	United States	Other s	Total s	Canada	South Africa
	kt	kt	kt	kt	kt	kt	kt	kt
1963	185	0	0	11	24	220	344	0
1964	185	0	0	7	22	214	494	0
1965	221	0	0	5	22	248	495	0
1966	251	0	0	5	22	278	476	0
1967	270	24 b	0	5	23	322	547	0
1968	293	14 b	0	2	24	333	610	0
1969	326	28 b	0	0	26	380	680	0
1970	371	44 b	0	0	25	440	766	0
1971	375	12	0	0	25	412	774	0
1972	313	0	0	0	28	341	835	0
1973	335	0	0	8 b	27	370	855	0
1974	319	0	0	6 b	26	351	845	0
1975	348	0	0	10 b	28	386	748	0
1976	390	0	0	8 b	26	424	812	0
1977	325	0	0	7	30	362	691	0
1978	257	0	20	4	35	316	848	100
1979	275	7	42	0	40	364	476	316
1980	312	47	48	10	38	456	875	379
1981	231	51	50	15	40	387	762	408
1982	221	48	47	15	33	364	653	420
1983	163	72	56	18	34	343	612	420
1984	170	91	56	20	33	371	726	417
1985	212	81	55	30 b	35	413	844	435
1986	216	97	60	30 b	37	440	850	435
1987	249	113	56	30 b	35	480	915	632
1988	231	126	55	25 s	38	475	1 025	700
1989	243	128	61	25 s	42	499	1 035	692
1990	244	144	60	29 s	39	516	1 046	672
1991	192	155	90	27 s	79	543	701	808
1992	183	149	95	29 s	65	521	753	884
1993	187	150	100	21	64	522	653	892
1994	233	144	90	24	56	547	765	772
1995	204	0	92	19	50	365	816	988
1996	192	0	108	32	55	387	954	1 065
1997	245	0	108	35	32	420	914	1 075
1998	233	0	108	35	45	421	1 033	1 083
1999	182	0	118	37	46	383	928	1 100
2000	207	0	123	38	78	442	893	1 090
2001	207	0	122	30	83	438	990	1 030
2002	219	0	134	22	82	455	864	975
2003	173	0	108	26	82	391	842	928
2004	163	0	110	23	82	378	829	1 018
2005	177	0	123	28	85	414	876	1 198
2006	232	74	132	11	83	532	950	1 234
2007	na	74	126	0	88	600	978	1 287

a Source changed to TZ Minerals International from 1991. **b** Bureau of Mineral Resources estimate. **s** ABARE estimate. **na** Not available.

Sources: British Geological Survey, *World Mineral Statistics,* Keyworth, Nottingham, United Kingdom; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; TZ Minerals International, *Mineral Sands Annual Review,* Surrey, England; TZ Minerals International, *Mineral Sands Report,* Surrey, England; US Department of the Interior, Bureau of Mines, *Mineral Commodity Summaries,* Washington DC.

342 Summary of Australian statistics for uranium

	Production a	Exports		
		Volume b	Value	Unit value
	t	t	$m	$/kg U_3O_8
1960-61	1 557	na	na	na
1961-62	1 362	na	na	na
1962-63	1 193	na	na	na
1963-64	367	na	na	na
1964-65	na	na	na	na
1965-66	na	na	na	na
1966-67	na	na	na	na
1967-68	na	na	na	na
1968-69	na	na	na	na
1969-70	na	na	na	na
1970-71	na	na	na	na
1971-72	na	na	na	na
1972-73	na	na	na	na
1973-74	na	na	na	na
1974-75	na	na	na	na
1975-76	484	na	na	na
1976-77	480	750	26.9	35.87
1977-78	696	1 452	87.0	59.92
1978-79	951	1 317	102.3	77.68
1979-80	1 837	1 210	98.4	81.32
1980-81	3 944	1 625	120.0	73.85
1981-82	5 968	5 460	415.0	76.01
1982-83	4 334	3 233	296.0	91.56
1983-84	5 836	3 259	312.1	95.77
1984-85	4 327	3 441	317.0	92.12
1985-86	4 450	3 210	296.0	92.21
1986-87	4 505	4 364	389.0	89.14
1987-88	4 193	4 552	411.0	90.29
1988-89	4 507	5 061	402.6	79.54
1989-90	4 089	4 812	314.8	65.42
1990-91	4 367	6 129	331.7	54.12
1991-92	4 329	4 729	244.8	51.76
1992-93	2 686	2 289	122.6	53.55
1993-94	2 733	3 992	193.3	48.42
1994-95	2 622	4 069	187.9	46.18
1995-96	5 088	5 286	241.8	45.75
1996-97	5 975	5 701	245.2	43.01
1997-98	5 788	6 415	288.2	44.93
1998-99	6 387	5 989	287.8	48.05
1999-00	8 217	8 025	366.6	45.68
2000-01	9 549	9 722	497.3	51.15
2001-02	7 823	7 367	360.7	48.96
2002-03	9 172	9 593	427.0	44.52
2003-04	9 569	9 099	364.5	40.05
2004-05	10 964	11 249	475.1	42.24
2005-06	9 974	10 253	545.8	53.24
2006-07	9 594	9 519	659.5	69.28
2007-08	10 151	10 139	886.6	87.45

a Tonnes of uranium oxide (U_3O_8). **b** Before 1983-84, exports are tonnes of concentrate; from 1983-84, exports are tonnes of U_3O_8. **na** Not available.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra.

343 World uranium production, by country a

	Australia	Canada	Gabon	Namibia	Niger	South Africa	United States	Total b
	kt	kt	kt	kt	kt	kt	kt	kt
1970	0.25	3.52	0.40	0.00	0.00	3.17	9.90	18.90
1971	0.00	3.83	0.54	0.00	0.43	3.22	9.40	19.10
1972	0.00	4.00	0.21	0.00	0.87	3.20	9.90	20.11
1973	0.00	3.71	0.40	0.00	0.95	2.74	10.20	20.00
1974	0.00	3.42	0.44	0.00	1.12	2.71	8.90	18.70
1975	0.00	3.56	0.80	0.00	1.31	2.49	8.90	19.35
1976	0.36	4.85	0.85	0.65	1.46	2.76	9.80	23.17
1977	0.36	5.79	0.91	2.34	1.61	3.36	11.50	28.58
1978	0.52	6.80	1.02	2.70	2.06	3.96	14.20	34.12
1979	0.71	6.82	1.10	3.84	3.62	4.80	14.40	38.34
1980	1.56	7.15	1.03	4.04	4.13	6.15	16.80	44.24
1981	2.92	7.72	1.02	3.97	4.36	6.13	14.80	44.20
1982	4.42	8.08	0.97	3.78	4.26	5.82	10.30	41.46
1983	3.21	7.14	1.01	3.72	3.43	6.06	8.20	36.99
1984	4.32	11.17	0.92	3.70	3.28	5.73	5.70	38.85
1985	3.21	10.88	0.94	3.40	3.18	4.88	4.30	34.87
1986	4.15	11.72	0.90	3.30	3.11	4.60	5.20	37.21
1987	3.78	12.44	0.80	3.50	2.97	3.96	5.00	36.96
1988	3.53	12.29	0.93	3.51	2.97	3.80	5.04	36.43
1989	3.66	11.32	0.87	3.08	2.96	2.94	5.32	34.09
1990	3.53	8.73	0.70	3.21	2.83	2.49	3.42	28.36
1991	3.78	8.16	0.54	2.45	2.96	1.71	3.06	26.99
1992	2.33	9.30	0.54	1.68	2.96	1.67	2.20	23.88
1993	2.24	9.12	0.68	1.65	2.92	1.69	1.23	23.48
1994	2.20	9.69	0.65	1.90	2.98	1.69	1.40	23.64
1995	3.70	10.52	0.63	2.01	2.97	1.42	1.36	26.22
1996	4.96	11.40	0.56	2.45	3.16	1.44	1.81	29.32
1997	5.48	11.17	0.47	2.91	3.50	1.10	1.81	29.72
1998	4.89	10.92	0.73	2.78	3.71	0.97	1.81	27.57
1999	5.98	8.21	0.29	2.69	2.91	0.93	1.77	24.15
2000	7.58	10.68	0.00	2.72	2.91	0.80	1.52	27.65
2001	7.72	12.52	0.00	2.24	2.92	0.87	1.01	28.42
2002	6.85	11.60	0.00	2.33	3.08	0.83	0.90	36.05
2003	7.57	10.46	0.00	2.04	3.16	0.77	0.77	35.49
2004	8.98	11.60	0.00	3.04	3.19	0.75	0.88	40.19
2005	8.98	11.63	0.00	3.15	3.32	0.67	1.17	41.94
2006	7.60	9.86	0.00	3.07	3.44	0.53	1.81	39.60
2007	8.60	9.85	0.00	3.80	3.63	0.75	2.00	43.33

a Uranium (U); excludes current and former centrally planned economies. **b** Includes other Western producers not listed.

Sources: International Atomic Energy Agency, *Uranium: Resources, Production and Demand,* Vienna; Nuexco, *Annual Review,* Denver, Colorado; World Nuclear Association.

344 World uranium consumption, by country a

	Canada	France	Germany b	Japan	United Kingdom	United States	Other	Total
	kt	kt	kt	kt	kt	kt	kt	kt
1980	1.00	3.70	2.76	4.00	1.90	7.40	3.59	24.35
1981	1.10	4.40	1.95	4.70	1.30	8.30	4.84	26.59
1982	1.30	6.00	3.20	4.70	2.20	11.80	6.90	36.10
1983	1.40	6.50	2.70	3.50	1.50	8.90	5.85	30.35
1984	1.30	6.00	3.40	5.00	1.50	10.50	6.50	34.20
1985	1.30	6.00	3.20	4.70	2.20	11.80	6.90	36.10
1986	1.40	6.20	3.30	4.80	1.50	11.85	7.22	36.27
1987	1.60	6.20	3.30	6.00	1.55	11.15	7.70	37.50
1988	1.70	6.50	3.30	6.40	1.70	14.19	6.77	40.56
1989	1.80	7.20	3.30	6.60	1.90	14.50	7.39	42.69
1990	1.90	7.20	3.30	6.90	2.00	11.40	7.64	40.34
1991	1.90	7.30	3.30	7.10	2.00	16.00	8.30	45.90
1992	1.90	7.80	3.20	7.60	2.33	17.30	7.31	47.44
1993	1.90	7.90	3.20	8.10	2.04	17.30	9.34	49.77
1994	1.90	8.90	3.00	7.70	2.43	15.60	9.90	49.43
1995	1.90	8.90	3.30	7.70	2.51	18.40	9.74	52.45
1996	1.80	8.90	3.20	8.70	2.62	17.40	9.81	52.43
1997	1.80	8.60	2.90	7.50	2.62	21.30	8.41	53.13
1998	1.20	8.20	3.10	7.81	2.36	17.70	12.33	52.69
1999	1.30	8.20	3.10	9.29	2.36	18.10	12.19	54.54
2000	1.80	8.88	3.35	7.50	2.25	20.57	12.84	57.19
2001	1.80	8.57	3.20	11.10	2.25	18.42	12.32	57.66
2002	1.40	8.57	3.20	7.84	1.93	22.70	13.23	58.87
2003	1.70	8.57	3.20	8.38	1.76	22.80	13.32	59.73
2004	1.70	7.19	3.00	7.14	1.91	24.15	22.24	67.32
2005	1.70	7.19	2.90	8.67	1.50	22.88	22.01	66.84
2006	1.80	7.19	3.71	7.94	2.17	22.89	20.81	66.50
2007	1.90	9.00	3.49	8.79	1.90	22.83	21.21	69.11

a Annual reactor related requirements; excludes current and former centrally planned economies. **b** West Germany until 1991; unified Germany from 1992.

Note: Uranium: Resources, production and Demand publication is only released every two years.

Source: International Atomic Energy Agency, *Uranium: Resources, Production and Demand*, Vienna.

345 Uranium prices a

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Av.
1974	7.70	7.90	8.00	9.00	9.50	10.50	11.50	12.00	12.50	14.00	14.75	15.00	11.03
1975	16.00	16.00	18.00	20.00	21.00	23.00	24.70	26.00	26.00	28.50	30.00	35.00	23.68
1976	35.20	37.00	39.25	40.00	40.00	40.00	40.00	40.40	41.00	41.00	41.50	41.00	39.70
1977	41.35	41.50	41.60	41.60	42.00	42.25	42.25	42.25	42.40	42.75	43.20	43.20	42.20
1978	42.90	43.25	43.25	43.25	43.40	43.40	43.40	43.10	43.25	43.00	43.25	43.25	43.23
1979	43.25	43.25	43.25	43.25	43.25	43.00	42.70	42.70	42.20	42.20	41.00	40.75	42.57
1980	40.00	38.00	35.00	32.00	32.00	31.50	31.50	30.00	28.50	28.00	28.00	27.00	31.79
1981	25.00	25.00	25.00	25.00	25.00	24.25	23.50	23.50	23.50	23.50	23.50	23.50	24.19
1982	23.00	23.00	22.50	20.75	20.50	19.25	18.25	17.00	17.00	17.50	19.75	20.25	19.90
1983	21.50	21.75	22.25	23.25	23.50	23.50	24.00	24.00	24.00	23.50	22.50	22.00	22.98
1984	20.50	17.50	17.00	17.75	17.75	17.50	17.50	17.50	17.50	16.00	15.50	15.25	17.27
1985	15.00	15.00	15.00	14.25	15.00	15.00	15.75	16.00	16.00	16.50	16.75	17.00	15.60
1986	17.00	17.00	17.25	17.25	17.00	17.00	17.00	17.00	17.00	17.00	16.75	16.75	17.00
1987	16.65	16.75	17.00	17.00	17.00	17.20	17.20	17.00	16.75	16.75	16.75	16.50	16.88
1988	16.50	16.25	16.00	16.00	15.50	15.25	14.55	14.10	13.85	13.20	12.30	12.00	14.63
1989	11.50	11.25	10.75	10.20	9.75	9.65	9.65	9.60	9.60	9.40	9.30	9.00	9.97
1990	8.90	8.80	8.80	8.90	9.35	11.00	11.75	11.50	10.50	8.50	9.50	9.65	9.76
1991	9.20	9.40	9.40	9.00	9.25	9.10	8.75	9.00	8.25	7.50	7.40	8.75	8.75
1992	7.90	8.00	7.90	7.90	7.70	7.90	7.90	8.10	8.60	10.25	10.50	10.00	8.55
1993	9.80	10.10	10.20	10.35	10.10	10.30	9.90	10.10	10.30	10.30	10.00	9.90	10.11
1994	9.50	9.50	9.50	9.40	9.25	9.25	9.40	9.20	9.10	9.20	9.50	9.60	9.37
1995	9.70	10.35	11.00	11.50	11.75	11.75	11.90	11.90	11.80	11.80	11.80	12.25	11.46
1996	12.90	15.25	15.90	16.15	16.50	16.60	16.50	16.40	15.90	15.50	15.00	14.70	15.61
1997	14.25	13.75	13.00	12.25	11.50	10.70	10.60	10.30	10.85	12.50	12.75	12.15	12.05
1998	12.00	11.00	10.70	10.80	10.90	10.90	10.50	10.25	9.90	9.25	8.75	8.75	10.31
1999	10.50	10.50	10.85	10.85	10.65	10.40	10.30	10.10	9.90	9.70	9.70	9.60	10.25
2000	9.50	9.40	9.20	9.00	8.45	8.15	8.05	7.80	7.45	7.25	7.10	7.10	8.20
2001	7.25	7.90	8.20	8.60	8.90	8.90	8.90	9.10	9.30	9.45	9.50	9.60	8.80
2002	9.70	9.90	9.90	9.90	9.90	9.90	9.85	9.85	9.75	9.90	9.90	10.20	9.89
2003	10.20	10.20	10.10	10.75	11.00	10.90	10.90	11.30	12.20	12.75	13.75	14.50	11.55
2004	15.50	16.50	17.50	17.60	17.85	18.50	18.50	19.25	20.00	20.25	20.50	20.70	18.55
2005	21.00	21.75	22.50	24.00	29.00	29.00	29.50	30.20	31.25	33.25	34.50	36.25	28.52
2006	37.50	38.50	40.50	41.50	43.00	45.50	47.50	48.50	54.00	60.00	63.00	72.00	49.29
2007	75.00	85.00	95.00	113.00	125.00	136.00	120.00	90.00	85.00	85.00	93.00	90.00	99.33
2008	78.00	73.00	71.00	65.00	60.00	59.00	64.50	64.50	53.00	45.00	na	na	na

a Restricted exchange value after 1993, using Nuexco's exchange value up to 1996 and an average of four prices after 1996, US$/lb U_3O_8. **na** Not available.

Sources: TradeTech, *The Nuclear Review*, Denver, Colorado (previously Nuexco, *Monthly Report*); Ux Consulting.

346 Nuclear power reactors in operation

	2004 Reactors in operation a		2005 Reactors in operation a		2006 Reactors in operation a		2007 Reactors in operation a	
	No. of Units	Capacity MW(e) b	No. of Units	Capacity MW(e) b	No. of Units	Capacity MW(e) b	No. of Units	Capacity MW(e) b
Argentina	2	935	2	935	2	935	2	935
Armenia	1	376	1	376	1	376	1	376
Belgium	7	5 760	7	5 801	7	5 728	7	5728
Brazil	2	1 901	2	1 901	2	1 901	2	1901
Bulgaria	4	2 722	4	2 722	4	2 722	2	1906
Canada	17	12 113	18	12 595	18	12 595	18	12595
China	9	6 587	9	6 587	10	7 587	11	8587
Czech Republic	6	3 548	6	3 472	6	3 472	6	3472
Finland	4	2 656	4	2 676	4	2 676	4	2969
France	59	63 363	59	63 474	59	63 473	59	63363
Germany	18	20 643	17	20 303	17	20 303	17	20339
Hungary	4	1 755	4	1 755	4	1 755	4	na
India	14	2 550	15	2 993	16	3 483	17	3779
Japan	54	45 464	55	47 700	55	47 700	55	47577
Korea, Rep. of	19	15 850	20	16 840	20	16 840	20	17533
Lithuania	2	2 370	1	1 185	1	1 185	1	1185
Mexico	2	1 310	2	1 310	2	1 310	2	1310
Netherlands	1	449	1	452	1	452	1	485
Pakistan	2	425	2	425	2	425	2	400
Romania	1	655	1	655	1	655	2	1310
Russian Federation	30	20 793	31	21 743	31	21 743	31	21743
South Africa	2	1 800	2	1 842	2	1 842	2	1842
Slovakia	6	2 442	6	2 472	6	2 472	5	2064
Slovenia	1	656	1	676	1	696	1	696
Spain	9	7 584	9	7 584	8	7 442	8	7442
Sweden	11	9 451	10	8 904	10	8 938	10	9016
Switzerland	5	3 200	5	3 220	5	3 220	5	3220
United Kingdom	27	12 052	23	11 852	19	10 982	19	11035
Ukraine	13	11 207	15	13 168	15	13 168	15	13168
United States	104	98 298	103	97 838	103	98 054	104	99049
Total	442	363 819	441	368 340	438	369 014	439	371462

a At end of year. **b** Annual electricity generating capacity in megawatts.

Source: International Atomic Energy Agency, *annual press release: IAEA releases nuclear power statistics,* Vienna; World Nuclear Association.

347 Summary of Australian statistics for zinc

	Production			Exports d		
	Mine a	Refined b	Consumption c	Volume	Value	Price e
	kt	kt	kt	kt	$m	$/t
1964	350	189	110	184	37	284.2
1965	355	202	98	194	39	286.0
1966	375	198	90	241	47	270.5
1967	407	198	104	254	43	260.7
1968	416	198	102	267	44	262.0
1969	510	253	117	331	59	277.8
1970	487	268	115	390	71	295.0
1971	453	266	109	359	68	314.8
1972	507	304	114	346	80	339.8
1973	480	306	121	418	102	385.9
1974	464	284	120	374	139	543.2
1975	510	200	82	295	117	627.0
1976	462	249	86	388	159	655.7
1977	492	256	81	327	148	657.7
1978	473	295	92	465	157	533.6
1979	529	310	102	382	165	712.5
1980	495	306	100	481 f	251 f	713.1
1981	518	300	97	406	235	798.5
1982	665	296	81	521	323	849.0
1983	699	298	83	645	392	952.3
1984	677	302	77	661	469	1 187.7
1985	759	289	87	633	515	1 255.2
1986	712	303	81	662	489	1 242.2
1987	778	310	82	663	526	1 249.3
1988	760	302	90	674	631	1 560.7
1989	803	294	88	670	962	2 298.9
1990	933	303	82	825	1 159	2 094.7
1991	1 023	324	71	915	900	1 569.8
1992	1 019	332	71	995	1 135	1 816.9
1993	990	316	75	987	851	1 568.2
1994	955	323	79	978	785	1 499.9
1995	937	320	77	907	797	1 559.7
1996	1 070	326	73	983	808	1 478.4
1997	1 011	307	81	965	953	1 889.8
1998	1 063	311	93	1 002	1 025	1 806.6
1999	1 162	344	96	1 109	1 105	1 752.6
2000	1 419	493	85	1 333	1 718	2 046.7
2001	1 517	556	83	1 484	1 669	1 921.2
2002	1 469	566	87	1 544	1 485	1 614.4
2003	1 479	553	85	1 466	1 316	1 431.5
2004	1 335	470	82	1 324	1 232	1 609.3
2005	1 367	457	76	1 444	1 765	1 993.3
2006	1 362	463	86	1 283	3 792	4 342.4
2007	1 514	502	81	1 460	4 191	4 381.5

a Metal content. **b** Excludes secondary (scrap) and zinc dust production. **c** Refined metal only. **d** Quantities refer to the total metallic content of all ores and concentrates, intermediate products and refined metal. The value of zinc contained in other mine and smelter products (for example, zinc in lead concentrates) is included in the value of the product in which it is exported. **e** EZ Industries, Prime Western, 98.5 per cent purity. Before 1968, Prime Western grade zinc at Cockle Creek. **f** Zinc export code classifications changed substantially between 1979 and 1980, creating a break in the continuity of the series.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

348 Australian supply and disposal of zinc

	Unit	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Production									
Mine **a**	kt	1 483	1 490	1 529	1 355	1 352	1 380	1 375	1 571
Refined									
Primary	kt	534	572	570	502	464	446	496	507
Secondary **b**	kt	5	6	6	6	6	6	6	6
Exports									
Ores and concentrates	kt	1 903	1 849	1 913	1 844	1 953	1 821	1 948	2 322
	$m	977	735	670	677	852	1 542	2 590	2 033
Refined metal	kt	452	496	486	396	397	388	374	411
	$m	905	794	757	557	614	998	1 707	1 319
Consumption **c**	kt	81	88	86	84	79	79	80	80
Export unit value									
Ores and concentrates	A$/t	513.5	397.5	350.3	366.9	436.2	846.7	1 329.7	875.7
Refined metal	A$/t	2 000.5	1 600.8	1 558.2	1 408.6	1 549.1	2 573.2	4 561.9	3 211.4

a Metal content. **b** Includes remelted zinc and direct use of secondary materials. **c** Refined metal only.
Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra.

349 Volume of Australian exports of zinc, by destination **a**

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Ores and concentrates **b**								
Belgium	40	27	89	64	45	15	9	29
China	5	94	63	116	131	103	104	300
Germany	22	33	28	27	32	6	22	2
India	14	0	18	19	34	18	28	16
Italy	33	21	67	21	5	na	na	na
Japan	217	216	185	202	181	184	171	133
Korea, Rep. of	173	252	173	186	234	278	205	158
Netherlands	238	188	219	225	230	207	216	162
Thailand	52	32	25	24	na	19	24	52
United Kingdom	31	42	65	5	na	na	na	0
Other	65	119	84	118	103	101	107	150
Total	890	1 024	1 016	1 007	995	931	886	1 002
Metal								
Bangladesh	12	18	22	16	2	2	2	2
Chinese Taipei	72	63	61	42	39	74	79	76
Hong Kong, China	74	87	92	105	119	147	118	85
India	9	13	12	14	5	11	13	6
Indonesia	39	32	33	31	18	17	15	14
Malaysia	33	33	30	19	36	90	15	18
Netherlands	3	18	21	33	na	na	10	2
Saudi Arabia	11	15	21	24	17	8	3	16
Thailand	4	9	15	7	6	5	5	5
United States	124	89	58	8	8	na	15	0
Other	46	80	118	162	75	109	82	180
Total	427	457	483	461	325	463	357	404

a Excluding slags, residues and scrap. **b** Metal content. **na** Not available.
Source: ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; International Lead–Zinc Study Group, *Lead and Zinc Statistics,* Lisbon, Portugal.

350 World production, consumption, stocks and prices of zinc

	Production						
		Refined metal					
	Mine a	Primary	Secondary b	Total	Consumption c	Stocks b	Price d
	kt	kt	kt	kt	kt	kt	US$/t
1962	3 600	3 322	155	3 477	3 438	477	186.5
1963	3 660	3 426	167	3 593	3 644	392	211.8
1964	4 083	3 683	177	3 860	3 986	390	324.0
1965	4 352	3 848	215	4 063	4 099	433	310.6
1966	4 550	4 045	242	4 287	4 292	461	280.4
1967	4 958	4 142	222	4 364	4 323	479	271.9
1968	5 113	4 613	224	4 837	4 701	452	261.7
1969	5 472	5 073	205	5 278	5 092	519	285.2
1970	5 590	4 975	259	5 234	5 013	682	294.5
1971	5 675	4 862	248	5 110	5 164	614	310.0
1972	5 866	5 247	269	5 516	5 679	586	378.4
1973	6 070	5 543	283	5 826	6 195	457	846.8
1974	6 129	5 720	274	5 994	6 000	759	1 237.5
1975	6 176	5 219	264	5 483	5 062	1 185	746.0
1976	6 249	5 545	266	5 811	5 779	1 140	711.7
1977	6 567	5 710	279	5 989	5 857	1 194	590.0
1978	6 401	5 801	237	6 038	6 329	833	593.3
1979	6 299	6 169	287	6 456	6 444	868	741.2
1980	6 108	5 958	285	6 243	6 289	787	761.3
1981	6 004	5 969	318	6 287	6 199	875	859.6
1982	6 275	5 701	355	6 056	6 043	800	745.7
1983	6 289	6 016	368	6 384	6 370	668	765.5
1984	6 523	6 327	351	6 678	6 539	626	891.0
1985	6 651	6 545	325	6 870	6 532	606	763.9
1986	6 534	6 085	295	6 380	6 747	615	753.1
1987	6 885	6 330	293	6 623	6 959	568	816.2
1988	6 714	6 579	299	6 878	6 848	496	1 240.5
1989	6 785	6 426	368	6 794	6 726	572	1 719.6
1990	5 166	6 296	395	6 724	6 819	534	1 520.0
1991	7 214	6 427	428	6 868	6 870	650	1 116.0
1992	7 208	6 605	425	6 957	6 532	989	1 240.0
1993	6 758	6 755	455	7 169	6 588	1 474	961.0
1994	6 812	6 700	467	7 131	6 954	1 669	998.0
1995	6 982	6 850	497	7 359	7 499	1 170	1 031.0
1996	7 296	6 919	524	7 443	7 528	913	1 025.0
1997	7 337	7 283	500	7 783	7 760	901	1 313.0
1998	7 569	7 503	518	8 021	7 883	762	1 023.0
1999	8 065	7 816	552	8 368	8 495	734	1 076.3
2000	8 839	8 382	599	8 981	9 003	662	1 128.4
2001	8 933	8 599	622	9 221	8 924	946	885.5
2002	8 892	9 082	628	9 710	9 375	1 095	778.9
2003	9 520	9 281	593	9 874	9 843	1 158	828.0
2004	9 733	9 801	552	10 353	10 639	1 039	1 047.4
2005	10 088	9 706	523	10 229	10 635	828	1 381.9
2006	10 463	10 107	551	10 658	10 979	548	3 276.0
2007	11 158	10 777	576	11 353	11 342	545	3 243.0

a Metal content. **b** Excludes Former Soviet Union, Eastern Europe and China. **c** Refined primary metal only. **d** Average London Metal Exchange cash settlement price, registered brands, minimum 98 per cent purity.

Sources: BMR, *Australian Mineral Industry Annual Review,* AGPS, Canberra; International Lead–Zinc Study Group, *Lead and Zinc Statistics,* Lisbon, Portugal; Metallgesellschaft AG, *Metallstatistik,* Frankfurt; London Metal Exchange.

351 World zinc mine production, by region and country [a]

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	6	7	5	2	0	3	3	0
Morocco	105	89	91	69	87	128	95	51
Namibia	40	37	41	108	202	232	208	196
South Africa	63	61	64	41	32	32	34	31
Tunisia	41	41	37	38	31	19	3	3
Total	256	236	237	258	352	414	343	286
Americas								
Argentina	35	40	37	30	27	30	35	27
Bolivia	151	145	142	145	147	159	165	194
Brazil	100	111	136	153	159	171	180	194
Canada	1 002	1 065	916	788	791	667	638	623
Chile	31	33	36	33	28	29	32	36
Honduras	43	48	46	44	41	43	38	39
Mexico	393	429	446	414	426	476	481	452
Peru	910	1 056	1 219	1 369	1 209	1 202	1 202	1 444
United States	852	842	784	768	739	720	727	803
Total	3 517	3 769	3 762	3 744	3 568	3 497	3 498	3 835
Asia								
China	1 780	1 572	1 624	2 029	2 391	2 525	2 837	3 048
India	208	222	234	305	340	446	509	558
Iran	102	105	121	111	135	167	166	75
Japan	64	45	43	45	48	41	7	0
Kazakhstan	322	320	376	392	404	405	451	446
Korea, Dem. Rep. of	34	28	32	52	62	65	85	95
Korea, Rep. of	12	5	na	na	na	na	na	0
Thailand	27	24	25	31	40	43	42	42
Turkey	48	36	43	40	39	56	59	71
Viet Nam	22	32	42	45	40	48	45	45
Total	2 623	2 400	2 546	3 057	3 507	3 809	4 246	4 489
Australia	1 379	1 476	1 444	1 447	1 298	1 329	1 338	1 514
Europe								
Bulgaria	10	11	14	12	11	13	6	10
Finland	16	20	35	39	37	41	41	39
Greece	17	32	35	3	na	4	16	21
Ireland	263	298	253	419	438	429	426	401
Macedonia	25	20	10	4	na	na	8	20
Poland	157	153	152	152	140	136	116	124
Romania	27	29	22	22	19	14	16	1
Russian Federation	163	164	162	159	162	186	178	177
Spain	204	161	70	15	na	na	na	na
Sweden	177	159	149	188	199	216	211	214
Total	1 063	1 052	903	1 013	1 007	1 042	1 038	1 034
Total	8 839	8 933	8 892	9 520	9 733	10 088	10 463	11 158

a Recovered metal zinc content by analysis of zinc ores and concentrates, plus the zinc content of other ores and concentrates known to be intended for zinc recovery. **na** Not available.

Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

352 World zinc metal production, by region and country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	26	26	34	35	33	37	36	27
South Africa	103	109	111	112	105	104	90	101
Total	129	135	147	197	260	274	260	279
Americas								
Argentina	36	40	39	39	35	41	40	40
Brazil	192	193	255	258	266	267	272	265
Canada	780	661	793	761	805	723	824	802
Mexico	235	304	306	320	337	336	285	320
Peru	200	190	170	202	196	164	175	162
United States	371	329	339	350	354	350	252	278
Total	1 814	1 717	1 903	1 930	1 993	1 881	1 848	1 867
Asia								
China	1 957	2 038	2 155	2 319	2 720	2 772	3 207	3 743
India	204	234	248	280	272	302	415	459
Iran	47	65	82	84	96	140	139	125
Japan	654	644	640	651	635	638	614	598
Kazakhstan	262	277	286	279	317	357	365	358
Korea, Dem. Rep. of	37	31	34	55	65	57	51	36
Korea, Rep. of	477	508	608	645	669	647	667	691
Thailand	101	105	105	107	103	93	84	99
Uzbekistan	34	35	30	30	30	45	50	68
Total	3 774	3 936	4 189	4 450	4 906	5 058	5 602	6 187
Australia	494	556	567	553	474	457	466	502
Europe								
Belgium	264	256	239	244	257	222	238	240
Bulgaria	84	88	82	86	102	95	95	100
Finland	223	249	235	266	285	282	282	306
France	318	329	334	253	260	209	120	125
Germany	357	357	378	388	358	335	317	295
Italy	170	179	176	123	118	121	109	102
Macedonia	58	52	56	28	na	na	na	0
Netherlands	217	206	203	223	225	228	238	219
Norway	138	145	145	142	140	148	161	157
Poland	173	175	159	154	156	137	134	142
Romania	52	52	38	51	52	53	50	58
Russian Federation	242	250	257	253	241	211	248	263
Spain	391	437	503	519	523	500	507	509
United Kingdom	76	90	98	14	na	na	na	na
Other	7	12	1	0	3	18	15	na
Total	2 770	2 877	2 904	2 744	2 720	2 559	2 514	2 518
Total	8 981	9 221	9 710	9 874	10 353	10 229	10 658	11 353

a Total production by smelters and refineries of zinc in marketable form or used directly for alloying, including production on toll in the reporting country, regardless of the type of source material. Remelted zinc and zinc dust are excluded. **na** Not available.
Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

353 Volume of world zinc trade, by country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Ores and concentrates b								
Australia	890	1 024	1 016	1 007	955	931	886	1 002
Canada	311	428	409	258	228	155	109	129
China	70	7	2	na	na	na	na	na
Ireland	257	305	249	417	445	410	426	393
Mexico	138	117	131	105	62	155	139	107
Peru	620	747	906	900	879	933	920	1 125
Sweden	169	130	140	150	188	185	205	201
United States	523	698	827	822	746	788	827	820
Metal								
Australia	427	457	483	461	325	463	357	404
Belgium	99	90	107	110	138	11	13	22
Canada	603	495	598	591	614	527	629	614
China	561	544	472	451	224	123	325	276
Finland	168	175	189	212	236	235	233	260
CIS	254	236	226	147	na	na	na	na
France	112	127	143	110	115	80	32	29
Korea, Rep. of	177	209	261	317	320	261	215	257
Mexico	130	151	161	181	189	194	148	197
Netherlands	223	284	197	421	285	320	368	323
Norway	117	113	133	126	127	135	138	131
Peru	125	121	127	137	113	84	106	90
Spain	96	94	79	246	295	334	268	220
Imports								
Ores and concentrates b								
Belgium	442	412	409	571	704	596	577	550
Canada	208	140	276	397	273	195	278	282
China	39	384	393	373	306	284	419	907
Finland	216	204	218	218	240	250	279	326
CIS	141	92	70	60	na	na	na	na
France	318	287	279	241	229	222	125	129
Germany	156	175	176	186	240	201	157	179
Italy	158	156	141	96	125	110	88	98
Japan	531	575	559	544	563	530	595	559
Korea, Rep. of	480	537	582	616	627	642	654	667
Netherlands	213	152	38	214	204	242	265	180
Spain	283	344	451	537	459	545	575	629
United Kingdom	160	108	115	8	0	0	0	0
Metal								
Belgium	237	233	237	222	269	48	73	209
Chinese Taipei	294	277	304	332	344	309	286	229
France	129	127	98	115	103	143	162	165
Germany	251	260	231	253	249	246	313	315
Italy	213	176	202	226	273	261	229	315
Japan	81	64	17	41	42	46	41	53
Korea, Rep. of	130	97	115	108	72	59	60	54
Netherlands	172	178	138	182	220	202	287	311
Singapore	158	204	142	68	18	12	na	54
United Kingdom	119	111	106	174	142	139	123	135
United States	923	827	878	792	868	700	895	758

a Metal content. **b** Metal content of zinc ores and concentrates only. **na** Not available.

Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

354 World zinc consumption, by region and country a

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	10	11	11	9	9	12	14	13
Egypt	17	16	17	16	16	16	16	17
Kenya	12	12	11	14	14	14	14	14
Morocco	10	12	12	5	14	13	12	15
Nigeria	8	9	9	12	12	12	12	12
South Africa	92	89	95	86	96	103	99	108
Tunisia	5	4	2	3	5	5	4	4
Other Africa	16	16	28	28	28	28	28	28
Total	170	169	185	173	194	203	199	211
Americas								
Argentina	38	36	37	32	46	49	50	52
Brazil	188	198	216	215	239	210	238	248
Canada	176	180	192	185	189	175	181	173
Chile	10	12	9	10	11	10	11	11
Colombia	21	20	21	20	23	23	25	23
Mexico	212	210	225	236	240	244	250	250
Peru	75	67	71	61	80	61	69	74
United States	1 348	1 179	1 217	1 152	1 251	1 077	1 131	1 051
Venezuela	12	11	12	12	16	16	16	16
Other America	22	22	23	26	28	28	28	28
Total	2 102	1 935	2 023	1 949	2 123	1 893	1 999	1 926
Asia								
Bangladesh	44	48	51	52	50	49	50	50
China	1 350	1 500	1 750	2 155	2 690	3 037	3 200	3 588
Hong Kong, China	6	6	5	5	5	5	5	5
India	270	286	310	339	362	394	428	460
Indonesia	87	88	85	79	87	83	74	81
Iran	58	62	69	70	72	76	80	85
Israel	11	11	13	10	7	11	12	12
Japan	676	633	603	619	623	602	594	588
Kazakhstan	34	34	35	35	35	35	35	35
Korea Dem. Rep. of	15	12	10	6	5	5	5	4
Korea, Rep. of	438	401	476	482	445	503	534	511
Malaysia	54	50	62	65	68	67	68	70
Pakistan	25	25	24	25	24	24	25	25
Philippines	27	33	32	19	20	12	13	12
Saudi Arabia	16	16	14	23	17	33	39	42
Singapore	17	15	16	16	16	16	17	17
Chinese Taipei	294	276	302	330	342	306	282	226
Thailand	90	103	107	116	129	117	104	105
Turkey	92	78	99	122	144	142	141	129
Uzbekistan	8	8	8	8	8	7	7	7
Viet Nam	36	40	40	45	45	47	44	44
Other Asia East	1	1	1	1	2	2	2	2
Other Asia West	29	30	32	35	36	25	25	25
Total	3 678	3 756	4 147	4 660	5 235	5 599	5 787	6 127

Continued

354 World zinc consumption, by region and country [a] Continued

	2000	2001	2002	2003	2004	2005	2006	2007
	kt	kt	kt	kt	kt	kt	kt	kt
Europe								
Austria	47	48	48	49	48	48	50	50
Belgium	383	374	352	350	365	345	360	387
Bosnia and Herzegovina	8	8	7	5	5	5	5	4
Bulgaria	17	13	14	28	11	12	13	8
Croatia	10	9	9	8	8	8	8	7
Czech Republic	21	20	20	21	21	20	24	18
Denmark	12	11	11	11	11	10	11	10
Finland	47	52	53	57	52	47	52	46
France	311	327	290	291	298	275	285	267
Germany	532	549	526	539	514	511	564	534
Greece	21	26	22	20	29	17	14	27
Hungary	15	15	16	16	15	15	14	15
Ireland	2	3	5	3	3	3	6	6
Italy	385	348	374	348	389	395	313	396
Macedonia	10	10	9	8	8	7	7	7
Netherlands	106	108	114	114	115	115	116	117
Norway	23	25	29	18	14	12	25	27
Poland	103	96	88	102	103	79	100	103
Portugal	12	12	13	18	13	12	18	16
Romania	12	19	18	16	25	23	26	22
Russian Federation	137	150	153	189	163	171	199	207
Serbia	10	10	10	11	8	8	8	8
Slovak Republic	28	28	30	30	30	32	37	26
Slovenia	17	15	12	13	14	14	17	16
Spain	203	228	220	226	248	216	225	215
Sweeden	40	27	33	31	42	42	54	51
Switzerland	15	19	20	11	14	12	11	14
Ukraine	65	65	65	65	65	50	50	45
United Kingdom	210	191	185	188	185	175	172	174
Yugoslavia	10	10	0	0	0	0	0	0
Other	11	12	8	8	8	8	8	8
Total	2 823	2 828	2 754	2 794	2 824	2 687	2 792	2 835
Oceania								
Australia	217	222	249	254	250	239	255	231
New Zealand	14	16	17	13	13	14	13	13
Total	231	238	266	267	263	253	268	244
World Total	8 891	8 793	9 377	9 843	10 639	10 635	11 044	11 342
Western World	7 036	6 785	7 118	7 115	7 417	7 086	7 340	7 300

a Total consumption of refined zinc including zinc used directly for the production of zinc alloys, regardless of the type of source material from which produced, i.e. ores, concentrates, residues, slags or scrap. Remelted zinc and zinc dust are excluded.

Source: International Lead–Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

355 Summary of Australian statistics for zircon and monazite

	Zircon concentrate				Monazite concentrate			
	Production a	Exports b			Production a	Exports		
	Volume	Volume	Value	Unit value	Volume	Volume	Value	Unit value
	kt	kt	$m	$/t	kt	kt	$m	$/t
1963	181	177	4.4	24.9	2.1	2.4	0.2	79.2
1964	181	196	5.1	26.0	2.1	2.1	0.2	85.7
1965	223	213	6.8	31.9	2.3	2.3	0.2	95.7
1966	232	207	9.0	43.5	2.0	2.1	0.2	114.3
1967	290	243	10.7	44.0	2.4	1.9	0.2	126.3
1968	292	262	11.0	42.0	2.1	2.6	0.4	134.6
1969	363	306	12.4	40.5	3.9	2.7	0.3	125.9
1970	389	380	13.9	36.6	4.4	4.8	0.6	129.2
1971	406	366	13.3	36.3	4.4	4.6	0.7	145.7
1972	357	386	13.8	35.8	5.1	4.6	0.6	121.7
1973	375	431	15.9	36.9	4.2	5.1	0.7	127.5
1974	368	384	32.2	83.9	3.6	3.8	0.5	142.1
1975	382	299	58.2	194.6	4.5	2.5	0.4	172.0
1976	420	345	54.5	158.0	5.3	3.2	0.5	165.6
1977	398	323	36.2	112.1	9.4	7.5	1.2	161.3
1978	392	390	29.4	75.4	15.0	11.6	2.4	205.2
1979	445	479	33.1	69.1	16.3	13.2	3.1	233.3
1980	492	502	35.1	69.9	14.1	10.3	3.4	329.1
1981	434	444	37.0	83.3	13.3	14.0	5.4	382.1
1982	462	405	43.1	106.4	9.6	15.3	6.1	400.0
1983	382	380	44.7	117.6	15.1	17.7	7.2	406.8
1984	458	438	51.8	118.3	16.3	18.1	7.6	421.5
1985	501	496	63.9	128.8	18.7	18.0	9.2	512.2
1986	452	446	74.5	167.0	14.8	14.1	9.2	651.1
1987	466	465	108.4	233.1	12.8	10.5	7.7	735.2
1988	480	464	189.6	409.0	12.2	9.7	7.6	787.5
1989	479	474	303.7	641.2	12.8	15.9	13.6	855.3
1990	443	332	205.0	616.7	11.1	11.1	9.9	894.0
1991	288	324	136.0	419.4	6.6	8.7	3.3	383.2
1992	355	310	71.6	230.8	5.6	5.7	1.7	300.0
1993	413	348	62.9	180.7	6.5	6.5	1.9	296.5
1994	511	504	124.1	246.2	2.3	2.7	0.8	290.3
1995	505	514	190.1	370.2	0.2	0.0	0.0	na
1996	460	424	248.3	585.8	0.0	0.0	0.0	na
1997	416	342	204.9	599.4	0.0	0.0	0.0	na
1998	401	399	225.9	566.6	0.0	0.0	0.0	na
1999	359	370 s	174.4 s	471.6 s	0.0	0.0	0.0	na
2000	374	372 s	198.0 s	532.2 s	0.0	0.0	0.0	na
2001	393	391 s	262.5 s	671.2 s	0.0	0.0	0.0	na
2002	412	407 s	279.8 s	687.6 s	0.0	1.6	0.4	249.8
2003	462	452 s	261.3 s	578.1 s	0.0	0.0	0.0	na
2004	441	437 s	285.0 s	652.4 s	0.0	0.0	0.0	na
2005	427	422 s	355.8 s	842.4 s	0.0	0.0	0.0	na
2006	491	485 s	446.3 s	919.7 s	0.0	0.0	0.0	na
2007	na	610 s	452.6 s	742.0 s	0.0	0.0	0.0	na

a Ex mine. **b** All grades, bulk and bagged, before January 1992; standard grade only until June 1993; all grades until August 1999. **s** ABARE estimate. **na** Not available.

Sources: ABARE, *Australian Mineral Statistics,* Canberra; ABS, *International Trade,* Australia, cat. no. 5465.0, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra.

356 World zircon production, by major producing country

	Australia	South Africa a	Ukraine	United States a	Other a	Total a
	kt	kt	kt	kt	kt	kt
1961	134	na	na	na	na	na
1962	132	7	na	45	11	195
1963	181	2	na	45	12	240
1964	181	0	na	54	10	245 **b**
1965	223	0	na	54	8	286 **b**
1966	232	0	na	70	18	320 **b**
1967	290	0	na	60	6	356 **b**
1968	292	0	na	60	8	360 **b**
1969	363	0	na	63	9	435 **b**
1970	389	0	na	56	7	452 **b**
1971	406	1	na	60	12	479 **b**
1972	357	1	na	75	52	485 **b**
1973	375	2	na	90	33	500 **b**
1974	368	12	na	110	30	520 **b**
1975	382	12	na	100	16	510 **b**
1976	420	11	na	80	9	520 **b**
1977	398	17	na	90	15	520 **b**
1978	392	50	na	75	33	550 **b**
1979	445	50	na	70	45	610 **b**
1980	492	80	na	60	28	660 **b**
1981	434	100	73	70	36	713
1982	462	125	82	78	33	780
1983	382	127	82	64	48	703
1984	458	153	82	67	44	804
1985	501	161	86	70	67	885
1986	452	140	86	85	60	823
1987	466	140	86	90	64	837
1988	480	130	86	115	103	918
1989	479	150	85	118	111	975
1990	443	150	50	102	111	856
1991	288	200	50	103	60	701
1992	355	220	50	108	56	789
1993	413	220	50	105	47	835
1994	511	205	50	114	51	931
1995	505	245	50	115	56	971
1996	460	302	53	117	57	989
1997	416	297	55	123	64	955
1998	401	279	57	152	69	958
1999	359	310	60	188	79	996
2000	374	317	na	181	109	975
2001	393	377	na	173	102	1 050
2002	412	420	na	132	124	1 093
2003	462	370	na	144	121	1 088
2004	441	379	na	172	156	1 148
2005	427	399	na	164	197	1 189
2006	491	407	na	143	249	1 275
2007	na	379	na	121	235	1 301

a Bureau of Mineral Resources estimates until 1987; other sources thereafter. **b** Excludes former centrally planned economies. **na** Not available.
Sources: Bureau of Mineral Resources, *Australian Mineral Industry Annual Review,* AGPS, Canberra; Bureau of Mineral Resources, *Australian Mineral Industry, Quarterly Summary Statistics,* Canberra; TZ Minerals International, *Mineral Sands Report,* Surrey, England; TZ Minerals International, *Mineral Sands Annual Review,* Surrey, England; US Department of the Interior, Bureau of Mines, *Mineral Commodity Summaries,* Washington DC; ABARE.

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